

BEFORE THE  
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of:

DOCKET NO. 150001-EI

FUEL AND PURCHASED POWER COST  
RECOVERY CLAUSE WITH  
GENERATING PERFORMANCE  
INCENTIVE FACTOR.

---

VOLUME 4

(Pages 581 through 810)

PROCEEDINGS: HEARING

COMMISSIONERS  
PARTICIPATING: CHAIRMAN ART GRAHAM  
COMMISSIONER LISA POLAK EDGAR  
COMMISSIONER RONALD A. BRISÉ  
COMMISSIONER JULIE I. BROWN  
COMMISSIONER JIMMY PATRONIS

DATE: Tuesday November 3, 2015

TIME: Commenced at 9:30 a.m.  
Concluded at 12:10 p.m.

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

REPORTED BY: LINDA BOLES, CRR, RPR  
Official FPSC Reporter  
(850) 413-6734

APPEARANCES: (As heretofore noted.)

## I N D E X

## WITNESSES

	NAME:	PAGE NO.
1		
2		
3		
4	MARK CUTSHAW	
	Examination by Ms. Keating	584
5	Prefiled Direct Testimony Inserted	587
	Examination by Ms. Christensen	602
6	Examination by Mr. Wright	612
	Examination by Mr. Moyle	617
7	Examination by Ms. Janjic	623
8	HERBERT RUSSELL BALL	
	Examination by Mr. Badders	639
9	Voir Direct Examination by Mr. Moyle	640
	Examination by Mr. Badders	643
10	Prefiled Direct Testimony Inserted	645
	Examination by Mr. Sayler	686
11	Examination by Mr. Moyle	691
	Examination by Ms. Brownless	704
12		
	JAMES BRENT CALDWELL	
13	Examination by Mr. Beasley	714
	Voir Dire Examination by Mr. Moyle	716
14	Examination by Mr. Beasley	719
	Prefiled Direct Testimony Inserted	720
15	Examination by Mr. Sayler	761
	Examination by Mr. Moyle	764
16	Examination by Ms. Brownless	778
17	TARIK NORIEGA	
	Examination by Mr. Sayler	784
18	Prefiled Direct Testimony Inserted	788
19		
20		
21		
22		
23		
24		
25		

EXHIBITS

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

NUMBER:		ID.	ADMTD.
35 through 39			713
50 through 52			784
117			713
118			784
125	Excerpt of FPUC 2014 FERC Form 1	602	638

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

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

**CHAIRMAN GRAHAM:** Good morning, everyone.

Glad to see you all have made it here safely this morning. And not to delay anymore, we'll start off with our very first witness. Ms. Keating.

**MS. KEATING:** Good morning, Mr. Chairman, Commissioners. FPUC calls Mr. Mark Cutshaw. Whereupon,

**MARK CUTSHAW**

was called as a witness on behalf of FPUC and, having first been duly sworn, testified as follows:

**EXAMINATION**

**BY MS. KEATING:**

**Q** Good morning, Mr. Cutshaw.

**A** Good morning.

**Q** If you would, please introduce yourself to the Commission and state your business address.

**A** My name is Mark Cutshaw. My business address is 1750 South 14th Street, Fernandina Beach, Florida 32034.

**Q** And you were in the room yesterday, were you not, and have already been sworn in?

**A** Yes.

**Q** Okay. Please go ahead, if you would, and tell us who your employer is and what your position is with

1 the company.

2 **A** I'm employed by Florida Public Utilities  
3 Company, and I'm the Director of Business Development  
4 and Generation.

5 **Q** And did you prefile testimony in this  
6 proceeding on September 1st?

7 **A** Yes, I did.

8 **Q** Do you have any corrections to that prefiled  
9 testimony?

10 **A** Yes, I do. There was one typo on page 7, line  
11 5 of my testimony, and the word "of" was left out of the  
12 sentence. And it should read, "The FPUC 138 kV  
13 transmission line is a dual circuit single pole line  
14 which includes several miles of transmission line in a  
15 relatively inaccessible marshy area."

16 **Q** And with that correction, if I asked you all  
17 the questions that are in your prefiled testimony, would  
18 your responses still all be the same?

19 **A** Yes, they would.

20 **MS. KEATING:** Chairman Graham, with that  
21 correction, we'd ask that Mr. Cutshaw's prefiled  
22 testimony be inserted into the record as though read.

23 **CHAIRMAN GRAHAM:** We will insert  
24 Mr. Cutshaw's prefiled direct testimony into the record  
25 as though read.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

**MS. KEATING:** Thank you.

**BY MS. KEATING:**

**Q** Mr. Cutshaw, you did not have any prefiled exhibits; correct?

**A** That's correct.

ERRATAP. Mark Cutshaw – PROJECTION TESTIMONY/FILED SEPTEMBER 1, 2015

Page 7, Line 5: Insert the word “of” between the words “miles” and “transmission, so that the sentence reads:

4                   The FPUC 138 KV transmission line is a dual circuit, single pole  
5                   line which includes several miles **of** transmission line in relatively  
6                   inaccessible marshy areas.

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION****DOCKET NO. 150001-EI: FUEL AND PURCHASED POWER COST RECOVERY  
CLAUSE WITH GENERATING PERFORMANCE INCENTIVE FACTOR**

2016 Projection Testimony of  
Mark Cutshaw  
On Behalf of  
Florida Public Utilities Company

1 Q. Please state your name and business address.

2 A. My name is P. Mark Cutshaw, 1750 S. 14<sup>th</sup> Street, Suite 200,  
3 Fernandina Beach, Florida 32034.

4 Q. By whom are you employed?

5 A. I am employed by Florida Public Utilities Company.

6 Q. Could you give a brief description of your background and  
7 business experience?

8 A. I graduated from Auburn University in 1982 with a B.S. in  
9 Electrical Engineering and began my career with Mississippi  
10 Power Company in June 1982. I spent 9 years with Mississippi  
11 Power Company and held positions of increasing responsibility  
12 that involved budgeting, as well as operations and maintenance  
13 activities at various Company locations. I joined FPUC in May  
14 1991 as Division Manager in the Marianna (Northwest Florida)  
15 Division. During my employment with Florida Public Utilities, I  
16 have worked extensively in both the Northeast and Northwest  
17 Divisions. Since joining FPUC, my responsibilities have included  
18 all aspects of budgeting, customer service, operations and



Docket No. 150001-EI

1 maintenance in both the Northeast and Northwest Florida  
 2 Divisions. My responsibilities also included involvement with  
 3 Cost of Service Studies and Rate Design in other rate  
 4 proceedings before the Commission as well as other regulatory  
 5 issues. During 2015, I moved into my current role as Director,  
 6 Business Development and Generation.

7 Q. Have you previously testified in this Docket?

8 A. Yes, on numerous occasions.

9

10 I. Efforts to Reduce Fuel Costs

11 Q. Has the Company investigated means to reduce costs for its  
 12 customers in its consolidated electric divisions?

13 A. Yes. The Company has aggressively sought opportunities to  
 14 engage its current base load providers for both electric divisions  
 15 in discussions for an arrangement that would be more beneficial  
 16 for the FPUC customers. Since 2007, when purchased power  
 17 rates began to increase significantly from both providers, FPUC  
 18 has been very assertive in challenging each cost determination  
 19 performed by JEA and Southern Company that resulted in an  
 20 increase to the purchased power rate. These very focused and  
 21 steady efforts have resulted in the mitigation of increases in

Docket No. 150001-EI

1 purchased power costs for FPUC and its customers. In January  
2 2011, the Company was also successful in completing an  
3 Amendment to the Gulf Power contract, reducing costs to  
4 customers in its NW division.

5 These same focused and steady efforts are continuing today  
6 and have resulted in a reduced rate of increase to FPUC and its  
7 customers.

8 The Company has also investigated other opportunities to  
9 reduce purchases power costs, including the possibility of  
10 contractual relationships with other wholesale power suppliers.  
11 As a result of this ongoing investigation into new opportunities,  
12 relationships were developed with other suppliers, informal  
13 studies of generation and transmission capacity arrangements  
14 were reviewed, and contract possibilities were discussed.  
15 Although realization of these opportunities is not possible until  
16 the expiration of the existing power purchase contracts, the  
17 information gathered has provided FPUC with invaluable market  
18 knowledge and material that will further assist with our further  
19 discussions. Among the notable information gleaned, the  
20 Company has determined that an FPL interconnect in its  
21 Northeast Division will provide future opportunities to save

Docket No. 150001-EI

1 customers on fuel costs and increase the reliability in the  
2 Northeast Division.

3 Q. Has the Company availed itself of other opportunities to produce  
4 fuel cost savings?

5 A. Yes. For instance, the Northeast Division provides service to  
6 two paper mills on Amelia Island that have significant on site  
7 generation capabilities. These relationships have created further  
8 opportunities for some limited purchased power for FPUC.  
9 FPUC has entered into arrangements with these alternative  
10 power providers that have thus far proven very advantageous.  
11 FPUC is continuing to look at these and all other avenues for  
12 reducing purchased power costs.

13 Q. What arrangements with "alternative power providers" do you  
14 refer to?

15 A. The first very successful arrangement that I am referring to is the  
16 renewable energy contract with Rayonier Performance Fibers,  
17 LLC, which was entered into in early 2012 and approved by the  
18 Commission in Docket No. 120058-EQ. Through a cooperative  
19 effort, FPUC and Rayonier were able to develop a purchased  
20 power agreement that allows Rayonier to produce renewable  
21 energy and sell that energy to FPUC at a cost below that of the

Docket No. 150001-EI

1           current wholesale power provided while still being beneficial to  
2           Rayonier. Not only did this increase the amount of renewable  
3           energy in the area, it provides lower cost energy that is passed  
4           directly through to FPUC customers in the form of reduced  
5           power cost.

6           Secondly, FPUC has completed the development of a  
7           partnership with Eight Flags Energy, LLC to provide lower cost  
8           reliable energy which will provide benefits to the FPUC  
9           customers. The Commission has reviewed this agreement and  
10          approved it in Docket No. 140185-EQ on December 30, 2014.  
11          The combined heat and power facility owned by Eight Flags  
12          Energy, LLC, a subsidiary of Chesapeake Utilities Corporation  
13          (Chesapeake), will work directly with FPUC to provide additional  
14          energy to FPUC. This new 20 megawatt generation facility will  
15          provide significant cost savings to FPUC customers in both  
16          divisions.

17          Q.       How have these new arrangements proven beneficial to the  
18                   Company?

19          A.       This new project it is expected to be in service by the second  
20                   quarter of 2016 and is expected to produce further significant  
21                   benefits for the Company and all of its electric customers.

Docket No. 150001-EI

1 All in all, this contract will secure added service reliability for the  
2 Northeast Division while providing customers in both divisions  
3 significant fuel and purchased power cost savings. It will do so  
4 all while producing a lower environmental profile than would be  
5 associated with locating traditional generation on the island or  
6 with FPUC's purchased power options. Not only will this new  
7 contract provide customers with lower cost energy, this contract  
8 will also provide FPUC with negotiating leverage that is not  
9 currently available. This added leverage is expected to  
10 enhance our ability to negotiate beneficial contracts with large  
11 wholesale power providers for future agreements and should  
12 help with even further energy.

13 II. New Efforts Targeting Additional Savings

14 Q. Can you provide additional information on the transmission  
15 interconnect project?

16 A. Yes. This is a significant project for FPUC, one that the  
17 Company has embarked upon specifically because we anticipate  
18 it will directly improve our ability to negotiate increased savings  
19 for our customers in our next power purchase agreements.  
20 Historically, FPUC's ability to secure competitive wholesale  
21 power quotations has been hindered by the limitation on the

Docket No. 150001-EI  
*Corrected*

1 transmission interconnections providing power to FPUC's  
2 Northeast Division. At present, FPUC's 138 KV transmission is  
3 directly connected to the JEA 138 KV transmission network.  
4 The FPUC 138 KV transmission line is a dual circuit, single pole  
5 line which includes several miles of transmission line in relatively  
6 inaccessible marshy areas. This transmission line serves as the  
7 only off-island power supply to Amelia Island. In order to resolve  
8 this issue for upcoming wholesale power proposals, FPUC is  
9 pursuing an interconnection with the Florida Power & Light's  
10 (FPL) transmission system, which is located in very close  
11 proximity to the existing FPUC transmission system. Not only  
12 will this additional interconnection provide for more competitive  
13 wholesale power options, this will provide much needed  
14 redundancy to the power supply on Amelia Island and have a  
15 positive impact on the overall system reliability.

16 Q. What type of construction will be necessary to accomplish the  
17 interconnection with FPL?

18 A. The FPUC owned 138 KV transmission line is located  
19 approximately 750 feet (0.14 miles) from the FPL substation and  
20 runs in the existing right of way along with the FPL 230 KV  
21 transmission line. The construction necessary will include

Docket No. 150001-EI

1 expansion of the existing FPL substation in which the necessary  
2 transmission and system protection equipment will be placed in  
3 order to allow for the interconnection of the FPUC 138 KV  
4 transmission line. The FPUC 138 KV transmission will be re-  
5 routed to parallel the FPL 230 KV transmission line into the  
6 expanded substation. The new system design will provide for  
7 improved system reliability on the transmission system and will  
8 afford FPUC the opportunity to reach other less expensive  
9 generation sources while avoiding additional transmission  
10 wheeling cost.

11 This additional interconnection with FPL will also provide  
12 expanded opportunities should it become necessary and/or  
13 advantageous to export power from the CHP generating  
14 resources on Amelia Island. The ability to have more  
15 opportunities and avoid one transmission wheel can provide  
16 additional benefits to FPUC customers by maximizing revenues  
17 for off system sales.

18 Q. What is the projected in service date for the interconnection with  
19 the FP&L transmission system?

20 A. The exact date of the interconnection completion has not been  
21 determined; but, is expected during the latter half of 2017.

Docket No. 150001-EI

1 Q. Can you quantify or project the savings to be derived as a result  
2 of this new interconnect with FPL?

3 A. While we cannot specifically define what those savings will be,  
4 nor will be able to do so until negotiations for future agreements  
5 are complete, we have projected what we anticipate the savings  
6 will be, as addressed in the testimony of FPUC's witness Young.

7 Q. Are there other efforts underway to continue to provide lower  
8 cost energy to FPUC customers?

9 A. Yes. Due to the significant benefits that are provided to the  
10 Rayonier and Eight Flags Energy projects, FPUC has continued  
11 to identify other projects that provide similar benefits. These  
12 projects include additional Combined Heat and Power (CHP)  
13 projects, additional transmission line interconnections and  
14 photovoltaic projects.

15 Q. Can you provide additional information on the CHP projects?

16 A. Yes. Although the projects have not been finalized at this point,  
17 there are currently CHP projects in development. It is uncertain  
18 whether or not these will be available for service in 2016; but,  
19 work is ongoing with regard to the engineering and contractual  
20 aspects of the projects. To be clear, these costs are not  
21 included in the projections for 2016.



Docket No. 150001-EI

1 Q. In addition to CHP, is FPUC also considering the feasibility of  
2 solar photovoltaic projects?

3 A. Yes. FPUC has determined that the development of smaller  
4 solar photovoltaic systems within the FPUC electric service  
5 territory is economically feasible and can provide benefits to the  
6 rate payers. Based on this analysis, FPUC is working to acquire  
7 the necessary property to construct a small scale (one to five  
8 megawatts) PV installation. Not only will this increase the  
9 renewable energy available to FPUC, the cost is expected to be  
10 less than the current wholesale power cost, which will provide  
11 additional benefits to FPUC customers. Additionally, exploration  
12 into the inclusion of battery storage capacity in conjunction with  
13 the PV installation is being considered. The output from these  
14 systems have not been included in the projections.

15 Q. Does this conclude your testimony?

16 A. Yes.

17

1 **BY MS. KEATING:**

2 Q And did you prepare a summary of your  
3 testimony?

4 A Yes, I did.

5 Q If you would, please go ahead and provide  
6 that.

7 A Good morning, Commissioners. My name is Mark  
8 Cutshaw, and I'm here on behalf of Florida Public  
9 Utilities Company. I currently serve as the Director of  
10 Business Development and Generation for FPU and  
11 submitted prefiled testimony in this proceeding  
12 regarding FPU's efforts to reduce fuel costs and new  
13 efforts targeting additional savings.

14 As you're aware, the fuel rates to FPU  
15 customers began to increase significantly in 2007. This  
16 was based on the changes in our purchased power  
17 contracts for power, and we heard loud and clear from  
18 our customers that something needed to be done about the  
19 increases. In response, FPU began a focused effort to  
20 look for means by which the overall purchased power cost  
21 could be reduced.

22 Because we have limited staff resources, we  
23 hired several very experienced industry and legal  
24 consultants to assist us in our efforts. With their  
25 help, the company has evaluated a number of possible

1 solutions that could help reduce the fuel cost for our  
2 customers.

3           The solutions evaluated have included projects  
4 developed by the company as well as projects and  
5 opportunities brought to us by other entities. Through  
6 these efforts, we've been able to produce savings for  
7 our customers and plan projects that we believe will  
8 bring even more savings upon implementation.

9           The most significant and most recent example  
10 of these efforts was the partnership we just developed  
11 with Eight Flags Energy, LLC, which is located just  
12 north of Jacksonville on Amelia Island. This  
13 partnership will provide low-cost reliable electricity  
14 to FPU customers beginning in 2016. Our dynamic  
15 approach, as well the constructive regulatory  
16 environment in Florida, has allowed this project to  
17 occur, assuring reduced costs for FPU's customers in the  
18 future.

19           We've also identified another key project that  
20 will produce significant additional savings for our  
21 customers. With the help of the team we have assembled,  
22 we have pursued an opportunity to interconnect our  
23 Northeast Florida Division transmission system with the  
24 FPL transmission system. This transmission  
25 interconnection will provide access to additional

1 wholesale power sources, and it will provide access to  
2 additional sources that will enhance significantly our  
3 leverage as we pursue our next purchased power  
4 agreement. We also anticipate the new interconnection  
5 will provide not only access to lower cost options, but  
6 will result in reduced transmission costs.  
7 Additionally, this transmission interconnection will  
8 provide an increased level of reliability to an area  
9 that has been impacted by reliability issues in previous  
10 years.

11 FPU has evaluated the impact of this  
12 additional transmission interconnection and determined  
13 that this will provide FPU customers with an estimated  
14 \$2.3 million in savings in future purchased power costs.  
15 Additional savings will continue in future years. With  
16 the Commission's approval, FPU can proceed with this  
17 project so that this valuable interconnection can be  
18 placed in service and fully utilized on December 31st,  
19 2017, which is at the end of our existing wholesale  
20 power agreement.

21 While FPU is a small non-generating utility,  
22 we're serious about finding new and better ways to  
23 produce savings for our customers. As such, we hope the  
24 Commission will approve our request in this proceeding,  
25 including recovery of costs associated with the FPL

1 interconnect and recovery of fuel-related legal and  
2 consulting fees. We hope to continue to benefit our  
3 customers by saving them money.

4 Thank you, Commissioners.

5 **MS. KEATING:** With that, Mr. Chairman,  
6 Mr. Cutshaw is tendered for cross.

7 **CHAIRMAN GRAHAM:** Thank you, Ms. Keating.

8 OPC.

9 **MS. CHRISTENSEN:** Good morning. I have  
10 several exhibits that I would request that we pass out.

11 **CHAIRMAN GRAHAM:** Okay. We've got somebody  
12 who can help you with that.

13 (Pause.)

14 Ms. Christensen, we have numbers 125, 126,  
15 and 127.

16 **MS. CHRISTENSEN:** Well --

17 **CHAIRMAN GRAHAM:** I see you already have two  
18 of these already, Nos. 90 and 91.

19 **MS. CHRISTENSEN:** Correct. They're excerpts  
20 from the composite exhibit that were already marked for  
21 identification and admitted into the record. Those are  
22 for ease of reference during cross-examination. So I  
23 only need to have marked for identification the excerpt  
24 of the FPUC 2014 FERC Form 1.

25 **CHAIRMAN GRAHAM:** We'll give that 125.

1 (Exhibit 125 marked for identification.)

2 **MS. CHRISTENSEN:** Thank you.

3 **CHAIRMAN GRAHAM:** You have the floor when  
4 you're ready.

5 **MS. CHRISTENSEN:** Thank you.

6 **EXAMINATION**

7 **BY MS. CHRISTENSEN:**

8 **Q** Good morning, Mr. Cutshaw.

9 **A** Good morning.

10 **Q** Okay. You were present in the room yesterday  
11 when your colleague Mr. Young was testifying?

12 **A** Yes, I was.

13 **Q** Okay. And you heard during that  
14 cross-examination a description of the activities that  
15 were done by the consultants in 2016?

16 **A** Yes.

17 **Q** And you also heard Mr. Young say that he was  
18 not sure what activities occurred in 2015 and he  
19 referred them to you. Do you recall that?

20 **A** Yes.

21 **Q** Okay. To your knowledge, were any of the  
22 activities done by the consultants that we discussed  
23 yesterday for 2016, were any of those activities  
24 significantly different from the activities they  
25 performed in 2015?

