

BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 080317-EI

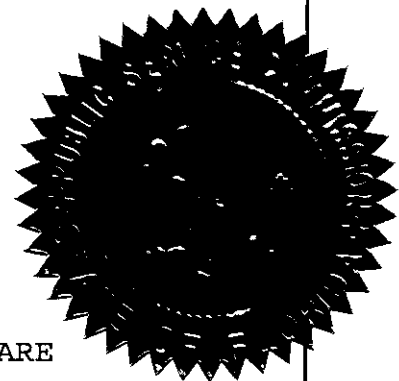
In the Matter of:

PETITION FOR RATE INCREASE BY
TAMPA ELECTRIC COMPANY.

VOLUME 7

Pages 875 through 1080

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PROCEEDINGS: HEARING

BEFORE: CHAIRMAN MATTHEW M. CARTER, II
COMMISSIONER LISA POLAK EDGAR
COMMISSIONER KATRINA J. McMURRIAN
COMMISSIONER NANCY ARGENZIANO
COMMISSIONER NATHAN A. SKOP

DATE: Tuesday, January 27, 2009

TIME: Recommended at 9:30 a.m.
Recessed at 7:26 p.m.

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

REPORTED BY: MARY ALLEN NEEL, RPR, FPR

APPEARANCES: (As heretofore noted.)

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INDEX

1		
2	WITNESS	PAGE
3	MARK J. HORNICK	
4	Cross-Examination by Ms. Christensen	879
	Cross-Examination by Ms. Bradley	888
5	Cross-Examination by Mr. Moyle	889
	Cross-Examination by Mr. Wright	903
6		
7	JOANN T. WEHLE	
	Direct Examination by Mr. Beasley	910
8	Prefiled Direct Testimony Inserted	912
	Prefiled Rebuttal Testimony Inserted	933
9	Cross-Examination by Mr. Rehwinkel	945
	Cross-Examination by Mr. Moyle	966
10		
11	REGAN B. HAINES	
	Direct Examination by Mr. Hart	973
12	Prefiled Direct Testimony Inserted	975
	Prefiled Rebuttal Testimony Inserted	1031
13	Cross-Examination by Ms. Christensen	1055
14	CERTIFICATE OF REPORTER	1080
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

EXHIBITS

	NUMBER		ID.	ADMT.
1				
2				
3	22	MJH-1		909
4	23	JTW-1	932	972
5	24	RBH-1	1029	
6	82	MJH-2		909
7	83	JTW-2	942	972
8	84	RBH-2	1030	

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P R O C E E D I N G S

1
2 (Transcript continues in sequence from
3 Volume 6.)

4 CHAIRMAN CARTER: We are back on the record.
5 When we last left, Ms. Christensen, you're recognized.

6 MS. CHRISTENSEN: Thank you. Good afternoon,
7 Commissioners, again. Good afternoon again,
8 Mr. Hornick.

9 CHAIRMAN CARTER: Excuse me, Ms. Christensen.
10 Before you go, I just had one of my over-50 moments.

11 Commissioners, for planning purposes, and also
12 to the parties for planning purposes, I had told you we
13 were going to go to 8:00, but we'll do a dinner break
14 around 6:00, from about 6:00 to 6:30. That way -- I
15 mean, I wouldn't want you to pass out or anything like
16 that. So just as kind of a housekeeping matter.

17 Commissioner Argenziano.

18 COMMISSIONER ARGENZIANO: A question. 6:00 to
19 6:30, will there be anyplace close by where everybody
20 can get something to eat?

21 CHAIRMAN CARTER: Mike Twomey has a little
22 wagon out back. He sells sandwiches on the side.
23 That's his retirement plan.

24 Oh, yeah, you guys can't get back in. Well,
25 there's that too.

1 MR. MOYLE: That would really move it along.

2 COMMISSIONER SKOP: You broke the code,
3 Commissioner.

4 COMMISSIONER ARGENZIANO: That was the plan.

5 CHAIRMAN CARTER: Yeah, yeah, that was the
6 plan. That's why we'll break at 6:00. But we'll just
7 have to see what we can -- muddle through it as best we
8 can, but those are the plans. Mr. Wright?

9 MR. WRIGHT: Are we off the record,
10 Mr. Chairman?

11 CHAIRMAN CARTER: Yes, we're off the record.

12 (Discussion off the record.)

13 CHAIRMAN CARTER: With that, Ms. Christensen,
14 you're recognized. You may proceed.

15 Thereupon,

16 MARK J. HORNICK

17 a witness on behalf of Tampa Electric Company, continues
18 his testimony under oath as follows:

19 CROSS-EXAMINATION

20 BY MS. CHRISTENSEN:

21 Q. Again, Mr. Hornick, good afternoon. Regarding
22 dredging, my understanding was one of the options that
23 Tampa Electric was considering for the disposal issue
24 was the possibility of building up the dikes to extend
25 the useful lives of the disposal areas; is that correct?

1 A. Yes, that is correct. That is one of our
2 options that we're looking at.

3 Q. Okay. And what useful life would you expect
4 to get out of those disposal areas if you choose to
5 build up the dikes?

6 A. Currently, that's not our preferred option.
7 We've looked at that and came up with a cost estimate
8 actually some time back to extend the height of those
9 dikes enough for one additional dredging.

10 The most likely scenario right now is to
11 remove enough material from the existing spoil areas to
12 allow for that next dredging to occur. That looks like
13 the most cost-effective activity or choice of project.

14 Q. Okay. Is the dredging the company states that
15 it's going to do in 2009 similar to the areas that were
16 dredged in 2002 and prior years? Is that correct?

17 A. Yes, they're similar. There's some variation.
18 The inlet canals are a different scope, but the shipping
19 channels, the dock areas, the turning basins, those are
20 all the same scope.

21 Q. And would you agree that the 2002 company
22 dredging costs, the most expensive areas were those that
23 were shared between Tampa Electric and IMC Agrico, which
24 used to be Mosaic?

25 A. Yes, I believe that's true. The majority of

1 the cost was involved with dredging the shipping channel
2 and the turning basin, which are shared facilities
3 between Tampa Electric and Mosaic in that area of the
4 port.

5 Q. Okay. And just so that I'm clear, it would be
6 correct that Tampa Electric has not obtained a bid or an
7 estimate for the dredging cost for 2009 or that you
8 included in this rate case from an outside source other
9 than those that were done for 2002?

10 A. No, that's not exactly correct. We don't have
11 a current competitive bid for the 2009 scope, but we do
12 have a cost proposal that was given to us in December of
13 2006 that we used as the basis of the estimate, so we do
14 have a more recent cost proposal than 2002.

15 Q. Okay. Let me turn your attention to the
16 company's MFR Schedule C-6, page 2.

17 A. Bear with me a second.

18 Q. Certainly.

19 A. Unfortunately, I've only got selected MFRs
20 here, and I don't have that C-6, the one you referenced.

21 MS. CHRISTENSEN: Permission to approach the
22 witness?

23 CHAIRMAN CARTER: You may do so.

24 MS. CHRISTENSEN: Thank you.

25 BY MS. CHRISTENSEN:

1 Q. Now, what I've just handed you is a copy of
2 Schedule C-6, page 2 of 6; is that correct?

3 A. Yes, that's correct.

4 Q. Okay. Now, would you agree that the actual
5 steam power maintenance expense from 2003 through 2007
6 ranged from a low of 46.074 million in 2005 to a high of
7 57.715 million that occurred in 2003?

8 A. Could you reference a line number on that MFR?

9 Q. Certainly. Referring to line 21.

10 A. Okay. It's a total of steam power
11 maintenance. Okay?

12 Q. Correct. And would you agree that the low was
13 in the year 2005, actual of approximately 46 million,
14 and that the high for steam power maintenance in 2003
15 was a high of 57 million, approximately?

16 A. Yes, those are the numbers that I see.

17 Q. Okay. And would you also agree that the
18 amount of expense for steam power maintenance has
19 fluctuated from year to year?

20 A. Yes.

21 Q. Now, looking at the schedule, for 2004, 2005,
22 2006, and 2007, the actual steam power maintenance
23 expense is less than 2003; is that correct?

24 A. Yes, that's correct.

25 Q. Okay. And would you also agree that it's not

1 realistic to assume that as each year passes, that the
2 amount of the expense will automatically be higher than
3 the previous year?

4 A. Yes, I would agree that it's not necessarily
5 true that expense in that particular category would be
6 higher in every year. That's true.

7 Q. Okay. And in 2008, the budget for the steam
8 power maintenance expense is approximately 51 million;
9 is that correct?

10 A. Yes, that is correct.

11 Q. Okay. And would you agree that the 51 million
12 is approximately the midpoint of the previous years,
13 2003 through 2007, actuals, high and low?

14 A. Yes. I haven't done the exact numerical
15 average, but it seems to be reasonable, subject to
16 check.

17 Q. Now, looking at the 2009 budgeted amount for
18 the steam power maintenance expense, that is 71 million,
19 is that correct, approximately?

20 A. Yes.

21 Q. And would it be correct that the increase is
22 attributed in part to the dredging cost included in
23 Account 511?

24 A. Yes, the dredging expense is categorized in
25 511, maintenance of structures, steam power generation.

1 That's my understanding.

2 Q. Okay. And on page 16 of your rebuttal
3 testimony, did you indicate that a pro forma adjustment
4 was made to remove the 5.5 million of this 2009 expense?

5 A. Yes, I believe that's correct. I did indicate
6 that. What page again?

7 Q. Page 16 of your rebuttal, looking at line 15,
8 or -- excuse me. It might be slightly higher.

9 A. Uh-huh.

10 Q. That was correct?

11 A. Yes, at line 14. Yes, the company
12 subsequently made a pro forma adjustment to remove
13 5.5 million of the 6.9 million.

14 Q. Okay. Now, do you have in front of you
15 Schedule C-2, page 3, of the MFRs?

16 A. Let me see here. No, that's not one of the
17 ones I have here with me.

18 MS. CHRISTENSEN: Permission to approach the
19 witness?

20 CHAIRMAN CARTER: You may approach.

21 BY MS. CHRISTENSEN:

22 Q. Now, Mr. Hornick, I've just handed you
23 Schedule C-2, page 3 of 7; is that correct?

24 A. Yes.

25 Q. Okay. Looking at column 4, isn't it correct

1 that under the company's adjustment, column 4, number 4,
2 that the dredging adjustment is 5.32 million?

3 A. Yes, that is the number I see here.

4 Q. Okay. Can you tell us which one is correct?

5 Is it the 5.5 million referred to in your rebuttal
6 testimony or the 5.32 million adjustment referred to in
7 the MFR?

8 A. I'm not certain. This Schedule C-2, I did not
9 prepare that schedule, and I'm not familiar with the
10 calculations involved. Our witness, Jeff Chronister,
11 would be better able to answer that, the specifics of
12 the accounting treatment and the calculation there.

13 Q. Okay. But isn't it correct that even by
14 removing, assuming that the schedule is correct, the
15 5.32 million from the steam power maintenance expense,
16 which would result in approximately 66.5 million, that's
17 still considerably more than the historical expense
18 level? Isn't that correct?

19 A. Yes, within that category of expense, it is
20 higher.

21 Q. Okay. And even accounting for the
22 \$5.32 million adjustment, the budgeted 2009 steam power
23 maintenance expense is approximately 8.8 million more
24 than the last highest year of 2003?

25 A. I don't have a calculator with me, but the

1 mathematics, it looks appropriate, subject to check.

2 Q. Okay. And wouldn't you agree, or isn't it
3 correct -- let me rephrase that -- that the cause for
4 this increase in 2009 is the number of major outages?

5 A. I would say that's one of the contributors to
6 that increase in expense. These accounts go from
7 Account 510 to Account 514. They include a number of
8 expenses, not solely based on planned outages.

9 Q. Okay. Would you agree that in 2009 -- that
10 the 2009 work outages are atypical?

11 A. Could you repeat that question?

12 Q. Would you agree that the 2009 work outages are
13 atypical?

14 A. I would agree they are perhaps atypical, but
15 certainly not unprecedented. We've had years in the
16 past where we've had planned outages at the Big Bend
17 Station, which I think is the subject of your question,
18 that have been -- you know, we've had up to three
19 planned outages per year.

20 Q. Wouldn't you agree that it is reasonable to
21 base the maintenance expense in rates on an average that
22 takes into account the fluctuation from year to year
23 rather than to ask ratepayers for maintenance costs that
24 are atypical?

25 A. No, I wouldn't necessarily agree, first of

1 all, that they're atypical. You asked me about the
2 number of outages. And the overall cost is not just
3 planned outages, but maintenance expense involved with
4 forced outages and routine maintenance. And when you
5 look at our spending over time and into the future, you
6 can see that the overall maintenance expense in 2009 is
7 not out of the ordinary and atypical for what we would
8 expect to see going forward.

9 Q. Now, do you recall taking a deposition? Do
10 you recall having your deposition taken?

11 A. Sure. Yes, I do.

12 Q. Okay. And do you recall being asked this
13 question and providing this answer?

14 "All right. But given your experience, being
15 with the company since 1981, is it not typical to have
16 multiple major outages at Big Bend Plant in a one-year
17 time frame, is it?"

18 And your answer was, "That would be something
19 that would be atypical, since we try to spread the
20 maintenance out, but it is not -- I don't know that it's
21 unprecedented."

22 Do you recall giving that question, the
23 response?

24 A. Yes, I did. And I did say in the subject of
25 that deposition that -- I believe I was asked since

1 1981, had there been three outages at Big Bend Station,
2 and that's just not a statistic that would stay with me.

3 We typically try to sequence our outages so
4 that we don't have more units off in a year than will
5 allow us to reliably provide power. Certainly the units
6 need to be running in order to do that. It's probably
7 not a normal or an average situation, but it's not
8 unprecedented. And as I said, in 2005, I believe, and
9 in 2006, we had a situation where we had three major
10 outages at Big Bend Station.

11 Q. But those weren't years in which you were
12 setting rates; is that correct?

13 A. That's correct.

14 MS. CHRISTENSEN: No further questions.

15 CHAIRMAN CARTER: Thank you. Ms. Bradley.

16 CROSS-EXAMINATION

17 BY MS. BRADLEY:

18 Q. Sir, a few months ago when the economy went
19 bad, did you personally look at possible postponements
20 or modification of these projects to see if you could
21 reduce your rate request?

22 A. No, I did not.

23 MS. BRADLEY: Thank you.

24 CHAIRMAN CARTER: Thank you, Ms. Bradley.

25 Mr. Moyle.

1 MR. MOYLE: Thank you, Mr. Chairman.

2 CROSS-EXAMINATION

3 BY MR. MOYLE:

4 Q. I have some questions for you today. I'm Jon
5 Moyle representing FIPUG.

6 Were you here when the opening statements were
7 given and Mr. Twomey recounted his story about the
8 gentleman from Century Village who talked about the view
9 of rate cases where the utilities ask for twice as much
10 they need and the regulators cut it in half, and
11 everybody just kind of goes on? Did you hear that?

12 A. I was not here. I was listening, and I did
13 hear that.

14 Q. Okay. In reviewing your testimony, a lot of
15 it has a lot of fine detail, but Mr. Pollock, who is a
16 FIPUG witness, suggests that the appropriate amount of
17 recovery is 12.2 million, and you contend it's
18 20.2 million; correct?

19 A. That's correct, for the planned outage
20 expense, I believe at Big Bend Station is what he looked
21 at.

22 Q. Okay. And I'm going to ask you some questions
23 about that. It's not every day in my line of work where
24 I get to ask questions and argue and litigate over an
25 \$8 million number. That's a pretty big number. So bear

1 with me, if you would, as I try to dig in a little bit
2 on some of these outage questions.

3 MR. MOYLE: What I would like to do, if I
4 could, Mr. Chairman, is have a document distributed
5 which was -- it's already part of the record. I think
6 Ms. Kaufman may have it.

7 CHAIRMAN CARTER: You're just going to use it
8 for cross-examination?

9 MR. MOYLE: Yes, sir. And it's part of the
10 record. It's an exhibit to Mr. Pollock's testimony. It
11 may not be in the record yet, but I think I can clear
12 that up with the witness briefly.

13 CHAIRMAN CARTER: Okay.

14 BY MR. MOYLE:

15 Q. Mr. Hornick, I've just distributed a document
16 that is entitled "TECO Planned Big Bend Outage Weeks,
17 Exhibit JP-2." Can you identify this document for the
18 record?

19 A. Yes, I see that designation on the top, "TECO
20 Planned Big Ben Outage Weeks, Exhibit JP-2."

21 Q. And this is a document that TECO created;
22 correct?

23 A. Yes.

24 Q. And isn't it the business plan, the business
25 plan outage summary for the years 2007 to 2013?

1 A. Yes. The title on this particular page is
2 "Big Bend Station Business Plan, 2007 to 2013, Outage
3 summary." I believe it's a portion of a document that's
4 created annually at each power plant location to
5 summarize the business plans in the near term and
6 intermediate term.

7 Q. Okay. And looking at the chart there, it has
8 units on it, and then it has the initials FS and MO. MO
9 stands for major outage; correct?

10 A. Yes, that's correct.

11 Q. And in looking at the chart, it looks like at
12 this point in time when this document was prepared that
13 there were major outages scheduled for Big Bend, one per
14 year from 2005 to 2013. Am I reading that correctly?

15 A. Yes. That's what this matrix represents, the
16 forecasted outages in the future, yes.

17 Q. Okay. So at this point in time, it was one
18 major outage per year. As we sit here today, isn't it
19 true that the company is asking for this Commission to
20 grant them rate relief that would account for
21 two-and-a-half major outages for Big Bend in 2009?

22 A. Yes. In 2009, our present maintenance
23 schedule would include the major outage that's listed
24 here, a 98-day outage in 2009. That was originally
25 planned for the SCR, selective catalytic reduction,

1 installation. That's moving forward as planned. I
2 would say that that outage actually started last year in
3 November and is carrying on as we speak.

4 We also will take Unit 1 off. Now, in this
5 particular plan, it listed it as an FS, which is a fuel
6 system outage. It was expected to be a 14-day interval.
7 And I believe this document -- we talked about it in my
8 deposition. I believe this document appears to be
9 prepared in 2006, so it was some time ago. We had made
10 the decision to sequence the timing of the SCR outages
11 such that they start at the end of the previous year, if
12 you will -- for Big Bend 2, that was 2008 -- and
13 continue into 2009. The same will occur in 2009 going
14 into 2010 for the Big Bend 1 SCR tie-in. We've got four
15 units at Big Bend. They're all required to install
16 these SCR systems, and they've got to be in place by
17 rule by 2010.

18 So this 14-day fuel system outage will
19 actually be about a five-week interval. It's the start
20 of the SCR work on that unit, and I think that's the one
21 you referred to as -- or I would refer to as half a
22 major. It's the smaller portion of the major outage,
23 which will continue in 2010.

24 In addition, we have an extended outage.
25 There was a planned maintenance period on Big Bend Unit

1 4, a 21-day interval described as a fuel system outage.
2 We have extended the scope on that based on some work
3 that is necessary for reliable operation and actually
4 came to light or came to our understanding after this
5 business plan was created under some superheater work
6 that's causing us issues with reliability on the unit,
7 and we need to perform maintenance on that unit in 2009.

8 Q. Thank you for that. I was not going to get
9 into all that level of detail, but, you know, I
10 understand that things change and whatnot. I'm kind of
11 looking at it maybe from the perspective of the
12 gentleman that Mr. Twomey referenced in the opening.

13 You could possibly see how it might raise an
14 eyebrow if the major outage schedule went from one to
15 two-and-a-half or three, depending on how you count
16 that, over a couple of years' course in time, couldn't
17 you?

18 A. Well, from 2006 to 2009, those plans certainly
19 changed. I would say they were forecast from that
20 business plan early on, and as things became more clear
21 and the timing of outages developed, that plan was
22 jelled together. I would say it is necessary and
23 prudent work, clearly, that needs to be performed in
24 2009.

25 Q. Okay. And I understand that plans can change.

1 I thought Mr. Black, the president of the
2 company, also indicated that there may be a change in
3 plans with the combustion turbines coming online. I
4 think you were asked a question about that earlier.
5 Mr. Black testified that there may be some consideration
6 of deferring a couple of the CTs. You don't have any
7 reason to disagree with his testimony that he gave to
8 this Commission earlier this week, do you?

9 A. I don't have a reason to disagree with
10 Mr. Black's testimony. I will say that as director of
11 engineering and construction, my department's charge is
12 to move forward with all those machines.

13 The machines that are being installed and will
14 go in service in May are largely completed. The
15 combustion turbines, the generators, and the generator
16 step-up units are in place. If you looked at the
17 machines, you would say they're essentially mechanically
18 complete. We're doing piping and wiring. We expect
19 first fire on those machines in April. So there has
20 been a substantial amount of effort. The other machines
21 are pretty far along as well, so --

22 Q. Some of them are coming in in May and the
23 others in September; is that right?

24 A. That's correct. There are two machines that
25 are scheduled to go in service at the Bayside Station,

1 Units 5 and 6, in May, two more machines in September at
2 Bayside, and the fifth machine at Big Bend in September.

3 Q. All right. And we discussed this in the
4 deposition, but I just want to make sure I'm clear. You
5 guys plan for a 20 percent reserve margin; correct?

6 A. That's correct.

7 Q. And if none of these CTs went in in 2009,
8 wouldn't you have over a 20 percent reserve margin in
9 2009?

10 A. As we discussed in my deposition, if you look
11 at the latest load forecast, which was part of the rate
12 case filing, without the two May CTs, we would be
13 slightly over the 20 percent reserve margin for the
14 summer 2009 peak. We would need them for the winter
15 2010 peak, based on our last forecast.

16 I would add, just last week we had a new
17 system peak, winter peak record that was set on
18 Wednesday that was 180 megawatts higher than our
19 previous winter record. So we are seeing peak demand
20 growth, and the need for those machines is there, and as
21 I said earlier, they have other operating benefits.

22 Q. No, I understand. But with respect to the 20
23 percent reserve margin, if you don't put any of the CTs
24 in, you're still over 20 percent; correct?

25 A. Based on our latest load forecast, which was

1 not the load forecast that we made the decision under,
2 that is true. We were slightly over the 20 percent
3 margin.

4 Q. Okay. And also, it's true that Tampa Electric
5 Company for a number of years operated at a 15 percent
6 reserve margin; correct?

7 A. Yes, that's my understanding.

8 Q. Now, you answered Public Counsel's question by
9 indicating that in your view, you didn't think it was
10 typical to have three outages in one year at Big Bend;
11 correct?

12 A. That's correct. I believe it's probably not
13 the norm if you look at the overall average, but it is
14 not unprecedented.

15 Q. And for ratemaking purposes in rate cases,
16 don't you try to, you know, kind of factor in the norm
17 for the purposes of recovering rates and present
18 testimony and facts on the norm as compared to the
19 atypical?

20 A. That's my understanding of selecting a test
21 year. However, that's not really my area of expertise.
22 I would say that selecting only the planned outage
23 expense is a narrow view and represents probably only
24 20 percent of our total O&M for energy supply.

25 Q. All right. I have a few more questions, and

1 then I think I'll be done with you in terms of the
2 questions.

3 You were asked questions about dredging. I
4 want to explore the dredging issue a little bit with
5 you.

6 A. Yes, sir.

7 Q. Currently, you dredge that material up.
8 Commissioner Argenziano asked you about its
9 characteristics. I mean, none of that stuff that you
10 land apply is hazardous or has any properties that are
11 problematic from a DEP perspective; correct?

12 A. Yes. From an environment characterization,
13 that material is not classified as a hazardous waste.
14 It doesn't reach that level.

15 There are characteristics of it, as we
16 discussed in my deposition. Part of that material is
17 sandy and granular, as you would expect. Part of it is
18 silty and clay-like. So if you went out and looked at
19 the material that has been deposited in our disposal
20 areas, some of it is -- I'm not sure of a good technical
21 term, but gooey. It would -- it's sticky. And in terms
22 of fill, fill material, it's really not appropriate for
23 purposes of fill, backfill. But, no, it is not a
24 hazardous waste.

25 Q. Isn't it true that you in the past have either

1 given it away or sold it to third parties for purposes
2 that they would make use of it?

3 A. Yes, it is true. Some of the material is of
4 that sandy, granular nature, and in certain areas of our
5 disposal area, we were able to reclaim only the
6 appropriate material that's useful, that's not
7 contaminated with the clay and softer material.
8 Unfortunately, the majority of that has been mixed and
9 is kind of homogenized, and it's not possible to
10 separate it.

11 So we've had limited success. And certainly
12 that's something we would like to do more of, is to find
13 a beneficial reuse for it.

14 Q. And you mentioned conversations with
15 landfills. Isn't it your understanding that this
16 material can also be used for alternate daily cover at
17 landfills, which means they put it on top of the garbage
18 that's disposed of on a daily basis to kind of keep the
19 flies and the smell down?

20 A. Actually, we did discuss that in the
21 deposition. I was unaware at the time of the
22 investigations that had gone on. Subsequently, I've
23 talked to our folks, and we have offered that as daily
24 cover at a landfill. The stickiness, the clay material
25 makes it unsuitable for that purpose. The landfills

1 have an issue with their vehicles. That material will
2 stick to the tires and create an issue, and it's really
3 not suitable, and they're not interested in that
4 material for daily cover. They will take it as a waste,
5 but it's not suitable for the daily cover purpose.

6 Q. Which landfill was that that told you that?

7 A. I believe it's the Okeechobee landfill.

8 That's subject to check.

9 Q. Okay. Another issue related to this dredging
10 is the frequency of the dredging. And I think in
11 response to a question from Commissioner Skop, you said
12 that hurricanes might accelerate the silting-in process;
13 is that correct?

14 A. Yes, that is correct. The wave action in the
15 bay, particularly at the deep levels, has certainly an
16 influence on how rapidly the channels will silt in.
17 They're quite a bit deeper than the average depth around
18 them.

19 Q. And the hurricanes in Florida, the most recent
20 years we had a lot of hurricanes were 2004 and 2005;
21 correct?

22 A. 2004 sticks out in my mind in particular, yes.

23 Q. And this was dredged in 2002?

24 A. Yes.

25 Q. Okay. And then you're looking to dredge it

1 again seven years later in 2009?

2 A. Yes. It's actually a little over six years.

3 Q. Okay. I think there has been a suggestion
4 that the cost of dredging be amortized not over five
5 years, but over a longer period of time. Wouldn't that
6 seem to make sense, you know, if we had storms in '04
7 and '05 and you were able to go seven years dredging
8 that channel, that at least for recovery purposes, that
9 you amortize it over a longer period of time?

10 A. As I said, it would be in the six-year time
11 frame this time. If you look back at our previous three
12 dredging intervals, though, they average a five-year
13 interval. We were able to defer it on this last one,
14 but we feel it's most appropriate -- if you look at
15 history and our typical experience, a five-year interval
16 is appropriate.

17 Q. Okay. Just a few more questions. We talked
18 in the deposition. I just wanted to spend a couple of
19 minutes on SCR. Would you just briefly tell the
20 Commission what the SCR is?

21 A. Uh-huh. SCR is a pollution control device.
22 It's selective catalytic reduction. There's a catalyst
23 that's -- a catalyst matrix that's installed in the duct
24 between the boiler and the air preheater. We inject
25 ammonia ahead of that. In that process, the ammonia

1 with the flue gas will take nitrogen oxides and convert
2 that to elemental nitrogen, which is not a pollutant.
3 SCRs are a fairly common technology now for NO_x control.

4 Q. And SCRs, they came about as a result of a
5 settlement you guys had with DEP and the EPA; correct?

6 A. That's correct, the installation of the SCRs,
7 not the SCRs themselves. That technology has been
8 around for some time, but our plans and the requirements
9 to install SCRs was as a result of those orders you
10 referenced.

11 Q. The moneys that you spend on SCRs, that's
12 nonrecurring, correct, because you put them in once?

13 A. That's correct.

14 Q. Okay. And --

15 A. Well, just let me add that there's maintenance
16 that goes on in addition. Once you install the
17 catalysts, they need to be replaced periodically, but
18 the initial capital is a one-time event.

19 Q. And you guys are seeking to recover days of
20 outage associated with maintenance. Isn't it true that
21 the average time to put the SCR in is four to five
22 weeks?

23 A. No, it's longer. It's a longer period than
24 that for an SCR outage.

25 Q. How long is it?

1 A. The Big Bend 2 outage that started in November
2 of 2008 will finish in April. I believe it's 130 days
3 for the total duration of that outage work.

4 Q. And what you're trying to do just so you're
5 efficient is, you also perform regular scheduled
6 maintenance on these units when they're down for the
7 extended time for the SCR installation; correct?

8 A. Yes. To be prudent, it would make sense for
9 us to perform other planned maintenance within that
10 window. The critical path, the duration of the outage
11 is set by the SCR work. That's the longest duration
12 task, and we can complete the other planned maintenance
13 within that time frame.

14 Q. So wouldn't it make sense, from your
15 perspective, that if the -- and I'll just use these
16 numbers as hypotheticals -- if the SCR time is five
17 weeks and the time that the plant would be down for
18 normal, otherwise scheduled maintenance is three weeks,
19 that you would use the three-week time period for
20 calculating expenses that should be recovered from
21 ratepayers as compared to the five-week time, because
22 that's a one-shot, nonrecurring time frame? Would you
23 agree with that?

24 A. If I understood your question correctly, the
25 calculation of costs and budgets associated with those

1 activities, the SCR installations are stand-alone
2 capital projects, approved environmental cost recovery
3 projects.

4 The planned maintenance work is identified by
5 scope, by activity, and by the dollars spent on each one
6 of those projects, and that would be the breakdown, the
7 appropriate breakdown in terms of budget and estimating
8 expenses.

9 Q. Okay. Isn't it true that the units are
10 permitted, the Big Bend units are permitted to run
11 without the SCRs pursuant to the settlement agreement?

12 A. That is true, but it will no longer be the
13 case at the completion of the SCR installations.

14 MR. MOYLE: No further questions,
15 Mr. Chairman. Thank you.

16 CHAIRMAN CARTER: Thank you, Mr. Moyle.
17 Mr. Wright.

18 MR. WRIGHT: Thank you, Mr. Chairman.

19 CROSS-EXAMINATION

20 BY MR. WRIGHT:

21 Q. Good afternoon, Mr. Hornick.

22 A. Good afternoon.

23 Q. I just have a few questions for you.

24 I'm looking at the single-page document from
25 Tampa Electric's earlier Big Bend Station business plan

1 that Mr. Moyle had distributed earlier. It appears to
2 me that the normal modus operandi for Tampa Electric
3 with regard to planned major outages at Big Bend Station
4 was to take one unit out for a major outage each year in
5 sequence. Is that an accurate characterization?

6 A. I think that outage planning has changed over
7 time. One of the things that's significant -- has been
8 a significant challenge for us is the completion of
9 these SCR installations. And with the length of those
10 outages, we've had to very carefully plan when that work
11 would take place and sequence them accordingly, because
12 they are long outages, and we've got to make sure we've
13 got adequate generating units in service to cover the
14 demand of our customers.

15 So as this plan indicates -- and I think what
16 this represents is really the schedule for the SCRs and
17 the work, subsequent work for other units in those time
18 frames. We are moving in the direction of more frequent
19 outages and in fact are moving in the direction of a
20 two-year interval, major outage interval on the Big Bend
21 units in the future. We think that's going to provide
22 greater reliability and probably overall lower costs in
23 the future.

24 Q. This plan did project the SCR retrofits at all
25 the Big Bend units, did it not?

1 A. Yes, it does project the retrofits in the
2 year. As I stated earlier, there was some minor change
3 in terms of the sequencing. I think when this plan was
4 put together, there was an expectation that we would
5 start the outage around the beginning of the calendar
6 years, and we've slid the total duration so they cross
7 from December of the previous year into April, roughly,
8 of the following year.

9 Q. In your prior response, you said you are
10 moving in the direction of an outage, I guess, every
11 other year for each of the -- a major outage every other
12 year for each of the Big Bend units. Did I understand
13 that correctly?

14 A. Yes.

15 Q. What's that going to do to the capacity factor
16 of those units?

17 A. It will have -- the capacity factor.

18 Q. Well, let's start with the availability
19 factor. What's it going to do to the availability
20 factor?

21 A. Okay. The availability factor. Certainly
22 with more planned outage time, you will have more time
23 for the units spent unavailable during that. However,
24 there will be an offsetting impact. The forced outage
25 time for those units will decrease such that the overall

1 reliability we feel will be improved based on a more
2 frequent major outage schedule.

3 Major outages, just to clarify a little bit,
4 can run different lengths. Which classify a major as a
5 four-week outage, four-week duration or greater.
6 Depending on the critical path job, you could have a
7 four-week major outage or potentially an eight-week
8 major outage, depending on what we call the critical
9 path scope, the longest duration job within that
10 duration.

11 Q. What is the average forced outage rate on your
12 Big Bend units?

13 A. Just bear with me a second.

14 I don't have the breakdown on forced outage
15 rate for the Big Bend units. The overall availability,
16 it varies by units. It's in the high 60, 70 percent
17 range, by memory, subject to check.

18 Q. The overall availability factor?

19 A. Equivalent availability factor, yes. It
20 varies by year. Of course, currently, with these longer
21 SCR outages, that's impacting it to some extent as well.

22 Q. Just in ballpark terms, is the forced outage
23 rate for those units higher than 3 or 4 percent?

24 A. Yes.

25 Q. I think you mentioned in some prior responses

1 that you're in the middle of an extended outage at Big
2 Bend 2. Did I get that right?

3 A. Yes, that's correct.

4 Q. And it started in November of 2008?

5 A. Yes.

6 Q. And you also testified that you recently hit a
7 new high winter peak last week, I think, or the week
8 before?

9 A. Yes. Last week, Wednesday -- Thursday
10 morning.

11 Q. I'm just curious why you all are scheduling
12 outages of your major base load units during the time
13 that you're likely to encounter winter peak. Why is
14 that?

15 A. It's because of the requirement for these SCR
16 installations. We really -- we've got to sequence four
17 units in, long duration outages over a four-year
18 interval, so that's the primary driver there.

19 Q. And when did you enter into the settlement
20 agreement that required you to install the SCR equipment
21 on these plants?

22 A. It was several years ago, 1999, 2000,
23 somewhere -- I'm really not sure.

24 Q. Thank you. That's consistent with my
25 recollection.

1 I just have one more question for you. You
2 testify in your testimony regarding the representation
3 as fact that Tampa Electric's production O&M has not
4 exceeded the Florida Public Service Commission's O&M
5 benchmark; is that correct?

6 A. That's correct.

7 Q. And my question for you really just goes to
8 the meaning of the benchmark. Will you agree that the
9 benchmark is simply an initial evaluative tool and that
10 it's not -- that if you don't exceed it, that doesn't
11 mean that you don't have to prove up anything else about
12 the prudence of your costs? Is that a fair
13 characterization?

14 A. It's my understanding that the benchmark
15 comparison is one method, Commission-approved method
16 that provides an indication as to the prudence of
17 expense. And I'm not -- regulatory affairs is not my
18 area of expertise, and I'm not sure I could offer an
19 opinion beyond that.

20 MR. WRIGHT: Thank you very much. Thank you,
21 Mr. Chairman. Thank you, Mr. Hornick.

22 CHAIRMAN CARTER: Thank you, Mr. Wright.
23 Mr. Twomey.

24 MR. TWOMEY: I don't have any questions of
25 this witness.

1 CHAIRMAN CARTER: Thank you, Mr. Twomey.
2 Commissioners, I'm going to go to staff. Staff, you're
3 recognized.

4 MR. YOUNG: No questions.

5 CHAIRMAN CARTER: Okay. Back to the bench.
6 Anything further?

7 Okay. Let's go to redirect.

8 MR. HART: No, Mr. Chairman, we don't have any
9 redirect, but we would move Exhibits Number 22 and 82
10 into the record.

11 CHAIRMAN CARTER: Exhibit Number 22 and 82,
12 are there any objections? Without objection, show it
13 done.

14 (Exhibits 22 and 82 were admitted into the
15 record.)

16 CHAIRMAN CARTER: Anything further for this
17 witness?

18 MR. HART: May Mr. Hornick be excused?

19 CHAIRMAN CARTER: You may be excused. Call
20 your next witness.

21 MR. BEASLEY: We call Ms. Wehle.

22 CHAIRMAN CARTER: I beg your pardon?
23 Ms. Wehle?

24 MR. BEASLEY: W-e-h-l-e.

25 CHAIRMAN CARTER: Thank you.

1 MR. BEASLEY: Ms. Wehle, have you previously
2 been sworn in this proceeding?

3 THE WITNESS: No, I have not.

4 CHAIRMAN CARTER: Ms. Wehle, would you please
5 stand and raise your right hand.

6 (Witness sworn.)

7 CHAIRMAN CARTER: Please be seated. You may
8 proceed.

9 Thereupon,

10 JOANN T. WEHLE
11 was called as a witness on behalf of Tampa Electric
12 Company and, having been first duly sworn, was examined
13 and testified as follows:

14 DIRECT EXAMINATION

15 BY MR. BEASLEY:

16 Q. Ms. Wehle, would you please state your name,
17 your business address, and your position with Tampa
18 Electric Company?

19 A. Yes. My name is Joann Wehle. I am the
20 director of wholesale marketing and fuels for Tampa
21 Electric Company. My business address is 702 North
22 Franklin Street, Tampa, Florida.

23 Q. Ms. Wehle, did you prepare and submit in this
24 proceeding a document entitled "Direct Testimony of
25 Joann T. Wehle"?

1 A. Yes, I did.

2 Q. Do you have any corrections to make to that
3 document?

4 A. No, I do not.

5 Q. If I were to ask you the questions contained
6 in your prepared direct testimony, would your answers be
7 the same?

8 A. Yes, they would.

9 MR. BEASLEY: Mr. Chairman, I would ask that
10 Ms. Wehle's direct testimony be inserted into the record
11 as though read.

12 CHAIRMAN CARTER: The prefiled testimony of
13 the witness will be entered into the record as though
14 read.

15

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1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**2 **PREPARED DIRECT TESTIMONY**3 **OF**4 **JOANN T. WEHLE**

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

8
9 **A.** My name is Joann T. Wehle. My business address is 702
10 North Franklin Street, Tampa, Florida 33602. I am
11 employed by Tampa Electric Company ("Tampa Electric" or
12 "company") as Director, Wholesale Marketing & Fuels.

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

16
17 **A.** I received a Bachelor of Business Administration Degree
18 in Accounting in 1985 from St. Mary's College, Notre
19 Dame, Indiana. I am a Certified Public Accountant in
20 the State of Florida and worked in several accounting
21 positions prior to joining Tampa Electric. I began my
22 career with Tampa Electric in 1990 as an auditor in the
23 Audit Services Department. I became Senior Contracts
24 Administrator, Fuels in 1995. In 1999, I was promoted
25 to Director, Audit Services; subsequently, I rejoined

1 the Fuels Department as Director in April 2001. I
2 became Director, Wholesale Marketing and Fuels in August
3 2002. I am responsible for managing Tampa Electric's
4 wholesale energy marketing and fuel-related activities.

5
6 **Q.** What is the purpose of your direct testimony?

7
8 **A.** My direct testimony describes Tampa Electric's fuel
9 inventory planning process and the factors that
10 influence the reliable supply and delivery of coal, oil
11 and natural gas. Fuel inventory planning is used to
12 determine the proposed fuel inventory working capital
13 levels included in the rate base in this proceeding.

14
15 **Q.** Have you prepared an exhibit to support your direct
16 testimony?

17
18 **A.** Yes, Exhibit No. ____ (JTW-1), entitled "Exhibit of Joann
19 T. Wehle", was prepared under my direction and
20 supervision. It consists of the following documents:

21 Document No. 1 List Of Minimum Filing Requirement
22 Schedules Sponsored Or Co-Sponsored
23 By Joann T. Wehle

24 Document No. 2 2009 Proposed Coal Inventory

25 Document No. 3 Coal Inventory Levels 2003-2007

1 Document No. 4 2009 Proposed Fuel Inventory

2
3 **Q.** What is the objective of Tampa Electric's fuel inventory
4 planning process?

5
6 **A.** The company seeks to maintain the level of fuel
7 inventory necessary to minimize the risk of service
8 interruptions due to fuel depletion or the lack of
9 environmentally acceptable fuels. This means that the
10 company's overall planning process must recognize
11 factors that affect inventory levels, such as fuel
12 supply uncertainty, fuel delivery disruption, fuel burn
13 variation and extraordinary events.

14
15 Tampa Electric's fuel inventory planning process is
16 driven by the understanding that depleting fuel
17 inventory to unreasonably low levels is costly and
18 unacceptable. The company believes that the cost of
19 carrying sufficient levels of fuel is much less
20 expensive than making emergency purchases of fuel at a
21 premium price, buying replacement power or interrupting
22 electrical service to customers due to the lack of
23 supply of fuel. By recognizing the multitude of issues
24 that may interrupt fuel supply at a power plant, Tampa
25 Electric uses diverse supply sources, redundant delivery

1 methods and sufficient storage sites within its system.

2

3 **Q.** What types of fuel does Tampa Electric use?

4

5 **A.** Tampa Electric uses coal and pet coke ("coal"), natural
6 gas, light oil and heavy oil for generation fuels. In
7 2007, energy generated by Tampa Electric was fueled by
8 about 56 percent coal, 44 percent natural gas and less
9 than one percent fuel oil. The company's annual coal
10 requirement is a burn of approximately five million tons
11 and the annual natural gas requirements are about 60
12 million MMBTUs. A relatively small amount of heavy (#6)
13 oil and light (#2) oil is used to meet peak load and
14 backup requirements.

15

16 **Q.** What fuel inventories are components of your overall
17 system-wide fuel inventory?

18

19 **A.** Tampa Electric considers coal, natural gas and oil to be
20 components of its overall system-wide inventory. For
21 coal, inventory includes all coal that the company owns
22 and has in its control. This includes coal that is
23 stored on-site at the power plants, stored off-site, and
24 en route. The natural gas amount included in inventory
25 is the amount owned by Tampa Electric and stored in

1 underground storage caverns or stored in interstate
2 pipelines. For oil, only that which is stored on-site
3 is included in inventory because oil is not under Tampa
4 Electric's ownership or control until it reaches the
5 plant site.

6
7 **Q.** Please explain Tampa Electric's fuel inventory planning
8 process.

9
10 **A.** Tampa Electric's overall system-wide inventory planning
11 process relies on projected burns, forecasted purchase
12 arrangements and delivery lead times to convert the
13 target days of inventory into the required tons, MMBTUs
14 or barrels of inventory. As circumstances and
15 projections change, Tampa Electric updates projections
16 for future periods to assure it maintains reliable
17 inventory levels. It is important to recognize that
18 appropriate inventory levels vary from one type of fuel
19 to another and are not necessarily the same for all
20 utilities.

21
22 **COAL INVENTORY**

23 **Q.** What system-wide coal inventory levels are included in
24 the company's inventory planning process?
25

1 **A.** Tampa Electric's coal inventory levels are included at
2 "target" levels. Tampa Electric's overall system-wide
3 coal inventory target level is 98 days projected burn
4 (95 days supply under normal circumstances plus 3 days
5 supply for test-burn). This is consistent with the 98
6 days projected burn approved in the company's last rate
7 case. While the number of days of burn is the same, the
8 overall tonnage of coal is actually less due to re-
9 powering Gannon Power Station from coal to natural gas,
10 and renaming it, H. L. Culbreath Bayside Power Station.

11
12 **Q.** Please describe the company's experience in maintaining
13 coal inventory.

14
15 **A.** The company has over 50 years of experience in fuel
16 supply management, including coal and other fuel
17 sources. Over this time, the coal supply inventory
18 levels have been impacted by adverse weather conditions
19 including floods, hurricanes, water route blockages,
20 coal and railroad industry strikes, burn variations and
21 transportation provider equipment breakdowns. The
22 company has established its coal inventory planning
23 process to reflect the impact of these and other
24 factors. These factors are monitored continually
25 because running out of fuel or exceeding environmental

1 limitations due to the lack of environmentally useable
2 coal types is not acceptable.

3
4 **Q.** What major factors influence the level of coal inventory
5 Tampa Electric proposes to maintain in 2009?

6
7 **A.** There are a number of considerations that influence
8 Tampa Electric's proposed 2009 coal inventory level.
9 These factors can best be discussed under three major
10 categories of inventory planning: 1) coal supply and
11 transportation uncertainty 2) coal burn variability and
12 3) other risk factors.

13
14 **Q.** What are some examples of supply and transportation
15 disruptions that contribute to or cause coal inventory
16 uncertainty?

17
18 **A.** Tampa Electric's plants are located approximately 1,000
19 miles from the Illinois Basin where the vast majority of
20 its coal is mined. Force majeure events and safety
21 issues can halt coal production or interrupt
22 transportation. Diminished supplier performance can
23 also cause a supply disruption or reduction on contract
24 and spot purchases.

25

1 The river and rail transportation systems used to
2 deliver coal are subject to supply disruptions. Tampa
3 Electric faces the possibility of river closings
4 associated with the repair of lock mechanisms. These
5 river locks raise and lower the barges for proper
6 navigation through the Mississippi and Ohio River
7 systems. Almost every year the river systems have high
8 and/or low water conditions due to excessive drought or
9 rainy conditions. Fog, ice and transportation equipment
10 breakdowns can delay or interrupt transportation on the
11 river system as well.

12
13 Likewise, the Gulf transportation system can be affected
14 by fog, hurricanes and equipment breakdowns. Gulf Coast
15 hurricanes such as Hurricane Katrina that impact the
16 mouth of the Mississippi can significantly disrupt coal
17 and all other energy commodity deliveries.

18
19 The rail transportation system can be affected by
20 congestion, maintenance down time, rail blockings,
21 flooding and equipment breakdowns resulting in slower
22 turn times, the time it takes a train to return to the
23 coal mine for its next shipment and fewer annual
24 deliveries.

25

1 Q. How can these coal supply and transportation disruptions
2 affect Tampa Electric's inventory?

3
4 A. Up to 50 percent of Tampa Electric's coal inventory at
5 any given time is off-site or in-transit. As a result,
6 up to half of the inventory is subject to the risk of
7 being delayed due to many factors, which can affect coal
8 availability. The availability of Tampa Electric's coal
9 supply and consequently the level of inventory the
10 company must have on hand must reflect these types of
11 coal supply uncertainties.

12
13 Q. What is meant by coal burn variability?

14
15 A. Coal burn variability refers to the difference between a
16 planned and actual coal burn. One reason for having
17 coal inventories is to ensure against periods of
18 unexpectedly high coal burn requirements. Typically,
19 coal suppliers and transporters require relatively level
20 production and delivery schedules to offer their lowest
21 pricing. However, the coal units' consumption actually
22 varies daily and monthly depending on weather,
23 performance, fuel type and outages.

24
25 Q. Why is the recognition of coal burn variability

1 important for Tampa Electric in its planning process?

2

3 **A.** The importance relates to reliability. The amount of
4 burn variability in the overall inventory planning
5 process depends on how quickly and how completely the
6 company's means of coal delivery can respond to
7 unexpected fuel requirements at the plants. As I
8 previously stated, the company's power plants are
9 located approximately 1,000 miles away from their coal
10 supply sources; therefore, the company's coal inventory
11 planning process must ensure that higher than expected
12 fuel consumption can be accommodated.

13

14 **Q.** What is meant by other risk factors affecting coal
15 inventory planning?

16

17 **A.** Other risk factors are those unidentified low
18 probability but high consequence events that prudent
19 fuel inventory management must take into consideration
20 because they could significantly affect fuel levels.
21 These events can result in major disruptions to coal
22 supplies by affecting suppliers, the transportation
23 system and even fuel requirements.

24

25 **Q.** What are some examples of these other risk factors?

1 **A.** These other risk factors include events of severe
2 weather such as hurricanes, transportation route shut
3 downs or legislative and regulatory changes affecting
4 fuel use.

5
6 Given the risks associated with hurricane activity and
7 the problems one Gulf hurricane can cause, maintaining a
8 98 day coal inventory level is very reasonable. For
9 example, due to Hurricanes Katrina and Rita in 2005 coal
10 inventory levels were depleted to less than 20 days at
11 Big Bend Power Station in the months following the
12 hurricanes because of the extended interruption of
13 transportation. These same events caused a shutdown of
14 gas supply due to the evacuation of and damage to gas
15 production platforms in the Gulf of Mexico. As a
16 result, limited gas supply due to infrastructure and
17 transportation facility damage can create a higher
18 demand for coal.

19
20 Catastrophic events like damage to the Sunshine Skyway
21 Bridge in the 1980's blocked the channel and prevented
22 coal deliveries for an extended period. Vessels can and
23 have sunk in the Port of Tampa channels, blocking
24 deliveries.

25

1 In addition, the events of September 11, 2001
2 complicated and delayed the transportation of coal due
3 to heightened security in ports.

4
5 There is an additional risk that multiple supply
6 disruption events can occur in rapid succession and
7 compound the effects of these individual risks. The
8 prospect of running out of fuel is not an option;
9 therefore, it is essential to have an adequate cushion
10 to avoid such an event.

11
12 **Q.** Please summarize Tampa Electric's proposed 2009 coal
13 inventory.

14
15 **A.** The overall anticipated quantities of coal in inventory
16 by station for 2009 are reflected in Document No. 2 of
17 my exhibit. This chart includes coal stored on-site at
18 the power plants, stored off-site and in-transit. The
19 inventory levels are consistent with the targets in the
20 company's inventory planning process, which reflects the
21 company's projected needs.

22
23 **Q.** What is the proposed average coal inventory level for
24 2009?

25

1 **A.** The proposed 13-month average coal inventory value for
2 2009 is \$83,819,000 and is equivalent to 94 days burn
3 under normal circumstances at an approximate 13,000
4 daily tonnage burn rate. This tonnage does not include
5 any test burn supply because the company will be
6 continuing its installation of the final selective
7 catalytic reduction equipment at Big Bend Power Station
8 and will not perform test burns until the installation
9 is complete. This proposed level is slightly less than
10 but consistent with the 98 days coal burn total (95 day
11 supply under normal circumstances plus three days supply
12 for test burn) established in the company's last full
13 rate case. A 94 day coal inventory is conservative
14 because of the circumstances and risks I have described.
15 A 94 day coal inventory is the absolute minimum given
16 that a 98 day coal inventory target is appropriate.

17
18 **Q.** How does the proposed coal inventory level compare to
19 Tampa Electric's historical coal inventory levels?

20
21 **A.** It compares favorably with the company's actual coal
22 inventory levels over the past five years. Tampa
23 Electric's actual coal inventories have averaged 1.21
24 million tons. Extraordinary events such as the 2004 and
25 2005 hurricanes and significant river lock outages in

1 2006 brought the overall inventory levels down by
2 several days on average. In the past two years,
3 inventory of coal for Tampa Electric represented an
4 average of 97 days. Document No. 3 of my exhibit
5 details the historic coal inventory levels for 2003
6 through 2007.

7
8 **Q.** Aside from the Commission Order issued in the company's
9 last base rate proceeding, how does the proposed coal
10 inventory level compare to other Commission precedent?

11
12 **A.** Order No. 12645, issued in Docket No. 830001-EU,
13 addresses Fuel Inventory Policies. In this Order, staff
14 proposed a "generic" fuel inventory policy to be applied
15 in a rate case if a utility fails to fully justify its
16 inventory level. The proposed generic fuel inventory
17 policy for coal was 90 days projected burn plus base
18 coal volumes. Tampa Electric has fully justified its
19 request for 98 days of coal inventory and the level
20 requested is slightly higher than but consistent with
21 the 90 day fuel inventory policy.