1           **A**     Yes.  The scope of their activities was  
2 basically the same.  The focus on the different  
3 projects' specific locations were different, but the  
4 overall scope of their work was the same.

5           **Q**     Okay.  And I think that's -- so essentially  
6 they were working on substantially similar projects to  
7 the descriptions that were provided for 2017.

8           **A**     That's correct.

9           **Q**     Okay.  Now in your direct testimony, pages  
10 9 -- or 6 through 9, you discuss -- I'm sorry.  Let me  
11 refer you to your projection testimony filed  
12 September 1st.  You discuss the interconnection project  
13 between Florida Power & Light's transmission system and  
14 FPUC's transmission system; is that correct?

15          **A**     Correct.

16          **Q**     And FPL to the FPUC interconnection when  
17 complete will be part of FPUC's transmission system; is  
18 that correct?

19          **A**     That's correct.

20          **Q**     And the interconnection project is expected to  
21 come into service at the end of 2017; is that right?

22          **A**     That's correct.

23          **Q**     Now would I be correct in saying that FPUC has  
24 a purchased power agreement with Jacksonville Electric  
25 Authority?

1           **A**     Yes.

2           **Q**     Okay.  And is it also correct that that PPA  
3 with Jacksonville Electric Authority will not expire  
4 until 2017, December 31st?

5           **A**     That is correct.

6           **Q**     Okay.  And that's -- and let me refer you to  
7 Exhibit 91 that I handed out.

8           **A**     Yes.

9           **Q**     And you provided that response; correct?

10          **A**     Yes, I did.

11          **Q**     Okay.  And that's essentially what this  
12 response is referring to is the expiration of the JEA  
13 PPA; correct?

14          **A**     That's correct.

15          **Q**     And it also indicates that FPUC is obligated  
16 to take all of its wholesale purchased power from JEA;  
17 is that correct?

18          **A**     That is correct.

19          **Q**     Okay.  And you would agree that under the JEA  
20 PPA that FPUC is limited in how it can get any other  
21 cheaper wholesale power?

22          **A**     That's correct.

23          **Q**     Okay.  And would you also agree that beginning  
24 January 1st, 2018, is when FPUC can enter into a new PPA  
25 contract which it hopes will be for better terms?



1           **A**     That is correct.

2           **Q**     Okay.  And, finally, you would agree that no  
3 fuel savings related to the interconnect can happen in  
4 2016 related to any new interconnection or PPA  
5 agreement; correct?

6           **A**     That is correct.  We hope to be able to plan  
7 in advance so that beginning in 2018 we'll be able to  
8 provide additional savings to our customers.  Without  
9 the planning it will not occur.

10          **Q**     Okay.  And just to be clear, I'm going to  
11 refer you real quick to Exhibit 90 that I passed out.  
12 And that was another response that was provided by you;  
13 is that correct?

14          **A**     Yes.

15          **Q**     Okay.  And it does confirm that the existing  
16 contract with JEA does not allow taking power from  
17 another wholesale power provider; is that correct?

18          **A**     That's correct.

19          **Q**     Okay.  And you would agree that the fuel  
20 savings that were reflected as an attachment in this  
21 docket, those fuel savings could not start until after  
22 January 1st, 2018.

23          **A**     That's correct.  The 2.3 million that I  
24 mentioned in my opening summary will begin in 2018.

25          **Q**     Okay.  Now let me refer you to the exhibit --

1 do you have a copy of the exhibit that was handed out by  
2 staff yesterday, Exhibit 124, which is the June 30th,  
3 2014, surveillance report?

4 **A** Yes, I do.

5 **Q** Okay. As of June 30th, 2014, Schedule 1 of  
6 FPUC's surveillance report reflects an achieved average  
7 rate of return of 3.62 percent on an average FPUC  
8 adjusted basis; is that correct?

9 **A** Yes.

10 **Q** Okay. Now can you turn to Schedule 4 that  
11 reflects FPUC's capital structure. Let me know when  
12 you've reached there.

13 **A** Okay.

14 **Q** Okay. And would you agree that Schedule  
15 4 reflects FPUC's capital structure?

16 **A** This is the first time I've seen this. I  
17 would have to look at it a little more closely, but it  
18 appears to be.

19 **Q** Okay. And isn't it correct that as of  
20 June 30th, 2014, the low point of the range for the  
21 overall rate of return on an average basis is  
22 5.4 percent? If you look at the top box and you see the  
23 headers on there and it says "low point," if you go to  
24 the bottom of that box.

25 **A** I'm sorry. I was looking at Schedule 3.

1 Q Okay. Are you on Schedule 4 now?

2 A This looks more correct now.

3 Q Yeah, that would help.

4 A Yes. You are correct.

5 Q Okay. Great. Thank you.

6 Now I've handed out an Exhibit No. 125, which  
7 is an excerpt of FPUC's 2014 FERC Form 1, and on the  
8 last page of that handout, on page 3 there's a note to  
9 the financial statements under the heading of  
10 "Impairment of Long-Lived Assets." Can you read that  
11 first full paragraph on that last page into the record.

12 A And this is the one immediately under  
13 "Impairment of Long-Lived Assets"?

14 Q Correct. The first full-- or the second one  
15 that starts "At December 31st."

16 A Okay. So the second paragraph?

17 Q Yes.

18 A "At December 31st, 2014, we recorded a  
19 \$1,267,750 pre-tax non-cash impairment loss related to  
20 uncertainty around the implementation of a customer  
21 billing system. This impairment was part of the  
22 6.5 million impairment loss recorded by Chesapeake and  
23 represented all of the capital costs associated with  
24 this project allocated to us. The impairment loss is  
25 included in the operation expense in the accompanying

1 statement of income. Prior to December 31st, 2014,  
2 these costs were included in construction work in  
3 progress.

4 "On May 31st, 2015, Chesapeake entered into a  
5 settlement agreement with a system vendor regarding the  
6 implementation which provided a cash proceed of  
7 1.5 million and a potential additional proceed of  
8 650,000 if certain conditions and requirements are met  
9 by Chesapeake over the following five-year period. We  
10 expect to record a gain contingency in 2015 based on the  
11 cash proceed allocated to us by Chesapeake.

12 "We're also considering other options to  
13 recover the remaining cost of impairment, including  
14 regulatory proceedings. We will establish a regulatory  
15 asset if future recovery through rates is probable."

16 Q Thank you. Now isn't it correct that the  
17 asset impairment that's referred to is the ESYS  
18 (phonetic) customer billing asset that the company  
19 included in construction work in progress in its  
20 projected test year in the last rate case?

21 **MS. KEATING:** Mr. Chairman, I'm afraid I'm  
22 going to have to object. I believe this line of  
23 questioning goes far afield of Mr. Cutshaw's testimony.

24 **THE WITNESS:** Or my expertise.

25 **CHAIRMAN GRAHAM:** Ms. Christensen.

1           **MS. CHRISTENSEN:** Well, one, staff brought in  
2 the surveillance reports, and we think this is relevant  
3 to the surveillance reports that were introduced  
4 yesterday as of June 30th, 2015. And a one-time  
5 writeoff in 2015 plus some additional cross-examination  
6 that I plan to get into needs to be put forward to give  
7 a full picture of where they are, base rates versus  
8 fuel, because the company has said that they won't have  
9 the funds essentially to do this project if they're not  
10 given recovery through fuel. And, therefore, I think  
11 they've opened up the door to where they are  
12 financially related to base rates and what impacts have  
13 occurred during the last year that impacted their  
14 surveillance report in 2015. All I'm trying to do is  
15 give the Commission a more complete picture of where  
16 base rates stand as of today.

17           **CHAIRMAN GRAHAM:** I understand what you're  
18 saying, but this is going beyond what his direct  
19 testimony was, and he's already said that this is  
20 beyond his expertise.

21           **MS. CHRISTENSEN:** Well, if I can --

22           **CHAIRMAN GRAHAM:** I mean, he can answer the  
23 questions that he can answer. But if those are things  
24 that he doesn't know, then we're just going to move on  
25 from there.

1           **MS. CHRISTENSEN:** Okay. Well, let me explore  
2 if he's aware of the one-time writeoff, and then I'll  
3 kind of shorten it up and move from there and only  
4 explore what he does now.

5           **CHAIRMAN GRAHAM:** And I'll also let  
6 Ms. Keating, as you drift away from what his direct  
7 testimony is, I'll let her throw those objections up  
8 there as well.

9           **MS. CHRISTENSEN:** Certainly. But I'm  
10 afraid -- I think he opened up the door when he went  
11 into the legal and consulting fees related to fuel  
12 savings and such that were also a little bit -- I think  
13 he's testifying across a little bit more than what his  
14 testimony was anyway.

15           **CHAIRMAN GRAHAM:** Okay. Now repeat that  
16 first question.

17 **BY MS. CHRISTENSEN:**

18           **Q** All I was -- what I'm asking is, and I will  
19 phrase it, are you aware that the company took a  
20 one-time writeoff for the ESYS (phonetic) project in  
21 2015?

22           **A** Yes, vaguely aware.

23           **Q** Okay. Do you know the amount that was written  
24 off for -- written off in 2015?

25           **A** No, I do not.

1           **MS. CHRISTENSEN:** Okay. And I will move on  
2 from there.

3           **CHAIRMAN GRAHAM:** Sure.

4 **BY MS. KEATING:**

5           **Q** Mr. Cutshaw, if you're aware, do you know --  
6 are you familiar with the surveillance reports?

7           **A** Vaguely.

8           **Q** Okay. Let me just ask you about the base rate  
9 case then. As of June 30th, would you agree that only  
10 eight months of the base rate increase were reflected  
11 that took effect as of November 1st, 2014?

12          **A** Yes.

13          **Q** Okay. And if you know, are you aware of -- or  
14 let me rephrase it this way. Would you agree that the  
15 approximately four months' worth of base rate revenue  
16 increase for July, August, September, and October would  
17 be approximately a \$1 million increase in revenue?

18          **A** I would be speculating if I quoted anything.

19          **Q** Okay.

20          **A** Sorry.

21          **Q** That's fine. I just -- if you're not aware,  
22 you're not aware, but I appreciate that.

23           **MS. CHRISTENSEN:** With that, I have no  
24 further questions. Thank you.

25           **CHAIRMAN GRAHAM:** Mr. Wright.

1                   **MR. WRIGHT:** Thank you, Mr. Chairman. I just  
2 have a few, and it's a Schef Wright few.

3   **EXAMINATION**

4                   **BY MR. WRIGHT:**

5                   **Q**     Hey, Mark. How are you doing?

6                   **A**     I'm good. How are you today?

7                   **Q**     I'm good. Thanks.

8                   **A**     Good.

9                   **Q**     The transmission project is a good project;  
10 correct?

11                  **A**     That is correct.

12                  **Q**     And as I understand it, it's -- your  
13 interrogatory response says it'll be in service in  
14 December of 2017?

15                  **A**     That's correct.

16                  **Q**     And it will not start providing any benefits  
17 to customers until January of 2018 as you presently  
18 project?

19                  **A**     Correct.

20                  **Q**     Are you committed to completing the project as  
21 scheduled without regard to whether the Public Service  
22 Commission approves it for recovery through the fuel  
23 clause this year?

24                  **A**     We are not committed to the completion of this  
25 project. At this point there's a lot riding on this



1 proceeding.

2           You know, our intent from the beginning was to  
3 find a way to make this happen. And the most  
4 expeditious way to make this happen, get it into  
5 service, provide savings to our customers was to be able  
6 to go through the fuel proceeding as we're doing so that  
7 that would minimize the length of time until it was in  
8 service. So there are other possibilities, yes, but  
9 those will take much longer to come into place, and  
10 there will be a lot more decisions to be made along the  
11 way.

12           **Q**    So you've got a good project, but you won't do  
13 it if you don't get the money through the fuel clause?

14           **A**    Oh, no. We will move forward with evaluating  
15 the project and determine how best that we can put it  
16 into place via other mechanisms, rate proceedings,  
17 different alternatives as we move forward.

18           This is a big project for FPU, very  
19 significant, a very important project, yes, but it is a  
20 big project for FPU.

21           **Q**    Okay. You'll agree that it won't be used and  
22 useful in providing service to FPU's customers before  
23 January 1st, 2018, will you not?

24           **A**    It will provide savings to them on that date.

25           **Q**    That's not the question I asked. Will you

1 agree that it will not be used and useful in providing  
2 service to FPU's customers until that date?

3 **A** It will be in service as of that date,  
4 correct.

5 **Q** You've mentioned -- a couple of times you  
6 mentioned, in response to a question by Ms. Christensen,  
7 including regulatory proceedings and you made a similar  
8 statement a couple of minutes ago.

9 You could have a rate case with a projected  
10 test year of 2018 and get it into base rates at the time  
11 that it would be used and useful and serving customers,  
12 could you not?

13 **A** I don't believe so.

14 **Q** Help me out. Are you saying you could not  
15 file and prosecute a rate case with a result before now  
16 and January 2018?

17 **A** A lot of the decisions on doing a rate case  
18 and the timing are beyond my ability to make any  
19 decisions. I'm not aware of the exact time frame. But  
20 as I mentioned, you're making commitments to  
21 contractors. At this point it's very important in order  
22 to be able to get it into service by 2018.

23 **Q** It's November of 2015. We've got 26 months  
24 till January of 2018; correct?

25 **A** That's correct.

1           **Q**     And you don't know whether the company could  
2 actually prosecute a rate case in 26 months?

3           **A**     If the decision was made to go that route,  
4 taking all factors into consideration, looking at the  
5 costs involved, they could, but that would be a decision  
6 outside of my scope.

7           **Q**     Florida Public Utilities does have  
8 transmission assets in its base rate as of -- base  
9 rate -- rate base as of today; correct?

10          **A**     That is correct.

11          **Q**     And you'll agree that recovery of transmission  
12 assets through base rates as a rate base item is normal  
13 regulatory treatment; correct?

14          **A**     No. Unfortunately, as we mentioned, we are  
15 different. We're small, we're situated different,  
16 differently, I'm sorry, and we do have the collection of  
17 transmission costs. We even have the collection of  
18 distribution, electric distribution costs that run  
19 through our fuel docket. So in our collection of fuel  
20 charges there is a small amount of distribution charge.  
21 There is a probably 10 to 20 percent transmission charge  
22 included in fuel in our bills that we receive from our  
23 purchased power providers, and then there are the  
24 regular energy and capacity charges.

25          **Q**     Are those transmission and distribution costs

1 recovered through fuel that you just referenced included  
2 as part of the payments you make to your power --  
3 purchased power providers?

4 **A** Yes, they are.

5 **Q** Okay. Do you recover any of your own  
6 transmission rate base through the fuel clause?

7 **A** At this point we do not.

8 **Q** Okay. I'm going to ask you the question that  
9 I asked you before: Will you agree that treating a  
10 utility's rate base transmission system as rate base  
11 recovered through base rates is normal regulatory  
12 practice?

13 **A** Can you repeat that one more time?

14 **Q** Will you agree that recovery of transmission  
15 rate base costs through base rates is normal utility  
16 regulatory practice in Florida?

17 **A** I would agree.

18 **Q** Thank you. It would be possible, would it  
19 not, for the company to file a rate case, say, sometime  
20 next year with a 2017 projected test year and ask for  
21 CWIP, construction work in progress, for the  
22 transmission rate base for this project?

23 **A** I would not know those details. I'm sorry.

24 **Q** Okay. Can you answer the question whether it  
25 would be possible for the company to do that?

1           **A**     I would assume that it would be possible, yes.

2           **Q**     Is your company averse to having a general  
3 rate case before the Commission?

4           **A**     No.

5           **MR. WRIGHT:** Great. Thanks. That's all I  
6 have.

7           **CHAIRMAN GRAHAM:** Mr. Moyle.

8           **MR. MOYLE:** Thank you.

9   **EXAMINATION**

10          **BY MR. MOYLE:**

11           **Q**     Good morning.

12           **A**     Good morning.

13           **Q**     I don't know that we've met. I'm Jon Moyle  
14 and I represent the Florida Industrial Power Users  
15 Group, and I just have a few questions for you.

16           **A**     Okay.

17           **Q**     Can you just describe for me your  
18 relationship -- you or your company's relationship with  
19 Chesapeake?

20           **A**     We are a subsidiary of Chesapeake Utilities  
21 Corporation that is based in Dover, Delaware.

22           **Q**     Okay. And Chesapeake, that's a big publicly  
23 traded company; is that right?

24           **A**     It's not the Chesapeake Energy that a lot of  
25 people typically think of. Chesapeake Utilities

1 Corporation is a natural gas, propane company based in  
2 Dover, Delaware, and I think we're in the neighborhood  
3 of maybe 700 employees companywide.

4 Q Do you know, is it privately held or publicly  
5 traded?

6 A Publicly traded.

7 Q On which exchange?

8 A The New York Stock Exchange, I'm assuming.

9 Q Do you know the symbol?

10 A CPK, I believe.

11 Q And a lot of utilities over the years with  
12 rate cases we've had with other utilities, the parent  
13 companies will help financially with subsidiaries. Is  
14 that the case with Chesapeake and your company? Do they  
15 loan you money or invest equity in your company?

16 A I'm --

17 **MS. KEATING:** Mr. Chairman, I'm sorry.  
18 Again, I think this is a line of questioning that's  
19 starting to wander a bit afield of Mr. Cutshaw's  
20 testimony.

21 **MR. MOYLE:** He said they're different and  
22 it's a small company. I think he opened the door. I  
23 can explore the relationship. Are they a small company  
24 and they need the money now but they don't have the  
25 capital? I mean, that's all I'm trying to do.

1                   **CHAIRMAN GRAHAM:** I'll let you -- I'll let  
2 him answer this question, but let's just not dig down  
3 in this hole.

4                   **MR. MOYLE:** I have a spade, not a shovel.

5                   **CHAIRMAN GRAHAM:** Sir, if you do know the  
6 answer to it, that's fine.

7                   **THE WITNESS:** Can you repeat the question?

8 **BY MR. MOYLE:**

9                   **Q** Sure. I'm just trying to understand the  
10 relationship with the parent company to the subsidiary.  
11 And my general question was does the parent company  
12 assist financially in terms of providing either debt or  
13 equity to Florida Public Utilities?

14                   **A** My expertise is more in engineering business  
15 development, some vague knowledge of the accounting.  
16 But as far as the financing portion on how the loaning  
17 of money occurs, I could not answer.

18                   **Q** Okay. And I'm not trying to get expertise. I  
19 just want to know do you have an understanding, do they  
20 loan them money or provide equity to them? You know, it  
21 can be yes or no.

22                   **A** I would assume yes.

23                   **Q** And you were having -- not able to answer  
24 Mr. Wright's questions about a rate case and said there  
25 were others that would have to make that decision; is

1 that right?

2 **A** That's correct.

3 **Q** Okay. And who would those others be?

4 **A** The executive management team within our  
5 company would, as they typically do, evaluate all the  
6 different parts, the inputs related to conducting a rate  
7 case, and also, you know, look at the costs involved  
8 that our customers would have to pay for.

9 **Q** All right. You had testified that you had --  
10 you would -- I think I wrote it down -- find a way to  
11 make it happen, that this was an important project and  
12 you wanted to find a way to make it happen. Mr. Wright  
13 asked you about rate cases and timing, and I'm not going  
14 to retread that, but I did have a specific question.  
15 Did you consider filing what they call a limited  
16 proceeding before this Commission to ask the Commission  
17 to consider this in a limited proceeding?

18 **A** I'm not aware -- I'm not sure if that was ever  
19 contemplated or not. I was not involved in that.

20 **Q** Okay. And with respect to those types of  
21 questions, the rate case, neither you or the gentleman  
22 that testified yesterday would have information about  
23 that? That would be your senior management team; is  
24 that right?

25 **A** That's correct.



1           **Q**     Do you have any authority that you would  
2 reference to me or this Commission where the  
3 Commission -- well, let me start with this. I think you  
4 agreed with Mr. Wright that this interconnection is part  
5 of a transmission -- it's part of a transmission asset;  
6 correct?

7           **A**     That's correct.

8           **Q**     Okay. And do you have any authority that you  
9 can reference that says this Commission in the fuel  
10 clause has allowed the recovery of transmission assets?

11          **A**     I do not have any specific knowledge or  
12 situations in which that has occurred, but I do  
13 understand that they have the discretion to look at  
14 certain situations, and assuming that it does provide  
15 cost savings to customers within the fuel docket, that  
16 they can consider that.

17          **Q**     So no authority, but you think they may have  
18 some discretion?

19          **A**     That's correct.

20          **Q**     Okay. And you don't know if the fuel clause  
21 is a rule or a statute or just something that --

22          **A**     I understand there is some guidelines  
23 associated with that, but I'm not familiar with those  
24 details.

25          **Q**     Okay. Just a couple of other questions. You

1 had said that the anticipated construction of this would  
2 wrap up in the end of 2017; is that right?

3 **A** That's correct.

4 **Q** Most construction projects -- well, that's --  
5 most contracts that I'm familiar with have contingency  
6 provisions and not all construction projects come in on  
7 time. Would you agree with that?