22
23 **NATURAL GAS INVENTORY**

24 **Q.** Please describe the company's experience in maintaining
25 natural gas inventory.

1 **A.** Tampa Electric's oldest natural gas fired unit, Polk
2 Unit 2, is a combustion turbine that became operational
3 in 1998. Since that time, Tampa Electric has added
4 three more combustion turbines and re-powered Gannon
5 Station as natural gas combined cycle Bayside Units 1
6 and 2. Bayside Units 1 and 2 became operational in 2003
7 and 2004, respectively. Tampa Electric has continually
8 enhanced its natural gas supply portfolio since 1998
9 including adding underground natural gas storage
10 capacity beginning in 2005.

11
12 **Q.** What is Tampa Electric's inventory planning process for
13 natural gas?

14
15 **A.** The company's supply plan for natural gas is to maintain
16 a portfolio of natural gas supply arrangements that have
17 various delivery points, volume flexibility and term
18 lengths. These natural gas supply arrangements are
19 conducted through industry standard contracts with
20 creditworthy parties. This process allows for
21 reliability of supply, operational flexibility and lower
22 overall cost.

23
24 Besides having secure supply arrangements, underground
25 natural gas storage is a valuable component of

1 maintaining reliable service for customers. Natural gas
2 storage is used primarily to address unexpected swings
3 in gas supply needs due to forced outages of units and
4 weather changes, and to "smooth" gas supplies over
5 weekends and holidays when consumption levels may change
6 dramatically. Tampa Electric also maintains nearly full
7 contracted storage levels during times of greatest
8 uncertainty. For instance, Tampa Electric fills storage
9 before the start of each hurricane season since supply
10 availability may be at risk during the same period that
11 gas consumption is at its maximum. Similarly, Tampa
12 Electric keeps natural gas storage nearly full during
13 major plant outages and extreme cold periods since gas
14 consumption has the greatest uncertainty during those
15 periods.

16
17 **Q.** What natural gas storage does Tampa Electric have?

18
19 **A.** Tampa Electric currently has a contract with Bay Gas
20 Storage for up to 850,000 MMBTU of storage capacity and
21 expects to increase its total storage to 1,250,000 MMBTU
22 with the completion of Bay Gas Storage Cavern in the
23 summer of 2009. The 1,250,000 MMBTU of storage capacity
24 provides Tampa Electric with approximately six summer
25 days of gas supply. The volume of natural gas in

1 storage in 2009 is projected to average about 545,000
2 MMBTU of gas in storage with a 13-month average value of
3 \$4,495,000.
4

5 **OIL INVENTORY**

6 **Q.** What is the company's oil inventory planning process?
7

8 **A.** Although less than one percent of the company's
9 generation comes from its oil-fired units, this
10 generation is critical for peak demand periods.
11 Therefore, the company is concerned with maintaining
12 proper levels of oil inventory. The minimum desired
13 level for both light and heavy oil at each plant is an
14 adequate supply determined to be necessary to maintain
15 the reliability of the company's generation system
16 during maximum demand conditions.
17

18 **Q.** Do the criteria for oil inventory levels differ from
19 those applicable to coal inventory?
20

21 **A.** Yes. While the normal generation dispatch procedure
22 provides for priority generation by coal, the oil-fired
23 generating units must have adequate supplies of oil, not
24 only for expected use, but also to allow for their
25 continued use in the event of unscheduled outages of

1 major coal-fired units, limitations of natural gas
2 supply, and/or higher than expected loads. This
3 contingency consideration dictates that greater
4 quantities of oil be maintained in inventory than
5 normally would be maintained on a purely projected burn
6 basis. The No. 2 oil is also necessary for boiler
7 ignition of the coal-fired units.

8
9 **Q.** What is the goal of Tampa Electric's inventory planning
10 process for heavy oil?

11
12 **A.** The company's heavy oil inventory planning process is to
13 maintain, at a minimum, the level of oil necessary to
14 provide peaking reliability in its generating system.
15 The company projects to average 9,203 barrels of heavy
16 oil in inventory in 2009, with an average value of
17 \$780,000.

18
19 **Q.** What is Tampa Electric's inventory plan for light oil?

20
21 **A.** The company's light oil inventory plan is to maintain,
22 at a minimum, the level of oil necessary to provide
23 peaking reliability in its generating system. The
24 company has included 77,068 barrels of light oil in
25 inventory for 2009, which equates to a 13-month average

1 of \$9,312,000.

2
3 **TOTAL FUEL INVENTORY**

4 **Q.** What is the total amount of fuel inventory that Tampa
5 Electric proposes to be included in working capital for
6 2009?

7
8 **A.** The 2009 13-month average total fuel inventory included
9 in working capital is \$98,406,000 as shown on Document
10 No. 4 of my exhibit.

11
12 **Q.** Please summarize your direct testimony.

13
14 **A.** Tampa Electric generates energy for customer use from a
15 diversified portfolio of coal, oil and natural gas fired
16 units. The company utilizes a dynamic fuel inventory
17 plan that takes into account fuel supply and
18 transportation uncertainty, fuel burn variability, and
19 other risk factors, to provide a consistent level of
20 system protection and reliability. Inventory levels
21 take into account the types of fuel maintained and
22 burned to meet plant requirements at the lowest possible
23 cost to customers.

24
25 Tampa Electric's 2009 total proposed fuel inventory of

1 \$98,406,000 is an appropriate value for the fuel
2 inventory component of working capital. This level of
3 inventory provides for continued reliable service at a
4 cost that is less than the consequences of not having
5 enough fuel to meet the customer needs. Finally, this
6 inventory level is consistent with the company's
7 inventory planning process and actual historic inventory
8 levels.

9
10 **Q.** Does this conclude your direct testimony?

11
12 **A.** Yes, it does.
13
14
15
16
17
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23
24
25

1 BY MR. BEASLEY:

2 Q. Ms. Wehle, did you prepare the document, the
3 exhibit entitled -- or identified as JTW-1 and marked
4 Hearing Exhibit Number 23 that accompanies your prepared
5 direct testimony?

6 A. Yes, I did.

7 Q. Do you have any corrections or changes to make
8 to that exhibit?

9 A. No, I do not.

10 Q. Did you also prepare and submit in this
11 proceeding a nine-page document entitled "Rebuttal
12 Testimony of Joann T. Wehle"?

13 A. Yes, I did.

14 Q. Do you have any corrections to make to that
15 testimony?

16 A. No, I do not.

17 Q. If I were to ask you the questions contained
18 in that testimony, would your answers be the same?

19 A. Yes, they would.

20 MR. BEASLEY: I would ask that Ms. Wehle's
21 rebuttal testimony be inserted into the record as though
22 read.

23 CHAIRMAN CARTER: The prefiled rebuttal
24 testimony of the witness will be entered into the record
25 as though read.

TAMPA ELECTRIC COMPANY
DOCKET NO. 080317-EI
FILED: 12/17/08

1 **BEFORE THE PUBLIC SERVICE COMMISSION**

2 **REBUTTAL TESTIMONY**

3 **OF**

4 **JOANN T. WEHLE**

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

8
9 **A.** My name is Joann T. Wehle. My business address is 702
10 North Franklin Street, Tampa, Florida 33602. I am
11 employed by Tampa Electric Company ("Tampa Electric" or
12 "company") as Director, Wholesale Marketing & Fuels.

13
14 **Q.** Are you the same Joann T. Wehle who filed direct
15 testimony in this proceeding?

16
17 **A.** Yes, I am.

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

20
21 **A.** The purpose of my rebuttal testimony is to address
22 serious errors and shortcomings in the prepared direct
23 testimony of witness Hugh Larkin, Jr. testifying on
24 behalf of the Citizens of the State of Florida related to
25 the appropriateness of rail facilities at Big Bend

1 Station and fuel inventory valuation.

2

3 **Q.** Have you prepared an exhibit supporting your rebuttal
4 testimony?

5

6 **A.** Yes, I have. My Rebuttal Exhibit No. __ (JTW-2) was
7 prepared under my direction and supervision. It
8 consists of the following two documents:

9 Document No. 1 Excerpt from Order PSC-04-0999-FOF-
10 EI in Docket No. 031033-EI

11 Document No. 2 Hill & Associates, Inc. Rail
12 Feasibility Study - Executive
13 Summary

14

15 **Q.** Please summarize the key concerns and disagreements you
16 have regarding the substance of Mr. Larkin's testimony.

17

18 **A.** My key concerns and disagreements are that:

19 • Mr. Larkin makes several false assumptions about the
20 company's planned rail facilities at Big Bend Station
21 which result in an unwarranted adjustment to Tampa
22 Electric's revenue requirement.

23

24 • Mr. Larkin arbitrarily reduces the fuel stock value
25 component of the company's working capital request to

1 reflect perceived fuel price reductions. Mr. Larkin
2 based his unwarranted adjustment on the assumption
3 that the values Tampa Electric uses are inflated when
4 they are not.

5
6 **RAIL FACILITIES**

7 **Q.** In reference to the rail facilities at Big Bend Station,
8 Mr. Larkin denotes that a solicitation for coal and solid
9 fuel transportation was conducted. Can you please
10 elaborate on the requirements of this solicitation?

11
12 **A.** Yes. As part of Order PSC-04-0999-FOF-EI issued on
13 October 12, 2004 in Docket No. 031033-EI ("the Order"),
14 the Florida Public Service Commission ("Commission"),
15 among other things, outlined requirements for the
16 company's next competitive bidding process in connection
17 with solid fuel transportation. This competitive bidding
18 process occurred in 2007 and 2008. The pertinent portion
19 of the Order is included as Document No. 1 of my rebuttal
20 exhibit.

21
22 Another requirement of the Order was that Tampa Electric
23 was to conduct a study on the feasibility for bimodal
24 transportation. The company hired Hill & Associates to
25 conduct the study in 2005 and the executive summary of

1 the study is included as Document No. 2 of my rebuttal
2 exhibit. The complete study was made available to Office
3 of Public Counsel, Staff and all other parties in 2005.
4

5 **Q.** Did Tampa Electric comply with all of the requirements of
6 the Order and what were the results of this competitive
7 bidding process?
8

9 **A.** Yes. The Commission recently made its determination in
10 Docket 080001-EI ("Fuel Docket") that the company had
11 conducted a competitive solicitation process as required
12 by the Order. As a result of the process, the company
13 awarded solid fuel transportation contracts to three
14 bidders: United Maritime Group, AEP Memco, and CSX
15 Transportation ("CSX").
16

17 **Q.** Please provide more information about the rail
18 feasibility study that was required by the Order.
19

20 **A.** A rail feasibility study was conducted by Hill &
21 Associates in 2005, and Tampa Electric filed it with the
22 commission. The study was a comprehensive review of all
23 possible coal sources that meet the company's quality
24 specifications and the associated costs of delivering
25 those coals by rail or by water to Tampa Electric's

1 generating stations. The conclusion of the study was
2 that there are certain coals that are more cost effective
3 when delivered via rail. The company's recent
4 competitive bid solicitation supported these same
5 conclusions.

6
7 **Q.** What benefits did the company determine exist from a rail
8 provider?

9
10 **A.** Tampa Electric determined that bimodal solid fuel
11 transportation to Big Bend Station affords the company
12 and its customers 1) access to more potential coal
13 suppliers providing a more competitive, overall delivered
14 cost, 2) the flexibility to switch to either water or
15 rail in the event of a transportation breakdown or
16 interruption on the other mode, and 3) competition for
17 solid fuel transportation contracts for future periods.

18
19 **Q.** Did the Commission agree that there are company and
20 customer benefits by contracting with CSX?

21
22 **A.** Yes, it did. In the Fuel Docket, the Commission
23 determined that the company had performed a competitive
24 procurement process with a beneficial outcome for its
25 customers.

REDACTED

1 Q. In order to begin taking delivery of solid fuels at Big
2 Bend Station, what infrastructure is required?

3
4 A. As described in the direct testimony of Tampa Electric
5 witness Mark Hornick, the company is required to
6 construct rail facilities. The facilities must be built
7 and tested in 2009 to begin taking delivery by January 1,
8 2010. These facilities will benefit customers for, at a
9 minimum, the five-year term of the contract.

10
11 Q. Mr. Larkin states in his testimony on page 21 that the
12 rail carrier stands to benefit from the movement of
13 additional coal and it would be appropriate for it to
14 absorb some of the needed facility costs, which is common
15 practice. Please comment on this statement.

16
17 A. I understand that railroads have absorbed costs or
18 contributed financially to the construction of rail
19 facilities but I am not aware of how often this
20 arrangement has occurred with railroads. In Tampa
21 Electric's contract with CSX, there is a provision for a
22 per ton refund in consideration for the construction of
23 the rail facilities [REDACTED]. Tampa
24 Electric proposes that it use the refund to first offset
25 the capital costs associated with the facilities that are

1 in excess of those granted in base rates with any
2 remainder being credited to customers through the fuel and
3 purchase power cost recovery clause.

4
5 **FUEL INVENTORY VALUATION**

6 **Q.** What adjustment to the company's fuel inventory value
7 does Mr. Larkin recommend in his direct testimony and
8 why?

9
10 **A.** On page 35 of his testimony, Mr. Larkin reduces the fuel
11 stock value 10 percent or \$9.493 million. His reasoning
12 is that the 10 percent reduction reflects current
13 reductions "which might have occurred in coal, oil and
14 gas prices" (emphasis added).

15
16 **Q.** Is this adjustment appropriate?

17
18 **A.** No it is not. His proposed adjustment is based on a
19 baseless and arbitrary assumption and he admits it. Mr.
20 Larkin states on page 35, lines 21 through 23 that "The
21 adjustment I have made does not accurately reflect an
22 estimate of the decline in fuel prices because I do not
23 have all necessary information available to me." Clearly
24 he is not in a position to make such an adjustment.

25

1 Q. Are the values for fuel inventory represented in your
2 direct testimony still appropriate?

3
4 A. Yes, they are. The company utilized fuel pricing from
5 the spring of 2008, which is still representative of
6 projected fuel prices.

7
8 Q. How do the fuel prices included in your direct testimony
9 compare to the company's 2009 fuel filings approved in
10 the Fuel Docket?

11
12 A. The estimated 2009 fuel prices I use in this proceeding
13 are actually lower for coal inventory than the updated
14 projections approved in the Fuel Docket. Coal represents
15 approximately 85 percent of the total value of fuel
16 inventory as shown in Document No. 4 of Exhibit No. ___
17 (JTW-1) of my direct testimony. The values of the other
18 commodities, natural gas, and fuel oil, which represent
19 the remaining 15 percent of fuel inventory, are in line
20 with the fuel pricing approved in the Fuel Docket. Using
21 Mr. Larkin's methodology of "re-pricing fuel stock
22 inventory to accurately reflect the current price of
23 fuel", one could easily justify an increase, not a
24 decrease, in the overall value of fuel stock. Therefore,
25 the fuel prices used in the company's inventory valuation

1 are conservative and appropriate for this proceeding.

2

3 **SUMMARY OF REBUTTAL TESTIMONY**

4 **Q.** Please summarize your rebuttal testimony.

5

6 **A.** Tampa Electric conducted both a comprehensive feasibility
7 study on bimodal transportation and a solid fuel
8 competitive bidding process for the delivery of coal in
9 accordance with the Order. The bid process and the
10 resulting transportation contracts supported the
11 feasibility study's conclusions that adding coal
12 delivered by rail to the company's portfolio will enhance
13 the company's solid fuel transportation network for the
14 benefit of customers. Therefore, the facilities are the
15 result of Commission direction and constructing the Big
16 Bend Station rail facilities is appropriate and
17 necessary. In addition, the company's fuel inventory is
18 valued appropriately.

19

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

21

22 **A.** Yes, it does.

23

24

25

1 BY MR. BEASLEY:

2 Q. Ms. Wehle, did you prepare the exhibit that
3 accompanies your rebuttal testimony that has been
4 identified as Exhibit JTW-2 and marked for
5 identification as Hearing Exhibit Number 83?

6 A. Yes, I did.

7 Q. Would you please summarize for us your direct
8 and rebuttal testimonies?

9 A. Thank you. Good afternoon, Commissioners. My
10 direct testimony describes Tampa Electric's fuel
11 inventory planning process, including the factors that
12 influence the reliable supply and delivery of solid
13 fuel, which is comprised of coal and petroleum coke and
14 oil and natural gas.

15 Based on these factors, I recommend the
16 Commission include the value of 98 days' burn of solid
17 fuel, together with the value of smaller inventories of
18 other fuel types in working capital.

19 The company maintains its fuel inventory in
20 order to minimize the risk of service interruptions due
21 to fuel supply depletion or fuel delivery interruptions.
22 Tampa Electric's fuel inventory planning process relies
23 on a variety of inputs, projected burns, forecasted
24 purchase arrangements, and delivery lead times,
25 especially for coal, since the source of that fuel is

1 approximately 1,000 miles away from our power stations.

2 Our plan reflects the factors that might drive
3 inventory to unreasonably low levels, such as changes in
4 maintenance schedules, excess burn at the power plants,
5 adverse weather conditions like floods and hurricanes,
6 water route blockages, transportation provider equipment
7 breakdowns, and unexpected force majeure events like
8 mining disruptions and transportation congestion.

9 The company believes that investing in a
10 sufficient level of fuel inventory is much less costly
11 overall than the alternatives, and those are making
12 emergency purchases of fuel at premium prices, buying
13 replacement power that is more expensive, or worst of
14 all, interrupting our customers' electrical service.

15 The company has over 50 years of experience in
16 fuels management, and we recognize the need for
17 appropriate inventory levels to maintain reliable
18 electric service to our customers. Based on this
19 experience, Tampa Electric seeks a coal inventory target
20 level of 98 days of projected burn. This is consistent
21 with the 98 days' projected burn in the company's last
22 rate case. While the numbers of days of burn is the
23 same, the overall tonnage of coal is approximately
24 one-third less due to the repowering of the Gannon Power
25 Station from coal to natural gas and renaming it the

1 Bayside Power Station.

2 The company also requests the inclusion of the
3 value of its natural gas, light oil, and heavy oil in
4 storage in the company's inventory calculation. Each of
5 these fuel types is burned in our power plants to
6 provide base load, intermediate, and peaking reliability
7 to the company's generating assets. Overall, the
8 company generates energy for its customers from a
9 diversified portfolio of coal, natural gas, and
10 oil-fired units. The company's 2009 total proposed fuel
11 inventory levels are necessary for it to be able to
12 continue providing reliable service to our customers.

13 My rebuttal testimony addresses serious
14 shortcomings in the direct testimony of OPC's witness
15 Hugh Larkin, Jr. Specifically, my rebuttal testimony
16 addresses the comprehensive rail feasibility and
17 transportation request for proposal processes which were
18 completed by the company consistent with the
19 requirements set out in Commission Order Number
20 PSC-04-0999-FOF-EI. The results of these two processes
21 support the company's decision to construct the rail
22 facilities at Big Bend Station.

23 Lastly, my rebuttal testimony addresses
24 Mr. Larkin's arbitrary and unnecessary reduction in fuel
25 prices. The pricing utilized in the fuel inventory

1 evaluation of this proceeding is conservative and
2 appropriate.

3 This concludes the summary of my direct and
4 rebuttal testimonies.

5 MR. BEASLEY: We would submit Ms. Wehle for
6 cross-examination.

7 COMMISSIONER EDGAR: Thank you. Are there
8 questions from OPC for this witness?

9 MR. REHWINKEL: Yes, Madam Chairman.

10 CROSS-EXAMINATION

11 BY MR. REHWINKEL:

12 Q. Good afternoon, Ms. Wehle. My name is Charles
13 Rehwinkel on behalf of the Public Counsel's Office.

14 A. Good afternoon.

15 Q. You've stated that you testify in rebuttal to
16 Mr. Larkin about the need for and the proposed treatment
17 of the Big Bend rail facility; is that correct?

18 A. That is correct.

19 Q. Ms. Wehle, you are a certified public
20 accountant, a CPA?

21 A. Yes, I am.

22 Q. And for a while, you've testified you were the
23 director of audit services for Tampa Electric?

24 A. That is correct.

25 Q. And in that role, did you oversee audits that

1 reviewed plant in service balances, among other things?

2 A. No, I did not.

3 Q. You did not. Ms. Wehle, you were involved,
4 were you not, in the be negotiation of the fuel
5 transportation contract with CSX; is that right?

6 A. Yes, I was.

7 Q. And in fact, you signed the contract as a
8 witness on October 1, 2008?

9 A. That is correct.

10 Q. And in fact, in the contract, you are
11 designated as the person within Tampa Electric Company
12 to receive notices for the company, at least your job
13 title is; is that correct?

14 A. That's correct. As part of my position, the
15 director of wholesale marketing and fuels would receive
16 notices in relation to the contract itself.

17 Q. Okay. Isn't it true that this contract calls
18 for the reimbursement of Tampa Electric for its
19 construction costs for the rail facility at Big Bend
20 Station, at least a significant amount of them?

21 A. That is true, yes.

22 Q. And that would be over the term of the
23 contract; is that right?

24 A. The intervals within the contract actually
25 specify that it could be reimbursed over the life of the

1 contract, or it could be at varying intervals within the
2 contract term.

3 Q. Thank you. Now, Tampa Electric originally
4 projected the cost to construct this rail facility was
5 about \$46 million, and that amount was included as a
6 pro forma adjustment to the minimum filing requirements
7 in this case; is that right?

8 A. Yes, that is true.

9 Q. Now, is it also true that the proposed cost of
10 this facility has increased to around \$64 million or so?
11 Is that right?

12 A. That is my understanding, yes.

13 Q. Is it also true that Tampa Electric is
14 expending these capital costs in order to positively
15 impact your fuel supply as to reliability, diversity,
16 and price?

17 A. We are expending these capital costs in order
18 to build the facility in order to receive benefits on
19 the fuel equation, that is correct.

20 MR. REHWINKEL: Thank you. Madam Chairman, at
21 this time, I would like to pass out a confidential
22 exhibit. Actually, I want to pass out a folder, red
23 folders with confidential documents in them. While
24 they're being passed out, I would like to explain what
25 documents are in them. There are three separate

1 documents. Two of them are excerpts from documents that
2 are already included in the record, and I've included
3 these excerpts just for the convenience, rather than
4 wade through the stack of documents that are in there.

5 The first document is a confidential page 6
6 from Ms. Wehle's rebuttal testimony, and that has
7 already been moved into the record. And there's also
8 the fuel contract excerpts from the entire contract,
9 which is in the record as a late-filed exhibit to
10 Ms. Wehle's deposition. The third document is for
11 cross-examination purposes, and it is a one-page letter
12 dated December 17, 2007, from CSX to Tampa Electric
13 Company.

14 I don't intend to offer any but possibly the
15 last document into evidence. These are merely for
16 cross-examination purposes at this time.

17 CHAIRMAN CARTER: Okay. So let's just do
18 this, just out of a abundance of caution. For the last
19 one, which is the entitled "Cross-Examination Exhibit,"
20 why don't we just plug a number in there, and if you
21 decide at the end that you don't want to enter it, that
22 will still be fine. Do you want to do that? Will that
23 be better?

24 MR. REHWINKEL: Yes. Thank you, Mr. Chairman.

25 CHAIRMAN CARTER: Commissioners, that will be

1 Exhibit Number 107.

2 MS. HELTON: Mr. Chairman?

3 CHAIRMAN CARTER: Yes, ma'am. One second.

4 MS. HELTON: I just wanted to ask
5 Mr. Rehwinkel a clarifying question. Is all the
6 information in these document confidential, or is there
7 only certain parts of it? I'm just trying to figure out
8 what we should avoid talking about.

9 MR. REHWINKEL: I have discussed -- that's a
10 good point. I have discussed these documents with
11 counsel for Tampa Electric Company, and I intend -- each
12 document, each of the three documents or excerpts from
13 the documents contains information that is considered by
14 the company to be confidential and/or is the subject of
15 a pending confidentiality request and is thus covered.
16 I intend to pursue cross-examination and only refer to
17 confidential numbers that the company has indicated to
18 me are confidential by reference rather than by
19 expression on the record. Does that answer --

20 CHAIRMAN CARTER: Ms. Helton.

21 MS. HELTON: I think so. I guess I'm used to
22 seeing certain information highlighted in yellow, and we
23 know for sure that's the information that everyone has
24 identified as being confidential, and I don't see any of
25 that here. So I'm just working under the assumption

1 that everything here is confidential, and we should act
2 accordingly.

3 MR. REHWINKEL: I am proceeding on that basis
4 and hope to -- that's why I'm not sure that I'm going to
5 offer anything into evidence. And anything that's
6 already in the record has already been so designated as
7 confidential under the Commission's rules and orders.

8 CHAIRMAN CARTER: So if you want, I can just
9 delete that space, 107, and we can use it for something
10 else. All right? Since you're just using this
11 primarily for cross-examination purposes anyway.

12 MR. REHWINKEL: That's correct. And it's
13 really to -- you have these giant stacks behind you
14 where the information is buried, and I'm trying to make
15 it a little easier.

16 CHAIRMAN CARTER: Okay. Thank you. It's very
17 much appreciated, by the way.

18 What we'll do, Commissioners, we'll just leave
19 -- 107 will be blank, so we won't have a 107, because
20 what Mr. Rehwinkel is doing primarily is just using this
21 last portion just for cross-examination purposes.

22 You're recognized, sir.

23 MR. REHWINKEL: Thank you.

24 BY MR. REHWINKEL:

25 Q. Ms. Wehle, after all that, are you familiar

1 with the documents that are contained in the red folder
2 that you've been handed?

3 A. Yes, I am.

4 Q. Okay. Is it -- and I would ask you to refer
5 to the document that is the CSX letter. It's dated
6 December 17, 2007, from Michael C. Bullock to Karen
7 Bramley.