8 **A** That's correct. Yes.

9 **Q** Okay. Do you know if there -- if the 2017  
10 date that you're testifying to, does that include a  
11 contingency period or not include a contingency period?

12 **A** There is a contingency period. And assuming  
13 that things are approved in December, they will be able  
14 to start the project effective January 1st.

15 **Q** Of '16?

16 **A** Of '16.

17 **Q** Okay. So back to the question, do you know if  
18 the contract, if the 2017 finish date, if you will, has  
19 the contingency period included or is there a six-month  
20 contingency period that could push the contract out to,  
21 you know, the middle of '18, the construction contract?

22 **A** It is a two-year project with the long lead  
23 time items being approximately a year delivery time.  
24 And the project engineering has begun, and we feel like,  
25 you know, based on the delivery of the long lead time

1 items, that if we're able to begin in January of 2016,  
2 we will be able to complete it on or before the end of  
3 2017, which does include some contingency periods in  
4 there.

5 Q Okay. A similar question with respect to your  
6 contract with JEA for the purchased power. Are there  
7 provisions to extend that contract beyond the end of  
8 2017?

9 A If we made the decision to extend that, we  
10 could do that by mutual agreement. That is not our  
11 intent.

12 Q Okay. And you are aware that if you all  
13 thought, hey, this is a good project, we need to move  
14 forward with it, you could do that and then subsequently  
15 ask this Commission to approve it either in a limited  
16 proceeding or in a base rate case. That's another  
17 option.

18 A Yes.

19 MR. MOYLE: Okay. Thank you. That's all I  
20 have.

21 CHAIRMAN GRAHAM: Staff?

22 EXAMINATION

23 BY MS. JANJIC:

24 Q Good morning, Mr. Cutshaw. Danijela Janjic  
25 with Commission staff.

1           Before I get to the questions, I passed out a  
2           courtesy copy of Exhibit 90. It has FPUC's response to  
3           staff's third set of interrogatories, No. 15 and 17.

4           **A**     Got it.

5           **Q**     Okay. Perfect. In staff's third set of  
6           interrogatories, Nos. 15B and 15C, staff asked whether  
7           FPUC planned to purchase power from FPL before its  
8           contract with JEA expires in December of 2017. FPUC  
9           responded that its contract does not allow it to take  
10          power from another wholesale provider.

11          My question is does FPUC anticipate  
12          negotiating a purchase contract with either JEA or FPL  
13          which enables it to purchase power from the other  
14          provider during the term of their contract?

15          **A**     No. We anticipate submitting -- issuing an  
16          RFP shortly to have a new purchased power agreement in  
17          place at the beginning of 2018.

18          **Q**     Okay. Could you please refer to page 7 of  
19          your prefiled direct testimony, specifically lines 13  
20          through 15.

21          **A**     What were those line numbers again?

22          **Q**     13 through 15. You stated that the addition  
23          of the FPL interconnection will provide much needed  
24          redundancy for the Northeast Division. In light of the  
25          answer to the previous question, please explain how the

1 FPL interconnection will provide redundancy to the FPUC  
2 system.

3 **A** After the completion of the interconnection,  
4 we will have two sources of transmission power that will  
5 be available to Amelia Island. So we will be able to,  
6 as of the beginning of 2018, have two transmission  
7 sources that feed Amelia Island as opposed to only one.

8 As I mentioned in my opening summary, there  
9 have been issues with transmission reliability. Since  
10 2010, there have been approximately three hours of time  
11 in which the Amelia Island had no power as a result of  
12 transmission issues, and we think this additional  
13 connection to Florida Power & Light will provide  
14 additional reliable transmission service to the island.

15 **Q** In response to staff's third set of  
16 interrogatories, specifically No. 15A, FPUC stated that  
17 the estimated in-service date of FPL interconnection  
18 construction is December 2017, which coincides with the  
19 expiration of its contract with JEA.

20 What plans does FPUC have for the  
21 interconnection system if at the end of the new contract  
22 negotiations it is still limited to taking power only  
23 from JEA?

24 **A** We anticipate with our RFP that is sent out we  
25 will be able to identify a number of additional

1 wholesale power sources within or nearby the State of  
2 Florida. And as such, we don't see that there will be  
3 any issues with selecting the low cost provider and  
4 being able to wheel power to Amelia Island through  
5 either the JEA or FPL transmission systems.

6 Q Mr. Cutshaw, can you please turn to the  
7 company's response to staff's third set of  
8 interrogatories No. 17.

9 A Is that an exhibit that is over here?

10 Q Yes. It was a courtesy copy that was passed  
11 out, No. 90. It's the one that has handwritten the name  
12 of the witness and party.

13 A Okay. And this is 15B?

14 Q I'm sorry?

15 A 15B?

16 Q It's 17. It was one of the first ones that  
17 was passed out.

18 A Okay. Interrogatory 17.

19 Q Yes.

20 A Okay.

21 Q Okay. Perfect. Is it correct that the  
22 estimated cost for constructing the station, equipment,  
23 poles and fixtures, overhead conductors and devices is  
24 approximately 3.5 million?

25 A That is correct.

1           **Q**    Has anything changed in this estimate since  
2 you prepared the interrogatory response?

3           **A**    No, it has not.

4           **Q**    And do you anticipate that it's likely to go  
5 either up or down in the near future?

6           **A**    Not to my knowledge. But I'm sure with  
7 construction projects this number will not be correct  
8 when it's over.

9           **Q**    In the biographical section of your testimony,  
10 specifically page 1, lines 8, through page 2, line 6,  
11 you stated you hold a degree in engineering and have  
12 responsibility for business development and generation.

13          **A**    That's correct.

14          **Q**    From an engineering perspective, can you  
15 describe for me the current transmission facilities?

16          **A**    The existing transmission interconnection with  
17 JEA is approximately eight miles of 138 kV transmission  
18 that is constructed on a single pole line. It is a dual  
19 circuit so that the -- there are actually from JEA two  
20 separate 138 kV circuits that run to Amelia Island, but  
21 they are constructed on the same pole line.

22          **Q**    Okay. And what is the age and the life  
23 expectancy of those assets?

24          **A**    The assets were reconstructed around the  
25 2000/2001 time period. They were constructed on

1 concrete poles with new conductors, and those assets  
2 have a typical 20- to 30-year, I'm sorry --

3 Q That's okay.

4 A -- life expectancy.

5 Q And what is the capacity of the current  
6 transmission facilities to meet future goals -- or its  
7 future load? I'm sorry.

8 A The existing facilities have the capacity to  
9 provide adequate supply to Amelia Island from now to  
10 many, many, many years in the future. The second supply  
11 of transmission facilities will also be constructed so  
12 that they are able to provide adequate supply into the  
13 future.

14 Q Assuming the new transmission line is  
15 approved, built and placed into service, how will FPUC's  
16 customers benefit?

17 A Again, as I mentioned earlier, not only will  
18 they provide -- not only will this line provide them  
19 with at least \$2.3 million per year in savings, and as  
20 you can see from some of the exhibits, that number could  
21 go up depending on the development of the purchased  
22 power agreements, but not only will it save them that  
23 money, there will be additional reliability with having  
24 two transmission sources to the island. The three hours  
25 of outage time that have occurred over the last six



1 years should not be a problem in the future.

2           **Q**     In the prior question I asked you to assume  
3 approval of the new line. Let's take an opposite view.  
4 Assuming the new transmission line is not approved,  
5 built and placed into service, how will that decision  
6 impact FPUC's customers?

7           **A**     That decision would result in a possible delay  
8 of having any savings. As we discussed, this is a very  
9 important project. We want to find a way to make it  
10 happen, and our goal at this point is to determine how  
11 quickly and most efficiently we can get it into service  
12 and then provide those savings to our customers. Should  
13 that not occur, we'll have to evaluate what are other  
14 alternatives, how can we put it into service, and by  
15 what means can we expect recovery?

16           **Q**     Could you please turn to your testimony on  
17 page 9, lines 1 through 6.

18           **A**     Okay.

19           **Q**     In this testimony, is it correct to say that  
20 FPUC can reasonably project that fuel savings will occur  
21 when this interconnection line is built?

22           **A**     Can you repeat that one time, please?

23           **Q**     No problem. Is it correct to say that FPUC  
24 can reasonably project that fuel savings will occur when  
25 this interconnection line is built?

1           **A**     Yes.

2           **Q**     And building from what is stated in your  
3 testimony and in consideration to your response above on  
4 the life expectancy of this facility, is it reasonable  
5 to project that the lifetime fuel savings for this  
6 project will exceed the project's cost?

7           **A**     By far, yes.

8           **Q**     How far? Estimate, please.

9           **MR. MOYLE:** I'm going to object to this line  
10 of questions because it's all based on stuff that's  
11 going to happen in the future. It calls for the  
12 witness to speculate how much is he going to save over  
13 the life of the project. You know, it all depends on  
14 negotiations and prices of gas and things, so it's not  
15 based in any kind of facts other than maybe  
16 projections.

17           **MS. JANJIC:** The exhibit was filed on the  
18 savings, so this is the type of stuff that we rely  
19 upon, and that's his testimony.

20           **CHAIRMAN GRAHAM:** I'm going to allow -- I'm  
21 going to allow the question and answer because this is  
22 within his expertise, and I guess she's just asking his  
23 opinion.

24           **THE WITNESS:** So can you ask the question one  
25 more time?

1           **MS. JANJIC:** Yes, sir.

2           **MS. CHRISTENSEN:** Commissioner, may I  
3 interject an objection just to note that the savings  
4 exhibit was attached to Mr. Young's testimony. And  
5 Mr. Young testified that he did not produce that  
6 exhibit, that that was produced by a consultant. So  
7 it's not only not Mr. Cutshaw's exhibit, it wasn't even  
8 produced by the person who was sponsoring it. So I've  
9 lodged those objections.

10           **MS. JANJIC:** I believe it was stated in the  
11 testimony the amount of savings. If you'll give me a  
12 moment, we can find it.

13           (Pause.)

14           **MR. MOYLE:** Mr. Chair, the record will speak  
15 for itself, but I don't believe this witness was  
16 designated as an expert in fuel projections. And if  
17 it's a projection that's not even prepared by him, he  
18 shouldn't be testifying to it. So we --

19           **CHAIRMAN GRAHAM:** Well, let's see what's in  
20 his testimony.

21           **MS. KEATING:** And, Mr. Chairman, if I may,  
22 Mr. Cutshaw has testified about the value of all the  
23 projects that are in his testimony, and certainly I  
24 think the line of questions that staff is on are fair  
25 questions in terms of savings from projects.

1 **BY MS. JANJIC:**

2 Q So is it safe to say that the life --

3 **CHAIRMAN GRAHAM:** Did you find it in his  
4 testimony?

5 **MS. JANJIC:** It seems to be in a redacted  
6 response, but can we get a second? I'm sorry.

7 **MS. CHRISTENSEN:** Commissioner, if I can  
8 help, it was attached to Curtis Young's CDY No. 3, page  
9 10 of 10.

10 **MS. JANJIC:** That was the math. But there --  
11 it was in -- he does testify that there will be  
12 savings. Just a second.

13 **MS. KEATING:** Mr. Chairman, if I may, on  
14 page 9 of Mr. Cutshaw's testimony, at the very top of  
15 the page he discusses the savings associated with the  
16 FPL interconnect. It's certainly within the scope of  
17 his testimony.

18 **MS. JANJIC:** Okay. Which I believe was the  
19 reference that I mentioned when asking at the beginning  
20 of the question, I said, "Turn to page 9, lines  
21 1 through 6. May I restate the question?"

22 **CHAIRMAN GRAHAM:** Please.

23 **MS. JANJIC:** Okay.

24 **BY MS. JANJIC:**

25 Q Building from what is stated in your testimony

1 on page 9, lines 1 through 6, is it -- and in  
2 consideration to your response above on the life  
3 expectancy of this facility, is it reasonable to project  
4 that the lifetime fuel savings for this project will  
5 exceed the project's cost?

6 **A** Yes.

7 **Q** And one more question, Mr. Cutshaw, and then  
8 I'll be done.

9 Mr. Cutshaw, is it correct that FPL will be  
10 constructing the transmission line with the costs to be  
11 reimbursed to FPL by FPUC?

12 **A** That's correct.

13 **MS. JANJIC:** Nothing further from staff.

14 **CHAIRMAN GRAHAM:** Commissioners.

15 Commissioner Brown.

16 **COMMISSIONER BROWN:** Thank you. And thank  
17 you for your testimony and your responses to some of  
18 these questions.

19 It appears from your testimony that this  
20 interconnection project is a priority of FPUC for  
21 reliability purposes and for its customers.

22 There were a variety of questions asked in  
23 different ways about what FPUC would do if the  
24 Commission does not approve the interconnection  
25 project. So I just want to be clear, is FPUC going

1 to pursue the project irrespective of whether we  
2 approve it during the fuel clause?

3 **THE WITNESS:** To my knowledge, we will  
4 evaluate this project in the context of a rate  
5 proceeding in the future and determine if that is in  
6 the best interest of the company and our customers.

7 Obviously with a rate proceeding there's a  
8 lot more to consider than one specific project.  
9 What we're doing in this proceeding is we're taking  
10 this project on its own and bringing it before the  
11 Commission to say we think with this we'll be able  
12 to save our customers money, we'll be able to get it  
13 in place and in service more quickly without a lot  
14 of the other distractions that would be involved  
15 with considering it in the context of a rate  
16 proceeding.

17 **COMMISSIONER BROWN:** Okay. If I may. And is  
18 there an alternative to that? Particularly could you  
19 renew the JEA agreement or another wholesale purchased  
20 power agreement or --

21 **THE WITNESS:** I mean, we are also going to,  
22 during this time period, evaluate who our next  
23 wholesale provider will be, and we anticipate with that  
24 change there will be considerable changes or savings  
25 for our customers. So not only are we going to do this

1 project which will provide savings, we will also be  
2 looking at a different wholesale power contract that  
3 will provide additional savings, as well as other  
4 projects. We're constantly working on, through our  
5 consultants and our legal staff, we're looking at other  
6 ways, other projects that we can bring into to place,  
7 like Eight Flags Energy, that will continue to provide  
8 savings to our customers.

9 **COMMISSIONER BROWN:** And get more favorable  
10 terms, et cetera.

11 **THE WITNESS:** That's correct.

12 **COMMISSIONER BROWN:** And you mentioned  
13 something about an RFP going out. When is the utility  
14 thinking of issuing that?

15 **THE WITNESS:** Typically a two-year time  
16 period is the minimum to be able to go out, look at the  
17 marketplace, look at different providers, and then put  
18 out the RFP, do negotiations, and then select a new  
19 wholesale provider in the future. So we will be doing  
20 that beginning the first of 2016.

21 **COMMISSIONER BROWN:** Thank you so much.

22 **CHAIRMAN GRAHAM:** Commissioner Edgar.

23 **COMMISSIONER EDGAR:** Thank you, Mr. Chairman.

24 I just have a few very general questions.

25 Good morning. Mr. Cutshaw, do I remember

1 correctly that you have participated in prior rate  
2 case proceedings for FPUC?

3 **THE WITNESS:** Yes, you do.

4 **COMMISSIONER EDGAR:** As a witness and  
5 attending customer meetings and other related  
6 activities?

7 **THE WITNESS:** Yes. Yes.

8 **COMMISSIONER EDGAR:** Are you -- and that  
9 FPUC's rates right now are subject to a current  
10 settlement agreement?

11 **THE WITNESS:** Yes.

12 **COMMISSIONER EDGAR:** Are you generally  
13 familiar with the terms of that settlement?

14 **THE WITNESS:** Vaguely.

15 **COMMISSIONER EDGAR:** Generally?

16 **THE WITNESS:** Yes.

17 **COMMISSIONER EDGAR:** Do you know the date  
18 that that settlement extends to?

19 **THE WITNESS:** Not in -- no, I do not.

20 **COMMISSIONER EDGAR:** Okay. My memory is  
21 approximately the end of next calendar year, but I  
22 would need to verify that. And it was only a little  
23 over a year ago. Time flies.

24 **THE WITNESS:** Yes, it does.

25 **COMMISSIONER EDGAR:** So if -- and are you



1 aware of when FPUC would be able to file for a new rate  
2 case or for a test year for a new rate case under the  
3 terms of the settlement?

4 **THE WITNESS:** I am not. I'm sorry.

5 **COMMISSIONER EDGAR:** Okay. That's okay. Is  
6 it your understanding that when FPUC is able under the  
7 terms of settlement to file for a full rate case, that  
8 there might be other issues that would be considered in  
9 a rate case beyond the project that is before us for  
10 potential fuel clause recovery?

11 **THE WITNESS:** Yes.

12 **COMMISSIONER EDGAR:** And with your experience  
13 participating in other rate cases, would you consider  
14 it a possibility that an overall rate case could result  
15 in increases for customers for other items?

16 **THE WITNESS:** Yes, it could.

17 **COMMISSIONER EDGAR:** All right. Thank you.

18 **THE WITNESS:** Very, very possible.

19 **COMMISSIONER EDGAR:** Thank you.

20 **CHAIRMAN GRAHAM:** Redirect.

21 **MS. KEATING:** No redirect, Mr. Chairman.

22 **CHAIRMAN GRAHAM:** Exhibits?

23 **MS. KEATING:** Mr. Cutshaw has no exhibits.

24 **CHAIRMAN GRAHAM:** OPC, did you have exhibits?

25 **MS. CHRISTENSEN:** Yes. I would move Exhibit

1 125.

2 **CHAIRMAN GRAHAM:** Seeing no objections, we'll  
3 move 125 into the record.

4 (Exhibit 125 admitted into the record.)

5 I don't think there's any other exhibits,  
6 so, Mr. Cutshaw, thank you very much for your  
7 testimony.

8 **THE WITNESS:** Thank you.

9 **MS. KEATING:** Thank you. If he may be  
10 excused. And also, Mr. Chairman, if I may ask, this  
11 concludes FPUC's witnesses. We are not involved in the  
12 remaining issues that are going to be pursued during  
13 the remainder of the fuel docket, and I wondered if it  
14 might be permissible that counsel for FPUC might also  
15 be excused.

16 **CHAIRMAN GRAHAM:** Who might that be?

17 (Laughter.)

18 Sure.

19 **MS. KEATING:** Thank you, Mr. Chairman. I  
20 appreciate it.

21 **CHAIRMAN GRAHAM:** Okay. Let's move on to our  
22 next witness.

23 **MR. BADDERS:** Chairman Graham, the next  
24 witness is Mr. Ball on behalf of Gulf Power.

25 Chairman Graham, I'll note for the record

1 that he was present yesterday when the witnesses  
2 were sworn and he took the oath.

3 Whereupon,

4 **HERBERT RUSSELL BALL**

5 was called as a witness on behalf of Gulf Power Company  
6 and, having first been duly sworn, testified as follows:

7 **EXAMINATION**

8 **BY MR. BADDERS:**

9 **Q** Mr. Ball, would you please state your name and  
10 business address for the record.

11 **A** My name is Herbert Russell Ball, and my  
12 business address is Gulf Power Company, 1 Energy Place,  
13 Pensacola, Florida 32520.

14 **Q** And what is your job title?

15 **A** My job title is Fuel Manager for Gulf Power  
16 Company.

17 **Q** Thank you. Are you the same H. R. Ball who  
18 prefiled true-up testimony on March 3rd, 2015;  
19 September -- projection testimony on September 1, 2015;  
20 and estimated/actual testimony on August 4th, 2015?

21 **A** Yes.

22 **Q** Do you have any changes or corrections to that  
23 testimony?

24 **A** No.

25 **Q** If I were to ask you the same questions today,

1 would your answers be the same?

2 **A** Yes.

3 **MR. BADDERS:** Chairman Graham, it's my  
4 understanding that at least two parties have requested  
5 voir dire of this witness. Gulf would offer this  
6 witness as an expert with regard to fuel procurement,  
7 hedging, and all of the other matters listed on our  
8 October 14th, 2015, notice of areas of expert witness  
9 expertise, and he's available for voir dire.

10 **CHAIRMAN GRAHAM:** Mr. Moyle, I think you're  
11 first up.

12 **MR. MOYLE:** Thank you, Mr. Chairman. Just a  
13 few questions.

14 **VOIR DIRE EXAMINATION**

15 **BY MR. MOYLE:**

16 **Q** You -- in college you were a chemistry major;  
17 is that right?

18 **A** I have a Bachelor's of Science degree -- major  
19 in chemistry, and I have a Master's Degree in business  
20 administration.

21 **Q** Okay. And the filing that your company made  
22 on October 14th which designated your areas of  
23 expertise, have you seen that? Are you aware of that  
24 filing?

25 **A** I have seen it, yes.

1 Q Okay. Is it accurate in your opinion?

2 A Yes. In my opinion, yes.

3 Q So there's nothing for which you would express  
4 expertise beyond what was set forth in this filing as it  
5 relates to energy matters? You might be a great  
6 fisherman, but, you know, it's limited to energy  
7 matters.

8 A You know, I guess I wouldn't say that's all  
9 inclusive, but I think it fairly represents what I'm  
10 testifying to in this proceeding.

11 Q So you said it is all inclusive? I just  
12 didn't hear you.

13 A I said, no, I don't necessarily say that it's  
14 all inclusive, but I think it's fairly representative of  
15 what I'm testifying to in this proceeding.

16 Q Okay. What other areas would you have  
17 expertise in that related to energy that --

18 A Well, I guess my point is there may be some  
19 things that I'm not aware of that you may have questions  
20 about, so I'm just -- I'm not stating that that includes  
21 every possible item that could be addressed in this.  
22 But regarding my direct testimony, I think that, you  
23 know, I am -- I do provide expertise in the areas that I  
24 provided direct testimony.

25 Q And I've read your testimony. To my reading

1 of your testimony, most of what you're suggesting is  
2 facts to say here's how we hedge, here are the results  
3 of the hedge. You don't have a lot of opinion  
4 testimony. Would you agree with that general  
5 assessment?

6 **A** I wouldn't say that I have a lot of opinions  
7 about hedging. I just state what Gulf does in regards  
8 to hedging in my testimony, and I try to explain the  
9 mechanism of the Risk Management Plan that we filed and  
10 how that's implemented by Gulf and what we expect the  
11 results to be.

12 **Q** Okay. And so some of the other utilities,  
13 when they filed a similar document, they used the phrase  
14 "regulatory policy considerations related to hedging."  
15 That phrase is not in your notice, so I assume that  
16 that's not an area of expertise that you're suggesting  
17 be considered?

18 **A** Well, I think if you look at the Risk  
19 Management Plan that's an exhibit to that testimony,  
20 you'll find that we do -- or that I do state that I  
21 believe that the Risk Management Plan that Gulf files is  
22 an appropriate and reasonable implementation of the  
23 Commission's hedging order.

24 **Q** Anything else?

25 **A** I'm not aware of what you're asking about as

1 far as anything else.

2 Q Related to areas of expertise. I mean, if I  
3 ask you questions about policy and start digging down  
4 into hedging, are you going to be comfortable answering  
5 those?

6 A I'll do the very best that I can.

7 MR. MOYLE: Okay. All right. We don't have  
8 an objection.

9 CHAIRMAN GRAHAM: Mr. Wright.

10 MR. WRIGHT: We don't have any objection. I  
11 have no voir dire for Mr. Ball. Thank you.

12 MR. BADDERS: Then we would move to move into  
13 the record the prefiled direct testimony of H. R. Ball  
14 as though read.

15 CHAIRMAN GRAHAM: We will move Mr. Ball's  
16 direct testimony into the record as though read.

17 EXAMINATION

18 BY MR. BADDERS:

19 Q Mr. Ball, do you also have five exhibits  
20 attached to your testimony?

21 A Yes.

22 Q Do you have any changes or corrections to  
23 those exhibits?

24 A No.

25 MR. BADDERS: I'll note for the record that

1 those exhibits have already been identified as  
2 exhibits -- I believe it's 35 through 39.

3 **CHAIRMAN GRAHAM:** Duly noted.

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25



GULF POWER COMPANY

Before the Florida Public Service Commission  
Prepared Direct Testimony and Exhibits of  
H. R. Ball  
Docket No. 150001-EI  
Date of Filing: March 3, 2015

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

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

A. My name is Herbert Russell Ball. My business address is One Energy Place, Pensacola, Florida 32520-0780. I am the Fuel Manager for Gulf Power Company.

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

A. I graduated from the University of Southern Mississippi in 1978 with a Bachelor of Science Degree (Chemistry major) and again in 1988 with a Masters of Business Administration. My employment with the Southern Company began in 1978 at Mississippi Power Company (MPC) at Plant Daniel as a Plant Chemist. In 1982, I transferred to MPC's Corporate Office and worked in the Fuel Department as a Fuel Business Analyst. In 1987 I was promoted and returned to Plant Daniel as the Supervisor of Chemistry and Regulatory Compliance. In 1998 I transferred to Southern Company Services, Inc. in Birmingham, Alabama and took the position of Supervisor of Coal Logistics. My responsibilities included administering coal supply and transportation agreements and managing the coal inventory program for the Southern electric system (SES). I transferred to my current position as Fuel Manager for Gulf Power Company in 2003.

1 Q. What are your duties as Fuel Manager for Gulf Power Company?

2 A. My responsibilities include the management of the Company's fuel  
3 procurement, inventory, transportation, budgeting, contract administration,  
4 and quality assurance programs to ensure that the generating plants  
5 operated by Gulf Power are supplied with an adequate quantity of fuel in a  
6 timely manner and at the lowest practical cost. I also have responsibility  
7 for the administration of Gulf's participation in the Intercompany  
8 Interchange Contract (IIC) between Gulf and the other operating  
9 companies in the Southern electric system (SES).

10

11 Q. What is the purpose of your testimony in this docket?

12 A. The purpose of my testimony is to summarize Gulf Power Company's fuel  
13 expenses, net power transaction expense, and purchased power capacity  
14 costs, and to certify that these expenses were properly incurred during the  
15 period January 1, 2014 through December 31, 2014. Also, it is my intent  
16 to be available to answer questions that may arise among the parties to  
17 this docket concerning Gulf Power Company's fuel expenses.

18

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

21 A. Yes, I have.

22 Counsel: We ask that Mr. Ball's exhibit consisting of four schedules be  
23 marked as Exhibit No. \_\_\_\_\_(HRB-1).

24

25

1 Q. During the period January 2014 through December 2014, how did Gulf  
2 Power Company's recoverable total fuel and net power transaction  
3 expenses compare with the projected expenses?

4 A. Gulf's recoverable total fuel cost and net power transaction expense was  
5 \$493,087,844 which is \$13,457,842 or 2.81% above the projected amount  
6 of \$479,630,002. Actual net power transaction energy was  
7 12,020,038,884 kWh compared to the projected net energy of  
8 12,180,797,600 kWh or 1.32% below projections. The resulting actual  
9 average cost of 4.1022 cents per kWh was 4.18% above the projected  
10 cost of 3.9376 cents per kWh. This information is from Schedule A-1,  
11 period-to-date, for the month of December 2014 included in Appendix 1 of  
12 Witness Boyett's exhibit. The higher total fuel and net power transaction  
13 expense is attributed to a higher per unit cost (cents per kWh) for available  
14 energy than projected for the period offset somewhat by a lower quantity  
15 of energy (kWh) available after economy and other power sales are  
16 deducted. The total quantity of power sales is higher than projected as a  
17 result of Gulf's available energy being lower cost than other energy  
18 sources which resulted in these generating assets being economically  
19 dispatched to serve system load. The actual total cost of available energy  
20 was above projections by \$49,166,435 or 8.62% and the total quantity of  
21 available energy was above projections by 2,584,599,499 kWh or 17.29%.  
22 The actual cost per kWh of available energy was 3.531 cents per kWh  
23 which is 7.39% lower than the projected cost of 3.813 cents per kWh. The  
24 lower cost per kWh for available energy is due primarily to the mix of  
25 available energy containing a higher percentage of purchased power.

1           These energy purchases were primarily from lower cost gas fired  
2           generating units that Gulf has secured under Purchase Power  
3           Agreements (PPA's).

4  
5    Q.     During the period January 2014 through December 2014, how did Gulf  
6           Power Company's recoverable fuel cost of net generation compare with  
7           the projected expenses?

8    A.     Gulf's recoverable fuel cost of system net generation was \$403,824,215 or  
9           4.63% above the projected amount of \$385,956,107. Actual generation  
10           was 9,940,645,000 kWh compared to the projected generation of  
11           9,567,137,000 kWh, or 3.90% above projections. The resulting actual  
12           average fuel cost of 4.0624 cents per kWh was 0.70% above the projected  
13           fuel cost of 4.0342 cents per kWh. The higher total fuel expense is  
14           attributed primarily to the quantity of kWh generated being higher than  
15           projected for the period. The actual quantity of fuel consumed was  
16           93,122,696 MMBTU which is 4.65% above the projected quantity of  
17           88,985,589 MMBTU. The percentage of energy generated from coal fired  
18           resources was 59.01%, which was 0.89% lower than the projected  
19           percentage of 59.54%. The weighted average fuel cost for natural gas  
20           was \$3.44 cents per kWh, which is 1.47% above the projected cost of  
21           \$3.39 cents per kWh. The weighted average fuel cost for coal, plus lighter  
22           fuel, was \$4.49 cents per kWh, which is 0.22% higher than the projected  
23           cost of \$4.48 cents per kWh. This information is found on Schedule A-3,  
24           period-to-date, for the month of December 2014 included in Appendix 1 of  
25           Witness Boyett's exhibit.

1 Q. How did the total projected cost of coal purchased compare with the actual  
2 cost?

3 A. The total actual cost of coal purchased was \$232,648,702 (line 17 of  
4 Schedule A-5, period-to-date, for December 2014) compared to the  
5 projected cost of \$244,846,800 or 4.98% below the projected amount.  
6 The lower total coal cost was due to the actual weighted average price of  
7 coal purchased being \$83.92 per ton which is 7.10% below the projected  
8 price of \$90.33 per ton. Gulf purchased some lower cost spot coal during  
9 the current period.

10

11 Q How did the total projected cost of coal burned compare to the actual  
12 cost?

13 A. The total cost of coal burned was \$258,875,502 (line 21 of Schedule A-5,  
14 period-to-date, for December 2014). This is 3.20% higher than the  
15 projection of \$250,845,394. The higher total coal burn cost was due to the  
16 quantity of coal burned being 7.72% above projections offset somewhat by  
17 the actual weighted average coal burn cost being \$88.48 per ton which is  
18 4.19% below the projected burn cost of \$92.35 per ton for the period.

19

20 Q. How did the total projected cost of natural gas burned compare to the  
21 actual cost?

22 A. The total actual cost of natural gas burned for generation was  
23 \$138,908,611 (line 34 of Schedule A-5, period-to-date, for December  
24 2014). This is 7.24% above the projection of \$129,524,607. The higher  
25 total gas cost was due to the actual weighted average gas burn cost being

1           \$5.24 per MMBTU, which is 6.29% higher than the projected burn cost of  
2           \$4.93 per MMBTU.

3

4    Q.     Did fuel procurement activity during the period in question follow Gulf  
5           Power's Risk Management Plan for Fuel Procurement?

6    A.     Yes. Gulf Power's fuel strategy in 2014 complied with the Risk  
7           Management Plan filed on August 2, 2013.

8

9    Q.     Did implementation of the Risk Management Plan for Fuel Procurement  
10           result in a reliable supply of coal being delivered to Gulf's coal-fired  
11           generating units during the period?

12   A.     Yes. The supply of coal and associated transportation to Gulf's generating  
13           plants is generally secured through a combination of long-term contracts  
14           and spot agreements as specified in the plan. These supply and  
15           transportation agreements included a number of purchase commitments  
16           initiated prior to the beginning of the period. These early purchase  
17           commitments and the planned diversity of fuel suppliers are designed to  
18           provide a more reliable source of coal to the generating plants. The result  
19           was that Gulf's coal-fired generating units had an adequate supply of fuel  
20           available at all times at a reasonable cost to meet the electric generation  
21           demands of its customers.

22

23   Q.     For coal shipments during the period, what percentage was purchased on  
24           the spot market and what percentage was purchased using longer-term  
25           contracts?

1 A. As shown in Schedule 1 of my exhibit, total coal shipments for the period  
2 amounted to 2,772,383 tons. Gulf purchased 47% of this coal on the spot  
3 market. Spot purchases are classified as coal purchase agreements with  
4 terms of one year or less. Spot coal purchases are typically needed to  
5 allow a portion of the purchase quantity commitments to be adjusted in  
6 response to changes in coal burn that may occur during the year due  
7 either to economic or operational reasons. Gulf purchased 53% of its  
8 2014 coal supply under longer-term contracts. Longer-term contracts  
9 provide a reliable base quantity of coal to Gulf's generating units with firm  
10 pricing terms. This limits price volatility and increases coal supply  
11 consistency over the term of the agreements. Schedule 1 of my exhibit  
12 consists of a list of contract and spot coal shipments to Gulf's generating  
13 plants for the period as reported on the monthly FPSC 423 reports.

14  
15 Q. Did implementation of the Risk Management Plan for Fuel Procurement  
16 result in stable coal prices for the period?

17 A. Yes. Coal cost volatility was mitigated through compliance with the Risk  
18 Management Plan. Gulf uses physical hedges to reduce price volatility in  
19 its coal procurement program. Gulf purchases coal and associated  
20 transportation at market price through the process of either issuing formal  
21 requests for proposals to market participants or occasionally for small  
22 quantity spot purchases through informal proposals. Once these  
23 confidential bids are received, they are evaluated against other similar  
24 proposals using standard contract terms and conditions. The least cost  
25 acceptable alternatives are selected and firm purchase agreements are

1 negotiated with the successful bidders. Gulf purchased coal and coal  
2 transportation using a combination of firm price contracts and purchase  
3 orders that either fix the price for the period or escalate the price using a  
4 combination of government published economic indices. Schedule 2 of  
5 my exhibit provides a list of the contract and spot coal shipments for the  
6 period and the weighted average price of shipments under each purchase  
7 agreement in \$/MMBTU. Because of the more balanced mix of longer-  
8 term contract coal purchase agreements and spot purchase agreements  
9 during the period, Gulf was able to take advantage of lower market pricing  
10 for spot coal. The variance between the estimated purchase price of coal  
11 and the actual price for the period was 7.10% below projected as reported  
12 on line 16 of Schedule A-5, period to date, for the month of December  
13 2014.

14  
15 Q. Did implementation of the Risk Management Plan for Fuel Procurement  
16 result in a reliable supply of natural gas being delivered to Gulf's gas-fired  
17 generating units at a reasonable price during the period?

18 A. Yes. The supply of natural gas and associated transportation to Gulf's  
19 generating plants was secured through a combination of long-term  
20 purchase contracts and daily gas purchases as specified in the plan.  
21 These supply and transportation agreements included a number of  
22 purchase commitments initiated prior to the beginning of the period.  
23 These natural gas purchase agreements price the supply of gas at market  
24 price as defined by published market indices. Schedule 3 of my exhibit  
25 compares the actual monthly weighted average purchase price of natural



1 gas delivered to Gulf's generating units to a market price based on the  
2 daily Florida Gas Transmission Zone 3 published market price plus an  
3 estimated gas storage and transportation rate based on the actual cost of  
4 gas storage and transportation Gulf paid during the period. The purpose  
5 of early natural gas procurement commitments, the planned diversity of  
6 natural gas suppliers, and providing gas suppliers with market pricing is to  
7 provide a more reliable source of gas to Gulf's generating units. The  
8 result was that Gulf's gas-fired generating units had an adequate supply of  
9 fuel available at all times at a reasonable price to meet the electric  
10 generation demands of its customers.

11  
12 Q. Did implementation of the Risk Management Plan for Fuel Procurement  
13 result in lower volatility of natural gas prices for the period?

14 A. Yes. Gulf purchases physical natural gas requirements at market prices  
15 and swaps the market price on a percentage of these purchases for firm  
16 prices using financial hedges. The objective of the financial hedging  
17 program is to reduce upside price risk to Gulf's customers in a volatile  
18 price market for natural gas. In 2014, Gulf's weighted average cost of  
19 natural gas purchases for generation was \$5.21 per MMBTU. This was  
20 5.68% higher than the projection of \$4.93 per MMBTU (line 29 of  
21 Schedule A-5, period-to-date, for December 2014). The volatility of Gulf's  
22 natural gas cost has been reduced by utilizing financial hedging as  
23 described in the Fuel Risk Management Plan. As shown on Schedule 4 of  
24 my exhibit, the calculated volatility of Gulf's delivered cost of natural gas  
25 for the Smith 3 and Central Alabama PPA combined cycle generating

1 units for the period is represented by a variance of 0.33 and standard  
2 deviation of 0.58. By contrast, the calculation of the volatility of Gulf's  
3 hedged delivered cost of natural gas for the period yields a variance of  
4 0.08 and a standard deviation of 0.28. The lower values for variance and  
5 standard deviation for the set of hedged prices demonstrates that Gulf's  
6 financial hedging program is achieving the goal of reducing the volatility of  
7 natural gas cost to the customer.

8  
9 Q. For the period in question, what volume of natural gas was actually  
10 hedged using a fixed price contract or financial instrument?

11 A. Gulf Power hedged 34,910,000 MMBTU of natural gas in 2014 using  
12 financial instruments. This represents 59% of Gulf's 58,867,934 MMBTU  
13 of actual gas burn for Smith Unit 3 plus the actual gas burn for the Central  
14 Alabama PPA combined cycle unit during the period. The total amount of  
15 natural gas burn by month for these units is reported on Schedule 4 of my  
16 exhibit.

17  
18 Q. What types of hedging instruments were used by Gulf Power Company,  
19 and what type and volume of fuel was hedged by each type of instrument?

20 A. Natural gas was hedged primarily using financial swap contracts that fixed  
21 the price of gas to a certain price. These swaps settled against either a  
22 NYMEX Last Day price or Gas Daily price. Of the volume of gas hedged  
23 for the period, 31,840,000 or 91.1% was hedged using financial swap  
24 contracts and 3,070,000 or 8.9% was hedged using option contracts.

25

1 Q. What was the actual total cost (e.g., fees, commissions, option premiums,  
2 futures gains and losses, swap settlements) associated with each type of  
3 hedging instrument for the period January 2014 through December 2014?

4 A. No fees, commissions, or premiums were paid by Gulf on the financial  
5 hedge transactions during this period. Gulf's 2014 hedging program  
6 resulted in a net financial gain of \$1,910,889 as shown on line 2 of  
7 Schedule A-1, period-to-date, for the month of December 2014 included in  
8 Appendix 1 of Witness Boyett's exhibit.

9

10 Q. Were there any other significant developments in Gulf's fuel procurement  
11 program during the period?

12 A. No.

13

14 Q. During the period January 2014 through December 2014 how did Gulf  
15 Power Company's recoverable fuel cost of power sold compare with the  
16 projection?

17 A. Gulf's recoverable fuel cost of power sold for the period is (\$126,131,992)  
18 or 39.49% above the projected amount of (\$90,423,400). Total kilowatt  
19 hours of power sales were (5,515,215,215) kWh compared to estimated  
20 sales of (2,769,857,000) kWh, or 99.12% above projections. The resulting  
21 average fuel cost of power sold was 2.2870 cents per kWh or 29.95%  
22 below the projected amount of 3.2646 cents per kWh. This information is  
23 from Schedule A-1, period-to-date, for the month of December 2014  
24 included in Appendix 1 of Witness Boyett's exhibit.

25

1 Q. What are the reasons for the difference between Gulf's actual fuel cost of  
2 power sold and the projection?

3 A. The higher total credit to fuel expense from power sales is attributed to the  
4 higher total quantity of energy sales (kWh) than projected. The more  
5 favorable position of Gulf's generating assets in system economic dispatch  
6 to serve load resulted in a greater quantity of energy sales. This was offset  
7 somewhat by a below budget fuel reimbursement rate (cents per kWh) paid  
8 to Gulf for typical power sales.

9

10 Q. During the period January 2014 through December 2014, how did Gulf  
11 Power Company's recoverable fuel cost of purchased power compare to  
12 projected cost?

13 A. Gulf's recoverable fuel cost of purchased power for the period was  
14 \$217,315,321 or 18.05% above the estimated amount of \$184,081,492.  
15 Total kilowatt hours of purchased power were 7,594,609,099 kWh  
16 compared to the estimate of 5,383,517,600 kWh or 41.07% above  
17 projections. The resulting average fuel cost of purchased power was  
18 2.8614 cents per kWh or 16.32% below the estimated amount of 3.4194  
19 cents per kWh. This information is from Schedule A-1, period-to-date, for  
20 the month of December 2014 included in Appendix 1 of Witness Boyett's  
21 exhibit.

22

23

24

25

1 Q. What are the reasons for the difference between Gulf's actual fuel cost of  
2 purchased power and the projection?

3 A. The higher total fuel cost of purchased power is attributed to Gulf  
4 purchasing a greater amount of kWh at attractive prices to supplement its  
5 own generation to meet load demands. This includes energy supplied to  
6 Gulf through purchase power agreements. The average fuel cost of  
7 energy purchases per kWh was lower than projected as a result of lower-  
8 cost energy being made available to Gulf for purchase during the period.  
9

10 Q. Should Gulf's recoverable fuel and purchased power cost for the period be  
11 accepted as reasonable and prudent?

12 A. Yes. Gulf's coal supply program is based on a mixture of long-term  
13 contracts and spot purchases at market prices. Coal suppliers are  
14 selected using procedures that assure reliable coal supply, consistent  
15 quality, and competitive delivered pricing. The terms and conditions of  
16 coal supply agreements have been administered appropriately. Natural  
17 gas is purchased using agreements that tie price to published market  
18 index schedules and is transported using a combination of firm and  
19 interruptible gas transportation agreements. Natural gas storage is  
20 utilized to assure that supply is available during times when gas supply is  
21 otherwise curtailed or unavailable. Gulf's lighter oil purchases were made  
22 from qualified vendors using an open bid process to assure competitive  
23 pricing and reliable supply. Gulf adhered to its Risk Management Plan for  
24 Fuel Procurement and accomplished the objectives established by the  
25 plan. Through its participation in the integrated Southern electric system,

1 Gulf is able to purchase affordable energy from pool participants and other  
2 sellers of energy when needed to meet load and during times when the  
3 cost of purchased power is lower than energy that could be generated  
4 internally. Gulf is also able to sell energy to the pool when excess  
5 generation is available and return the benefits of these sales to the  
6 customer. These energy purchases and sales are governed by the IIC  
7 which is approved by the Federal Energy Regulatory Commission (FERC).  
8 Gulf also purchases power when economically attractive under the terms  
9 of several external purchase power agreements which have been  
10 reviewed and approved by the Commission.