8 A. Yes.

9 Q. Does Karen Bramley work in your chain of
10 command?

11 A. Yes, she does.

12 Q. She reports to you?

13 A. Yes.

14 Q. Okay. And I think I've cleared this with
15 counsel for Tampa Electric Company, but I would ask you,
16 unless there's an objection from counsel, for you to
17 read the third full paragraph in that letter.

18 CHAIRMAN CARTER: Is there any objection? Are
19 you guys familiar with this -- he's talking about the
20 last letter, the letter that says cross-examination, the
21 two-pager, and attached to that is a letter from --

22 MR. BEASLEY: That's correct, sir. We're okay
23 with her reading it.

24 CHAIRMAN CARTER: Okay. You may proceed.

25 A. Okay. "CSXT is also committed to reimbursing

1 TEC for the capital outlay required to serve the Big
2 Bend Plant. This rail direct option will provide TEC
3 with increased reliability in the event of unpredictable
4 disruptions to the water delivery system."

5 Q. Thank you. And for clarification, TEC refers
6 to Tampa Electric Company?

7 A. That is correct.

8 Q. And CSXT is CSX Transportation, the railroad
9 company?

10 A. That is correct.

11 Q. Thank you. Is it fair to characterize the
12 commitment that is represented in the paragraph you just
13 read as an agreement by the railroad to make
14 contributions in the form of transportation cost rebates
15 as a way of substantially funding or offsetting the
16 capital costs of the rail facility at Big Bend?

17 A. No, it is not fair to characterize it that
18 way. The reimbursement amount is specifically for
19 capital costs associated with the construction of the
20 facility, and it is not a rebate.

21 Q. Okay. Thank you. Ms. Wehle, would you agree
22 that CSX -- or is it your perception that CSX agreed to
23 make this contribution or funding because they also
24 benefit from a contract that has a minimum level of
25 transportation services purchased in it?

1 A. I would agree that the capital contribution --
2 in order for us to do any business with CSX, they
3 recognize the need for us to have an unloading facility
4 at our station, so therefore, that's what the capital
5 contributions are for, building that unloading facility
6 and doing business with them in the future.

7 Q. Thank you. Now, CSX has not agreed to cover
8 the entire \$64 million cost of the facility; is that
9 correct?

10 A. That number is confidential, sir.

11 Q. Are you saying -- the \$64 million is not
12 confidential; correct?

13 A. That is correct.

14 Q. Okay. And is it confidential as to whether
15 they've agreed to cover the entire cost of that?

16 A. That is correct, it is confidential.

17 Q. Okay. Can you please refer to the
18 confidential version of your testimony on page 6, line
19 23?

20 A. Yes.

21 Q. And that document is also contained in the red
22 folder. Therein, the confidential information is the
23 amount that CSX is willing to contribute to cover the
24 cost of that facility over the term of the contract; is
25 that correct?

1 A. That is correct.

2 Q. Okay. In order to receive the maximum amount
3 of funding that CSX is willing under the contract to
4 make, is Tampa Electric Company required to configure
5 the rail facility in a certain way?

6 A. Yes, that is true. Part of the initial design
7 was -- when we had started talking about this, there was
8 a certain amount that was going to be contributed for a
9 single loop design, and the amount was increased when we
10 started talking about a double loop design in order to
11 accommodate traffic at our Big Bend facility for our
12 trains.

13 Q. Okay. Would you agree that there is an
14 increment above the amount that's included in the MFRs,
15 i.e., the \$46 million, that will not be covered by the
16 contribution from CSX over the life of the contract?

17 A. I'm trying to see if I don't reveal
18 confidential information. Can you repeat your question?
19 I'll see if I can answer that.

20 Q. Let's do this. In your rebuttal testimony at
21 page 6 -- and let's just refer to the nonconfidential
22 version of it -- at the bottom of page 6 on lines 23
23 through 25, continuing on to page -- line 3 of page 7.

24 A. Yes.

25 Q. The implication there is that there is an

1 excess.

2 A. There could be an excess.

3 Q. Okay. And if there is such an excess, that it
4 would be treated the way your testimony describes; is
5 that right?

6 A. That's right. And basically what we're saying
7 there is that if there is an excess over and above, the
8 difference between what we have now determined to be the
9 cost associated with the construction of the facilities,
10 the 64 million, versus what we included in our base rate
11 filing, which was the 46, so that delta of about
12 \$20 million, if we received a refund of, for instance,
13 let's say, 25 million, what we are proposing is that the
14 first 20 million would go to the company to offset the
15 additional capital costs over and above what we had
16 included and hopefully we'll receive in base rates from
17 this Commission, and any excess above that, in my
18 example, potentially 5 million, would be credited
19 through the fuel clause directly back to customers as
20 incurred.

21 Q. Okay. I would like to ask you about some
22 provisions in the contract. And within the red folder,
23 there are excerpts from the contract, and I'll just use
24 that document. This document is numbered several
25 different ways. What I would like to do is just refer

1 to the actual contract page numbers that are at the very
2 bottom --

3 A. That would be helpful.

4 Q. -- above the Bates stamp numbers.

5 A. Okay. That would be helpful.

6 Q. Okay. On page 21, which is the second page of
7 this excerpt from the contract, under Article 11, this
8 paragraph describes certain minimum -- this article.
9 Let me rephrase that. This article states certain
10 minimum and maximum tonnages to be purchased under the
11 contract; is that correct?

12 A. That is correct.

13 Q. Now, what's confidential in this article are
14 the actual minimum numbers and maximum numbers of net
15 tons; is that correct?

16 A. Yes, sir.

17 Q. So if one were to calculate the minimum
18 tonnage in the first year, you would take the first
19 number on page 22 of the contract excerpt in the second
20 line there and multiply that by a number on the next
21 page of the exhibit, which is page 25 of the contract.
22 And it is the first number. It's about two-thirds of
23 way down there. It's a dollar amount per ton; is that
24 correct?

25 A. Yes, that is correct.

1 Q. And that number would be the minimum contract
2 purchase by Tampa Electric Company. That would be the
3 -- let me step back. That is the amount of the capital
4 contribution that would be made in the first year if you
5 bought the minimum tonnage, if you multiplied that
6 number times the minimum tonnage number on page 21; is
7 that correct?

8 A. That is correct.

9 Q. If you were to calculate the maximum tonnage
10 number, you would use again the second net ton number on
11 page 22 and multiply that by the first dollar per net
12 ton figure on page 25 of the contract; is that correct?

13 A. Correct, for the first year.

14 Q. For the first contract year.

15 A. That is correct.

16 Q. And in the contract, I don't have it in this
17 exhibit, but would you agree, subject to check, that in
18 the contract, the first contract year is on a calendar
19 year basis?

20 A. Yes, it is.

21 Q. Okay. Now, to calculate -- and the term of
22 this contract is for how many years?

23 A. It is for five years.

24 Q. Okay. And for years 2 through 5, to calculate
25 the amount of the capital contribution, if you will,

1 from CSX to Tampa Electric Company, you would use the
2 second dollar figure on page 25, the second per net ton
3 dollar figure; is that correct?

4 A. That is correct.

5 Q. Times whatever tonnage is purchased?

6 A. That is correct.

7 Q. And do the minimum tonnages apply for the
8 second through the fifth year?

9 A. They do.

10 Q. As well as the maximum tonnage?

11 A. Yes.

12 Q. Okay. So on page 25 of the contract, towards
13 the bottom of that page, again, we see the number that
14 is also used in your testimony, the number that is
15 confidential, is that correct, the total -- the maximum
16 amount of capital contribution from CSX?

17 A. Yes.

18 Q. And the way the contract is phrased, it's the
19 lesser of that number or how much you actually spend on
20 the rail facility; is that correct?

21 A. That is correct.

22 Q. Okay. Based on what you know today, does it
23 seem like that there will not be a number less than the
24 maximum that you would expect to receive?

25 A. Again, I think I'm treading on confidential

1 information, and I think it would at least reveal --

2 Q. Okay.

3 A. I think that everyone here can make that
4 determination from the information that we've provided
5 so far.

6 Q. Fair enough. On page 27 of the contract, and
7 again using the excerpt document, Section 13.2 is the
8 procedure under the contract for Tampa Electric Company
9 to receive capital contributions once you've made
10 certain amounts of purchases for services under the
11 contract; is that right?

12 A. That is correct.

13 Q. And you can do that once every six months; is
14 that correct?

15 A. Once every six months in the first year of the
16 contract, and I believe each subsequent contract year
17 thereafter.

18 Q. Okay. So the first year, you can do it twice,
19 and then in years 2 through 5, it's annually?

20 A. Correct.

21 Q. And then after those six annual trigger
22 periods, there's another 75 days or so before you could
23 expect payment; is that right?

24 A. I believe that it's within 45 days of the
25 request is when we would receive payment.

1 Q. But you have to wait 30 days beyond the end of
2 the six- or the twelve-month period to ask, and then
3 it's 45 days beyond that?

4 A. I believe it's after the completion of the
5 contract year, which, in essence, you would -- you know,
6 it's within the realm that it would be days after the
7 end of the contract year.

8 Q. Okay. Now, in Section 14.1 on page 27, the
9 service commencement date of the contract can be
10 postponed if the facility is not completed to the
11 satisfaction of CSX; is that correct?

12 A. This section states that it's substantially
13 completed construction of the facilities, yes, to
14 carrier's reasonable satisfaction. And really, what
15 we're getting at there is, we are partnering with CSX on
16 this. And from the standpoint of making sure that they
17 understand what these facilities are going to be, we
18 brought them in meetings with our construction folks.
19 We want to make sure that they agree with what we're
20 doing and that they're going to be safe and reliable as
21 they bring trains onto our property. And that's really
22 the reason why we have that reasonable satisfaction
23 criteria in the contract.

24 Q. If for some reason you delayed the completion
25 of the rail facility, the contract, the commencement

1 date of the contract would be postponed for the same
2 amount of time, would it not, and you would start the
3 five-year period of the contract once the facility was
4 complete; is that correct?

5 A. That is correct. And the reason why we added
6 that into this contract is because we knew it was a good
7 deal for our ratepayers, and we didn't want a delay to
8 hamper our efforts with CSX, and have this contract work
9 to the benefit of our ratepayers. And the delays that
10 we would only anticipate would be anything that would be
11 beyond our reasonable control, such as any kind of
12 permit delays or the like.

13 Q. Or hurricanes or bad weather?

14 A. Well, certainly.

15 Q. And you have actually until September of 2011
16 to finish that facility and still maintain the benefit
17 of the other provisions of the contract, including the
18 five-year term and the capital contribution; is that
19 correct?

20 A. That is correct. However, again, the reason
21 why we added that in here was for reasons beyond our
22 control. We don't anticipate that there would be delays
23 for the construction of the facilities. This contract
24 was negotiated before we even got started really with
25 the permitting process, so it was sort of built in there

1 to make sure that we can continue doing business with
2 CSX.

3 Q. When would you anticipate ordering the first
4 trainload of coal to be delivered at this facility?

5 A. We anticipate that we would like to take two
6 test shipments in the month of December of 2009.

7 Q. Okay. But you haven't ordered coal for those
8 shipments?

9 A. Well, actually, we have coal under contract
10 that is currently going through our waterborne
11 transportation system, but it can easily be converted
12 over to our rail system, and that particular contract
13 would be the one that would convert over to complete
14 rail once the facility is up and running.

15 Q. But the company is not obligated at this point
16 in time to take delivery via train?

17 A. Actually, they take the trains to the river,
18 so instead of taking a train to the river, they would
19 take the train directly to our plant facility.

20 Q. But you're not obligated to take coal via
21 train to this facility at this point?

22 A. No, we are not, but it is at our election.

23 Q. Right. You stated in your rebuttal testimony
24 that the contributions that CSX has committed to make to
25 offset the construction costs of this facility would be

1 applied first to the amount that the shareholders would
2 bear over and above what's included in the -- the
3 46 million that's included in this case; is that right?

4 A. It would be the amount above those granted in
5 base rates; that is correct.

6 Q. Okay. And then the remainder of whatever --
7 well, let me ask you this. How long would it take for
8 you to accumulate enough contribution from CSX to offset
9 that amount?

10 A. It could possibly take us one year.

11 Q. Could it take as long as two years?

12 A. It certainly could.

13 Q. Isn't it true that in the Capital -- what's it
14 called? In the Capital Leadership Team document that it
15 was estimated it could take as long as two years?

16 A. Again, it's all based on rail deliveries on a
17 per ton basis, so it certainly could.

18 Q. Okay. And then after that, is it possible
19 that it could take into the year 2012 before the amount
20 above what the shareholders would receive as an offset
21 would be used to apply to reduce fuel expense in the
22 fuel docket?

23 A. Again, that would be based on your
24 hypothetical of it taking two years. We don't
25 anticipate that it would take two years, but clearly, if

1 it did take two years, it could roll into that same time
2 period.

3 Q. Okay. So essentially, what Tampa Electric
4 Company is requesting in this case is full rate base
5 recovery of the cost of the facility, while not
6 including for rate setting purposes in this case the
7 substantial capital cost offsets in the form of
8 contributions from CSX; is that correct?

9 A. I don't understand your question.

10 Q. You're proposing in this case that the full
11 \$46 million of revenue requirements be included.

12 A. That is correct.

13 Q. For rate setting purposes. But you're not
14 proposing that in this case for purposes of setting base
15 rates that any of the CSX capital contributions be
16 considered; is that correct?

17 A. That is correct, because our estimate at this
18 point is higher, 64 million. And again, our proposal is
19 that we would use the difference to offset that
20 additional capital cost, and then any excess over and
21 above that would flow back to the customers through the
22 fuel clause.

23 Q. In your role as a CPA and as past director of
24 audit services, are you familiar with the concept of
25 contribution in aid of construction?

1 A. I understand that it exists. I have never
2 really done any work associated with that.

3 Q. Do you know whether a contribution in aid of
4 construction is recorded in the books of account to
5 offset the plant?

6 A. I do not know.

7 Q. Okay. You would agree, though, that the
8 capital contributions from CSX are not discounts related
9 to transportation or other O&M expenses; is that right?

10 A. That is correct.

11 MR. REHWINKEL: Mr. Chairman, if you could
12 give me one second, I think I can wrap this up.

13 CHAIRMAN CARTER: Yes, sir.

14 MR. REHWINKEL: Thank you.

15 (Pause.)

16 MR. REHWINKEL: Mr. Chairman, that is all the
17 cross-examination I have of this witness. At this time,
18 if it would be appropriate, I can collect the red
19 folders so we can --

20 CHAIRMAN CARTER: It would be appropriate.

21 MR. REHWINKEL: Thank you. Thank you,
22 Ms. Wehle.

23 CHAIRMAN CARTER: We'll give you a moment to
24 collect those, and then after that we'll recognize
25 Ms. Bradley.

1 (Pause.)

2 CHAIRMAN CARTER: Ms. Bradley, you're
3 recognized.

4 MS. BRADLEY: No questions.

5 CHAIRMAN CARTER: Thank you. Mr. Moyle,
6 you're recognized.

7 MR. MOYLE: Thank you. I have just a few
8 questions.

9 CROSS-EXAMINATION

10 BY MR. MOYLE:

11 Q. I wanted, if I could, to follow up on just a
12 couple of questions that my colleague, Mr. Rehwinkel,
13 was asking. Typically when you're coming in requesting
14 rates, don't you come in and request rates that will
15 cover your capital expenditures?

16 A. That is correct. At the time that we were
17 putting together -- again, this is my understanding.
18 The \$46 million that we have requested in rates was our
19 initial estimate of the facilities. Since then, to my
20 knowledge, additional refinement of those estimates has
21 been done, and the costs have increased.

22 Q. Okay. From the big picture, a lot of these
23 things we talked about, it could be O&M in Big Bend, and
24 after the rate case, then things can go up or can go
25 down, is that correct, in terms of expenses?

1 A. Certainly they can. I wish you would have
2 asked these questions of Mr. Hornick. He would have a
3 much better understanding of exactly why the costs are
4 where they are. However, I do know that the estimates
5 have been refined and that several contracts have been
6 entered into with different parties for material and
7 labor and so forth, so I think that these are good
8 estimates now.

9 Q. So you made a filing at 46 -- and I'm going to
10 be respectful of the confidential stuff, but you've
11 answered, I think, that 46 is what your filing was, and
12 your estimates now are 64. Is that roughly it?

13 A. That is correct.

14 Q. And I can talk about those numbers; correct?

15 A. Yes, sir.

16 Q. And have you drilled down into that 64 number
17 in great detail?

18 A. Again, I'm really not the appropriate witness
19 for that. Those are construction activities. I do know
20 that there were several changes again to the loop design
21 and things like that that added additional cost to the
22 whole construction of that facility. However, I'm not
23 the person that really could answer those questions.

24 Q. What in your mind is the difference between a
25 rebate and a refund?

1 A. When I think of rebate, I think of rates, and
2 when I think of refund, I think of something -- for
3 example, in this particular instance, a refund is moneys
4 that are to be used for a specific purpose. A rebate to
5 me is just -- it can be used for whatever purpose the
6 recipient would choose.

7 Q. Okay. And in this case, just so I'm clear,
8 you're characterizing it as a refund that would then be
9 provided that would be used to assist in the capital
10 outlay project of constructing the rail facility;
11 correct?

12 A. That's correct.

13 Q. So let's just -- for the purposes of my
14 question, let's just say the contribution amount to be
15 made by CSX is a thousand dollars. Okay?

16 A. Okay.

17 Q. All right. So if CSX is going to kick in a
18 thousand dollars toward the capital expenditure, how
19 would that thousand dollars be treated if you're already
20 getting \$46 million back from the ratepayers? You know,
21 let's assume that the project came in at 46. How would
22 that thousand dollars be treated? You wouldn't double
23 recover it, would it? You wouldn't get it from the
24 ratepayers and then also get it from CSX?

25 A. Well, again, with your hypothetical example,

1 if we were to receive and be granted \$46 million in base
2 rates and the capital costs were 64 million, that
3 thousand dollars would go towards the first thousand
4 dollars above the 46 million that we received, in
5 reimbursement to the company for those additional costs.

6 Q. But just for the purposes of understanding
7 this, let's say that it didn't go over budget. Let's
8 just say that it came in right at budget and you got
9 46 million from the customers. As you understand it,
10 how would that thousand dollars be handled?

11 A. It would go through the -- again, in our
12 proposal, it would through the fuel and purchased power
13 cost recovery clause, so it would still go back to
14 customers. It would go back in the time frame at which
15 the refund is received.

16 Q. So essentially, you're asking that the delta
17 between the 46 million, whatever the ultimate costs end
18 up being, that any moneys that you receive as a result
19 of a refund go to the company before they would go to
20 customers, to the consumers; correct?

21 A. That is correct.

22 Q. Okay. I have one other line of inquiry. Part
23 of this rail facility is to give you additional supply
24 channels, diversify your supply channels, because
25 previously all you had was a waterborne route; correct?

1 A. That is correct.

2 Q. And this rail facility will give you, in a
3 sense, two pathways to bring coal to your generation
4 units?

5 A. That is correct.

6 Q. Now, you said that your last rate case was 17
7 years ago, and you had a 98-day supply of inventory 17
8 years ago; is that correct?

9 A. That was what was granted in our last rate
10 case, was a 98-day supply of coal inventory in our
11 working capital calculations.

12 Q. Okay. Wouldn't it seem now that you have
13 another alternative path to provide coal that you might
14 not need as much inventory on hand, because you have two
15 diverse supply streams as compared to one?

16 A. Actually, no. And I think we covered this in
17 my deposition. At the time when we requested -- in our
18 last rate proceeding, we actually had rail at our other
19 Gannon Power Station, which was coal-fired at the time.
20 Now it's natural gas-fired. That's my point number one.

21 And then secondly, as I pointed out in my
22 deposition, it's not as simple as just switching from
23 waterborne over to rail. There are several complicating
24 factors, such as, you know, if there were an
25 interruption in the water system, everybody would try to

1 be going over to the rail system. It could be very
2 congested.

3 The other thing to keep in mind is, as we have
4 waterborne deliveries, they're delivered in anywhere
5 from 20,000 to 35, 36,000-ton increments at our power
6 station. A rail -- a complete train is only about
7 11,500 tons included, so you have a disconnect there.

8 And so, you know, we have looked at this in
9 the past. We've operated under a 98-day supply planning
10 process, and we feel like it's still prudent in order to
11 do that.

12 Q. Well, was it prudent 17 years ago when you
13 asked for it and it was granted by the Commission, in
14 your view?

15 A. Yes.

16 Q. Okay. And you're asking for the same
17 equivalent today; correct?

18 A. That is correct.

19 Q. But it's also true that your generation, the
20 amount of power that you supply by coal since the last
21 rate case has reduced by approximately one-third;
22 correct?

23 A. That is correct. However, it is our base load
24 unit, so we feel that there is no reason to have less
25 than a 98-day supply. It is a lesser amount of tons,

1 but it's still on a relative basis to our coal-burning
2 facilities.

3 MR. MOYLE: That's all I have.

4 CHAIRMAN CARTER: Thank you, Mr. Moyle.
5 Mr. Wright.

6 MR. WRIGHT: No questions, Mr. Chairman.
7 Thank you.

8 CHAIRMAN CARTER: Thank you, Mr. Wright.
9 Mr. Twomey.

10 MR. TWOMEY: No questions, Mr. Chair.

11 CHAIRMAN CARTER: Thank you. Commissioners,
12 I'll go to the staff unless -- Staff, you're recognized.

13 MR. YOUNG: No questions.

14 CHAIRMAN CARTER: Commissioners, before I go
15 back to redirect. Redirect.

16 MR. BEASLEY: Sir, we have no redirect. I
17 would like to move the admission of Exhibits 23 and 83.

18 CHAIRMAN CARTER: Okay. Let's see here.
19 Exhibit Number -- let me turn my page here. Number 23,
20 any objections? Without objection, show it done. And
21 also Number 83. Let me get to the right page here. Any
22 objections? Without objection, show it done.

23 (Exhibits 23 and 83 were admitted into the
24 record.)

25 CHAIRMAN CARTER: This witness may be excused.

1 Call your next witness.

2 MR. HART: Tampa Electric Company calls Regan
3 B. Haines.

4 CHAIRMAN CARTER: Turn your mike on there.

5 MR. HART: Yes. Tampa Electric Company calls
6 Regan B. Haines.

7 CHAIRMAN CARTER: One more time for the
8 record.

9 MR. HART: Tampa Electric Company calls Regan
10 B. Haines.

11 CHAIRMAN CARTER: Thank you. You may proceed.
12 Thereupon,

13 REGAN B. HAINES

14 was called as a witness on behalf of Tampa Electric
15 Company and, having been first duly sworn, was examined
16 and testified as follows:

17 DIRECT EXAMINATION

18 BY MR. HART:

19 Q. Please state your name and business address.

20 A. My name is Regan B. Haines, and my business
21 address is 702 North Franklin Street, Tampa, Florida.

22 Q. Did you prepare and cause to be filed in this
23 proceeding prepared direct testimony consisting of 54
24 pages?

25 A. Yes, I did.

1 Q. And attached to our direct testimony, did you
2 include a composite exhibit premarked as Exhibit RBH-1
3 and Hearing Exhibit Number 24, consisting of seven
4 documents?

5 A. Yes, I did.

6 MR. HART: Mr. Chairman, we would ask that
7 Mr. Haines' composite exhibit be formally identified for
8 the record as Exhibit Number 24.

9 CHAIRMAN CARTER: Let's do this. Let's do the
10 prefiled testimony first. Let's do that first before we
11 identify for the record.

12 BY MR. HART:

13 Q. Are there any changes or corrections to your
14 prepared direct testimony?

15 A. No, there's not.

16 Q. If I were to ask you the questions contained
17 in your prepared direct testimony, would your answers be
18 the same?

19 A. Yes, they would.

20 CHAIRMAN CARTER: Okay. The prefiled
21 testimony of the witness will be entered into the record
22 as though read. You may proceed.

23
24
25

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**2 **PREPARED DIRECT TESTIMONY**3 **OF**4 **REGAN B. HAINES**

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

8
9 **A.** My name is Regan B. Haines. My business address is 2200
10 East Sligh Avenue, Tampa, Florida 33610. I am employed
11 by Tampa Electric Company ("Tampa Electric" or
12 "company") as Director, Engineering in the Energy
13 Delivery Department.

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

17
18 **A.** I graduated from Clemson University in June 1989 with a
19 Bachelor of Science degree in Electrical Engineering and
20 again in December 1990 with a Master of Science degree
21 in Electrical Engineering specializing in Power Systems
22 Engineering. I have been employed at Tampa Electric
23 since 1998. My career has included various positions in
24 the areas of Transmission and Distribution System
25 Planning and Engineering within the Energy Delivery

1 Department. In my current position, I am responsible
2 for directing all activities associated with the
3 designing, engineering, performance analysis, joint use
4 and various construction services for the electric
5 transmission and distribution systems from the generator
6 to the customer's meter.
7

8 **Q.** Have you previously testified before the Florida Public
9 Service Commission ("Commission" or "FPSC")?
10

11 **A.** Yes. I have testified before the Commission in Docket
12 No. 070297-EI concerning the impact of extreme weather
13 events on the state's transmission and distribution
14 ("T&D") infrastructure and the company's storm hardening
15 efforts.
16

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

19 **A.** My direct testimony supports Tampa Electric's T&D
20 related capital and operations and maintenance ("O&M")
21 expenses of \$218,945,000 and \$76,256,000, respectively,
22 for the 2009 test year. These amounts include the costs
23 of implementing Tampa Electric's Storm Hardening Plan
24 approved by this Commission in Order No. PSC-07-1020-
25 FOF-EI, issued December 28, 2007. I will also discuss

1 T&D operations, system reliability and Tampa Electric's
 2 plan for continued cost-effective service to its
 3 customers. I will describe the increased federal
 4 regulatory challenges the company is facing and
 5 recommend a mechanism to recover required transmission
 6 additions. Finally, I will discuss and support the
 7 company's T&D O&M benchmark comparisons.