11  
12 Q. During the period January 2014 through December 2014, how did Gulf's  
13 actual net purchased power capacity cost compare with the net projected  
14 cost?

15 A. The actual total capacity payments for the January 2014 through  
16 December 2014 recovery period, as shown on line 4 of Schedule CCA-2  
17 of Witness Boyett's  
18 Exhibit, was \$63,345,952. Gulf's total re-projected net purchased power  
19 capacity cost for the same period was \$62,478,533, as indicated on line 4  
20 of Schedule CCE-1B of Witness Boyett's exhibit filed July 25, 2014. The  
21 difference between the actual net capacity cost and the projected net  
22 capacity cost for the recovery period is \$867,419 or 1.39% higher than the  
23 re-projected amount. This higher actual cost is due to Gulf having higher  
24 capacity costs under its purchased power agreements than the re-  
25 projected amount for the 2014 recovery period.

1 Q. Was Gulf's actual 2014 IIC capacity cost prudently incurred and properly  
2 allocated to Gulf?

3 A. Yes. Gulf's capacity costs were incurred in accordance with the reserve  
4 sharing provisions of the IIC in which Gulf has been a participant for many  
5 years. Gulf's participation in the integrated Southern electric system that  
6 is governed by the IIC has produced and continues to produce substantial  
7 benefits for Gulf's customers and has been recognized as being prudent  
8 by the Florida Public Service Commission in previous proceedings and  
9 reviews. Per contractual agreement in the IIC, Gulf and the other SES  
10 operating companies are obligated to provide for the continued operation  
11 of their electric facilities in the most economical manner that achieves the  
12 highest possible service reliability. The coordinated planning of future  
13 SES generation resource additions that produce adequate reserve  
14 margins for the benefit of all SES operating companies' customers  
15 facilitates this "continued operation" in the most economical manner. The  
16 IIC provides for mechanisms to facilitate the equitable sharing of the costs  
17 associated with the operation of facilities that exist for the mutual benefit of  
18 all the operating companies. In 2014, Gulf's reserve sharing cost  
19 represents the equitable sharing of the costs that the SES operating  
20 companies incurred to ensure that adequate generation reserve levels are  
21 available to provide reliable electric service to customers. This cost has  
22 been properly allocated to Gulf pursuant to the terms of the IIC.

23

24 Q. Mr. Ball, does this complete your testimony?

25 A. Yes.

## 1 GULF POWER COMPANY

2 Before the Florida Public Service Commission  
3 Prepared Direct Testimony of  
4 H. R. Ball  
5 Docket No. 150001-EI  
6 August 4, 2015

7 Q. Please state your name and business address.

8 A. My name is Herbert Russell Ball. My business address is One Energy  
9 Place, Pensacola, Florida 32520-0335. I am the Fuel Manager for Gulf  
10 Power Company.

11 Q. Please briefly describe your educational background and business  
12 experience.

13 A. I graduated from the University of Southern Mississippi in Hattiesburg,  
14 Mississippi in 1978 with a Bachelor of Science Degree in Chemistry and  
15 graduated from the University of Southern Mississippi in Long Beach,  
16 Mississippi in 1988 with a Masters of Business Administration. My  
17 employment with the Southern Company began in 1978 at Mississippi  
18 Power's (MPC) Plant Daniel as a Plant Chemist. In 1982, I transferred to  
19 MPC's Fuel Department as a Fuel Business Analyst. I was promoted in  
20 1987 to Supervisor of Chemistry and Regulatory Compliance at Plant  
21 Daniel. I was promoted to Supervisor of Coal Logistics with Southern  
22 Company Fuel Services in Birmingham, Alabama in 1998. My  
23 responsibilities included administering coal supply and transportation  
24 agreements and managing the coal inventory program for the Southern  
25  
26



1 Electric System. I transferred to my current position as Fuel Manager for  
2 Gulf Power Company in 2003.

3

4 Q. What are your duties as Fuel Manager for Gulf Power Company?

5 A. I manage the Company's fuel procurement, inventory, transportation,  
6 budgeting, contract administration, and quality assurance programs to  
7 ensure that the generating plants operated by Gulf Power are supplied  
8 with an adequate quantity of fuel in a timely manner and at the lowest  
9 practical cost. I also have responsibility for the administration of Gulf's  
10 Intercompany Interchange Contract (IIC).

11

12 Q. What is the purpose of your testimony in this docket?

13 A. The purpose of my testimony is to compare Gulf Power Company's  
14 original projected fuel and net power transaction expense and purchased  
15 power capacity costs with current estimated/actual costs for the period  
16 January 2015 through December 2015 and to summarize any noteworthy  
17 developments at Gulf in these areas. The current estimated/actual costs  
18 consist of actual expenses for the period January 2015 through June 2015  
19 and projected fuel and net power transaction costs for July 2015 through  
20 December 2015. It is also my intent to be available to answer questions  
21 that may arise among the parties to this docket concerning Gulf Power  
22 Company's fuel and net power transaction expenses, and purchased  
23 power capacity costs.

24

25

1 Q. Have you prepared any exhibits that contain information to which you will  
2 refer in your testimony?

3 A. I have no exhibits I am sponsoring as part of this testimony.  
4

5 Q. During the period January 2015 through December 2015 how will Gulf  
6 Power Company's recoverable total fuel and net power transactions cost  
7 compare with the original cost projection?

8 A. Gulf's currently projected recoverable total fuel and net power transactions  
9 cost for the period is \$431,021,459 which is \$10,806,260 or 2.45% below  
10 the original projected amount of \$441,827,719. The lower total fuel and net  
11 power transaction expense for the period is attributed to higher fuel revenue  
12 from power sales offset somewhat by a higher total fuel cost of available  
13 energy. The resulting average per unit fuel cost is projected to be 3.5539  
14 cents per kWh or 2.48% lower than the original projection of 3.6441 cents  
15 per kWh. The lower average per unit fuel and net power transactions cost  
16 (cents per kWh) is attributed to a lower per unit fuel cost of available energy  
17 for the period driven primarily by lower costs for purchased power, offset  
18 somewhat by a lower per unit fuel cost and gains on power sales. This  
19 current projection of fuel and net purchased power transaction cost is  
20 captured in the exhibit to Witness Boyett's testimony, Schedule E-1B-1, Line  
21 21.  
22

23 Q. During the period January 2015 through December 2015 how will Gulf  
24 Power Company's recoverable total fuel cost of generated power compare  
25 with the original projection of fuel cost?

1 A. Gulf's currently projected recoverable total fuel cost of generated power for  
2 the period is \$330,357,916 which is \$50,288,197 or 17.96% above the  
3 original projected amount of \$280,069,719. Total generation is expected to  
4 be 8,291,757,000 kWh compared to the original projected generation of  
5 7,527,320,000 kWh or 10.16% above original projections. The resulting  
6 average fuel cost is expected to be 3.9842 cents per kWh or 7.08% above  
7 the original projected amount of 3.7207 cents per kWh. This current  
8 projection of fuel cost of system net generation is captured in the exhibit to  
9 Witness Boyett's testimony, Schedule E-1B-1, Line 6.

10

11 Q. What are the reasons for the difference between Gulf's original projection of  
12 the total fuel cost of generated power and the current projection?

13 A. The higher total fuel expense is due to higher average per unit fuel costs  
14 (cents/kWh), including financial hedging settlements, combined with a  
15 higher than originally projected quantity of generated power (kWh).

16

17 Q How did the total projected fuel cost of system net generation compare to  
18 the actual cost for the first six months of 2015?

19 A. The total fuel cost of system net generation for the first six months of 2015  
20 was \$151,625,468 which is \$486,399 or 0.32% lower than the projected  
21 cost of \$152,111,867. On a fuel cost per kWh basis, the actual cost was  
22 3.59 cents per kWh, which is 6.51% lower than the projected cost of 3.84  
23 cents per kWh. This lower than projected cost of system generation on a  
24 cents per kWh basis is due to fuel cost in \$/MMBtu being 8.35% lower than  
25 projected, offset somewhat by heat rate (Btu/kWh) of the generating units

1 operating being 1.87% higher than projected. The lower price of fuel is a  
2 result of lower market prices for natural gas than projected for the period  
3 offset somewhat by coal fired units operating at reduced efficiency levels  
4 during the period. This information is found on Schedule A-3 Period to Date  
5 of the June 2015 Monthly Fuel Filing.

6

7 Q. How did the total projected cost of coal burned compare to the actual cost  
8 for the first six months of 2015?

9 A. The total cost of coal burned (including boiler lighter) for the first six months  
10 of 2015 was \$98,957,646 which is \$16,161,826 or 19.52% higher than the  
11 projection of \$82,795,820. The total coal fired generation was 2,345,148  
12 MWH which is 13.77% higher than the projection of 2,061,382 MWH for the  
13 period. On a fuel cost per kWh basis, the actual cost was 4.22 cents per  
14 kWh which is 4.98% higher than the projected cost of 4.02 cents per kWh.  
15 The higher than projected total cost of coal burned (including boiler lighter)  
16 is due to total MMBtu of coal burn being 16.69% above the estimated burn  
17 for the period. The higher per kWh cost of coal fired generation is due to  
18 the weighted average heat rate (Btu/kWh) of the coal fired generating units  
19 that operated being 2.56% higher than projected combined with actual coal  
20 prices (including boiler lighter) being 2.41% higher than projected on a  
21 \$/MMBtu basis. This information is found on Schedule A-3 Period to Date  
22 of the June 2015 Monthly Fuel Filing. Gulf has fixed price coal contracts in  
23 place for the period to limit price volatility and ensure reliability of supply.  
24 Actual average prices for coal purchased during the period are higher due to  
25

1 a change in the timing and mix of contract shipments to Gulf's coal fired  
2 generating plants.

3

4 Q. How did the total projected cost of natural gas burned compare to the actual  
5 cost during the first six months of 2015?

6 A. The total cost of natural gas burned for generation for the first six months of  
7 2015 was \$52,064,038 which is \$16,851,858 or 24.45% lower than Gulf's  
8 projection of \$68,915,896. The total gas fired generation was 1,866,594  
9 MWH which is 1.02% lower than the projection of 1,885,886 MWH for the  
10 period. The total cost of natural gas burned for generation is lower than the  
11 forecast due to lower prices for gas combined with lower gas fired  
12 generation for the period. On a cost per unit basis, the actual cost of gas  
13 fired generation was 2.79 cents per kWh which is 23.56% lower than the  
14 projected cost of 3.65 cents per kWh. Actual natural gas prices were \$4.21  
15 per MMBtu or 20.86% lower than the projected cost of \$5.32 per MMBtu.  
16 The gas fired unit heat rate (Btu/KWH) was 4.09% less or more efficient  
17 than projected. This information is found on Schedule A-3 Period to Date of  
18 the June 2015 Monthly Fuel Filing.

19

20 Q. For the period January 2015 through June 2015, what volume of natural gas  
21 was actually hedged using a fixed price contract or instrument?

22 A. Gulf Power financially hedged 16,600,000 MMBtu of natural gas for the  
23 period. This equates to 65.5% of the actual natural gas burn for Gulf's  
24 combined cycle generating units during the period of 25,342,828 MMBtu.  
25 This amount is the sum of the Plant Smith Unit 3 burn as reported on

1 Schedule A-3 Period to Date of the June 2015 Monthly Fuel Filing and the  
2 Central Alabama PPA natural gas burn for the period.

3

4 Q. What types of hedging instruments were used by Gulf Power Company  
5 and what type and volume of fuel was hedged by each type of instrument?

6 A. Natural gas was hedged using financial swaps that fixed the price of gas  
7 to a certain price. The swaps settled against either a NYMEX Last Day  
8 price or Gas Daily price. The total amount of gas hedged for the period  
9 was hedged using financial swaps.

10

11 Q. What was the actual total cost (e.g., fees, commission, option premiums,  
12 futures gains and losses, swap settlements) associated with each type of  
13 hedging instrument?

14 A. No fees, commission, or option premiums were incurred. Gulf's gas  
15 hedging program generated a hedging settlement loss of \$22,429,164 for  
16 the period January through June 2015. This information is found on  
17 Schedule A-1, Period to Date, line 2 of the June 2015 Monthly Fuel Filing.

18

19 Q. During the period January 2015 through December 2015 how will Gulf  
20 Power Company's recoverable fuel cost of power sold compare with the  
21 original cost projection?

22 A. Gulf's currently projected recoverable fuel cost and gains on power sales for  
23 the period are \$(64,151,453) or 33.74% above the original projected amount  
24 of \$(47,966,000). Total kilowatt hours of power sales is expected to be  
25 (3,535,982,291) kWh compared to the original projection of (1,503,711,000)

1 kWh or 135.15% above projections. This current projection of fuel cost of  
2 power sold is captured in the exhibit to Witness Boyett's testimony,  
3 Schedule E-1B-1, Line 18.

4

5 Q. What are the reasons for the difference between Gulf's original projection of  
6 the fuel cost and gains on power sales and the current projection?

7 A. The greater total credit to fuel expense from power sales is attributed to a  
8 significantly higher quantity of power sales than originally projected, offset  
9 somewhat by a lower reimbursement rate (cents per kWh) for power sales.  
10 The currently projected price for the fuel cost and gains on power sales is  
11 1.8142 cents/kWh which is 43.12% lower than the original projection of  
12 3.1898 cents/kWh. The lower projected fuel reimbursement rate for power  
13 sales during the period are due to lower projected fuel costs associated with  
14 the units that are projected to set system pool interchange rates for power  
15 sales.

16

17 Q. How did the total projected fuel cost of power sold compare to the actual  
18 cost for the first six months of 2015?

19 A. The total fuel cost of power sold for the first six months of 2015 was  
20 \$(33,067,652) which is \$(9,562,651) or 40.68% higher than the projection of  
21 \$(23,505,000). The quantity of power sales for the period was 207.22%  
22 higher than projected. The actual cost was 1.4091 cents per kWh which is  
23 54.21% below the projected cost of 3.0771 cents per kWh. This information  
24 is found on Schedule A-1, Period to Date, line 17 of the June 2015 Monthly  
25 Fuel Filing.

1 Q. During the period January 2015 through December 2015 how will Gulf  
2 Power Company's recoverable fuel cost of purchased power compare with  
3 the original cost projection?

4 A. Gulf's currently projected recoverable fuel cost of purchased power for the  
5 period is \$164,814,996 or 21.41% below the original projected amount of  
6 \$209,724,000. The total amount of purchased power is expected to be  
7 7,372,348,747 kWh compared to the original projection of 6,100,957,000  
8 kWh or 20.84% above projections. The resulting average fuel cost of  
9 purchased power is expected to be 2.2356 cents per kWh or 34.97% below  
10 the original projected amount of 3.4376 cents per kWh. This current  
11 projection of fuel cost of purchased power is captured in the exhibit to  
12 Witness Boyett's testimony, Schedule E-1B-1, Line 13.

13

14 Q. What are the reasons for the difference between Gulf's original projection of  
15 the fuel cost of purchased power and the current projection?

16 A. The higher total fuel cost of purchased power is attributed to Gulf  
17 purchasing a greater amount of lower cost energy to supplement its own  
18 generation to meet load demands. The lower projected price per kWh for  
19 purchased power is due to lower natural gas market prices for the period.

20

21 Q. How did the total projected fuel cost of purchased power compare to the  
22 actual cost for the first six months of 2015?

23 A. The total fuel cost of purchased power for the first six months of 2015 was  
24 \$76,895,995 which is \$9,265,005 or 10.75% lower than our projection of  
25 \$86,161,000. The lower than projected purchased power expense is due to



1 the actual price of purchases being lower than projected offset somewhat by  
2 a greater quantity of purchases made. Purchased power quantity is 58.30%  
3 higher due to higher demand and the availability of lower cost energy  
4 purchases to meet this demand. On a fuel cost per kWh basis, the actual  
5 cost was 1.9721 cents per kWh which is 43.62% lower than the projected  
6 cost of 3.4980 cents per kWh. The majority of these purchases are from  
7 Gulf's PPA which is a contract associated with a gas fired generating unit.  
8 This information is found on Schedule A-1, Period to Date, line 12 of the  
9 June 2015 Monthly Fuel Filing.

10

11 Q. Were there any other significant developments in Gulf's fuel procurement  
12 program during the period?

13 A. No.

14

15 Q. Were Gulf Power's actions through June 30, 2015 to mitigate fuel and  
16 purchased power price volatility through implementation of its financial  
17 and/or physical hedging programs prudent?

18 A. Yes. Gulf's physical and financial fuel hedging programs have resulted in  
19 more stable fuel prices. Over the long term, Gulf anticipates less volatile  
20 future fuel costs than would have otherwise occurred if these programs  
21 had not been utilized.

22

23 Q. Should Gulf's fuel and net power transactions cost for the period be  
24 accepted as reasonable and prudent?

25

1 A. Yes. Gulf has followed its Risk Management Plan for Fuel Procurement in  
2 securing the fuel supply for its electric generating plants. Gulf's coal  
3 supply program is based on a mixture of long-term contracts and spot  
4 purchases at market prices. Coal suppliers are selected using procedures  
5 that assure reliable coal supply, consistent quality, and competitive  
6 delivered pricing. The terms and conditions of coal supply agreements  
7 have been administered appropriately. Natural gas is purchased using  
8 agreements that tie price to published market index schedules and is  
9 transported using a combination of firm and interruptible gas  
10 transportation agreements. Natural gas storage is utilized to assure that  
11 natural gas is available during times when gas supply is curtailed or  
12 unavailable. Gulf's fuel oil purchases were made from qualified vendors  
13 using an open bid process to assure competitive pricing and reliable  
14 supply. Gulf makes sales of power when available and gets reimbursed at  
15 the marginal cost of replacement fuel. This fuel reimbursement is credited  
16 back to the fuel cost recovery clause so that lower cost fuel purchases  
17 made on behalf of Gulf's customers remain to the benefit of those  
18 customers. Gulf purchases power when necessary to meet customer load  
19 requirements and when the cost of purchased power is expected to be  
20 less than the cost of system generation. The fuel cost of purchased power  
21 is the lowest cost available in the market at the time of purchase to meet  
22 Gulf's load requirements.

23

24 Q. Were there any other significant developments in Gulf's purchased power  
25 program during the period?

1 A. No.

2

3 Q. During the period January 2015 through December 2015, what is Gulf's  
4 projection of actual / estimated net purchased power capacity transactions  
5 and how does it compare with the company's original projection of net  
6 capacity transactions?

7 A. As shown on Line 4 of Schedule CCE-1b in the exhibit to Witness Boyett's  
8 testimony, Gulf's total current net capacity payment projection for the  
9 January 2015 through December 2015 recovery period is \$88,526,101.  
10 Gulf's original projection for the period was \$88,596,724 and is shown on  
11 Line 4 of Schedule CCE-1 filed August 22, 2014. The difference between  
12 these projections is \$70,623 or 0.08% less than the original projection of net  
13 capacity payments. The variance is due to an increase in projected market  
14 capacity revenues during the period.

15

16 Q. How did the total projected net capacity transactions cost compare to the  
17 actual cost for the first six months of 2015?

18 A. Actual net capacity costs during the first six months of 2015 were  
19 \$44,382,540 (from Schedule A-12 of the June 2015 Monthly Fuel Filing)  
20 which is \$3,678 lower than projected amount of \$44,378,862 for the period  
21 (from Line 2 of Schedule CCE-1 filed August 22, 2014).

22

23 Q. Mr. Ball, does this complete your testimony?

24 A. Yes.

25

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

GULF POWER COMPANY

Before the Florida Public Service Commission  
Prepared Direct Testimony and Exhibit of  
H. R. Ball  
Docket No. 150001-EI  
Date of Filing: September 1, 2015

Q. Please state your name and business address.

A. My name is H. R. Ball. My business address is One Energy Place, Pensacola, Florida 32520-0335. I am the Fuel Manager for Gulf Power Company.

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

A. I graduated from the University of Southern Mississippi in Hattiesburg, Mississippi in 1978 with a Bachelor of Science Degree in Chemistry and graduated from the University of Southern Mississippi in Long Beach, Mississippi in 1988 with a Masters of Business Administration. My employment with the Southern Company began in 1978 at Mississippi Power's (MPC) Plant Daniel as a Plant Chemist. In 1982, I transferred to MPC's Fuel Department as a Fuel Business Analyst. I was promoted in 1987 to Supervisor of Chemistry and Regulatory Compliance at Plant Daniel. In 1988, I assumed the role of Supervisor of Coal Logistics with Southern Company Fuel Services in Birmingham, Alabama. My responsibilities included administering coal supply and transportation agreements and managing the coal inventory program for the Southern

1 electric system. I transferred to my current position as Fuel Manager for Gulf  
2 Power Company in 2003.

3  
4 Q. What are your duties as Fuel Manager for Gulf Power Company?

5 A. My responsibilities include the management of the Company's fuel  
6 procurement, inventory, transportation, budgeting, contract administration,  
7 and quality assurance programs to ensure that the generating plants operated  
8 by Gulf Power are supplied with an adequate quantity of fuel in a timely  
9 manner and at the lowest practical cost. I also have responsibility for the  
10 administration of Gulf's Intercompany Interchange Contract (IIC).

11  
12 Q. What is the purpose of your testimony in this docket?

13 A. The purpose of my testimony is to support Gulf Power Company's projection  
14 of fuel expenses, net power transaction expense, and purchased power  
15 capacity costs for the period January 1, 2016 through December 31, 2016. It  
16 is also my intent to be available to answer questions that may arise among  
17 the parties to this docket concerning Gulf Power Company's fuel and net  
18 power transaction expenses and purchased power capacity costs.

19  
20 Q. Have you prepared any exhibits that contain information to which you will  
21 refer in your testimony?

22 A. Yes, I have four separate exhibits I am sponsoring as part of this testimony.  
23 My first exhibit (HRB-2) consists of a schedule filed as an attachment to my  
24 pre-filed testimony that compares actual and projected fuel cost of net  
25 generation for the past ten years. The purpose of this exhibit is to indicate the

1 accuracy of Gulf's short-term fuel expense projections. The second exhibit  
2 (HRB-3) I am sponsoring as part of this testimony is Gulf Power Company's  
3 Hedging Information Report filed with the Commission Clerk on April 7, 2015  
4 and assigned Document Number DN 01913-15 (redacted) and 01912-15  
5 (confidential information). This exhibit details Gulf Power's natural gas  
6 hedging transactions for August through December 2014 in compliance with  
7 Order No. PSC-08-0316-PAA-EI. The third exhibit (HRB-4) I am sponsoring  
8 as part of this testimony is Gulf Power Company's Hedging Information  
9 Report filed with the Commission Clerk on August 14, 2015 and assigned  
10 Document Number DN 05106-15 (redacted) and 05102-15 (confidential  
11 information). This exhibit details Gulf Power's natural gas hedging  
12 transactions for January through July 2015 in compliance with Order No.  
13 PSC-08-0316-PAA-EI. The fourth exhibit (HRB-5) I am sponsoring is Gulf  
14 Power Company's "Risk Management Plan for Fuel Procurement." This  
15 exhibit was filed with the Commission Clerk pursuant to a separate request  
16 for confidential classification on August 4, 2015 and assigned Document  
17 Number DN 04935-15 (redacted) and 04906-15 (confidential information).  
18 The risk management plan sets forth Gulf Power's fuel procurement strategy  
19 and related hedging plan for the upcoming calendar year. Through its petition  
20 in this docket, Gulf Power is seeking the Commission's approval of the  
21 Company's "Risk Management Plan for Fuel Procurement" as part of this  
22 proceeding.

23 Counsel: We ask that Mr. Ball's four exhibits as just described be  
24 marked for identification as Exhibit Nos. \_\_\_\_\_ (HRB-2), \_\_\_\_\_  
25 (HRB-3), \_\_\_\_\_ (HRB-4), and \_\_\_\_\_ (HRB-5) respectively.

1 Q. Has Gulf Power Company made any significant changes to its methods for  
2 projecting fuel expenses, net power transaction expense, and purchased  
3 power capacity costs for this period?

4 A. No. Gulf has been consistent in how it projects annual fuel expenses, net  
5 power transactions, and capacity costs.

6

7 Q. What is Gulf's projected recoverable total fuel and net power transactions  
8 cost for the January 2016 through December 2016 recovery period?

9 A. Gulf's projected total fuel and net power transaction cost for the period is  
10 \$431,051,133. This projected amount is captured in the exhibit to Witness  
11 Boyett's testimony, Schedule E-1, line 19.

12

13 Q. How does the total projected fuel and net power transactions cost for the  
14 2016 period compare to the updated projection of fuel cost for the same  
15 period in 2015?

16 A. The total updated cost of fuel and net power transactions for 2015, reflected  
17 on Schedule E-1B-1 line 21 of Witness Boyett's testimony filed in this docket  
18 on August 4, 2015, is projected to be \$431,021,459. The projected total cost  
19 of fuel and net power transactions for the 2016 period reflects an increase of  
20 \$29,674 or 0.01% more than the same period in 2015. On a fuel cost per  
21 kWh basis, the 2015 projected cost is 3.5539 cents per kWh and the 2016  
22 projected fuel cost is 3.5937 cents per kWh, an increase of 0.0398 cents per  
23 kWh or 1.12%.

24

25

1 Q. What is Gulf's projected recoverable total fuel cost of generated power for the  
2 period?

3 A. The projected total cost of fuel to meet system generated power needs in  
4 2016 is \$289,255,133. The projection of fuel cost of system generated power  
5 for 2016 is captured in the exhibit to Witness Boyett's testimony, Schedule E-  
6 1, line 5.

7  
8 Q. How does the projected total fuel cost of generated power for the 2016 period  
9 compare to the updated projection of fuel cost for the same period in 2015?

10 A. The total updated cost of fuel to meet 2015 system generated power needs,  
11 reflected on Schedule E-1B-1, line 6 of Witness Boyett's testimony filed in this  
12 docket on August 4, 2015, is projected to be \$330,357,916. The projected  
13 total cost of fuel to meet system net generation needs for the 2016 period  
14 reflects a decrease of \$41,102,783 or 12.44% less than the same period in  
15 2015. Total system net generation in 2016 is projected to be 8,228,439,000  
16 kWh, which is 63,318,000 kWh or 0.76% lower than is currently projected for  
17 2015. On a fuel cost per kWh basis, the 2015 projected cost is 3.9842 cents  
18 per kWh and the 2016 projected fuel cost is 3.5153 cents per kWh, a  
19 decrease of 0.4689 cents per kWh or 11.77%. This lower projected total fuel  
20 expense and average per unit fuel cost is the result of a lower projected cost  
21 of coal and natural gas (includes estimated hedging settlement costs) fired  
22 generation (cents/kWh) for the 2016 period. Weighted average coal burned  
23 price for 2015 as reflected on Schedule E-3, line 29 of Witness Boyett's  
24 testimony filed in this docket on August 4, 2015, is projected to be \$81.96 per  
25 ton. Weighted average coal burned price for 2016, as reflected on Schedule



1 E-3, line 29 of the exhibit to Witness Boyett's testimony, is projected to be  
2 \$74.49 per ton. This reflects a cost decrease of \$7.47 per ton or 9.11%.  
3 Several of Gulf's coal supply contracts have or will expire by the end of 2015  
4 and these are projected to be replaced with lower priced coal supply  
5 agreements. Gulf's coal supply agreements have firm price and quantity  
6 commitments with the contract coal suppliers and these contracts will cover a  
7 portion of Gulf's 2016 projected coal burn needs. The remaining coal supply  
8 needs will be purchased on the spot market. Weighted average natural gas  
9 price for 2015, as reflected on Schedule E-3, line 33 of the exhibit to Witness  
10 Boyett's testimony filed in this docket on August 4, 2015, is projected to be  
11 \$4.11 per MMBtu. When the cost of natural gas hedging settlements  
12 (Schedule E-1-B1, line 1a) is included in the total delivered gas cost, the 2015  
13 projected cost is \$5.76 per MMBtu. Weighted average natural gas price for  
14 2016, as reflected on Schedule E-3, line 33 of the exhibit to Witness Boyett's  
15 testimony, is projected to be \$4.98 per MMBtu. This is a decrease in price of  
16 \$0.78 per MMBtu or 13.54%. As reflected on Schedule E-3, lines 40 and 41  
17 of the exhibit to Witness Boyett's testimony, the projected fuel cost of Gulf's  
18 coal fired generation is 3.59 cents per kWh and the projected fuel cost of  
19 Gulf's gas fired generation is 3.42 cents per kWh for the 2016 period. The  
20 generation mix in 2015, as reflected on Schedule E-3, lines 23 and 24 of the  
21 exhibit to Witness Boyett's testimony filed in this docket on August 4, 2015, is  
22 projected to be 53.03% coal and 46.66% gas. The generation mix in 2016, as  
23 reflected on Schedule E-3, lines 23 and 24 of the exhibit to Witness Boyett's  
24 testimony, is projected to be 55.87% coal and 43.83% gas. The projected  
25 cost of landfill gas to supply the Perdido Landfill Gas to Energy Facility in the

1           2015 projection period is \$760,877 and the rate as reflected on Schedule E-3,  
2           line 42 of the exhibit to Witness Boyett's testimony filed in this docket on  
3           August 4, 2015, is projected to be 3.06 cents per kWh. The total projected  
4           cost for landfill gas in 2016 is \$758,264 and the total facility generation is  
5           projected to be 24,788,000 kWh. The average rate, as reflected on Schedule  
6           E-3, line 42 of the exhibit to Witness Boyett's testimony, is projected to be  
7           3.06 cents per kWh.

8  
9    Q.    Does the 2016 projection of fuel cost of net generation reflect any major  
10          changes in Gulf's fuel procurement program for this period?

11   A.    No. As in the past, Gulf's coal requirements are purchased in the market  
12          through the Request for Proposal (RFP) process that has been used for many  
13          years by Southern Company Services - Fuel Services as agent for Gulf. Coal  
14          will be delivered under both existing and new negotiated coal transportation  
15          contracts. Natural gas requirements will be purchased from various suppliers  
16          using firm quantity agreements with market pricing for base needs and on the  
17          daily spot market when necessary. Natural gas transportation will be secured  
18          using a combination of firm and spot transportation agreements. Details of  
19          Gulf's fuel procurement strategy are included in the "Risk Management Plan  
20          for Fuel Procurement" filed as exhibit \_\_\_\_\_ (HRB-5) to this testimony.

21  
22   Q.    What actions does Gulf take to procure natural gas and natural gas  
23          transportation for its units at competitive prices for both long-term and short-  
24          term deliveries?

1 A. Gulf procures natural gas using both long and short-term agreements for gas  
2 supply at market-based prices. Gulf secures gas transportation for non-  
3 peaking units using long-term agreements for firm pipeline capacity and for  
4 peaking units using interruptible transportation, released seasonal firm  
5 transportation, or delivered natural gas agreements.

6  
7 Q. What fuel price hedging programs will be utilized by Gulf to protect its  
8 customers from fuel price volatility?

9 A. As detailed in Gulf's "Risk Management Plan for Fuel Procurement," natural  
10 gas prices will be hedged financially using instruments that conform to Gulf's  
11 established guidelines for hedging activity. Coal supply and transportation  
12 prices will be hedged physically using term agreements with either fixed  
13 pricing or term pricing with escalation terms tied to various published market  
14 price indices. Gulf's "Risk Management Plan for Fuel Procurement" is a  
15 reasonable and appropriate strategy for protecting its customers from fuel  
16 price volatility while maintaining a reliable supply of fuel for the operation of its  
17 electric generating resources.

18  
19 Q. What are the results of Gulf's fuel price hedging program for the period  
20 January 2015 through July 2015?

21 A. Gulf's coal price hedging program has successfully managed the price it pays  
22 for coal under its coal supply agreements for this period. Gulf has also had  
23 financial hedges in place during the period to hedge the price of natural gas.  
24 These financial hedges have been effective in fixing the price of a percentage  
25 of Gulf's gas burn during the period. Pursuant to Order No. PSC-08-0316-

1 PAA-EI, Gulf filed a "Hedging Information Report" with the Commission on  
2 April 7, 2015 and also on August 14, 2015 detailing its natural gas hedging  
3 transactions for August 2014 through July 2015. As noted earlier, I am  
4 sponsoring these reports as exhibits \_\_\_\_\_ (HRB-3 and HRB-4) to my  
5 testimony in this docket.  
6

7 Q. Has Gulf adequately mitigated the price risk of natural gas and purchased  
8 power for 2015 through 2016?

9 A. Yes. Gulf has natural gas financial hedges in place for 2015 to adequately  
10 mitigate price risk. Gulf currently has natural gas hedges in place for 2016  
11 and continues to look for opportunities to enter into financial hedges that we  
12 believe will provide price stability to the customer and protect against  
13 unanticipated dramatic price increases in the natural gas market.  
14

15 Q. Should recent changes in the market price for natural gas impact the  
16 percentage of Gulf's natural gas requirements that Gulf plans to hedge?

17 A. Gulf has a disciplined process in place to evaluate the benefits of gas hedging  
18 transactions prior to entering into financial hedges that consider both market  
19 price and anticipated burn. The focus of this process is to mitigate the price  
20 volatility and risk of natural gas purchases for the customer and not to attempt  
21 to speculate in the natural gas market by entering into financial hedge  
22 agreements whose total quantity exceed the projected natural gas burn for  
23 the period. Gulf's current strategy is to have gas hedges in place that do not  
24 exceed the anticipated gas burn at its Smith Unit 3 combined cycle plant and  
25 the gas fired PPA units for which Gulf has tolling agreements. Gas burn

1 requirements change as the market price of natural gas changes due to the  
2 economic dispatch process utilized by the Southern System generation pool  
3 in accordance with the IIC. Typically, as gas prices increase, anticipated gas  
4 burn decreases and the percentage of gas requirements that are currently  
5 hedged financially increases. Gulf will continue to evaluate the performance  
6 of this hedging strategy and will make adjustments within the guidelines of the  
7 currently approved hedging program when needed.

8  
9 Q. What are Gulf's projected recoverable fuel cost and gains on power sales for  
10 the 2016 period?

11 A. Gulf's projected recoverable fuel cost and gains on power sales is  
12 \$86,889,000. This projected amount is captured in the exhibit to Witness  
13 Boyett's testimony, Schedule E-1, line 17.

14  
15 Q. How does the total projected recoverable fuel cost and gains on power sales  
16 for the 2016 period compare to the projected recoverable fuel cost and gains  
17 on power sales for the same period in 2015?

18 A. The total updated recoverable fuel cost and gains on power sales in 2015,  
19 reflected on Schedule E-1B-1, line 18 of Witness Boyett's testimony filed in  
20 this docket on August 4, 2015, is projected to be \$64,151,453. The projected  
21 recoverable fuel cost and gains on power sales in 2016 represents an  
22 increase of \$22,737,547 or 35.44%. Total quantity of power sales in 2016 is  
23 projected to be 3,370,149,000 kWh, which is 165,833,291 kWh or 4.69% less  
24 than currently projected for 2015. On a fuel cost per kWh basis, the 2015  
25 projected cost is 1.8142 cents per kWh and the 2016 projected fuel cost is

1 2.5782 cents per kWh, which is an increase of 0.7640 cents per kWh or  
2 42.11%. The higher total credit to fuel expense from power sales is attributed  
3 to a higher fuel reimbursement rate (cents per kWh) for power sales as a  
4 result of higher marginal fuel prices for units operating to meet incremental  
5 system loads partially offset by a decreased quantity of energy sales for the  
6 period. The marginal fuel costs to operate Gulf generating units that run to  
7 meet power sales requirements are passed on to the purchasers of power  
8 and are reflected in the higher rate (cents/kWh) for the fuel cost and gains on  
9 power sales.  
10

11 Q. What is Gulf's projected total cost of purchased power for the period?

12 A. Gulf's projected recoverable cost for energy purchases is \$228,685,000. This  
13 projected amount is captured in the exhibit to Witness Boyett's testimony,  
14 Schedule E-1, line 12.  
15

16 Q. How does the total projected purchased power cost for the 2016 period  
17 compare to the projected purchased power cost for the same period in 2015?

18 A. The total updated cost of purchased power to meet 2015 system needs,  
19 reflected on Schedule E-1B-1, line 13 of Witness Boyett's testimony filed in  
20 this docket on August 4, 2015, is projected to be \$164,814,996. The  
21 projected cost of purchased power to meet system needs in 2016 is  
22 \$63,870,004 or 38.75% higher than is currently projected for 2015. The total  
23 quantity of purchased power in 2016 is projected to be 7,136,326,000 kWh,  
24 which is 236,022,747 kWh or 3.20% lower than is currently projected for  
25 2015. On a fuel cost per kWh basis, the 2015 projected cost is 2.2356 cents

1 per kWh and the 2016 projected fuel cost is 3.2045 cents per kWh, which  
2 represents an increase of 0.9689 cents per kWh or 43.34%.

3

4 Q. What is Gulf's projected recoverable capacity payments for the 2016 cost  
5 recovery period?

6 A. The total recoverable capacity payments for the period are \$85,539,016. This  
7 amount is captured in the exhibit to Witness Boyett's testimony, Schedule  
8 CCE-1, line 10. Schedule CCE-4 of Mr. Boyett's testimony shows the  
9 projected cost associated with Southern Intercompany Interchange and lists  
10 the long-term purchased power contracts that are included for capacity cost  
11 recovery, their associated capacity amounts in megawatts, and the resulting  
12 cost. Also included in Gulf's 2016 projection of capacity cost is revenue  
13 produced by a market-based service agreement between the Southern  
14 electric system operating companies and South Carolina PSA. The total  
15 capacity cost of \$88,202,632 is shown on Schedule CCE-4, line 13 in the  
16 exhibit to Witness Boyett's testimony. The total capacity cost included on  
17 Schedule CCE-4 line 13 is the sum of lines 1 and 2 of Schedule CCE-1.

18

19 Q. Have there been any new purchased power agreements entered into by Gulf  
20 that impact the total recoverable capacity payments for the period?

21 A. No.

22

23 Q. What are the other projected revenues that Gulf has included in its capacity  
24 cost recovery clause for the period?

25

1 A. Gulf has included an estimate of transmission revenues in the amount of  
2 \$128,000 in its capacity cost recovery projection. This amount is captured in  
3 the exhibit to Witness Boyett's testimony, Schedule CCE-1, line 3.

4  
5 Q. How do the total projected net jurisdictional capacity payments for the 2016  
6 period compare to the current estimated net jurisdictional capacity payments  
7 for the same period in 2015?

8 A. Gulf's 2016 Projected Jurisdictional Capacity Payments, found in the exhibit  
9 to Witness Boyett's testimony, Schedule CCE-1, line 6, are \$85,495,331.  
10 This amount is \$438,247 or 0.51% less than the current estimate of  
11 \$85,933,578 (Schedule CCE-1B, line 6) for 2015 that was filed in Mr. Boyett's  
12 actual/estimated true-up testimony in this docket on August 4, 2015. The  
13 projected capacity payment decrease is the result of a decrease in Gulf's  
14 estimated PPA capacity payments offset somewhat by an increase in the  
15 estimated IIC payments for the period.

16  
17 Q. Mr. Ball, does this complete your testimony?

18 A. Yes, it does.

19

20

21

22

23

24

25



1 **BY MR. BADDERS:**

2 Q Mr. Ball, have you prepared a summary of  
3 your testimony?

4 A Yes, I have just a brief summary. In direct  
5 testimony most of the issues have been stipulated to,  
6 and we do appreciate that.

7 The only issue remaining to be, I think,  
8 resolved under our direct testimony -- or my direct  
9 testimony is the matter of Gulf's filing of its 2016  
10 Risk Management Plan, and more specifically in the plan  
11 just the section that deals with natural gas and the  
12 financial hedging of natural gas in Gulf's Risk  
13 Management Plan.

14 Gulf has filed Risk Management Plans almost  
15 identical to the one we filed for the 2016 period, 2014,  
16 2015 plans. Those were virtually identical. They were  
17 reviewed and approved by the Commission. We feel like  
18 that the 2016 Risk Management Plan that Gulf has filed  
19 is a reasonable implementation of the plan that Gulf has  
20 to purchase natural gas and to financial hedge natural  
21 gas, and it's also, I believe, a prudent plan for  
22 complying with the Commission's hedging order. And as  
23 such, I feel like the plan should be considered for  
24 approval by the Commission.

25 **MR. BADDERS:** We tender him for

1 cross-examination.

2 **CHAIRMAN GRAHAM:** Thank you.

3 Mr. Ball, welcome.

4 **THE WITNESS:** Thank you.

5 **CHAIRMAN GRAHAM:** OPC.

6 **EXAMINATION**

7 **BY MR. SAYLER:**

8 **Q** Good morning, Mr. Ball. How are you today?

9 **A** Good.

10 **Q** From 2002 to 2014 your company incurred  
11 approximately \$127 million in natural gas hedging  
12 losses; is that correct?

13 **A** That's correct.

14 **Q** And for 2015 your projected natural gas  
15 hedging losses are approximately how much?

16 **A** Approximately 44, and this is actual  
17 information we have through the end of September, and  
18 the amount that we included in our estimated/actual  
19 filing for the third -- for the fourth quarter of this  
20 year.