8
 9 **Q.** Have you prepared an exhibit to support your direct
 10 testimony?

11
 12 **A.** Yes, I am sponsoring Exhibit No. ____ (RBH-1) consisting
 13 of seven documents, prepared under my direction and
 14 supervision. These consist of:

15 Document No. 1 List Of Minimum Filing Requirement
 16 Schedules Sponsored Or Co-Sponsored
 17 By Regan B. Haines

18 Document No. 2 Transmission And Distribution
 19 Material, Equipment and Fuel
 20 Percentage Price Increases Since
 21 1999

22 Document No. 3 Transmission And Distribution
 23 Capital Investment For 2009

24 Document No. 4 Transmission And Distribution
 25 Related O&M Budget For 2009

1 Document No. 5 2007 SAIDI Comparison From Southern
2 Company Benchmark Consortium Study

3 Document No. 6 Florida Investor Owned Utility
4 Historical SAIDI Comparison
5 (Distribution Only)

6 Document No. 7 Storm Hardening Activity 2009
7 Projection

8

9 **Q.** Are you sponsoring any sections of Tampa Electric's
10 Minimum Filing Requirements ("MFRs")?

11

12 **A.** Yes. I am sponsoring or co-sponsoring the MFRs listed
13 in Document No. 1 of my Exhibit No. ____ (RBH-1).

14

15 **Q.** Describe Tampa Electric's T&D system.

16

17 **A.** Tampa Electric's service area covers approximately 2,000
18 square miles in West Central Florida, including all of
19 Hillsborough County and portions of Polk, Pasco and
20 Pinellas counties. Tampa Electric's transmission system
21 consists of approximately 1,300 miles of overhead
22 facilities, 26,000 poles and 15 miles of underground
23 facilities. The company's distribution system consists
24 of approximately 6,100 miles of overhead lines, 300,000
25 poles and 7,900 miles of underground lines. Tampa

1 Electric's transmission and distribution systems are
2 connected through 220 substations throughout its service
3 territory.

4
5 **COST OVERVIEW**

6 **Q.** Please describe the expenditures you will be discussing
7 in your direct testimony.

8
9 **A.** The expenditures I will be addressing are T&D related
10 O&M expenses and capital investment. I will describe
11 why these expenditures are required and how Tampa
12 Electric is efficiently balancing short-term maintenance
13 and long-term capital investment in an effort to provide
14 the most cost-effective reliable power to its customers.

15
16 **Q.** What are the main drivers of capital and O&M spending?

17
18 **A.** The need for capital additions as well as O&M expenses
19 are driven by a number of factors. One of the primary
20 drivers is customer growth, which includes the addition
21 of new customers as well as the increased demand
22 requirements from existing customers. Tampa Electric
23 has experienced significant customer growth over the
24 last 16 years and continued growth is projected at a 2.1
25 percent annual average over the next 10 years. Tampa

1 Electric's customer base has increased 44 percent since
2 1991 to 666,354 customers in 2007 and is forecasted to
3 be 679,941 customers by the end of 2009. This growth
4 has occurred within all customer classes. Existing
5 customers also continue to add appliances, televisions,
6 computers, and expand the size of their residences and
7 businesses, which increases demand. This load growth
8 and increase in demand increases the utilization of the
9 T&D system and eventually forces the expansion of the
10 system. As the system increases in size, increased
11 expenditures are required to ensure the safe and
12 effective operation of the system. This increase in
13 demand requires both capital expansion of the T&D system
14 and increases in O&M expenses as well.

15
16 A second driver, which is normal and expected by all
17 utilities, is capital and O&M expenses associated with
18 the aging of infrastructure. Florida's population grew
19 by approximately 4.8 million from 1960 to 1980. The
20 number of Tampa Electric customers grew by approximately
21 168,000 during this time. A significant amount of
22 electric infrastructure was installed to support this
23 increasing population. As a result, some of the
24 infrastructure is now 30 to 50 years old. As the system
25 ages, increased expenditures, both capital and O&M, are

1 required to replace aging infrastructure while providing
2 safe and reliable service to the company's customers.

3
4 A third driver, which I discuss later in my testimony
5 affecting both capital and O&M expenses is increases in
6 material and equipment costs as illustrated in my
7 Exhibit No. ___ (RBH-1), Document No. 2. Since 1992,
8 general inflation has increased by 48 percent; steel by
9 72 percent and concrete by 73 percent.

10
11 Two additional drivers for O&M expenses are related to
12 weather and regulatory compliance. The weather, which
13 can vary from year-to-year, creates outages and system
14 outage restoration activities. O&M expenses projected
15 for the test year have been based on a normalized
16 weather year.

17
18 Regulatory rules and related compliance costs have
19 increased since 1991. The Federal Energy Regulatory
20 Commission ("FERC") and the North American Electric
21 Reliability Corporation ("NERC") both have increased
22 reliability and compliance requirements. The Florida
23 Public Service Commission's storm hardening requirements
24 have also had an impact.

25

1 Finally, maintenance spending is required for the
2 company to inspect its growing T&D system on a prudent
3 basis and to correct conditions found during these
4 maintenance inspections before they become detrimental
5 to the system and create operational or safety issues.
6 The company has increased its maintenance activities in
7 order to comply with all requirements of the recent
8 Commission orders related to storm hardening which are
9 further outlined later in my direct testimony.

10
11 **Q.** Please provide an overview of Tampa Electric's T&D
12 related capital and O&M expenditures proposed in this
13 proceeding.

14
15 **A.** Tampa Electric forecasts that it will invest
16 \$218,945,000 in T&D related capital and incur
17 \$76,256,000 in T&D related O&M expenses in 2009. The
18 Energy Delivery business unit at Tampa Electric is
19 primarily responsible for the T&D related capital
20 expenditures and O&M expenses illustrated in Document
21 Nos. 3 and 4 of my exhibit. The 2009 Energy Delivery
22 capital budget includes the following initiatives:
23 system expansion of transmission, substation and
24 distribution facilities to support customer growth and
25 generation expansion; storm hardening initiatives;

1 substation circuit breaker replacements; relocations to
2 support road improvements; Automated Meter Reading
3 ("AMR") meter additions; an Energy Management System
4 ("EMS") upgrade project; and outdoor lighting additions.

5
6 The 2009 budgeted T&D related O&M costs include those
7 activities required for system operation and
8 restoration; meter reading; vegetation management;
9 inspection programs; and the ongoing maintenance of
10 equipment and computer systems. All projected budgets
11 have taken into account efficiencies and productivity
12 gains the company has achieved through technology and
13 process improvements, which are mentioned later in my
14 direct testimony. These capital investments and O&M
15 expenses are necessary to provide electrical service in
16 a cost-effective, safe and reliable manner while at the
17 same time meeting FERC, NERC, and FPSC requirements.

18
19 **RELIABILITY**

20 **Q.** Please provide an overview of the company's reliability
21 initiatives.

22
23 **A.** Tampa Electric focuses on multiple initiatives to cost-
24 effectively maintain and enhance customer service and
25 reliability. First, activities are targeted that will

1 prevent or limit the number of outages experienced by
2 customers and then the company work to reduce the amount
3 of outage time experienced.

4
5 The two largest reliability programs the company employs
6 are vegetation management and wood pole inspections.
7 These two initiatives provide the largest benefit for
8 preventing outages before they occur. Additionally, the
9 company performs inspections and repairs to improve T&D
10 circuit reliability, which include circuit thermovision
11 evaluations to detect potential problem areas,
12 condition-based substation maintenance to maintain
13 equipment prior to ineffective operation or failure,
14 underground cable testing to predict failure and pad-
15 mounted transformer inspections and repairs.

16
17 Another measure taken by the company to maintain
18 reliable service is through system capacity evaluations.
19 These studies consider the forecasted peak loading
20 demands of customers and identify potential problem
21 areas within the system. This provides the company's
22 engineers with the information needed to develop the
23 most cost-effective alternatives for system expansion.

24
25 As a result of these initiatives, Tampa Electric's

1 reliability performance is consistently in the top
2 quartile among utilities according to annual Edison
3 Electric Institute and Southern Company Consortium
4 benchmark reports; see Document No. 5 of my exhibit.

5
6 **Q.** Please describe the primary indices used by the company
7 to monitor system reliability performance.

8
9 **A.** Tampa Electric reviews multiple system reliability
10 indices, but primarily monitors System Average
11 Interruption Duration Index ("SAIDI") and Momentary
12 Average Interruption Event Frequency Index ("MAIFIE").
13 SAIDI is generally considered a key reflection of
14 operating performance. It indicates the total minutes
15 of interruption time the average customer experiences in
16 a year. SAIDI is calculated by dividing total customer
17 minutes of interruption by total customers served. A
18 significant factor having a direct influence on this
19 index is the severity of the storm season.

20
21 MAIFIE defines the average number of times an average
22 customer experiences a momentary interruption event.
23 The MAIFIE index is calculated by dividing the total
24 number of customer momentary interruption events by the
25 total number of customers served. Tampa Electric

1 annually sets reliability goals for both SAIDI and
2 MAIFIE.

3
4 **Q.** Please describe your system reliability performance.

5
6 **A.** Since 2005, Tampa Electric has reduced its SAIDI by
7 almost 10 percent, from 84 minutes to 77 minutes.
8 Document No. 6 of my exhibit shows Tampa Electric's
9 performance relative to the other investor-owned
10 utilities in Florida since 1999. With the exception of
11 the hurricane years of 2004 and 2005, Tampa Electric has
12 consistently had the top or second best SAIDI
13 performance in the state.

14
15 **Q.** What are some additional initiatives that the company
16 has undertaken to improve overall reliability
17 performance?

18
19 **A.** The company has recently made significant improvements
20 to its overall system reliability through various
21 reliability initiatives that will provide benefits in
22 the coming years. This improved performance is a result
23 of a continued focus on first preventing an outage from
24 occurring and then minimizing outage times when they do
25 occur.

1 For example, the company tracks the performance of
2 distribution circuits that may require performance
3 improvement and has developed a process for the
4 identification and completion of corrective
5 improvements. In 2007, 10 circuits were targeted which
6 resulted in a 42 percent improvement in SAIDI
7 performance for those circuits. Thirty-eight
8 distribution circuits have been identified for this
9 program in 2008.

10
11 MAIFIE is also another key measure of system
12 reliability. The identification and elimination of line
13 faults that generate momentary interruptions continues
14 to be a priority and focus of improving distribution
15 reliability for the company because these could
16 eventually lead to lengthier outages in the future.
17 Vegetation management is a major driver for momentary
18 outages. Tampa Electric is transitioning to a three-
19 year tree trim cycle in an effort to minimize these
20 momentary outages.

21
22 Another major driver of momentary outages is lightning.
23 Tampa Electric's service territory is located in
24 "Lightning Alley", which has the heaviest concentration
25 of annual lightning strikes in the United States

1 ("U.S.") according to NASA. Replacement of failed
2 lightning arrestors helps minimize lightning's impact.
3 During the company's annual mock storm exercise each
4 spring, team members take the opportunity during circuit
5 patrols to identify lightning arrestors that need
6 replacing.

7
8 The company has also pursued reductions to the duration
9 of outages through the development and implementation of
10 process efficiencies and the leveraging of technology.
11 With the implementation of electronic relays on the
12 transmission system, the location of the fault causing
13 the outage is identified to the Energy System Operator
14 ("ESO"). This allows the ESO to isolate the damaged
15 area quickly using remotely controlled pole top switches
16 and return most, if not all, customers back to service
17 even before field team members arrive on site. The ESO
18 also directs the transmission line patrolmen to the
19 problem area to identify what repair will need to be
20 made.

21
22 In 2007, the company implemented a distribution circuit
23 restoration project that focused on reducing the
24 duration of feeder outages. This was accomplished
25 through realigning resources available to respond to an

1 outage, isolating the damaged area, restoring service to
2 as many customers as possible prior to repairing the
3 damage, and then installing fault identification
4 devices. This project is further described later in my
5 direct testimony.

6
7 All of these initiatives not only help improve system
8 reliability, but they ultimately save costs, which are
9 reflected in all cost projections.

10
11 **PLANNING PROCESS**

12 **Q.** Please explain Tampa Electric's approach to planning for
13 expansion of the T&D systems.

14
15 **A.** The objective of Tampa Electric's Energy Delivery System
16 Planning Department is to plan well ahead of customers'
17 needs in order to provide timely, cost-effective and
18 reliable electrical service. Tampa Electric's 10-year
19 demand and energy forecasts, produced by the company's
20 Load Forecasting Department, along with various
21 electrical characteristics are utilized to analyze the
22 future needs of Tampa Electric's T&D system. The
23 planning process identifies when new transmission,
24 substation and/or distribution facilities will be needed
25 to meet customer requirements.

1 Using the company's forecasted system load, a review of
2 circuit loading, distribution transformer loading and
3 distribution reactive power loading is performed on an
4 annual basis for the next five-year period. Future
5 potential thermal overloads and/or abnormal voltage
6 conditions are also identified. Once it has been
7 determined that additional distribution capacity is
8 required in an area, various alternative projects are
9 created and evaluated for meeting the estimated system
10 growth. Cost estimates are produced for each
11 alternative and the alternatives are then evaluated
12 based on the impact to reliability, voltage, capacity,
13 economics and constructability. Based on these
14 criteria, the most cost-effective viable solution is
15 chosen to accommodate the projected system growth on the
16 distribution system.

17
18 The planning criteria for transmission system additions
19 are based on NERC, Florida Reliability Coordinating
20 Council ("FRCC") and other applicable standards. The
21 NERC reliability standards specify transmission system
22 scenarios to be evaluated and the levels of system
23 performance to be attained. The company conducts an
24 annual transmission assessment of the effects of
25 forecasted future load growth over a 10-year period on

1 the transmission system, the need to serve new load
2 areas and/or large new customers, future
3 interconnections with neighboring utilities, integration
4 of new generation facilities and firm contractual
5 transmission service obligations. The changes in system
6 performance due to these factors are simulated and
7 analyzed for the present and future years to identify
8 existing and future system limitations. Alternative
9 solutions to these limitations are then developed,
10 analyzed, and screened based on electrical performance.
11 Viable alternatives are compared for their relative
12 merits with respect to reliability, voltage, capacity,
13 economics and constructability. Transmission facility
14 additions such as a new transmission line are
15 implemented as a result of this process.

16
17 As these plans are evaluated, the company also considers
18 the need to acquire land for future substation sites and
19 power line rights-of-way. Growth in general and
20 specific patterns are reviewed to ensure substation
21 sites and power line rights-of-way can be acquired in a
22 timely manner to install the facilities necessary for
23 reliable service. Given the increased efforts presently
24 necessary to acquire land for substations and rights-of-
25 way, it is extremely important to identify and secure

1 the needed rights early before growth makes it very
2 difficult, expensive or impossible. Accordingly, Tampa
3 Electric has acquired property held for future use,
4 which is identified in MFR Schedule B-15, and requests
5 that this property be included in rate base. This
6 investment is both reasonable and prudent.

7
8 **Q.** How do the company's T&D expansion plans become actual
9 projects?

10
11 **A.** Using the results of the planning process, a five-year
12 construction plan and budget are developed which
13 identify the near term projects required to provide
14 reliable service. These plans are also incorporated
15 into the FRCC's planning process, which is described
16 later in my direct testimony.

17
18 **CAPITAL INVESTMENT**

19 **Q.** What are Tampa Electric's T&D capital investment plans
20 during 2009?

21
22 **A.** Tampa Electric plans to invest \$218,945,000 in T&D
23 related capital in 2009. The company's forecasted T&D
24 capital plans are listed and described in Document No. 3
25 of my exhibit. This T&D capital investment is required

1 to provide reliable service to customers. In general,
2 these expenditures include capital projects such as
3 substation and switching station construction and
4 upgrades, road widening projects, storm hardening
5 projects, new lighting systems and new T&D circuit
6 construction. Additional capital investments will be
7 made to leverage technology including automated meter
8 reading and various computer software projects.

9
10 **Q.** How have the company's T&D assets grown from 1991 until
11 2007?

12
13 **A.** The book value of the company's T&D assets in 1991 was
14 \$635,774,000. The book value has grown to
15 \$1,486,323,000 primarily due to the increase in the
16 number of customers the company serves. The company
17 added over 200,000 customers from 1992 to 2007. The
18 increase in the number of customers has been a primary
19 driver in load growth, which has driven the increase in
20 capital investment.

21
22 **Q.** Are there other reasons driving the need for capital
23 investment besides load growth?

24
25 **A.** Yes. In addition to customer load growth, there is also

1 considerable capital investment required to maintain the
2 reliability of service provided to Tampa Electric's
3 current and future customers. Technology is one area of
4 capital investment used to maintain reliability. Some
5 examples are its outage management system ("OMS"),
6 digital protective relays and fault indicators. Another
7 area of capital investment for reliability is the
8 program necessary to upgrade older equipment.

9
10 **Q.** Please explain the company's need to replace aging
11 infrastructure and to perform system upgrades.

12
13 **A.** Most T&D equipment has a 30-year useful life. Tampa
14 Electric installed a significant amount of T&D
15 infrastructure to support the 168,000 customers that
16 were added from 1960 to 1980. This infrastructure is
17 approaching or is at the end of its useful life, which
18 typically results in increased failures and higher
19 maintenance costs. In order to replace these aging
20 assets prior to failure and to upgrade the system in
21 specific areas to maintain or, in some cases, improve
22 existing reliability levels, capital investments are
23 required.

24
25 Tampa Electric plans to target the following system

1 upgrades specifically: various storm hardening
2 improvements to the company's overhead and underground
3 systems; pole replacements; transmission structure
4 inspections and repairs; lightning protection
5 improvements; replacement of obsolete oil-type circuit
6 breakers; replacement of electromechanical meters and
7 substation relays with electronic versions; and physical
8 and cyber security enhancements mandated by the FERC and
9 the NERC. As Tampa Electric's system continues to age
10 and customer growth continues to increase, additional
11 requirements are placed on the system making it
12 imperative that the company keep pace with the service
13 levels that customers expect.

14
15 **Q.** Are there other drivers to the increased cost of capital
16 investment?

17
18 **A.** Yes. Material costs, which have increased at an
19 astounding rate, are another key driver in the company's
20 increased capital spending over the last few years.
21 These high material costs are expected to continue in
22 the future. For example, the price the company must pay
23 for 69/13 kV substation transformers has increased by
24 over 160 percent since 1999. Document No. 2 of my
25 exhibit lists the percentage price increases for typical

1 T&D equipment experienced in the ten-year period from
2 1999 to 2008. The significant increases are largely
3 attributable to the infrastructure growth occurring in
4 developing countries causing competition for raw
5 materials.

6
7 **OPERATIONS AND MAINTENANCE EXPENSE**

8 **Q.** Please describe what is included in operations expenses.

9
10 **A.** Operations expenses are typically those required to
11 carry out the day-to-day activities associated with
12 operating the T&D system and all activities required to
13 support providing electric service to customers. These
14 include expenses associated with meter reading, meter
15 installations, locating underground facilities,
16 dispatching field team members in response to customer
17 requests, responding to and restoring the system
18 following outages, and switching and re-configuring the
19 company's T&D systems to ensure reliable operations.

20
21 **Q.** Please explain the main drivers for the company's T&D
22 related operations expenses.

23
24 **A.** As mentioned earlier in my direct testimony, the two
25 main drivers are load growth and weather related

1 outages. The company has experienced significant load
2 growth since its last rate case and projects continued
3 growth in demand for the foreseeable future. This
4 continued increase in demand impacts Energy Delivery's
5 activities such as meter reading, meter disconnect and
6 re-connect, and new meter connection activities.
7 Weather related outage activity also has a direct impact
8 on operations expenses associated with restoration
9 activities.

10
11 **Q.** What is included in the T&D related maintenance
12 expenses?

13
14 **A.** Maintenance expenses include activities performed to
15 keep assets in serviceable condition, maintain safety
16 requirements, avert premature failures and manage
17 vegetation growth. They also include activities, which
18 correct or repair non-operable or unsafe conditions on
19 the system as identified through an inspection program
20 or as a result of a storm or other event.

21
22 **Q.** What will be the result of the proposed maintenance
23 spending?

24
25 **A.** During the 2009 test year, Tampa Electric will be

1 increasing maintenance and tree trimming expenditures
2 above current levels and will complete full
3 implementation of inspection and maintenance programs in
4 order to comply with FPSC requirements. The expected
5 result will be improved reliability and service to
6 customers on both a day-to-day basis and following a
7 major storm event. Increasing the level of maintenance
8 and focusing on key programs will enable the company to
9 maintain the reliability standards historically provided
10 to its customers. Tampa Electric's inspection and
11 maintenance programs include: a three-year tree trimming
12 and vegetation management cycle, an eight-year wooden
13 pole inspection cycle, a six-year transmission structure
14 inspection cycle, annual substation inspections,
15 condition based substation preventative maintenance,
16 downtown network inspections and underground system
17 inspections.

18
19 **Q.** Please describe Tampa Electric's vegetation management
20 program and explain why the program's costs are
21 increasing.

22
23 **A.** Tampa Electric is increasing its vegetation management
24 program to establish and maintain a three-year
25 distribution system trimming cycle in order to comply

1 with the Commission's requirements for storm hardening.
2 Tampa Electric's vegetation management program provides
3 a balanced and phased approach toward a three-year tree
4 trim cycle plan to reach the company's desired
5 objectives. The objectives are to improve the quality
6 of line clearance while increasing system reliability.
7 Tampa Electric began ramping up its vegetation
8 management program at the end of 2005, with an emphasis
9 on critical trimming needed in areas identified by the
10 company's reliability based methodology. The company
11 continues its progress toward a three-year tree trim
12 cycle plan and anticipates reaching its goal by 2010.

13
14 To ensure the company is implementing the most cost-
15 effective program, Tampa Electric's System Reliability
16 and Line Clearance Departments take into consideration
17 many factors in developing the annual plan, such as
18 multi-year circuit performance data, last trim date and
19 circuit priorities. Various improvements made
20 throughout 2007 resulted in a 15 percent increase in
21 total miles trimmed during 2007 with only a 12 percent
22 increase over 2006 spending.

23
24 The proposed 2009 budget for this program is
25 \$16,073,000. This is the spending level, plus

1 inflation, that will be maintained going forward. Tampa
2 Electric will continue to review system reliability and
3 all pertinent field and customer information along with
4 its annual trimming plan in order to manage its overall
5 vegetation management program effectively.
6

7 **Q.** Are there other cost drivers for the increased
8 vegetation management costs?
9

10 **A.** Yes. While increased activity is a major driver for
11 cost increases, per unit costs for vegetation management
12 have also grown at a faster pace than inflation. This
13 is primarily due to the competition for resources and
14 increasing contractor rates mainly caused by escalating
15 fuel costs.
16

17 **O&M BENCHMARK COMPARISON**

18 **Q.** Have you made a comparison of Tampa Electric's test year
19 T&D O&M budget to the Commission's benchmark?
20

21 **A.** Yes. The comparison for transmission and distribution
22 O&M expenses is shown in MFR Schedule C-37. It
23 demonstrates that the projected T&D O&M expenses for the
24 test year are below the O&M benchmark by \$1,064,000.
25 Transmission is \$1,721,000 below the benchmark and

1 distribution is \$657,000 above.

2

3 **Q.** Why is distribution for 2009 above the O&M benchmark?

4

5 **A.** The 1991 base year included a four-year distribution
6 tree trim cycle, while the 2009 test year includes a
7 three-year distribution tree trim cycle. As I mentioned
8 above, in order to comply with the Commission's storm
9 hardening requirements, the company is transitioning to
10 a three-year tree trim cycle to improve reliability
11 during normal weather conditions as well as major storm
12 events such as hurricanes.

13

14 **Q.** Why is the overall 2009 Transmission & Distribution O&M
15 budget below the Commission's benchmark?

16

17 **A.** As I describe above, Tampa Electric's Energy Delivery
18 team has taken a number of steps to ensure that spending
19 is done in a prudent manner. The company has
20 implemented a number of practices and programs that have
21 improved the overall efficiency and effectiveness of
22 operating and maintaining the T&D system while
23 maintaining SAIDI performance in the first quartile as
24 explained in the "Operational Efficiency and
25 Effectiveness" section of my testimony and shown in

1 Document No. 6 of my exhibit.
2

3 **OPERATIONAL EFFICIENCY AND EFFECTIVENESS**

4 **Q.** What steps has the company taken to manage the company's
5 T&D related capital and O&M expenditures effectively?
6

7 **A.** Tampa Electric's management team has taken a number of
8 steps to ensure that a focus is placed on the right
9 priorities, the proposed budgets are reasonable, and all
10 expenditures are occurring in a wise manner. The
11 company has implemented a number of practices to improve
12 safety and the effectiveness of its workforce, and to
13 create an environment for continuous improvement. These
14 practices have favorably impacted performance in diverse
15 areas of the business including: outage response,
16 workforce utilization, inventory, project management,
17 system protection and meter reading. Significant
18 improvements have also been made to the company's
19 distribution construction standards.
20

21 **Outage Response**

22 A new OMS was implemented in November 2001. The
23 benefits of this system include a predictive point of
24 outage typically resulting in decreased outage time;
25 increased usage of the interactive voice response system

1 ("IVR") including estimated outage duration and
2 automatic call back when service is restored; and
3 centralized outage information for customer service
4 professionals and field personnel.

5
6 **Workforce Utilization**

7 In 2003, Tampa Electric hired a consultant to review the
8 planning and scheduling of Energy Delivery's maintenance
9 and construction work. They recommended that the
10 planning and scheduling of work be centralized to give a
11 global view of all resources and work. They also
12 recommended that all work should be planned and
13 scheduled except for true emergency work. This would
14 reduce overall costs and improve on-time service dates
15 due to the efficiencies gained with the process.
16 Beginning in 2004, a new process was implemented and
17 included developing a four-week schedule and releasing
18 work two weeks ahead of time if all resources were
19 available. Emergency work took a priority, but all non-
20 emergency work was scheduled. Key process indicators
21 were developed to evaluate ongoing area performance. In
22 addition to improved customer service, this process
23 change has resulted in many efficiency gains and avoided
24 costs.