21 **Q** And between now and the third -- the end of  
22 the fourth quarter you expect it to remain about  
23 44 million?

24 **A** Well, with prices falling as they have  
25 recently, it could be higher than that.

1           **Q**     All right. Thank you. And you would agree  
2 that hedging costs or losses are borne by the customers  
3 alone; is that correct?

4           **A**     That's correct. They are recovered through  
5 the fuel cost recovery clause.

6           **Q**     You would agree that natural gas market  
7 conditions are different in 2015 from the market  
8 conditions in 2002 when the Commission started --  
9 authorized utilities to hedge natural gas; is that  
10 correct?

11          **A**     That's correct.

12          **Q**     And you would agree that the advances in  
13 recovering gas from shale formations has increased the  
14 supply of available natural gas?

15          **A**     That's correct.

16          **Q**     And you would agree that the addition of shale  
17 gas into the market has also decreased the price of  
18 natural gas since 2002?

19          **A**     It has in recent history. That's correct.

20          **Q**     And the price of natural gas is lower now than  
21 it was in the mid-2000s; is that correct?

22          **A**     That's correct, to the best of my knowledge.

23          **Q**     All right. You would also agree that fuel  
24 price volatility is decreasing in general?

25          **A**     Well, I guess it depends on what time period

1 you're talking about. 2014, I wouldn't necessarily  
2 agree that fuel price volatility decreased in that year.  
3 And I'm not offering any opinion about future price  
4 volatility because I just have no idea as to what future  
5 price volatility in the natural gas market might be.  
6 But certainly overall, looking at the history from the  
7 start of the implementation of the Risk Management Plan,  
8 I'd say in the most recent history volatility has been  
9 lower.

10 **Q** All right. And you mentioned 2014. And a lot  
11 of that volatility was due to the Superstorm Sandy  
12 effect in February, early March of 2014, would you  
13 agree?

14 **A** No. I'm thinking it's more due to winter  
15 weather than the Sandy storm. But, you know, this is a  
16 risk that you run in the fuel price market. Events  
17 happen, weather being a significant driver of natural  
18 gas demand and, as a result, natural gas prices.

19 I think there's nothing that would indicate  
20 that these kind of weather events would not continue to  
21 occur in the future as well as they did in 2014.

22 **Q** So would you agree that there are a few  
23 trading days in February and then later on in March that  
24 drove most of the volatility for 2014?

25 **A** Yeah. That's probably a good summation of it,

1 yes.

2 Q And if you were to take out those six or  
3 seven days then, fuel price volatility for '14 would be  
4 dramatically lower; correct?

5 A Well, I'm not --

6 Q Or lower.

7 A I haven't done a review of that, but I think  
8 in general terms I would agree.

9 Q All right. Thank you. And you would agree  
10 that your company doesn't estimate or forecast fuel  
11 price volatility for natural gas; correct?

12 A No. Our company does not forecast fuel price  
13 volatility.

14 Q By what objective standard or metrics do you  
15 measure the success or failure of your hedging program?

16 A We use a -- we do a calculation based on a  
17 standard deviation of fuel prices, both hedged and  
18 unhedged, and we produce that document in, I believe in  
19 our true-up testimony each year. And we also provide  
20 that information to staff's audit team when they do the  
21 hedging audit for Gulf.

22 But, you know, in general terms, Gulf uses  
23 financial swaps to hedge natural gas. Financial swaps  
24 are a tool that's used to basically have a fixed price  
25 contract for a certain quantity of natural gas. Fixed

1 price contracts have no volatility, and so as you enter  
2 into fixed price contracts, just the nature of the  
3 program means that your volatility is going to be lower  
4 than a market price that changes every day.

5 **Q** All right. But your evaluation of the success  
6 or failure of your hedging program does not consider  
7 customer cost; is that correct?

8 **A** No, it does not. And the reason it does not  
9 is because the Commission has made it clear what the  
10 objective of the hedging order is, and that is price  
11 volatility.

12 **Q** All right.

13 **A** And that's how we measure the success of the  
14 program.

15 **Q** All right. Does the company make any profit  
16 or return on natural gas financial hedging transactions  
17 with its counterparties?

18 **A** No, it does not.

19 **Q** And does the company have any affiliate  
20 relationships with financial hedging counterparties?

21 **A** No.

22 **Q** And does the company have in place corporate  
23 policies and procedures for its employees, including  
24 officers, to prevent conflicts of interest as it relates  
25 to --

1           **A**     Yes.

2           **MR. SAYLER:** All right. Thank you very much,  
3 Mr. Ball.

4           **THE WITNESS:** You're welcome.

5           **CHAIRMAN GRAHAM:** Mr. Wright?

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

8           **CHAIRMAN GRAHAM:** Mr. Moyle.

9           **MR. MOYLE:** I have some. Thank you.

10   **EXAMINATION**

11           **BY MR. MOYLE:**

12           **Q**     Good morning. When was the last time that  
13 Gulf made any adjustments to its hedging plan?

14           **A**     Gulf has a fairly active -- are you talking  
15 about the hedging Risk Management Plan?

16           **Q**     Yes, sir. I mean, in your opening you said  
17 it's essentially the same.

18           **A**     At least not for the last three years.  
19 They've been substantially the same. I can't remember  
20 when we made an adjustment. If we've made any, it's  
21 been small.

22           **Q**     Okay. So I guess it would be fair to say a  
23 number of years since any adjustment has been made?

24           **A**     That's correct.

25           **Q**     And if an adjustment was made, it would be

1 small. Can you describe the last adjustment that you  
2 remember being made?

3 **A** I can, I think, address this issue. And, you  
4 know, primarily what we've got is a Risk Management Plan  
5 that gives us -- gives Gulf quite a bit of flexibility  
6 in how we implement the plan. We have target ranges,  
7 and those ranges are fairly broad from year to year.

8 But outside of that, if we felt like the  
9 market conditions justify it, we can certainly go  
10 outside of those ranges. The only limitation that we  
11 have is that we will not hedge more than 100 percent of  
12 our projected gas burn for the year. So there's really  
13 no need to change the plan very much because we already  
14 have built in quite a bit of flexibility within the plan  
15 to adjust due to market conditions.

16 **Q** I mean, so I was just trying -- I appreciate  
17 the answer and we'll have a discussion. But with  
18 respect to your recollection of the last change, can you  
19 tell me -- do you recall it?

20 **A** The only change that I remember is maybe a  
21 small change to the target bands for each year that we  
22 have in the plan.

23 **Q** Okay. And are you able to tell us what that  
24 was?

25 **A** No. That's confidential information.



1           **Q**    You could tell us but it would be  
2 confidential?

3           **A**    That's correct.

4           **Q**    Okay. I guess -- you heard the gentleman from  
5 Duke yesterday talk about what percentage they were  
6 hedging; is that right?

7           **A**    I do recall that testimony somewhat, yes.

8           **Q**    But you wouldn't be comfortable answering  
9 similar questions, or would you take the position that  
10 that's confidential?

11          **A**    Are you talking about the hedging ranges that  
12 we have in our Risk Management Plan?

13          **Q**    Yes.

14          **A**    That is confidential information and I cannot  
15 answer that.

16          **Q**    So you don't do like Duke where they go, okay,  
17 we want to do 60 percent. You have a different  
18 approach.

19          **A**    That's correct.

20          **Q**    And you have a range between X and Y, and X  
21 and Y are confidential numbers.

22          **A**    That's correct.

23          **Q**    Does -- do any of the other Southern  
24 Company -- Gulf is an affiliate of the Southern Company;  
25 correct?

1           **A**     That's correct.

2           **Q**     Do any of the other Southern Company  
3 affiliates hedge natural gas?

4           **A**     Yes.

5           **Q**     Who?

6           **A**     As far as I know, all of them. They all have  
7 different programs because they all have different  
8 reporting relationships to commissions. But every one  
9 of them, to my knowledge, still engages in financial  
10 hedging of natural gas.

11          **Q**     Do you talk to the people that are responsible  
12 for hedging with the other companies?

13          **A**     Yes.

14          **Q**     Okay. Does Florida have material differences  
15 in its hedging program compared to the other companies?

16          **A**     Yes, it does.

17          **Q**     What are they?

18          **A**     Well, you know, I don't know all the details  
19 of each of the other operating companies' hedging plans,  
20 but I think a good example may be Georgia Power.  
21 Georgia Power's hedging plan is more directed by the  
22 Commission and particularly the Commission staff, and so  
23 I think the interaction between the staff and the  
24 hedging folks at Georgia are a lot more intertwined than  
25 they are here.

1           **Q**     So when you say it's more directed by the  
2 Commission, I mean, does that contemplate regular and  
3 routine involvement by the Commission with respect to  
4 hedging?

5           **A**     Yes, that's correct.

6           **Q**     Does the Georgia Commission or the staff  
7 provide direction with respect to the --

8           **A**     You know, I can't really go much further than  
9 that. That goes beyond my knowledge of their plan.

10          **Q**     Okay. Let me ask you this. Does the Southern  
11 Company have unregulated affiliates that you know that  
12 engage in hedging?

13          **A**     Yes. Southern Company does have an  
14 unregulated affiliate. And as far as I know, they do  
15 have a hedging program, but I am not familiar with it.

16          **Q**     So if I asked you what the purpose -- what you  
17 understood the purpose to be of the hedging program  
18 related to the Southern Company unregulated affiliate,  
19 you wouldn't be able to give me an answer?

20          **A**     I would not.

21          **Q**     I just want to make sure I understood your  
22 response to a previous question with respect to the  
23 metric. Let me start, what's the objective of the Gulf  
24 hedging plan?

25          **A**     It's --

1           **Q**     What are the objectives?  What are the goals?

2           **A**     The objective of the plan is to limit  
3 volatility of natural gas price that we pay.

4           **Q**     Okay.  And I thought you said that the way you  
5 determine that is you look at the results at the end of  
6 the year, gains and losses; is that right?

7           **A**     No.  We do not look at gains and losses.  We  
8 look at standard deviation of pricing, both hedged and  
9 unhedged, and we determine in each case that the  
10 volatility or the standard deviation of the hedged  
11 pricing for the year is lower than the standard  
12 deviation of the unhedged prices, thus basically making  
13 the case that we have reduced the volatility of pricing.  
14 But, again, we're entering into fixed price contracts  
15 which are not volatile.  It's just a result of the  
16 program.

17          **Q**     And a fixed price contract, just by  
18 definition, once you say I'm going to pay you X for this  
19 commodity, it's fixed, so you reduce volatility by  
20 entering into the contract; correct?

21          **A**     That's correct.

22          **Q**     And in hedging, as I understand it, it costs a  
23 lot more to enter into a fixed price contract for a  
24 longer duration of time as compared to a shorter  
25 duration of time.  Is that your understanding with

1 respect to the hedge because of the additional  
2 uncertainty associated with a three-year fixed price  
3 contract compared to a one-year fixed price contract,  
4 all other things being equal?

5 **A** Not necessarily for a swap contract. Swap  
6 contracts are initiated or executed at a future price,  
7 and typically that price is transparent, it's a NYMEX  
8 price. There is -- you know, you enter into the  
9 contract. So if I enter into a contract that settles  
10 three years from today, the contract price under the  
11 swap is very, very close to today's NYMEX price for that  
12 period.

13 **Q** Do you negotiate these hedges?

14 **A** I do not.

15 **Q** Does the company, or is it like something, you  
16 know, buying a Chick-fil-A sandwich where they won't  
17 negotiate with you on a hedge?

18 **A** No, it's not like buying a Chick-fil-A  
19 sandwich. I guarantee you that. I bought one this  
20 morning, and it's nothing like that.

21 (Laughter.)

22 We do have an organization within the fuel  
23 services organization at Southern Company. We have a  
24 financial hedging manager. I talked with him very  
25 frequently about Gulf's program. He is responsible for

1 entering into these hedging deals on behalf of Gulf and  
2 the other operating companies within the Southern  
3 Company.

4           **Q**     Okay. So it's done at the Southern Company  
5 level, not the Gulf level with respect to executing  
6 hedges; is that right?

7           **A**     That's correct.

8           **Q**     And do you know whether they're negotiated  
9 hedges or you just pay the NYMEX price?

10          **A**     Every deal is negotiated to some extent.  
11 There are multiple counterparties that you can enter  
12 into agreements with, and all of them are contacted when  
13 we have a need to hedge. And we're always searching for  
14 the best price we can get in a hedge deal.

15          **Q**     Right. Okay. And you had said you don't have  
16 an opinion regarding future price volatility. I assume  
17 your Southern Company people who actually execute the  
18 hedges that -- do you know, do they endeavor to try to  
19 peg future market volatility or do they rely on other  
20 services like EIA, I believe, to look at market  
21 volatility in the future?

22          **A**     You know, we don't necessarily look at market  
23 price volatility. What we do do, though, is in our  
24 price forecasting we look at -- we look at not only the  
25 price forecasts that we'll use in projections, but we'll

1 also forecast, you know, what are the bounds within  
2 confidence levels that the price could move within?

3           So we look at -- I think there's two standard  
4 ways of doing that. One is to look at historical  
5 volatility and determine confidence levels around that.  
6 The other is to look at the options market. And by  
7 taking the current options market, you can develop, you  
8 know, what's the probability that prices will fall  
9 within a certain bandwidth. And, you know, typically  
10 what you'll see as you go further out into the future,  
11 that band will get larger, which indicates more  
12 uncertainty further out into the future, which means  
13 more potential volatility. We don't have a way of  
14 determining exactly what we think the volatility will  
15 be. We just know that there's a possibility that price  
16 volatility will exist in the future.

17           Q     Is the corollary that it just -- with respect  
18 to predicting the future, it's harder to predict  
19 something further out in time in the future than  
20 something closer in in time? You know, I use an example  
21 of the weather, that you have a better shot of getting  
22 it right on the weather prediction for tomorrow as  
23 compared to a week from tomorrow. Does that hold true  
24 in your opinion with respect to a market like natural  
25 gas?

1           **A**    Yeah.  I'd say generally I would agree with  
2 that, yes.

3           **Q**    Okay.  And what you described with respect to  
4 this, you don't do that.  That's something that, again,  
5 that others do in terms of trying to project future  
6 pricing and volatility?

7           **A**    That's correct.  I do not do that.

8           **Q**    Okay.  Just a few more questions.  
9                    Gulf is engaging in some renewable energy  
10 projects; correct?

11          **A**    That's correct.

12          **Q**    Okay.  And I have looked at some literature on  
13 hedging, and the literature has suggested that another  
14 way to hedge is to do other projects.  If you wanted to  
15 hedge natural gas, you know, you could beef up on  
16 renewable energy projects.  Does that concept -- do you  
17 have any familiarity with that concept that you  
18 potentially could hedge by looking at other energy  
19 sources for generating power?

20          **A**    I'd say generally the answer to that would be  
21 yes, that any time that you can expand your generation  
22 mix, it provides you options to move generation from  
23 lower -- from maybe higher cost options to lower cost  
24 options.  And particularly if you have a purchased power  
25 agreement where you've got a fixed energy price, it's



1 very similar to a hedge because what we're searching for  
2 is like a -- you know, to reduce volatility. So if  
3 you've got a purchased power agreement that has a fixed  
4 price in it, that certainly reduces the volatility of  
5 your rates. And since we're recovering those through  
6 the fuel cost recovery clause, that does reduce  
7 volatility in the clause.

8 **Q** Do you take that into consideration? This  
9 Commission approved, I think, a wind project and a solar  
10 project for Gulf last year, maybe this year, but did you  
11 take that into account with respect to making any  
12 adjustments in your hedging plan?

13 **A** No, we did not, and primarily because the  
14 generating assets that burn natural gas at Gulf Power,  
15 at least in our forecast, are -- the burn on those units  
16 is not impacted by these projects.

17 **Q** If this Commission were to agree with the  
18 unified voice of the consumers to say please discontinue  
19 the hedging program, you would have some hedges that  
20 you've already executed in place; correct?

21 **A** That's correct.

22 **Q** Okay. Can you tell me how long -- how far out  
23 some -- like your longest hedges are? I mean, two,  
24 three years?

25 **A** More like five years.

1           **Q**     Five years out? Okay. You would agree that  
2 those products have some value. They're assignable. To  
3 the extent that the Commission said stop and try to get  
4 the best you can for the instruments you've already  
5 executed as hedges, there may be other third parties who  
6 would have interest in picking up those hedges; is that  
7 correct?

8           **A**     I'm not aware of any third parties that would  
9 be interested in taking these hedges on, no, I'm not.

10          **Q**     Okay. So, but as an expert in hedging, isn't  
11 there a market that is transparent and viable for  
12 hedges, and you can buy and sell hedges in a market?

13          **A**     Yes, absolutely there is. Not necessarily  
14 they would -- I mean, that market is available to  
15 everyone all the time. It doesn't necessarily mean that  
16 Gulf is a participant in the market of selling hedges.  
17 We're in the market of purchasing hedges.

18          **Q**     I understand. But just to the extent that the  
19 Commission said, okay, we don't want you to continue to  
20 hedge, couldn't you take your hedge and either through a  
21 broker or somebody else and say here's a hedge we put in  
22 place for gas? In five years we're going to offload it  
23 and try to sell it. I mean, is that a foreign concept?

24          **A**     It is to me. I'm not aware of doing that.  
25 Essentially what we would do would be to unwind the

1 hedges that we have in place if that's the Commission  
2 order. We don't necessarily think that's something that  
3 we recommend doing.

4 Q How would you unwind them?

5 A Essentially you'd settle at today's market  
6 price with the counterparties that we have hedge deals  
7 with.

8 Q You'd settle them or sell them? I didn't hear  
9 you.

10 A We would settle them.

11 Q What does that mean?

12 A That means that every day there's a mark to  
13 market on the hedge positions, and they would be settled  
14 at that mark-to-market price. So you take the current  
15 forward market, the fixed price that we've negotiated  
16 under our swap agreements, and you would settle those  
17 agreements based on the, you know, the current forward  
18 market.

19 Q Okay. And just the last line of questioning.  
20 You would agree that the views of your customers are  
21 important to Gulf?

22 A Yes.

23 Q Okay. And you understand that the collective  
24 views of the representatives here, the Office of Public  
25 Counsel, the Retail Federation, and the Industrial Power

1 Users Group, is that hedging be discontinued; correct?

2 **A** I'm aware of that.

3 **MR. MOYLE:** Okay. Thank you for your time.

4 **CHAIRMAN GRAHAM:** Staff?

5 **MS. BROWNLESS:** Yes, sir.

6 **EXAMINATION**

7 **BY MS. BROWNLESS:**

8 **Q** Good morning, Mr. Ball.

9 **A** Good morning.

10 **Q** I would just like to follow up on Mr. Moyle's  
11 question so I can make sure I fully understand what  
12 you're saying with regard to what would happen if the  
13 Commission should tell you to discontinue hedging.

14 Now my understanding is that you have hedges  
15 in place today for various periods of time, 12 months,  
16 24 months, 36 months, up to 60 months; is that correct?

17 **A** That's correct.

18 **Q** Okay. And if the Commission were to say as of  
19 December -- well, as of January 1, 2016, you won't hedge  
20 anymore, on January 1 would you execute the transaction  
21 you just indicated? In other words, for each and every  
22 one of those hedges would you go mark to market at that  
23 time and settle them up?

24 **A** No. We would not recommend doing that.  
25 That's -- if the Commission ordered us to, we would

1 certainly do that.

2 Q Yes, sir.

3 A But we do not recommend it for -- really for  
4 two reasons. Number one is you would have all the IOUs  
5 in the State of Florida unwinding all their hedges at  
6 the same time. That would be a significant market  
7 event. And believe me, the financial counterparties  
8 would take advantage of that and they would extract as  
9 much financial gain as they possibly could because of  
10 that event.

11 Secondly, we have these hedges in place to  
12 mitigate price risk out in the future.

13 Q Right.

14 A So if you settle those hedges today,  
15 essentially what you do is you incur all the costs  
16 associated with the hedges, but you get none of the  
17 benefits in the future from potential future price  
18 volatility. There's really no reason to settle these  
19 hedges or unwind these hedges on January 1st of 2016.

20 The reasonable thing to do, in our opinion, is  
21 just to allow the hedges to naturally expire and  
22 naturally settle over the next five years.

23 Q As they were -- as the hedge was originally  
24 intended.

25 A That's correct.

1           **Q**     Okay.  And am I correct that in terms of  
2     trying to value a hedge that you really can't tell until  
3     you get to the date, the settlement date?

4           **A**     That's correct.

5           **Q**     On that settlement date either the market is  
6     higher than the hedge price or the market is lower than  
7     the hedge price?

8           **A**     That's correct.

9           **Q**     So on that date either it costs the customer  
10    more than the market or it costs the customer less than  
11    the market and, therefore, there was a savings?

12          **A**     That's right.  We would not know until the day  
13    that the hedges were settled.

14           **MS. BROWNLESS:**  Okay.  Thank you so much,  
15    sir.

16           **THE WITNESS:**  You're welcome.

17           **CHAIRMAN GRAHAM:**  Commissioners.