25

Inventory

1
2 In May 2003, an initiative was implemented to centralize
3 all major material at one main storeroom and distribute
4 material to the outlying storerooms as needed for
5 scheduled work. A small level of maintenance stock was
6 maintained at each of the outlying storerooms. This
7 change has reduced the amount of duplicate material
8 stored at each service area and resulted in a reduction
9 of inventory levels and an improved inventory turnover
10 ratio. While this initiative has benefited customers by
11 reducing inventory costs, it has not impacted the
12 company's ability to provide excellent customer service.
13

Project Management

14
15 A project management organization was formed in November
16 2006 to manage large T&D construction projects. This
17 group manages projects from the cost-estimating phase to
18 project completion. The purpose was to improve the
19 execution and overall management of large project work
20 following the identification of project scope. In 2007,
21 this change resulted in the completion of seven out of
22 nine projects within 10 percent of the cost estimate and
23 meeting the in-service date. The seven projects totaled
24 \$8,329,500 and the final costs came within \$347,370 of
25 the total project cost estimates. The two projects that

1 did not meet the 10 percent criteria totaled
2 approximately \$1,826,200 and the final cost came within
3 \$146,039 of the total project cost estimates.

4 5 **System Protection**

6 The main purpose of a protective relay is to sense
7 abnormal conditions on the electric system and then
8 operate the appropriate switching devices to isolate the
9 problem to provide protection to the remainder of the
10 electrical system. In 1998, Tampa Electric purchased
11 its first fully integrated distribution electronic
12 relay. Since that time, the company has installed over
13 1,400 electronic relays across 48 percent of its T&D
14 system. The benefits of these relays are decreased
15 costs, increased flexibility in system protection,
16 decreased outage times through fault location, reduced
17 maintenance, improved testing cycle time, and a self-
18 monitoring feature that alarms when the relay is not
19 functioning properly. These features have resulted in
20 decreased costs and improved reliability for the
21 company's T&D system.

22 23 **Automated Meter Reading**

24 In 2003, Tampa Electric initiated an AMR project, which
25 is the application of electronic and communication

1 technology to enable the reading of electric meters
2 remotely. This technology has helped to increase
3 operational efficiencies and to reduce exposure to
4 issues surrounding safety and meters that are hard to
5 access. The 2008 strategy includes the deployment of
6 AMR meters in those areas where high cost reads and the
7 hard to access meters overlap to generate the highest
8 return on investment.

9
10 Once an area has been completely saturated with
11 residential AMR meters, there are significant cost
12 benefits. In the areas of Dade City, Plant City and
13 Fish Hawk Ranch in Lithia, there has been a complete
14 conversion of the residential meters to AMR and the cost
15 to read a meter has been reduced from approximately 45
16 cents per read to 15 cents per read. In general, time
17 needed to read meters in these three areas declined by
18 approximately 58 percent. AMR also lowers the quantity
19 of estimated meter reads. Estimated meter reads
20 averaged 6.7 percent in 2005 but have remained below one
21 percent for the past two years.

22
23 The company plans to convert 55,000 residential meters
24 to AMR meters each year at an estimated cost of three
25 million dollars per year. Tampa Electric ended 2007

1 with 73 meter readers and it is projected that 63 meter
2 readers will be required at the end of 2009. The
3 company has factored in all productivity improvements
4 gained from this initiative into its cost projections.

6 **Construction Standards**

7 Tampa Electric has made many significant improvements to
8 its construction standards since its last rate case.
9 Some of the major enhancements include: 1) standardized
10 overhead triangular construction to minimize life cycle
11 costs; 2) added new class three wood poles to inventory
12 to reduce use of class two poles; 3) converted porcelain
13 horizontal line post insulators to polymer; 4) changed
14 standard arrestor to flying lightning arrestor style on
15 terminal poles; 5) implemented fiberglass guy strains;
16 6) changed 1/0 stranded cable to solid cable; 7)
17 implemented shorter 1000 MCM reel length; 8)
18 standardized overhead conductor sizes, eliminated 4/0 AL
19 ALCSR; 9) implemented UG jacketed cable; 10) implemented
20 strand filled (Moisture Block) underground cable; 11)
21 eliminated radial (Live Front) pad-mounted transformers;
22 12) implemented new overhead transformer design with
23 aluminum windings; 13) changed mild steel switchgear
24 enclosures to stainless steel; and 14) changed mild
25 steel single phase transformer enclosure to stainless

1 steel hybrid. These changes have helped manage rising
2 material costs and provided reliability benefits to the
3 system.

4 **Other Process Improvements**

6 Circuit Restoration Initiative - In 2007, Tampa Electric
7 embarked on a mission to reduce SAIDI by reducing
8 distribution circuit outage time. A cross-functional
9 team was put together to investigate the cause and
10 nature of customer outages with a goal of improving
11 reliability. The team discovered that 40 to 50 percent
12 of yearly SAIDI was attributed to entire circuit
13 outages. The result was a project called the Circuit
14 Restoration Initiative. Accordingly, Tampa Electric
15 implemented new guidelines for responding to circuit
16 outages. For example, a guideline was established to
17 have a minimum of two responders for each circuit
18 outage. With the idea of working smarter not faster,
19 two responders are able to patrol and locate problems in
20 half the time. A philosophy of "switch before fix" was
21 also implemented. Upon locating the problem, the first
22 responder initially looks for ways to isolate the
23 problem with switching; this energizes as many customers
24 as possible with alternate feeds, before attempting to
25 make repairs. Although this is not a new concept, with

1 disciplined application, this subtle change has reduced
2 the number of customers impacted while repairs are made.

3
4 The company also installed 700 strobe fault indicators
5 on pre-selected circuits. These devices are attached to
6 overhead main feeders at strategic locations. They
7 flash when they sense fault current and the feeder is
8 de-energized. This helps the first responder to quickly
9 locate and isolate the cause of the outage. The company
10 targeted circuits with historically the most problems as
11 well as circuits with sections of lines that are
12 difficult to access.

13
14 Preliminary results for the circuit restoration
15 initiative have been outstanding. In 2006, circuit
16 outages experienced were restored with an average
17 restoration time of 48 minutes. In 2007, the average
18 circuit outage restoration time dropped to 38 minutes.
19 With the improvements made, the company was able to
20 reduce the average circuit outage time by 20 percent.
21 The company expects this initiative to play a
22 significant role in reducing SAIDI.

23
24 Quicker Crew Call Outs - In 2004, Customer Service
25 replaced the IVR system that provides telephone response

1 for the customer contact center. As part of the IVR
2 replacement, the "outbound dialer" functionality was
3 included in the scope in order to allow for faster,
4 automated call out of crews for restoration work.

5
6 Super Crews - This concept was introduced in 2005 to add
7 a more flexible type of crew that could perform both
8 restoration work as well as distribution maintenance
9 work and has provided better resource scheduling
10 flexibility.

11
12 Mock Storm Exercise/Faulty Equipment Identification -
13 During the company's annual mock storm exercise each
14 spring, the participants take the opportunity during
15 circuit patrols to identify lightning arrestors and
16 capacitor banks that need repair. The replacement of
17 lightning arrestors and certain capacitor banks will
18 improve reliability. Through this effort, the company
19 not only practices its storm response procedures, but it
20 also identifies equipment needing repair.

21
22 Lastly, the company implemented the use of text
23 messaging and emails to alert key team members when a
24 circuit is de-energized. This was accomplished by
25 integrating the EMS and Supervisory Control and Data

1 Acquisition ("SCADA") systems with the company's email
2 software. Immediately after a circuit outage, the
3 system sends an alert via text message or email to
4 selected local supervisors and managers. This creates
5 an "all hands on deck, firefighter's mentality", to help
6 facilitate a focused and timely response.

7
8 **Q.** How does Energy Delivery ensure operations and
9 maintenance is performed in a timely, efficient and
10 effective manner, and that funds are spent
11 appropriately?

12
13 **A.** Energy Delivery verifies the status of achieving its
14 goals through budgeting, planning and tracking systems
15 and internal business control processes. The company
16 monitors and measures performance through work
17 management, system planning, project scheduling and
18 asset tracking tools in several ways. For example, the
19 key performance indicators are used to report on the
20 performance of distribution, transmission and substation
21 work. Another example is the further delineation of the
22 O&M and capital budgets through the use of an activity-
23 based costing tool, which tracks activities for both
24 production units and costs per unit. Energy Delivery
25 also tracks system performance for outage analysis and

1 input for maintenance and capital spending decisions.
2 Additionally, the company prioritizes the numerous
3 capital projects considered each year and utilizes
4 Primavera software for planning and scheduling many
5 complex capital projects. Finally, Energy Delivery has
6 implemented new financial processes and systems to
7 prioritize, track and monitor spending against its
8 business plans. All of these systems and processes, and
9 the team members that support, develop and use this
10 information, allow Energy Delivery to perform work
11 efficiently and effectively. These activities are aimed
12 at providing quality service to customers at the lowest
13 long-term cost, consistent with meeting the service
14 standards that customers want and deserve.

15
16 **STORM HARDENING ACTIVITIES**

17 **Q.** Please summarize Tampa Electric's storm hardening
18 activities.

19
20 **A.** Tampa Electric's storm hardening activities, which
21 include the company's Pole Inspection Program, Ten-Point
22 Storm Preparedness Plan and Storm Hardening Plan, are a
23 multi-pronged approach to enhance the reliability of the
24 T&D facilities.
25

Pole Inspection Program

To implement Order No. PSC-06-0144-PAA-EI, issued February 27, 2006, Tampa Electric expects to conduct approximately 38,900 distribution and 3,700 transmission wooden pole inspections in 2009 and all inspection related O&M spending is estimated to be \$1,610,000 in 2009. Capital replacement and upgrades will cost an estimated \$14,789,000 for the same period. This is representative of the pole inspections and replacement the company expects on an annual basis.

Ten-Point Storm Preparedness Plan

Implementation of the Commission's storm preparedness plan in Docket No. 060198-EI, required by Order No. PSC-06-0351-PAA-EI issued April 25, 2006 and approved by Order No. PSC-06-0781-PAA-EI issued on September 19, 2006, will cost an estimated \$18,834,000, \$17,645,000 in O&M and \$1,189,000 in capital, during the 2009 test year. One of the most significant expenses is the implementation of the three-year tree trimming cycle required by the initiative of the Storm Preparedness Plan.

Storm Hardening Plan

Tampa Electric's storm hardening plan was developed in

1 response to Commission Order No. PSC-07-0043-FOF-EU,
2 issued on January 16, 2007, in Docket No. 060172-EU.
3 The Commission has recognized that Tampa Electric's
4 storm hardening plan provides a reasonable, measured
5 approach to storm hardening. The objective of the
6 company's storm hardening plan is to improve system
7 reliability and resiliency during and after extreme
8 weather events. The total storm hardening activities
9 cost projections for the test year, including the
10 previously discussed Pole Inspection Program, the Ten-
11 Point Storm Preparedness Plan is \$36,450,000,
12 \$19,255,000 in O&M and \$17,195,000 in capital, and they
13 are detailed in Document No. 7 of my exhibit.

14
15 **REGIONAL TRANSMISSION PLANNING**

16 **Q.** Has Tampa Electric experienced increased federal
17 regulation of transmission reliability since its last
18 rate proceeding?

19
20 **A.** Yes. In the mid-to-late 1990s, FERC began focusing on
21 initiatives that helped enhance wholesale markets and
22 ensure open access to transmission. In its Order 2000,
23 FERC strongly supported the development of regional
24 transmission organizations ("RTO") and encouraged
25 utilities to divest ownership or control of their

1 transmission assets. Tampa Electric, along with the
2 other peninsular Florida investor-owned utilities worked
3 for years on developing GridFlorida.
4

5 **Q.** How has transmission planning in Florida changed over
6 the past few years?
7

8 **A.** A key element of FERC's Order 2000 was the requirement
9 for regional transmission planning and although
10 GridFlorida never materialized, regional transmission
11 planning has remained a priority for Florida. In Order
12 PSC-06-0388-FOF-EI ("GridFlorida Order") from Docket No.
13 020233-EI, the FPSC determined it would monitor the
14 peninsular Florida utilities and stakeholders' efforts
15 as they continued to find ways to enhance wholesale
16 market opportunities. In its GridFlorida Order, the
17 FPSC stated:

18 "Even though we are allowing the Applicants to
19 withdraw the petition, the underlying impetus
20 for examining the feasibility of an RTO still
21 remains a valid concern for the state. Florida
22 would still benefit from laying additional
23 basic framework for wholesale competition, and
24 efficiencies may be gained by making
25 modifications to the current market structure.

1 Over the past four years, Florida's peninsular
2 utilities and this Commission have conducted a
3 close examination of the current wholesale
4 market and identified several areas where
5 efficiencies may be gained in a cost-effective
6 manner. One of these is already underway at
7 the utilities' initiative, and there are two
8 more that the utilities are investigating. The
9 initiative that is underway is the FRCC
10 Transmission Planning Process."

11
12 **Q.** Please describe the FRCC's transmission planning
13 process.

14
15 **A.** The FRCC has developed a regional "top down" approach to
16 peninsular Florida transmission planning. Prior to its
17 development, transmission planning was primarily
18 performed and studied individually by electric
19 utilities. The individual utility plans would then be
20 aggregated and reviewed by the FRCC for compliance with
21 NERC's planning standards but it was never conducted on
22 a holistic, regional perspective. Since the GridFlorida
23 Order, FRCC has been working on a more comprehensive
24 regional planning model.

25

1 The FRCC planning process is intended to develop a
2 regional transmission plan to meet the existing and
3 future requirements of all customers, users, providers,
4 owners and operators of the transmission system in a
5 coordinated, open and transparent transmission-planning
6 environment. The planning process begins with the
7 consolidation of the long-term transmission plans of all
8 transmission owners and providers in the FRCC region.
9 It is a requirement that the long-term transmission
10 plans incorporate the integration of new firm resources
11 as well as other firm commitments. This includes all 69
12 kV and above transmission facilities. A detailed
13 evaluation and analysis of plans is conducted by utility
14 working groups in concert with the FRCC staff and
15 managed by the FRCC Planning Committee. The evaluations
16 and analysis provide the basis for possible recommended
17 changes to individual system plans that, if implemented,
18 would result in a more reliable and robust transmission
19 system for the FRCC region.

20
21 **Q.** Did the Energy Policy Act of 2005 ("the Act") have an
22 impact on regional planning and reliability?

23
24 **A.** Yes. A significant change due to the Act that impacted
25 the regional planning process was the development of an

1 electric reliability organization ("ERO") with FERC
2 oversight. The Act made compliance with reliability
3 standards approved by FERC mandatory and enforceable,
4 subject to civil penalties. In 2006, NERC was certified
5 by FERC as the ERO for the U.S. The Act also authorized
6 delegation of compliance, monitoring, and enforcement of
7 reliability standards to regional entities such as the
8 FRCC and, in 2007, FERC approved this delegation between
9 NERC and the FRCC. The FRCC is responsible for
10 regulating mandatory planning standards.

11
12 **Q.** What other changes have occurred that affect the
13 regional planning process?

14
15 **A.** Another change that has occurred has resulted in
16 revisions to the FERC Open Access Transmission Tariff
17 ("OATT"). Following the Act, FERC initiated a
18 rulemaking to implement revisions to the OATT to correct
19 perceived shortcomings to FERC's previous orders. This
20 rulemaking process culminated in the issuance of FERC's
21 Order 890 in December 2007, which was the latest step in
22 the evolution of allowing non-transmission owners fair
23 access to transmission service. Order 890 was developed
24 to provide greater specificity to reduce opportunities
25 for undue discrimination. It also established a set of

1 rules to make the planning and use of the nation's
2 transmission system more open and transparent. In
3 particular, Order 890 required the development of a cost
4 allocation methodology for regional transmission
5 expansion. In response, the FRCC developed a regional
6 transmission cost allocation methodology.

7
8 **Q.** Please describe the FRCC cost allocation methodology.

9
10 **A.** A key element in FRCC's cost allocation methodology is
11 that it addresses third-party impacts on transmission
12 facilities; that is, when generation installed on a
13 transmission owner's system overloads facilities on
14 another transmission owner's system. The remedy could
15 require expansion of another transmission owner's
16 system. Third-party impacts have occurred periodically
17 in Florida and have become more pronounced over time,
18 especially since the peninsular Florida system is highly
19 integrated, where changes on one system affect multiple
20 systems.

21
22 The FRCC cost allocation methodology divides the
23 peninsular Florida system into cost sharing zones.
24 There are two south zones, one central zone, and three
25 north zones. The protocol is triggered when a third-

1 party impact occurs, an affected owner has requested
2 application of the cost sharing methodology and the
3 third-party impact has been confirmed by the FRCC. For
4 example, assume that a transmission owner's system is in
5 the central zone and the costs for expansion of his
6 system will be shared by the load in the central zone
7 and by the incremental generation in any zone that
8 contributes to the overloading of his system. Under the
9 FRCC methodology, the cost allocation methodology would
10 allocate half of the costs to the load in the central
11 Florida zone and half to the incremental generation that
12 contributes to the third-party impact. While this
13 example has been made simple for illustrative purposes,
14 third-party impacts can be much more complex in terms of
15 identifying costs and benefits. The FRCC methodology
16 represents a framework describing criteria, principles
17 and dispute resolution to guide cost sharing
18 negotiations amongst the parties.

19
20 **Q.** Does Tampa Electric's projected 2009 transmission
21 expenditures include projects that will be submitted for
22 FRCC review?

23
24 **A.** Yes. For 2009, the company has included \$68,101,000 in
25 its budget for 230 kV transmission projects. However,

1 given the regional planning process and the dynamic
2 nature of generation and transmission needs for the next
3 five years, it is virtually impossible to predict Tampa
4 Electric's share of expected expenditures accurately.
5 As Florida and the U.S. refine energy policy relative to
6 greenhouse gas legislation, alternative technologies and
7 fuel sources, generation technologies and requirements
8 will be refined accordingly. Even over the past year,
9 clean coal technology has taken a backseat to nuclear
10 and renewable sources. Along with the uncertainty of
11 energy policy, the cost of transmission construction has
12 dramatically increased over the past few years. During
13 the years 2000 through 2002, it cost approximately
14 \$700,000 to construct a mile of transmission line.
15 Today that cost could be three times as much due to the
16 higher labor, land acquisition and raw material costs.

17
18 **Q.** In this proceeding, what are you recommending for future
19 transmission expenditures as it relates to cost
20 recovery?

21
22 **A.** Given the need for additional transmission in Florida
23 and the uncertainty associated with future expenditures,
24 I recommend the Commission approve a Transmission Base
25 Rate Adjustment ("TBRA"). The TBRA would allow Tampa

1 Electric to timely recover its transmission costs
2 associated with those 230 kV and above transmission
3 projects submitted for FRCC review. As I stated above,
4 the company has included \$68,101,000 in its 2009 test
5 year budget for such projects, but it is very likely
6 that future expenditures could be even more significant.
7 A TBRA will allow the company to recover its required
8 transmission related expenditures as they are incurred
9 rather than through base rates. In his direct
10 testimony, Tampa Electric witness Jeffrey S. Chronister
11 describes the mechanism in further detail.

12
13 **LAKE AGNES - CANE ISLAND TAP 230 kV LINE**

14 **Q.** Please describe the Lake Agnes - Cane Island Tap 230 kV
15 line.

16
17 **A.** The Lake Agnes - Cane Island Tap 230 kV line is made up
18 of two transmission circuits: Lake Agnes - Osceola 230
19 kV circuit and four miles of the Osceola - Cane Island
20 230 kV circuit. Tampa Electric owns 25 percent interest
21 in the Lake Agnes - Cane Island Tap 230 kV line. The
22 line is 25.4 miles and connects the Lake Agnes and
23 Osceola substations and includes four miles of
24 transmission line east from the Osceola substation to
25 the tap for the Cane Island substation.

1 **Q.** Is the line in Tampa Electric's retail rate base?

2

3 **A.** No. During Docket No. 950379-EI, Order No. PSC-97-0436-
4 FOF-EI, issued on April 17, 1997, the Commission said:

5 "It appears that TECO purchased 25 percent of
6 the line primarily to ensure the ability to
7 make wholesale sales to entities such as the
8 Reedy Creek Improvement District ("RCID").
9 Based on the information available at this
10 time, the company finds that the entire
11 investment shall be assigned to the wholesale
12 jurisdiction."

13

14 **Q.** Are there any reasons this ruling should be reviewed
15 again?

16

17 **A.** Yes. The Lake Agnes - Osceola 230 kV circuit was
18 upgraded in 2008 to meet NERC reliability standards for
19 the bulk electric grid. The Osceola - Cane Island 230
20 kV circuit is planned to be upgraded in 2010.

21

22 **Q.** Explain the importance of the bulk electric grid to the
23 retail ratepayers.

24

25 **A.** Tampa Electric is interconnected to other utilities via

1 the bulk electric grid. Given the breadth of the
2 Eastern Interconnection from Florida to Canada, west to
3 the Mississippi River, disturbance impacts are minimized
4 due to the solidarity of the grid. The redundancy of
5 transmission grid provides alternate paths for power to
6 flow when there are planned and unplanned outages on the
7 bulk electric grid. Tampa Electric's retail customers
8 also benefit because of its participation in a reserve
9 sharing group ("RSG"). NERC standards require that an
10 entity have enough generation available within 15
11 minutes to replace the loss of its largest resource.
12 Because of the interconnection, Tampa Electric
13 participates in a RSG that limits the amount of
14 resources that Tampa Electric must maintain to meet this
15 NERC standard. This benefits retail customers from both
16 a cost and a reliability perspective.

17
18 **Q.** Has the Lake Agnes - Cane Island Tap 230 kV line been
19 impacted by the NERC planning standards?

20
21 **A.** Yes. In June 2005, a FRCC transmission assessment of
22 the Central Florida region studied the planned
23 generation additions in the Polk County region and their
24 impact on the I-4 corridor transmission based on NERC
25 planning standards. A Florida Central Coordinated

1 Restudy of the area was completed June 2006 with the
2 recommendation to upgrade the Lake Agnes - Osceola
3 circuit by June 2008 and the Osceola - Cane Island
4 circuit by June 2011.

5
6 **Q.** Has the Lake Agnes - Osceola upgrade been completed and
7 at what cost?

8
9 **A.** Yes. The upgrade went in service April 24, 2008 at a
10 cost to Tampa Electric of \$3,268,000. The Osceola -
11 Cane Island upgrade is expected to cost approximately
12 \$900,000. The upgrades and improvements were made to
13 maintain the reliability of the bulk electric grid,
14 which benefits the company's retail customers.

15
16 **SUMMARY**

17 **Q.** Please summarize your direct testimony.

18
19 **A.** Tampa Electric forecasts that it will invest
20 \$218,945,000 in T&D related capital and incur
21 \$76,256,000 in T&D related O&M expenses in 2009. The
22 Energy Delivery capital budget includes system expansion
23 of transmission, substation and distribution facilities
24 to support customer growth and generation expansion,
25 storm hardening initiatives, substation circuit breaker

1 replacements, AMR meter additions and an EMS upgrade
2 project. The 2009 O&M budget includes those activities
3 required for system operations and restoration, meter
4 reading, vegetation management, inspection programs, and
5 the maintenance of equipment and computer systems.
6 These capital investments and O&M expenses are necessary
7 to preserve the company's reliable electric service and
8 to meet the Commission's requirements for storm
9 hardening.

10
11 To ensure that the T&D system is reliable, Tampa
12 Electric maintains the necessary capacity and reserves
13 on the system, ensures the quality of the power is
14 acceptable, limits outages from occurring and minimizes
15 the outage time when they occur. The company has
16 recently made significant improvements to its overall
17 system reliability through various reliability
18 initiatives that will also provide benefits in the
19 coming years. Since 2005, Tampa Electric has reduced
20 its SAIDI by almost 10 percent, from 84 minutes to 77
21 minutes. This improved performance is a result of a
22 concentrated focus on first preventing an outage and
23 then minimizing outage times when they do occur.

24
25 To efficiently and effectively manage costs, Tampa

1 Electric's management team has implemented a number of
2 practices to improve safety, the effectiveness of its
3 workforce, and generally to promote an environment for
4 continuous improvement. These practices have favorably
5 impacted performance in diverse areas of the business:
6 outage response, workforce utilization, inventory,
7 project management, system protection, and meter
8 reading. Significant improvements have also been made
9 to the company's construction standards.

10
11 At the same time, the company has experienced additional
12 federal and state regulatory requirements. Tampa
13 Electric, along with the other transmission owners in
14 Florida, expects to invest significantly in the
15 transmission system. Because of the significance of the
16 expenditures and the unpredictable nature of regional
17 cost allocations, a TBRA will serve as an appropriate
18 cost recovery mechanism for future transmission
19 investments.

20
21 Overall, Tampa Electric has been able to maintain its
22 system reliability performance and position within the
23 first quartile of comparable peer utilities while
24 remaining below the Commission's O&M benchmark. This
25 represents an appropriate balance between the quality

1 service that customers expect and reasonable costs.

2

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

4

5 **A.** Yes, it does.

6

7

8

9

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25

1 MR. HART: Mr. Chairman, we would ask that the
2 exhibit that we had just identified be marked as Hearing
3 Exhibit Number 24.

4 CHAIRMAN CARTER: For identification purpose
5 only.

6 MR. HART: Yes.

7 CHAIRMAN CARTER: Show it done. You may
8 proceed.

9 (Exhibit Number 24 was identified for the
10 record.)

11 BY MR. HART:

12 Q. Mr. Haines, did you also prepare and cause to
13 be filed in this proceeding prepared rebuttal testimony
14 consisting of 22 pages?

15 A. Yes, I did.

16 Q. Are there any changes or corrections to your
17 prepared rebuttal testimony?

18 A. No, there's not.

19 Q. If I were to ask you the questions contained
20 in your rebuttal testimony, would your answers be the
21 same?

22 A. Yes, they would.

23 Q. Attached to your rebuttal testimony, did you
24 included a composite exhibit premarked as RBH-2 and
25 Hearing Exhibit Number 84, consisting of two documents?

1 A. Yes.

2 MR. HART: Mr. Chairman, we would ask that
3 Mr. Haines' composite exhibit be formally identified for
4 the record as Hearing Exhibit Number 84.

5 CHAIRMAN CARTER: Let's do this first. Let's
6 adopt the prefiled rebuttal testimony of the witness
7 into the record as though read. And for the record, the
8 prefiled exhibit will be identified for the record. You
9 may proceed.

10 (Exhibit Number 84 was identified for the
11 record.)

12

13

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TAMPA ELECTRIC COMPANY
DOCKET NO. 080317-EI
FILED: 12/17/08

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **REBUTTAL TESTIMONY**

3 **OF**

4 **REGAN B. HAINES**

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

8
9 **A.** My name is Regan B. Haines. My business address is 702
10 North Franklin Street, Tampa, Florida 33602. I am
11 employed by Tampa Electric Company ("Tampa Electric" or
12 "company") as Director, Engineering in the Energy
13 Delivery Department.

14
15 **Q.** Are you the same Regan B. Haines that filed Direct
16 Testimony in this proceeding?

17
18 **A.** Yes, I am.

19
20 **Q.** What is the purpose of your rebuttal testimony in this
21 proceeding?

22
23 **A.** The purpose of my rebuttal testimony is to address
24 serious errors and shortcomings in opposition to certain
25 aspects of Tampa Electric's Petition for an Increase in

1 Base Rates made by Helmuth W. Shultz, III and Hugh
2 Larkin, Jr., both on behalf of the Office of Public
3 Counsel ("OPC") and by Jeffry Pollock on behalf of The
4 Florida Industrial Power Users Group ("FIPUG") in
5 testimony filed on November 26, 2008.

6
7 **Q.** Have you prepared an exhibit supporting your rebuttal
8 testimony?

9
10 **A.** Yes, I have. My Rebuttal Exhibit No. ___ (RBH-2) consists
11 of the following two documents, which were prepared by
12 me or under my direction and supervision:

13 Document No. 1 2009 Substation Preventive Maintenance
14 Document No. 2 2002 through 2008 SAIDI Goals and
15 Performance

16
17 **Q.** Please summarize the key concerns and disagreements you
18 have regarding the substance of witness Shultz's
19 testimony.

20
21 **A.** Mr. Shultz's testimony, at pages 21 through 27, narrowly
22 objects to four aspects of Tampa Electric's proposed
23 transmission and distribution maintenance programs for 1)
24 tree trimming, 2) pole inspections, 3) transmission
25 inspections, and 4) substation preventative maintenance.

1 He also reaches incorrect conclusions about reliability
2 incentive compensation targets. The recommendations
3 proposed by Mr. Shultz are based on inaccurate
4 information and, therefore, his recommended adjustments
5 to Tampa Electric's base rate increase are incorrect and
6 inappropriate.

7
8 **TREE TRIMMING**

9 **Q.** What is your response to Mr. Shultz's objection to Tampa
10 Electric's proposed tree trimming expenditures?

11
12 **A.** Although I have numerous issues with Mr. Schultz's
13 objections to the company's tree trimming practices and
14 projected expenses, he is correct in his assessment on
15 page 21 of his direct testimony that the transmission
16 request is reasonable. However, throughout his
17 testimony, Mr. Shultz fails to recognize and discuss the
18 reasons that Tampa Electric has committed to meet its
19 Commission-required three-year distribution tree trim
20 cycle by 2010. As stated in my direct testimony, "Tampa
21 Electric is increasing its vegetation management program
22 to establish and maintain a three-year distribution
23 system trimming cycle in order to comply with the
24 Commission's requirements for storm hardening." Tampa
25 Electric's commitment and this requirement is the result

1 of many workshops and due diligence by this Commission on
2 the benefits of tree trimming as it relates to storm
3 hardening and reducing outages and improving restoration
4 following a major storm event. Tampa Electric has
5 testified previously on its experiences with hurricanes
6 and the damage that trees cause. The company believes and
7 agrees with the Commission that investing in additional
8 tree trimming activity now should reduce the number of
9 outages and possibly reduce overall restoration costs
10 following a major storm event.

11

12 **Q.** Did Mr. Schultz fairly represent the funding levels for
13 tree trimming approved in the company's last base rate
14 proceeding 16 years ago?

15

16 **A.** No. While Tampa Electric did request funding for a two-
17 year tree trim cycle in its last base rate proceeding in
18 1992, the Commission actually approved funding to support
19 a four-year cycle. Since that time, there have been
20 years when the company was able to trim more than 25
21 percent of its system (equal to a four-year cycle) and
22 some years when the company trimmed less. Many factors
23 are considered and weighed each year such as the circuits
24 requiring trimming and other maintenance programs. Since
25 the company's last rate proceeding, the impacts of

1 increased hurricane activity have been a major focal
2 point for this Commission and the need for increased tree
3 trimming has been debated and reestablished.

4
5 **Q.** Do you agree with Mr. Schultz assessment that the costs
6 for distribution tree trimming are excessive?

7
8 **A.** No I do not. In my direct testimony, I partially
9 attribute increased contractor rates to escalated fuel
10 costs but I also state, "per unit costs for vegetation
11 management have also grown at a faster pace than
12 inflation. This is primarily due to the competition for
13 resources as all electric utilities are responding to
14 this Commission's policies requiring more aggressive tree
15 trimming activity as well as increasing contractor rates
16 mainly caused by escalating fuel costs." My point is
17 that contractor rates have increased at a greater rate
18 than CPI due to increased demand for these resources and
19 increased fuel costs. The company based its 2009
20 projected expenditures on known contract rates along with
21 other reasonable cost estimates.

22
23 **Q.** Do you agree with Mr. Schultz's statement on page 22 that
24 the company "does not know how many miles on the system
25 actually requires trimming per year"?

1 **A.** No. That is an outrageous allegation. Of course the
2 company knows how many miles are in its system and what
3 needs to be trimmed. Mr. Shultz's recommendation that
4 the company receive approval for funding only 1,530 miles
5 per year is equally incorrect. Not only is the logic he
6 uses to calculate the miles flawed, but such an
7 adjustment would place the company on a four-year tree
8 trim cycle which conflicts with this Commission's storm
9 hardening order.

10
11 **Q.** Please describe the company's plan in more detail and be
12 more specific as to how Mr. Schultz's recommendation
13 contradicts it.

14
15 **A.** Tampa Electric's vegetation management program includes
16 trimming approximately one-third of its distribution
17 system or 2,040 circuit miles each year on average. Mr.
18 Shultz states that the company trimming all 6,121 miles
19 of overhead distribution lines is not required because
20 trees do not exist along all the miles. While this is
21 true, this is not how the company has historically
22 tracked or reported miles trimmed to the Commission.
23 Tree conditions can change from year to year due to
24 different tree species growth rates, amount of rain, and
25 tree removals and additions. Because of these factors,

1 the company physically inspects every mile of its system
2 regardless of whether it trims trees every three years.
3 The number of miles trimmed each year by the company and
4 reported to the Commission reflects the total miles
5 inspected and/or trimmed which includes some miles that
6 have no vegetation. Therefore, Mr. Shultz's suggestion
7 that the actual miles requiring trimming and associated
8 costs should be adjusted is inaccurate and inconsistent
9 with how the company reports miles trimmed. The \$7,897
10 cost per mile figure that Mr. Shultz references is a
11 total cost which includes both circuit miles with and
12 without trees. To translate that cost to only those
13 circuit miles with trees would result in a significantly
14 higher cost per mile.

15
16 **Q.** Based on recent experience, do you have any reason to
17 believe that the company's estimated costs for 2009 are
18 not reasonable?

19
20 **A.** No. In 2007, the company spent approximately \$10.3
21 million and trimmed roughly 22 percent of its
22 distribution system. Applying a four percent contractor
23 increase each year, the company would need \$11.2 million
24 to trim 22 percent. Given recent experience with costs,
25 it is very reasonable to expect that \$16 million will be

1 required to trim approximately 33 percent of the
2 distribution system by 2010. In 2009, the company plans
3 to ramp up the additional tree trim resources needed to
4 trim 29 percent of the distribution system. The company
5 supports this Commission's policies with respect to a
6 three-year trim cycle and believes it creates the right
7 balance to minimize the number of outages following a
8 major storm event.

9
10 **POLE AND TRANSMISSION STRUCTURE INSPECTIONS**

11 **Q.** What is your response to Mr. Shultz's objection to the
12 company's proposed pole inspection program?

13
14 **A.** As with tree trimming, Mr. Schultz completely ignores
15 Commission directives. Tampa Electric's pole inspection
16 plan was filed and approved by the Commission in Order
17 No. PSC-06-0778-PAA-EU issued on September 18, 2006. The
18 proposed budget for the 2009 pole inspection program is
19 appropriate and necessary to meet the Commission's
20 requirements.

21
22 Mr. Shultz's attempt to reduce the company's request by
23 using 2007 per unit cost information to project 2009 cost
24 requirements is flawed for several reasons. First, the
25 \$30.63 average cost per pole inspection in 2007 used by

1 Mr. Shultz does not include the comprehensive pole
2 loading analysis the company is required to do for all
3 joint use poles, which was included in the company's 2009
4 pole inspection budget. Secondly, the contractor used by
5 the company to perform this work has escalated its rates
6 at a greater rate than the index referenced by Mr.
7 Shultz. Finally, the 40,750 poles to be inspected each
8 year include both distribution and transmission poles
9 which have different rates. Thus far in 2008, the
10 company has experienced a rate of \$33.03 per distribution
11 pole inspection. Once a four percent contractor price
12 increase is factored in, the projected 2009 cost per
13 distribution pole inspection will increase to \$34.35.
14 When this is applied to the 37,500 distribution poles to
15 be inspected annually (one-eighth of the system), the
16 proposed budget is \$1,288,170. Finally, when the
17 budgeted \$147,844 for transmission pole inspections and
18 \$95,892 for comprehensive loading analysis are included,
19 the total 2009 budget is reasonable. The company's
20 estimate is based on actual rates rather than the
21 arbitrarily adjusted rates used by Mr. Schultz. He is
22 simply asking the Commission to ignore reality.

23
24 Q. What is your response to Mr. Shultz's objection to the
25 company's proposed transmission structure inspection

1 program?

2

3 **A.** Once again, Mr. Schultz ignores this Commission's orders.
4 Transmission structure inspections and repair is another
5 element of the Commission's storm hardening requirements.
6 The company's transmission structure inspection program
7 was filed and approved by the Commission as part of its
8 Ten Point Storm Hardening Plan, in Order No. PSC-06-0144-
9 PAA-EI issued December 28, 2007 in Docket No. 070927-EI.

10

11 Because transmission structure inspection activities have
12 increased for all utilities in the state, the costs for
13 these inspections have increased significantly since
14 2005. The new inspection requirements were first put
15 into place in 2007 and now include infrared and above-
16 ground type inspections which were not performed in all
17 of the years that Mr. Shultz utilized in his cost
18 averaging. The costs of infrared and above-ground
19 inspections have increased by 33 percent and 28 percent,
20 respectively, since 2005.

21

22 The company's 2009 budget also includes \$29,000 for
23 lattice tower inspections, something that has not been
24 performed recently but is now required for the
25 foreseeable future given the aging infrastructure.

1 Finally, while the transmission structure inspections
2 have been occurring since the Commission's storm
3 hardening rules were first established, all of the
4 identified repairs as a result of the inspections must
5 now be made. The company expects that it will need
6 \$300,000 annually to make these repairs.

7
8 **Q.** Based on recent experience, do you have any reason to
9 believe that the company's estimated costs for 2009 for
10 pole and transmission structure inspections are not
11 reasonable?

12
13 **A.** No, I do not. These estimated costs remain reasonable
14 and should be used in establishing the company's revenue
15 requirements in this proceeding.

16
17 **SUBSTATION PREVENTIVE MAINTENANCE**

18 **Q.** What is your response to Mr. Shultz's objection to the
19 company's proposed substation preventive maintenance
20 program?

21
22 **A.** There are several elements of Mr. Shultz's testimony
23 related to substation maintenance that are misleading.
24 First, the 2007 costs he references are not
25 representative of all activities that are needed in 2009.

1 Two thousand seven was not a typical year for circuit
2 breaker maintenance; therefore, it is misleading to use
3 it to project 2009 costs. For example, there were 23
4 fewer circuit breakers that needed to be maintained than
5 in 2009 at an additional cost of \$28,000. There were
6 also changes made for classifying oil test costs from
7 corrective maintenance to preventative maintenance late
8 in 2007 that creates an apples and oranges comparison.
9 This change amounts to an additional \$17,000 needed in
10 2009. Finally, the contractor costs for North American
11 Electric Reliability Corporation ("NERC") required relay
12 testing have increased at a higher rate than CPI and also
13 at a higher rate than was experienced in 2007, resulting
14 in additional costs of \$80,000 in 2009. Given the
15 extensiveness of NERC's relay standards and the lessons
16 learned from testing, Tampa Electric plans to test all of
17 its relays. The yearly additional cost is \$429,000 which
18 includes two additional relay testers that have been
19 included in headcount numbers.

20
21 Finally for 2008 and 2009, the substation condition-based
22 preventative maintenance included annual substation
23 inspection costs, but the 2003 through 2007 historical
24 costs did not. For comparison purposes, 2009 condition-
25 based preventative substation maintenance should be

1 \$1,979,010 as shown in Document No. 1 of my rebuttal
2 exhibit.

3

4 **Q.** Based on recent experience, do you have any reason to
5 believe that the company's estimated costs for 2009 for
6 substation preventive maintenance are not reasonable?

7

8 **A.** No. In fact, based on the company's experience in 2008,
9 the costs are most likely understated.

10

11 **SAIDI INCENTIVE COMPENSATION TARGETS**

12 **Q.** Do you agree with Mr. Shultz's claims that the company's
13 SAIDI incentive compensation goal targets are set such
14 that employees are not required to improve their
15 performance?

16

17 **A.** No, I do not. Mr. Shultz's assertion that the company
18 sets its SAIDI reliability goal in such a manner that
19 employees are not required to improve their performance
20 or the service provided to our customers shows a lack of
21 appreciation and understanding of electric operations.
22 While Tampa Electric witness Dianne Merrill addresses
23 incentive compensation in her rebuttal testimony, I will
24 provide more detail on how the goal is set and elements
25 that can have a significant impact on actual achievement.

1 Document No. 2 of my rebuttal exhibit illustrates the
2 company's SAIDI goals and actual performance since 2002.
3 The company's SAIDI performance varies significantly from
4 year to year and there are numerous drivers as shown in
5 Document No. 2. Certainly the severity of storm season
6 has an impact and this does not just include hurricanes.
7 The Tampa Bay area is the lightning capital of the world
8 and summer storms can significantly impact SAIDI. For
9 example, in 2003 outage totals increased over 2002 totals
10 by 369 outages (three percent) due to extensive severe
11 weather.

12
13 Operational changes and system enhancements can greatly
14 impact reliability results. For example in late 2001,
15 the company migrated to a new outage management system
16 ("OMS") that featured enhanced measuring capabilities
17 over the previous OMS system. These capabilities
18 generally included the ability to more accurately capture
19 customer outages and related outage times. System
20 enhancements also allowed for step-restoration to be
21 captured, which matches the correct number of customers
22 to associated restoration times. Therefore, 2002
23 represented the first full year using the new OMS system
24 and the company attributes an increase in SAIDI from 2001
25 to 2002 and 2003 to the new system enhancements. In

1 addition, the company conducted training for the Trouble
2 Department that year which improved their knowledge and
3 use of the new system. Even with these impacts in actual
4 results, the company continued to set aggressive SAIDI
5 goals through 2005 when the impact of the OMS to SAIDI
6 was fully realized.

7
8 **Q.** Do you agree with Mr. Shultz's insinuation that the
9 company sets its goals so that they can easily be met and
10 that employees are not encouraged to improve?

11
12 **A.** Absolutely not. Document No. 2 of my rebuttal exhibit
13 illustrates that the company has only met its SAIDI goal
14 twice since 2002. The company's objective is to set
15 goals that can be accomplished, but are a stretch to do
16 so. The fact that the goals were set at a level which
17 was only met twice since 2002 demonstrates how high the
18 bar has been set to encourage improvement.

19
20 Operational improvements are constantly encouraged at
21 Tampa Electric. As I highlighted in my direct testimony,
22 the company has accomplished top quartile performance
23 compared to peer utilities since 2002 because of several
24 recently implemented programs designed to improve system
25 reliability. Mr. Schultz is completely wrong to conclude

1 that goals are set so that they can be easily met and
2 employees are not encouraged to improve.

3
4 **TRANSMISSION BASE RATE ADJUSTMENT**

5 **Q.** Please summarize the key concerns and disagreements you
6 have regarding the substance of witness Larkin's
7 testimony concerning the company's proposed Transmission
8 Base Rate Adjustment ("TBRA") clause.

9
10 **A.** There are two primary areas where I disagree with Mr.
11 Larkin's testimony. First the Federal Energy Regulatory
12 Commission ("FERC"), NERC, and the Florida Reliability
13 Coordinating Council ("FRCC") significantly impact Tampa
14 Electric's transmission construction planning and costs.
15 Second, the appropriateness of a TBRA is consistent with
16 that of other cost adjustment clauses.

17
18 **Q.** Please explain how the FERC, NERC, and FRCC can have a
19 direct impact on Tampa Electric's transmission
20 construction costs.

21
22 **A.** The FERC, NERC and FRCC's impact on the company's
23 transmission planning and associated costs have
24 significantly changed in recent years. NERC's
25 reliability standards dictate the planning and operating

1 criteria for the transmission system that all utilities
2 must meet. The criteria can and does have a direct
3 impact on what transmission gets constructed and when it
4 is required.

5
6 Under the Energy Policy Act of 2005, the FERC has the
7 right to mandate reliability standards and enforce them
8 in multiple ways including by assessing civil penalties
9 for non-compliance. In 2007, the FERC approved the
10 delegation of compliance, monitoring, and enforcement of
11 reliability standards for Florida from the NERC to the
12 FRCC. Given this, transmission projects identified and
13 required to meet these reliability standards must be
14 constructed and they must be completed in a proper
15 timeframe to meet the NERC criteria. This is analogous
16 to a government mandate. There is no flexibility with
17 meeting these reliability standards. In addition, the
18 Commission looks to the FRCC to provide input on the
19 reliability of the transmission grid in Florida and
20 recent history shows their support of projects
21 recommended by the FRCC.

22
23 **Q.** Are there any other impacts from the FERC, NERC, or FRCC
24 that make transmission construction costs difficult to
25 anticipate?

1 **A.** Yes. While at one time transmission planning and
2 construction was as Mr. Pollock describes on page 75 of
3 his testimony, "as a member of the FRCC and the party
4 responsible for constructing new facilities, TECO has
5 some control over the [sic] both the timing and cost",
6 and as Mr. Larkin describes on page 10 of his testimony
7 that "The facilities which are constructed on the Tampa
8 Electric system are fully under the control of the
9 Company and the Florida Public Service Commission", the
10 process has changed and clearly Messrs. Pollock and
11 Larkin have not been updated. While Florida never
12 adopted a regional transmission organization with a cost
13 allocation methodology for the sharing of regional
14 transmission costs, the FRCC did develop a cost
15 allocation methodology in response to FERC Order 890 in
16 December 2007. This methodology is a settlement
17 structure that parties agree to use when there are third
18 party impacts resulting in the construction of new
19 transmission facilities. Under the methodology, costs
20 are allocated among multiple entities who contribute to
21 the need for the third party facilities and who benefit
22 from their construction. While this methodology is meant
23 to allow for a fair allocation of costs based on who is
24 causing the impact, the allocation of these costs will be
25 an involved process among multiple parties and it will be

1 very difficult to predict each party's share or cost
2 responsibility.

3
4 Another unpredictable aspect for planning and
5 constructing transmission facilities is the FERC
6 transmission tariff mandate that a transmission provider
7 build transmission needed for generator interconnection
8 requests for firm transmission service. As existing
9 transmission capacity has been consumed over the last few
10 years with these requests for generator interconnection
11 and firm transmission service, new requests are requiring
12 the construction of new transmission facilities. These
13 requests are not predictable in nature but the
14 construction of the facilities requested is necessary to
15 maintain safe and reliable electric service in peninsular
16 Florida.

17
18 **Q.** Please comment on Mr. Pollock's statement, on page 76 of
19 his testimony, that "transmission plant additions will be
20 offset to some degree by the growth in revenues stemming
21 from growing electricity sales."

22
23 **A.** Mr. Pollock is incorrect. While there could be some
24 peripheral benefits, the primary benefits come by way of
25 reliability and possibly lower fuel costs from off-system

1 purchases and sales.

2

3 **Q.** How is the TBRA similar to other cost recovery clauses?

4

5 **A.** I am not an expert on cost recovery clauses and Tampa
6 Electric witness Jeffrey Chronister will address this
7 issue in more detail in his rebuttal testimony. However,
8 Mr. Pollock argues that "costs that are subject to
9 recovery outside of a general rate case should be
10 "material, volatile, and beyond the utility's control"
11 and that transmission investment does not meet these
12 criteria. I disagree. Given the authority of FERC to
13 mandate reliability standards and enforce them with civil
14 penalties, transmission investment can be "beyond the
15 utility's control". Transmission investment can be
16 volatile given third party impacts and the FRCC cost
17 allocation methodology as stated above.

18

19 **Q.** After reading the intervenors' testimony, are you still
20 convinced that a TBRA is a necessary mechanism?

21

22 **A.** Yes I am. The TBRA will result in lower costs by
23 facilitating a coordinated and cost-effective means of
24 planning and constructing transmission for the entire
25 FRCC region. Moreover, this will result in improved

1 reliability and lower fuel costs by enhancing generation
2 dispatch for the entire region.

3
4 **SUMMARY OF REBUTTAL TESTIMONY**

5 **Q.** Please summarize your rebuttal testimony.

6
7 **A.** There are several areas of the intervenors' testimony
8 regarding tree trimming and system maintenance and the
9 company's proposed TBRA clause that I address. Mr.
10 Shultz's claim that the proposed tree trimming, pole
11 inspection, and transmission structure maintenance
12 expenses are excessive is not based on accurate
13 information. These three elements of Tampa Electric's
14 storm hardening plan have been reviewed and approved by
15 this Commission and are critical to improving the
16 company's performance following a major storm event.
17 These activities are necessary, prudent and in compliance
18 with the Commission's storm hardening requirements. The
19 costs are based on recent performance and established
20 contractor prices. Mr. Shultz's statements about
21 preventative substation maintenance are inaccurate and
22 the proposed amounts are prudent and will allow Tampa
23 Electric to perform the appropriate levels of relay
24 testing and breaker maintenance to meet NERC relay
25 standards.

1 In addition, Messrs. Larkin and Pollock have not fairly
2 represented the challenges facing Tampa Electric, the
3 state of Florida, and the country when it comes to the
4 electric transmission grid and the new requirements
5 established by the FERC, NERC, and FRCC. The proposed
6 TBRA clause will allow the company to timely recover its
7 transmission costs associated with 230 kV and above
8 transmission projects submitted for FRCC review. Given
9 the authority of FERC to mandate reliability standards
10 and enforce them with civil penalties, transmission
11 investment can be "beyond the utility's control."
12 Transmission investment can be volatile given unforeseen
13 third party impacts and the FRCC's cost allocation
14 methodology. For these reasons, I believe the TBRA
15 structure is an efficient and effective approach to
16 addressing these new challenges.

17
18 **Q.** Does this conclude your rebuttal testimony?

19
20 **A.** Yes, it does.
21
22
23
24
25

1 BY MR. HART:

2 Q. Would you please summarize your direct and
3 rebuttal testimony?

4 A. Yes. Good afternoon, Commissioners. The
5 purpose of my direct testimony is to summarize Tampa
6 Electric's transmission and distribution related capital
7 and O&M expenses for the 2009 test year. I have also
8 filed rebuttal testimony which addresses the
9 shortcomings in testimony filed on behalf of the OPC and
10 FIPUG regarding the company's tree trimming, pole
11 inspection, transmission structure, and substation
12 maintenance plans, as well as the company's reliability
13 goals and proposed transmission base rate adjustment
14 clause.

15 Since the company's last rate case 16 years
16 ago, significant changes have occurred that have
17 impacted the transmission and distribution side of Tampa
18 Electric's business. While increasing our customer base
19 by 200,000 customers has certainly had an effect, some
20 of the other factors that have affected the way we plan,
21 engineer, construct, and operate our delivery system
22 include the following:

23 Increased hurricane activity has impacted the
24 state more than ever before, causing a heightened focus
25 to hardening our delivery system infrastructure.

1 The security and reliability of the nation's
2 transmission grid has and will continue to require more
3 transmission expansion in our service territory over the
4 next five to ten years than we have experienced over the
5 last 20 years.

6 And material and equipment costs have
7 significantly outpaced inflation, putting upward
8 pressure on our costs. Tampa Electric forecasts that it
9 will invest almost \$219 million in capital and
10 \$76 million in O&M for transmission and distribution in
11 2009. While the company's transmission and distribution
12 related capital and O&M expenses have increased over the
13 years, we have managed to remain below the Commission's
14 O&M benchmark. The majority of the company's T&D
15 related increases for 2009 are attributable to the
16 construction of major high voltage transmission
17 facilities needed to meet NERC standards and additional
18 tree trimming and system maintenance expenses for
19 hardening our system, as ordered by the Commission.

20 Overall, Tampa Electric has done well at
21 maintaining its system reliability and has ranked within
22 the first quartile of comparable utilities, while
23 effectively managing its resources. However, the
24 company is facing new challenges and requirements that
25 necessitate additional investment in our T&D

1 infrastructure.

2 Tampa Electric has proposed a transmission
3 base rate adjustment clause to allow for timely recovery
4 of its transmission costs associated with the expected
5 increase in 230 kV and above transmission projects that
6 are required by the FRCC regional transmission planning
7 process to meet NERC standards. This clause is
8 appropriate and necessary given the changes in how
9 regional transmission planning is performed and how
10 associated costs are allocated to peninsular Florida
11 utilities. The company's proposed T&D capital and O&M
12 budgets for 2009 represent an appropriate balance to
13 provide safe and reliable service that will benefit our
14 customers at a reasonable price.

15 This concludes my summary.

16 MR. HART: Mr. Haines is tendered for
17 cross-examination.

18 CHAIRMAN CARTER: Ms. Christensen, you're
19 recognized.

20 MS. CHRISTENSEN: Thank you.

21 CROSS-EXAMINATION

22 BY MS. CHRISTENSEN:

23 Q. Good morning, Mr. Haines.

24 A. Good morning, or good afternoon. I'm
25 following your lead.

1 CHAIRMAN CARTER: It's Groundhog Day.

2 MS. CHRISTENSEN: Excuse me. I hope not.

3 BY MS. CHRISTENSEN:

4 Q. Mr. Haines, let me -- I'm going to ask you a
5 few questions about Tampa's tree trimming and its cycle.
6 Is it correct that there are 6,121 distribution miles in
7 Tampa Electric's system?

8 A. That is correct.

9 Q. Okay. And how many miles actually required
10 trimming to be performed?

11 A. Well, that number is our overhead distribution
12 miles. And in order to comply with the three-year tree
13 trim cycle, we would be trimming roughly 2,040 miles
14 every year on average.

15 Q. Okay. Of those 2,040 miles, do you know how
16 many of those miles actually required trimming versus
17 covered miles?

18 A. Well, as I stated in my rebuttal testimony,
19 that can change from year to year, as trees grows, as
20 trees are planted, as trees are removed. So what we do
21 is, we send out crews out, and they patrol every
22 circuit, every mile of every circuit, and cut what is
23 needed to be trimmed in order to meet our
24 specifications.

25 Q. Okay. So the answer to the question would be

1 that you don't possess or have the data or a method of
2 identifying the total system miles that do not require
3 trimming or maintenance because vegetation is in the
4 right-of-ways or does not exist?

5 A. I guess the answer to the question is, it
6 changes every year, so we patrol the circuits that are
7 designated for trimming and trim what's needed. It's
8 hard to say at any given time what's required for
9 trimming without actually physically going out there and
10 looking at the circuits.

11 Q. Okay. In response to interrogatory number
12 109, where it was asked -- where the company was asked a
13 question regarding how many of the system's miles
14 actually required tree trimming, the company responded
15 with the statement that the company does not possess the
16 requested data or have a method of identifying the total
17 system miles that do not require trimming or maintenance
18 because vegetation is in the right-of-way or does not
19 exist. Does that sound correct to you?

20 A. That sounds correct, yes.

21 Q. Now, is it the company's goal to be on a
22 three-year tree trimming cycle?

23 A. That's correct.

24 Q. And it would be correct that the cycle would
25 be based on the system miles and not actual miles that

1 require trimming?

2 A. That's correct. That's typically how we have
3 reported miles that are trimmed each year and I believe
4 how the other utilities in the state report trimmed
5 miles each year.

6 Q. Okay. And I think you had said this earlier,
7 but I want to confirm that 2,040 is the system miles
8 that would be ideally trimmed in a year.

9 A. That is a third of our overall overhead
10 distribution system miles, yes.

11 Q. And is it correct that the company in response
12 to the Commission's storm hardening initiative
13 determined that it would be on a three-year tree
14 trimming cycle?

15 A. Yes. We are transitioning to a three-year
16 tree trim cycle.

17 Q. Okay. Now, in 2006, would you agree that
18 1,108 miles were trimmed?

19 A. Are you referring to an interrogatory
20 response?

21 Q. Would referring to interrogatory response
22 number 67 help refresh your recollection, or if you have
23 it there?

24 A. That number sounds familiar. I just don't
25 have the exact number committed to memory.

1 Q. I'm specifically referring to number 67.

2 A. If that's what we responded in our
3 interrogatory, then that should be accurate.

4 Q. I'm going to be asking a few more questions,
5 though. If it would help, I can give you a copy.

6 A. Which number? I have a copy.

7 Q. Sixty-seven.

8 A. Okay.

9 Q. Okay. And I think we agreed that the number
10 of miles that were trimmed in 2006 was 1,108 miles;
11 correct?

12 A. That's correct.

13 Q. Okay. And that's approximately 18 percent of
14 your system?

15 A. If you've done the math, that sounds about
16 right.

17 Q. And in 2007, Tampa Electric trimmed
18 1,307 miles; correct?

19 A. That's correct.

20 Q. And that would be approximately 21 percent of
21 the total system miles?

22 A. That's correct.

23 Q. Okay. And is it correct that Tampa Electric
24 budgeted for 1,141 miles to be trimmed in 2008?

25 A. Could you repeat that number?

1 Q. 1,141.

2 A. That sounds correct.

3 Q. Okay. And that would have been about
4 18 percent of Tampa Electric's total system miles?

5 A. Correct.

6 Q. Okay. Now, would it be also correct to say
7 while Tampa Electric was working on a plan to achieve a
8 three-year trim cycle, it budgeted in 2008 a decrease in
9 the number of miles to be trimmed?

10 A. What actually happened was -- no. In 2007, at
11 the end of the year, we trimmed additional miles. We
12 had additional contractors on-site and went ahead and
13 accelerated some of the 2008 trimming into the last part
14 of 2007.

15 Q. Looking at Tampa Electric's budgeted number
16 for 2009, is it correct that Tampa Electric budgeted for
17 1,753 miles to be trimmed?

18 A. That's correct.

19 Q. And that would be approximately 28.6 percent
20 of the system; correct?

21 A. Yes.

22 Q. Now, let me refer you to page 7 of your
23 rebuttal testimony.

24 A. Okay.

25 Q. Starting at line 24, the sentence that begins

1 with, "Given recent experience with costs, it is very
2 reasonable to expect that 16 million will be required to
3 trim approximately 33 percent of the distribution system
4 by 2010." Now, is it correct that the company is
5 requesting \$16,073,444 to trim 29 percent of its system
6 miles in 2009?

7 A. That is correct.

8 Q. Now, Mr. Haines, the Commission approved
9 recovery for a four-year trim cycle that the company
10 proposed in the last rate case; is that not correct?

11 A. Yes.

12 Q. And in 2002, again referring to interrogatory
13 number 67, Tampa Electric trimmed 1,326 miles; correct?

14 A. Yes.

15 Q. And that's approximately 21 percent of your
16 system miles?

17 A. Yes.

18 Q. And in 2003, Tampa Electric trimmed only
19 786 miles; correct?

20 A. That is correct.

21 Q. And that would be approximately 12 percent of
22 the system miles?

23 A. That is correct. And again, the four-year
24 cycle is on average over a period of time. You try to
25 trim your entire system over a four-year period, so it's

1 going to fluctuate. It's not going to be exactly
2 25 percent on a four-year cycle every year.

3 Q. Okay. Well, let me ask you, in 2004, Tampa
4 Electric trimmed 941 miles; correct?

5 A. That is correct.

6 Q. And that's approximately 15 percent of your
7 system?

8 A. That is correct.

9 Q. And in 2005, Tampa Electric trimmed
10 1,064 miles; correct?

11 A. That is correct. But I would also point back
12 on that same interrogatory response to the years 1998,
13 '99 and 2000, where we were trimming above the
14 25 percent. So again, you have to look at a period of
15 time and look at the average cycle that you're trimming
16 your system.

17 Q. And for 2005, would you agree that that was
18 only 17 percent of the system?

19 A. I haven't done the math, but I'm going to --
20 yes.

21 Q. Okay. And you would agree in the years that
22 we just discussed, 2002 through 2005, Tampa Electric did
23 not trim the equivalent of 25 percent of the system
24 miles?

25 A. That is correct.

1 Q. Okay. And you would also agree that since the
2 company maintained a less than four-year cycle, that the
3 costs would be higher to return to a four-year or less
4 cycle than it would have been if the company had
5 maintained the four-year cycle to begin with that was
6 approved in the last rate case?

7 A. Could you repeat that question?

8 Q. Certainly. Essentially, would you agree that
9 the company, had it maintained the four-year cycle which
10 was approved in the last rate case, it would have been
11 less costly to maintain that four-year cycle or less if
12 the company had all along maintained the four-year cycle
13 which was approved?

14 A. I would agree, but at the same time, I would
15 point to 2004, when we were impacted by three
16 hurricanes. There was a significant amount of tree
17 trimming that was performed following those hurricanes
18 that we would get benefit from that you won't see in
19 these numbers, because this reflects more the day-to-day
20 type trimming that our crews do.

21 Q. Okay. Would you agree that there's no
22 quantifiable benefit reflected in the 2009 O&M expense
23 as a result of the increase in the trimming proposed?

24 A. The proposed trimming is to do 1,753 miles for
25 16 million, which is what -- based on the current rates

1 we're seeing on a per mile basis is what it's going to
2 take to trim 1,753 miles. Moving forward, we think we
3 can get additional miles done for the same cost, taking
4 into account -- I think what your point is is that when
5 you start to trim, if you stay on top of that cycle,
6 you're going to have more cost-effective trimming. It's
7 not going to cost you as much in the long run. So that
8 is factored into our costs, as far as if you look at
9 16 million to trim 1,753 miles, which is not a
10 three-year cycle, but for those same costs, we believe
11 we can manage a three-year cycle moving forward.

12 Q. Okay. But I'm not sure you did answer my
13 question, which was that there were no quantifiable
14 benefits reflected in the 2009 O&M expenses as a result
15 of the increased trimming that you proposed; is that
16 correct?

17 A. I'm not sure if I follow your question. Could
18 you maybe rephrase it?

19 Q. You haven't shown any reductions in O&M
20 expenses related to this increased tree trimming in the
21 2009 projected test year; correct?

22 A. Such as?

23 Q. Such as reduced -- others types of reduced
24 maintenance.

25 A. We covered this a little bit in our

1 deposition. Tree trimming is a maintenance expense.
2 It's a maintenance activity. So I'm not sure what other
3 maintenance activities would be decreased due to
4 additional tree trimming, because other maintenance
5 activities are replacing aged equipment or equipment
6 that has failed. So tree trimming is going to have --
7 not have a whole lot of impact on those types of
8 expenses.

9 Q. Okay.

10 A. It's more reducing outages and reducing
11 impacts following a hurricane and improving restoration
12 times following a hurricane, is what the objective is.

13 Q. Okay. Do you agree that storms cause outages
14 each year, not necessarily just hurricanes, but other
15 types of storms?

16 A. Yes.

17 Q. Okay. And would you agree that if there's an
18 increase in trimming, there should be some benefit in
19 the cost reductions for those types of outages as well?

20 A. For restoration, I agree, yes.

21 Q. Would you agree that the contracts for
22 trimming are on a time and equipment basis?

23 A. Yes, they are.

24 Q. Okay. And is it true that the contracts are
25 subject to an adjustment if the fuel costs change?

1 A. Yes. If the cost swings more than plus or
2 minus 5 percent of the negotiated range, then there's a
3 true-up in our current contracts either way to take into
4 account those fuel cost swings.

5 Q. Okay. And let me refer you to interrogatory
6 response number 83. Do you have that in front of you?

7 A. Yes. Okay.

8 Q. Okay. Now, referring to that interrogatory
9 response, would you agree that the cost per overhead
10 mile for 2008 for planned trimming is \$7,200?

11 A. Yes, it is.

12 Q. Okay. And would you also agree, referring to
13 that exhibit, that the cost per overhead mile for the
14 2009 planned trimming jumps to \$8,200?

15 A. Yes, it does. There are several factors as to
16 why that is occurring, including increased contractor
17 costs, because there's more competition for these tree
18 trimming resources in the state. The cost for that
19 service has outpaced inflation, and that's factored into
20 that, as well as the circuits that we have targeted to
21 be trimmed in 2009 are harder to trim circuits. That
22 is, a lot of the overhead facilities are in rear lots
23 behind our customers' homes, and they're more difficult
24 to get to, and therefore, it takes longer to trim those
25 types of circuits. So all that's factored into that

1 cost per mile projection.

2 Q. Okay. Would you agree that that represents an
3 increase of approximately 14 percent in one year?

4 A. That sounds about right, yes.

5 Q. Okay. Now, let me switch subjects a little
6 bit to pole inspections. The company has not quantified
7 any cost savings in 2009 for maintenance associated with
8 the increase in pole inspections; is that correct?

9 A. We have not recognized any quantifiable
10 savings with pole inspections. Pole inspections are
11 going to lead to additional costs as you identify poles
12 that need to be replaced. And based on the failure
13 rates that we're seeing, that's what we used to project
14 the capital costs associated with pole replacements.
15 And again, this is centered around the eight-year pole
16 inspection cycle that was passed by this Commission
17 during the hurricane hardening activities and workshops
18 that we had.

19 Q. Okay. Now, in your rebuttal testimony, you
20 took exception to Mr. Schultz's pole inspection
21 adjustment; is that correct?

22 A. That is correct.

23 Q. Okay. And one exception was that you noted on
24 page 8 of your rebuttal his use of the \$30.63 2007
25 average cost per inspection; correct?

1 A. That is correct.

2 Q. If you'll refer yourself to Mr. Schultz's
3 Schedule C-7.

4 A. Okay.

5 Q. Now, it was Schedule C-7 that you were
6 referring to in your rebuttal testimony; is that
7 correct?

8 A. That is correct.

9 Q. Now, do you have a copy of interrogatory --
10 Tampa Electric's response to interrogatory number 68 in
11 front of you?

12 A. Yes, I do.

13 Q. Okay. In looking at Tampa Electric's response
14 to interrogatory number 68, wouldn't you agree that it's
15 the source for the average rate used by Mr. Schultz?

16 A. For the years 2007 and prior, this is his
17 source.

18 Q. Okay.

19 A. There's different types of activities in the
20 numbers prior to 2007 and the numbers in 2008 that he's
21 comparing to.

22 Q. Okay. Well, let me ask you some additional
23 questions regarding interrogatory number 68. The
24 average inspection cost developed by Mr. Schultz
25 reflects both the transmission and distribution

1 inspections; correct?

2 A. He has combined those two, yes, he has.

3 Q. And you also stated in your rebuttal testimony
4 on page 9 that the 40,750 pole count used by Mr. Schultz
5 in his calculation includes both transmission and
6 distribution poles; is that correct?

7 A. That's correct. There's approximately 37,500
8 distribution poles that we're inspecting and then
9 another over 3,000 transmission poles that we inspect
10 each year in order to meet the eight-year requirement,
11 and those poles -- the cost to inspect those poles are
12 at two different rates.

13 Q. Now, you would agree that Mr. Schultz made his
14 adjustment by comparing his calculated amount to the
15 2009 budgeted amount of \$1,573,778?

16 A. That's correct.

17 Q. And looking at Tampa Electric's response to
18 interrogatory number 71, if you have that in front of
19 you --

20 A. Okay.

21 Q. Isn't it correct that the projected 2009 cost
22 is 1,573,778?

23 A. It is. But if you look under that section
24 titled "Eight-year Pole Inspection Cycle Program," the
25 last line item is comprehensive loading analysis for

1 approximately \$96,000 a year. The \$1.573 million number
2 that you referenced is the total cost for the program.
3 The numbers that Mr. Schultz is using are the costs for
4 just the pole inspections.

5 Q. But you would agree that that \$1,573,778
6 includes both transmission and distribution pole
7 inspection; correct?

8 A. Yes. It includes that plus the comprehensive
9 loading analysis. So that last piece, comprehensive
10 loading analysis, is the activity that we're doing since
11 the storm hardening requirements to analyze how loaded
12 our poles are, to make sure they're not overloaded,
13 which would cause a failure if we get impacted by a high
14 wind event. That is a new activity that is not included
15 in the numbers Mr. Schultz used to compare to for 2007
16 and prior.

17 Q. But you would agree his recommended adjustment
18 is based on Tampa Electric's response, the 40,750 poles
19 per year on an eight-year cycle; correct?

20 A. It is, but the rate that he's calculating to
21 suggest it would be an appropriate rate is not an
22 accurate calculation.

23 Q. Let me move on to page 10 of your rebuttal
24 testimony. You state that the new requirements were put
25 in place in 2007 --

1 A. I'm sorry. One second, please. Page 10?

2 Q. Page 10, uh-huh. I have to find it myself.

3 Regarding the transmission structure
4 inspection program, you state that the new requirements
5 were put in place in 2007 and were not included in all
6 the years that Mr. Schultz utilized in his cost
7 averaging; is that correct?

8 A. That is correct.

9 Q. So it was your contention that Mr. Schultz
10 ignored the Commission orders because he was basing his
11 adjustment on averages that did not include the new
12 requirements that were put in place in 2007?

13 A. Yes. The issue with how Mr. Schultz
14 calculated his expense number for 2009 is using previous
15 numbers that did not include certain activities that
16 we're required to do since the hardening initiative, as
17 well as the costs for those services now have increased
18 and outpaced inflation. And so the costs that we've
19 reflected represent the activity that we need to do and
20 represent our current contract prices that have already
21 been negotiated and are accurate for the 2009 test year.

22 Q. Looking at Mr. Schultz's C-8 --

23 A. Okay.

24 Q. Specifically line 8, you would agree that
25 that's Mr. Schultz's calculated estimated cost?

1 A. 323,927?

2 Q. Correct.

3 A. Yes.

4 Q. And looking at the notation on the side, would
5 you agree that that refers to Tampa Electric's
6 interrogatory response number 69, which is based on
7 actual 2007 numbers?

8 A. It is 2007 numbers, yes.

9 Q. Okay. And would you agree that -- looking at
10 the reference on Schedule C-8, that the basis for the
11 schedule calculation is the actual 2007 numbers from POD
12 69?

13 A. The 302,195?

14 Q. Correct.

15 A. Yes.

16 Q. On page 11 of your rebuttal testimony, you
17 state that inspections have been occurring, and now the
18 company expects that they will need \$300,000 annually to
19 make repairs; is that correct?

20 A. That is correct. As we are inspecting more of
21 the transmission system, we're obviously finding things
22 that need to be repaired, and those things that are
23 critical, on an emergency type basis, we're correcting
24 those immediately.

25 But there are minor repairs such as woodpecker

1 holes and downed guy repairs that need to be made, that
2 are starting to accumulate, and we're developing a list
3 of those repairs. That is new as far as we're
4 identifying those things through the new inspection
5 program, and so those costs to repair those types of
6 items were not included in the 2007 or -- some in 2008,
7 but not in 2007, and they are included in the 2009 test
8 year. And that's approximately \$300,000 that we've
9 identified that's required to fix those minor type
10 repairs on an annual basis moving forward, and I think
11 that would explain the difference, the majority of the
12 difference between the number that Mr. Schultz has
13 calculated and what we've included in the budget.

14 Q. However, during your deposition, when you were
15 asked why the information on the \$300,000 was not
16 included in the initial filing, you stated that the
17 costs were in the initial filing; is that correct?

18 A. The costs are in the initial filing, and
19 they're included in the -- I believe it's 600 and --
20 \$642,773. Yes, they are included in that number.

21 Q. However, in your prefiled testimony, you don't
22 discuss the \$300,000 of repairs that are included in the
23 company's projected costs for 2009; is that correct?

24 A. Yes. I don't think I specifically mentioned
25 the \$300,000 for those types of repairs.

1 Q. And looking at the company's response to
2 interrogatory number 71, it would be also correct to say
3 that the \$300,000 was not specifically identified as
4 repairs?

5 A. Well, no, I don't agree with that. I believe
6 it is. If you look at the second line item under the
7 six-year transmission structure inspection cycle
8 program, that section is titled "Aboveground Inspection
9 and Related O&M Repairs." The related O&M repairs is
10 the 300,000 that we're referring to.

11 Q. But it's not specifically identified as a
12 separate line item?

13 A. We combined the aboveground inspection and the
14 related repairs in the 539,000, and 300,000 of that 539
15 is the repairs. We did not break it out separately.

16 Q. Okay. Now I want to turn your attention to
17 substation preventative maintenance. Do you identify
18 conditions based substation preventative maintenance as
19 a program for reliability on page 24 of your prefiled
20 testimony?

21 A. On page 24, we reference the costs associated
22 -- well, not specifically, but we mention the activities
23 of annual substation inspections, condition based
24 substation preventative maintenance, downtown network
25 inspections.

1 Q. Okay. Looking at that section of your
2 testimony, isn't it correct that you don't provide any
3 further detail on what condition based substation
4 preventative maintenance is and what the cost is
5 included in the 2009 filing?

6 A. In that section we do not. I would have to
7 look.

8 Q. And in fact, nowhere else in the prefiled
9 testimony, to your knowledge, do you provide any further
10 detail regarding the condition based substation
11 preventative maintenance; correct?

12 A. It's not broken out separately and identified
13 as substation maintenance, but it is spread in the
14 transmission and distribution maintenance activities
15 that are highlighted in document number 4 of my exhibit.

16 Q. Well, let's go back to interrogatory number
17 71. You would agree that nowhere in the response does
18 it provide the budgeted cost and the 2009 projected cost
19 for condition based substation preventative maintenance;
20 correct?

21 A. In interrogatory response 71?

22 Q. Correct.

23 A. Yes, it is, at the bottom. In the second
24 section from the bottom, condition based substation
25 preventative maintenance is broken out, distribution and

1 transmission. And for 2009, the total is \$2,256,610.

2 Q. Okay. So that's the 2008 and 2009 budgeted
3 and projected cost, respectively?

4 A. Yes.

5 Q. Now, looking at interrogatory response number
6 112, would you agree -- well, let me wait until you get
7 there.

8 A. Give me one second. 112?

9 Q. Uh-huh.

10 A. For some reason, I don't have a copy of that
11 response.

12 Q. Well, let me go ahead and just show you the
13 copy that I have.

14 A. Okay.

15 Q. Does the response provide any information or
16 explanation that would indicate that the 2003 through
17 2007 costs are not comparable to the 2008 and 2009 costs
18 regarding the comparative information that was
19 requested?

20 A. Well, it responds to the question, which is,
21 provide information for 2003 through 2007. So the
22 request did not ask us to compare to 2008 and 2009, the
23 way I read it.

24 Q. Let me ask you, on page 12 of your rebuttal
25 testimony, you indicate that Mr. Schultz has not

1 recognized an amount of \$554,000; correct?

2 A. Which line item, or line number?

3 Q. I think it's referring to the cost -- the
4 relay testing and the additional cost of 80,000 related
5 to that as well.

6 A. Yes.

7 Q. Okay. Now, is it correct that these are new
8 costs that you were describing for the first time in
9 your rebuttal testimony?

10 A. I think it's fair to say it's the first time
11 we've described in detail to that level what the
12 breakdown of the substation preventative maintenance
13 costs are.

14 Q. Okay. And on page 12, you identify an
15 additional 429,000 for relay testing; is that correct?

16 A. That is correct.

17 Q. And you indicate that this is an annual cost;
18 correct?

19 A. That is an annual cost moving forward, yes.

20 Q. Okay. Did you perform that testing, that
21 level of testing in 2007?

22 A. No, we did not.

23 Q. Okay. In your deposition, did you state that
24 Tampa Electric is proposing to restart this type of
25 testing starting in 2009?

1 A. Yes, I did.

2 Q. And how long has it been since you performed
3 this level of testing?

4 A. This testing is for 69 kV and 13 kV breakers,
5 or relays, excuse me. And we used to test those,
6 probably early 2000s. And as those relays are getting
7 older, we believe that it's appropriate and time to
8 start testing those relays again. It's more of an
9 industry standard. I believe it's a few years since
10 we've done the level of testing that we've included in
11 our test year.

12 Q. Okay. Well, let me just make sure I
13 understand. You would agree that you haven't done that
14 level of testing since the early 2000s?

15 A. That's correct.

16 Q. Okay. Referring to incentive compensation
17 targets on page 15 of your testimony --

18 A. Of my rebuttal?

19 Q. In your rebuttal testimony. You say the
20 company's objective is to set goals that can be
21 accomplished, but are a stretch to do so? Would you
22 agree that's the testimony?

23 A. That's correct.

24 Q. Okay. And you would agree that goals must be
25 set at a level that encourage improvement; correct?

1 A. That is correct.

2 Q. And you would also agree to improve, once a
3 goal has been reached, the bar must be continually
4 raised to increase improvement?

5 A. That's correct.

6 Q. Okay. Now, referring to the FRCC, would you
7 agree that the --

8 CHAIRMAN CARTER: Ms. Christensen, before you
9 go to your next -- hold your thought there for a moment.
10 We're off the record.

11 (Short recess.)

12 (Transcript follows in sequence in Volume 8.)

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CERTIFICATE OF REPORTER


STATE OF FLORIDA:

COUNTY OF LEON:

I, MARY ALLEN NEEL, Registered Professional Reporter, do hereby certify that the foregoing proceedings were taken before me at the time and place therein designated; that my shorthand notes were thereafter translated under my supervision; and the foregoing pages numbered 875 through 1079 are a true and correct record of the aforesaid proceedings.

I FURTHER CERTIFY that I am not a relative, employee, attorney or counsel of any of the parties, nor relative or employee of such attorney or counsel, or financially interested in the foregoing action.

DATED THIS 28th day of January, 2008.


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