18           Commissioner Brisé.

19           **COMMISSIONER BRISÉ:**  Thank you, Mr. Chairman.

20           Yesterday I asked Duke a question.  I  
21    think I did it inartfully, so I'll try again today.

22           So we have a framework over the past 12  
23    years or so of how hedging -- how the hedging  
24    program has impacted customers or consumers by  
25    helping them ride the waves of tremendous cost

1 swings, right, in the natural gas market,  
2 particularly thinking about 2004 to 2008 and before  
3 then. What information can you provide me to give  
4 me a clearer picture of how customers would have  
5 been impacted if hedging was not permitted? And  
6 specifically we're going to look at the 2004 to  
7 2008 time frame and then 2009 to 2014 time frame.  
8 So if you can sort of give me a picture of how  
9 consumers would be impacted directly.

10 **THE WITNESS:** Well, first of all, let me just  
11 say, Mr. Commissioner, I haven't really done that  
12 analysis, so I'm -- all I can give you is just kind of  
13 a broad idea of what I think.

14 **COMMISSIONER BRISÉ:** Sure.

15 **THE WITNESS:** In that early period, there was  
16 quite a bit of volatility in the market, very high  
17 price spikes during that period of time. So if you  
18 were paying market price every day for natural gas that  
19 we purchased to run our generating plants, essentially  
20 the customer would bear that price. And while they  
21 wouldn't necessarily bear it during a month or several  
22 months, I would anticipate that there would at least be  
23 the possibility that we could have had midcourse  
24 corrections during that period to try to get the over-  
25 or under-recovery balance more in line.

1           But in any case, what the impact is going  
2 to be is that at the end of the year whatever  
3 under-recovery balance was remaining would be rolled  
4 into next year's rate. So the customer is going to  
5 see the impact of higher natural gas prices and  
6 price volatility in the following year's fuel cost  
7 recovery rate, and that would have been very  
8 significant in that early period you're looking at.

9           So in the later period, while there has  
10 been price volatility, we haven't really seen, other  
11 than maybe a brief period in 2014, very extreme  
12 runups in price. So in that period I think it's  
13 basically the same answer, although I think in our  
14 case we had some hedging -- with the exception of  
15 '14, which we did have a hedging gain -- in those  
16 years, we had -- most of those years we had hedging  
17 losses. So that would have basically been a credit  
18 to the customers' bill if they had not occurred in  
19 the current year.

20           So, you know, the customer is going to see  
21 the -- if you don't hedge, the customer sees the  
22 market price that we pay every day, and they will  
23 see that whether it's in the current year in the  
24 form of a midcourse correction or in the following  
25 year in the rates that we project for the following



1 year, including the over- and under-recovery  
2 balance.

3 **COMMISSIONER BRISÉ:** You don't have any way  
4 to -- or you all haven't quantified the variances  
5 between those periods from year to year in terms of  
6 maybe -- from a percentage, not specifically a dollar  
7 amount, but a percentage of impact on, say, the  
8 customer for a year or a couple of years, over years.

9 **THE WITNESS:** I believe it could be  
10 calculated. I just don't know that -- I haven't done  
11 that analysis. I don't know that we, Gulf has, but  
12 certainly that kind of information can be generated.

13 **COMMISSIONER BRISÉ:** Okay. Because that  
14 would be helpful in the discussion from my perspective.  
15 So thank you.

16 **CHAIRMAN GRAHAM:** Mr. Ball, I have a question  
17 for you. You said that you personally do not do the  
18 hedging for Gulf; correct?

19 **THE WITNESS:** That's correct.

20 **CHAIRMAN GRAHAM:** Is it a Gulf employee that  
21 does the hedging or is it a southern employee that does  
22 the hedging?

23 **THE WITNESS:** It's a Southern Company  
24 Services employee, of which I am also a Southern  
25 Company Services employee. I work full-time for Gulf

1 as their fuel manager, so essentially the fuel  
2 organization that I'm a member of, we also have a  
3 fuel -- a natural gas financial hedging manager that's  
4 part of our team, and he is the individual that enters  
5 into the hedge transactions.

6 **CHAIRMAN GRAHAM:** When the hedging is done,  
7 is the hedging done specifically for Gulf or is it done  
8 for Southern, and then later on they decide where  
9 they're going to apply that hedge to, which facility --  
10 you know, they're going to say this hedge is going to  
11 go to Gulf, this is going to go to Georgia Power, this  
12 is going to go to such and such?

13 **THE WITNESS:** Yes. The hedging manager  
14 enters into the hedges specifically for each operating  
15 company. So it's not like a group hedge and then he  
16 allocates those hedges to each operating company. He  
17 actually goes and enters into hedge transactions  
18 specifically for Gulf Power Company and specifically  
19 for the other operating companies. Because everybody's  
20 program is different, the timing of the hedging  
21 activity is different. So it's all done separately.

22 **CHAIRMAN GRAHAM:** So it's done upfront. You  
23 know, when he's entering into the hedge, he knows this  
24 is for Gulf.

25 **THE WITNESS:** That's correct.

1           **CHAIRMAN GRAHAM:** Now have you, as far as you  
2 know -- as Mr. Moyle was asking you earlier about  
3 unwinding a hedge, have you gone into a hedge for Gulf  
4 and decided, well, we're going to, quote, unwind this  
5 and make it a Georgia Power hedge?

6           **THE WITNESS:** I'm sorry. I missed the  
7 question there. I apologize.

8           **CHAIRMAN GRAHAM:** If all the sudden you  
9 decide that it's just, it doesn't work appropriate for  
10 Gulf, we're going to associate it over with Georgia  
11 Power, have you done that before? Has Gulf done that  
12 before?

13          **THE WITNESS:** Just assign the hedges, Gulf's  
14 hedges to another operating company?

15          **CHAIRMAN GRAHAM:** Yes.

16          **THE WITNESS:** No. We couldn't -- due to the  
17 separation that we have to keep between operating  
18 companies because everybody is -- the Commission, of  
19 course, is looking to make sure that we don't have any  
20 cross-subsidization, I'm very confident that that kind  
21 of activity could not take place.

22          **CHAIRMAN GRAHAM:** Okay. Thank you.

23                           Commissioner Brown.

24          **COMMISSIONER BROWN:** Thank you. I appreciate  
25 your testimony, Mr. Ball. Yesterday I asked one of

1 Duke's witnesses whether hedging has been revisited in  
2 the jurisdiction, other jurisdictions in which Duke  
3 operates. Similarly, Gulf operates in a multitude of  
4 states.

5 Has -- do you know if commissions have  
6 revisited the issue of the hedging programs that are  
7 in place in those jurisdictions that Southern  
8 operates in?

9 **THE WITNESS:** I do know that this has been an  
10 issue at other commissions, although I, you know, I'm  
11 not aware of any of the details of the discussions that  
12 go on there. Some jurisdictions look at it very  
13 frequently. I mentioned Georgia, but Georgia is a  
14 little bit different program and their, actually their  
15 staff is very heavily involved in directing the  
16 program. So they're, you know, they're looking --  
17 they're -- commission oversight of their hedging  
18 program is basically ongoing.

19 The other jurisdictions, Mississippi Power  
20 and Alabama Power, I'm not aware of any specific  
21 action, but I do know that this is something that's  
22 looked at regularly.

23 **COMMISSIONER BROWN:** Okay. And really more  
24 has hedging been curtailed in any of those -- any of  
25 the programs been curtailed or cut back in those

1 jurisdictions?

2 **THE WITNESS:** I'm not aware of where hedging  
3 programs have been eliminated in those jurisdictions,  
4 no.

5 **COMMISSIONER BROWN:** Thanks so much.

6 **THE WITNESS:** You're welcome.

7 **CHAIRMAN GRAHAM:** Redirect.

8 **MR. BADDERS:** No redirect. And we offer  
9 Exhibits 35 through 39 into the record.

10 **CHAIRMAN GRAHAM:** 35 through 39 we'll enter  
11 into the record.

12 (Exhibits 35 through 39 admitted into the  
13 record.)

14 OPC.

15 **MR. SAYLER:** Office of Public Counsel would  
16 like to offer Exhibit 117 into the record. And,  
17 Commissioner Brisé, you had had a question about  
18 midcourse corrections avoided. If you'll look at  
19 interrogatory response 50 and 51, Office of Public  
20 Counsel had asked that question.

21 **CHAIRMAN GRAHAM:** Any other exhibits?

22 (Exhibit 117 admitted into the record.)

23 Okay. Mr. Ball, thank you very much for your  
24 testimony.

25 Okay. I think it's a good time to take

1 a -- we'll call it a ten-minute break. So at 11:25  
2 on the back -- that clock.

3 (Recess taken.)

4 Okay. We're all nice and refreshed.  
5 We're ready for the 90-minute sprint to lunchtime.  
6 So, TECO, your witness, please.

7 **MR. BEASLEY:** Thank you, Mr. Chairman. TECO  
8 calls Brent Caldwell.

9 Whereupon,

10 **JAMES BRENT CALDWELL**

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

14 **EXAMINATION**

15 **BY MR. BEASLEY:**

16 **Q** Mr. Caldwell, will you state your name for the  
17 record, please.

18 **A** Yes. My name is James Brent Caldwell.

19 **Q** Were you previously sworn yesterday to tell  
20 the truth in this proceeding?

21 **A** Yes.

22 **Q** Could you provide your business address,  
23 please.

24 **A** 702 North Franklin Street, Tampa, Florida  
25 33602.

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

2           **A**    Tampa Electric Company.  I am the Director of  
3 Fuel Planning and Services.

4           **Q**    Mr. Caldwell, did you prepare and submit in  
5 this proceeding four sets of prepared direct testimony,  
6 the first one being 2014 hedging activity true-up  
7 testimony dated April 7, 2015; the second one being fuel  
8 procurement and wholesale power purchases Risk  
9 Management Plan dated August 4, 2015; the third one  
10 being natural gas hedging activities January through  
11 July 2015, filed August 14th; and the fourth one being  
12 testimony of J. Brent Caldwell, projections for January  
13 2016 through December 2016?

14          **A**    Yes, I did.

15          **Q**    On the second one of those where the Risk  
16 Management Plan is identified as 2015, should that be  
17 corrected?

18          **A**    Yes.  The 2015 should be 2016.

19          **Q**    With that change, if I were to ask you the  
20 questions contained in your four prepared direct  
21 testimonies, would your answers be the same?

22          **A**    Yes, they would.

23          **Q**    Have you reviewed the notice -- the document  
24 entitled Tampa Electric Company's notice of areas of  
25 witness expertise filed October 14 in this proceeding?

1           **A**     I have.

2           **Q**     In that it says that you're qualified as an  
3 expert witness in areas of regulatory policy  
4 considerations associated with natural gas financial  
5 hedging; the operation and result of Tampa Electric's  
6 natural gas financial hedging activities; the  
7 development, details, and execution of Tampa Electric's  
8 2014 and 2015 and 2016 Risk Management Plans. Is it  
9 your intent to testify in this proceeding regarding  
10 those areas?

11          **A**     Yes, it is.

12          **MR. BEASLEY:** We would offer Mr. Caldwell for  
13 any voir dire questions that the parties may have.

14          **CHAIRMAN GRAHAM:** Okay. Mr. Moyle, you  
15 realize that you are challenging a graduate of Georgia  
16 Tech? I just thought I'd tee it up for you.

17          **MR. MOYLE:** Mr. Chairman, I appreciate that  
18 because I was not going to ask him about his  
19 educational background.

20                   (Laughter.)

21                                   **VOIR DIRE EXAMINATION**

22          **BY MR. MOYLE:**

23           **Q**     I just have a couple of questions for you.  
24 Are you responsible for executing hedges for Tampa  
25 Electric?



1           **A**     I do not personally execute the hedges, no.

2           **Q**     Okay. Who does?

3           **A**     The area of gas trading does the hedges, and I  
4 monitor and oversee and advise on the hedging. But we  
5 have -- due to separation of duties, we have very  
6 particular people that are allowed to do the hedging.

7           **Q**     When you say separation of duties, what does  
8 that mean?

9           **A**     Separation of duties is a -- it's kind of  
10 industry standard controls to make sure that whether  
11 you're talking physical gas or you're talking financial  
12 hedges, transactions are handled in an appropriate,  
13 responsible manner. People that do the deals are  
14 generally considered front office. The people that  
15 actually make the invoices happen, back office or  
16 settlements, those have to be completely different  
17 people, separation of duties.

18          **Q**     Okay. And I'm familiar with some separation  
19 with respect to regulated companies and unregulated  
20 companies. Is that the separation you're talking about?

21          **A**     It's not. I'm talking about the separation of  
22 duties in terms of executing and settling any sort of  
23 transaction.

24          **Q**     Okay. In your -- the filing that was made  
25 that was just referenced by your company's lawyer, it

1 talks about regulatory policy considerations. Are you  
2 comfortable talking about regulatory policy  
3 considerations if I ask you questions about that?

4 **A** I am.

5 **Q** Okay. So let me just test that a little bit.  
6 Can you tell me any cons related to hedging, any  
7 negative things related to hedging? If you were making  
8 a policy, if the Commission said, okay, can you give me  
9 the pros and cons or good and bad of hedging, if you got  
10 asked that question, would you identify any negatives?

11 **A** I mean, I could certainly address the  
12 potential outcomes of hedging and how those outcomes  
13 could be viewed as a con, yes.

14 **Q** Okay. Well, I'll ask you that when we talk.

15 **MR. MOYLE:** So given this man's education, I  
16 don't have an objection to his being qualified as an  
17 expert.

18 **CHAIRMAN GRAHAM:** Mr. Wright.

19 **MR. WRIGHT:** Nor do we have any objection, no  
20 voir dire. Thank you.

21 **CHAIRMAN GRAHAM:** Okay.

22 **MR. BEASLEY:** Thank you, Mr. Chairman. At  
23 this time I would ask that the four sets of testimony  
24 previously identified by Mr. Caldwell be inserted into  
25 the record as though read.

1                   **CHAIRMAN GRAHAM:** We will insert Mr.  
2 Caldwell's, all of his direct testimony into the record  
3 as though read.

4                   **EXAMINATION**

5                   **BY MR. BEASLEY:**

6                   **Q**     Mr. Caldwell, did you also prepare what's been  
7 marked hearing Exhibits 50, 51, and 52 and submit them  
8 in this proceeding?

9                   **A**     Yes.

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1                   **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**2                                   **PREPARED DIRECT TESTIMONY**3   **OF**4   **J. BRENT CALDWELL**

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

8  
9   **A.**   My name is J. Brent Caldwell. My business address is  
10           702 N. Franklin Street, Tampa, Florida 33602. I am  
11           employed by Tampa Electric Company ("Tampa Electric" or  
12           "company") as Director of Bulk Fuel and Power.

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

16  
17   **A.**   I received a Bachelor's degree in Electrical Engineering  
18           from Georgia Institute of Technology in 1985 and a  
19           Master of Science degree in Electrical Engineering in  
20           1988 from the University of South Florida. I have over  
21           20 years of utility experience with an emphasis in state  
22           and federal regulatory matters, fuel procurement and  
23           transportation, fuel logistics and cost reporting, and  
24           business systems analysis. In October 2010, I assumed  
25           responsibility for long term fuel supply planning and

1 procurement for Tampa Electric's generating stations.

2

3 **Q.** Have you previously testified before the Florida Public  
4 Service Commission ("FPSC" or "Commission")?

5

6 **A.** Yes. I have submitted written testimony in the annual  
7 fuel docket since 2011, and I testified before the  
8 Commission in Docket No. 120234-EI regarding the  
9 company's fuel procurement for the Polk 2-5 Combined  
10 Cycle Conversion project

11

12 **Q.** Please state the purpose of your testimony.

13

14 **A.** The purpose of my testimony is to present, for the  
15 Commission's review, information regarding the 2014  
16 results of Tampa Electric's risk management activities,  
17 as required by the terms of the stipulation entered into  
18 by the parties to Docket No. 011605-EI and approved by  
19 the Commission in Order No. PSC-02-1484-FOF-EI.

20

21 **Q.** Do you wish to sponsor an exhibit in support of your  
22 testimony?

23

24 **A.** Yes. Exhibit No. \_\_\_\_ (JBC-1), entitled Tampa Electric's  
25 2014 Hedging Activity True-up, was prepared under my

1 direction and supervision. This report explains the  
2 company's risk management activities and results for the  
3 calendar year 2014.

4  
5 **Q.** What is the source of the data you present in your  
6 testimony in this proceeding?

7  
8 **A.** Unless otherwise indicated, the source of the data is  
9 the books and records of Tampa Electric. The books and  
10 records are kept in the regular course of business in  
11 accordance with generally accepted accounting principles  
12 and practices, and provisions of the Uniform System of  
13 Accounts as prescribed by this Commission.

14  
15 **Q.** What were the results of Tampa Electric's risk  
16 management activities in 2014?

17  
18 **A.** As outlined in Tampa Electric's 2014 Hedging Activity  
19 True-up, filed as an exhibit to this testimony, the  
20 company follows a non-speculative risk management  
21 strategy to reduce fuel price volatility while  
22 maintaining a reliable supply of fuel. In particular,  
23 Tampa Electric established a financial hedging program  
24 to limit customers' exposure to spikes in the price of  
25 natural gas. Over time, this program has been enhanced

1 as Tampa Electric's gas needs have evolved and grown.  
2 All enhancements have been reviewed and approved by the  
3 company's Risk Authorization Committee.  
4

5 The report indicates that Tampa Electric's 2014 hedging  
6 activities resulted in a net gain of approximately \$15.6  
7 million. Tampa Electric followed the plan objective of  
8 reducing price volatility while maintaining a reliable  
9 fuel supply. Natural gas prices increased in early 2014  
10 as a result of the significant inclement weather and  
11 resulting impact on coal deliveries and inventories  
12 during the winter of 2013/2014. Following that rise,  
13 the continuing abundance of natural gas supply from non-  
14 conventional, shale gas production has allowed natural  
15 gas prices to decrease again.  
16

17 **Q.** Does Tampa Electric implement physical hedges for  
18 natural gas?  
19

20 **A.** No, Tampa Electric does not hedge natural gas pricing  
21 through physical gas supply contracts. Tampa Electric  
22 does hedge its natural gas supply through  
23 diversification. Tampa Electric also physically hedges  
24 its supply through the use of a variety of sources,  
25 delivery methods, inventory locations and contractual

1 terms to enhance the company's supply reliability and  
2 flexibility to cost-effectively meet changing  
3 operational needs.

4  
5 Tampa Electric continually pursues new creditworthy  
6 counterparties and maintains contracts for gas supplies  
7 from various regions and on different pipelines. The  
8 company also contracts for pipeline capacity to access  
9 non-conventional shale gas production which is less  
10 sensitive to interruption by hurricanes. Additionally,  
11 Tampa Electric has storage capacity with Bay Gas Storage  
12 near Mobile, Alabama. All of these actions enhance the  
13 effectiveness of Tampa Electric's gas supply portfolio.

14  
15 **Q.** Does Tampa Electric use a hedging information system?

16  
17 **A.** Yes, until recently, Tampa Electric has used Sungard's  
18 Nucleus Risk Management System ("Nucleus"). In 2013,  
19 Tampa Electric initiated a project to replace Nucleus  
20 with Allegro. The natural gas portion of the Allegro  
21 project replaced Nucleus for all natural gas financial  
22 and physical transactions effective November 1, 2014.  
23 Allegro supports sound hedging practices with its  
24 contract management, separation of duties, credit  
25 tracking, transaction limits, deal confirmation, risk



1 exposure analysis and business report generation  
2 functions. The Allegro system records all financial  
3 natural gas hedging transactions, and the system  
4 calculates risk management reports.

5  
6 **Q.** Did the company use financial hedges for commodities  
7 other than natural gas in 2014?

8  
9 **A.** No. Tampa Electric did not use financial hedges for  
10 commodities other than natural gas in 2014.

11  
12 Tampa Electric's generation comprises mostly coal and  
13 natural gas. The price of coal has historically been  
14 stable compared to the prices of oil and natural gas.  
15 In addition, there is not an organized, nor a liquid,  
16 market for financial hedging instruments for the high-  
17 sulfur Illinois Basin coal that Tampa Electric uses at  
18 Big Bend Station, its largest coal-fired generation  
19 facility.

20  
21 Tampa Electric consumes a small amount of oil; however,  
22 its low and erratic usage pattern makes price hedging  
23 impractical.

24  
25 Similarly, Tampa Electric did not use financial hedges

1 for wholesale power transactions because a liquid,  
2 published market does not exist for power in Florida.

3  
4 **Q.** How does Tampa Electric assure physical supply of other  
5 commodities?

6  
7 **A.** Tampa Electric assures sufficient physical supply of  
8 coal and oil through supply diversification, inventory  
9 sufficiency, and delivery flexibility. For coal, the  
10 company enters into a portfolio of contracts with  
11 differing terms and various suppliers to obtain the  
12 types of coal used in its electric generation system.  
13 Through a competitive bid process, supplier diversity  
14 and transportation flexibility, Tampa Electric is able  
15 to get competitive prices with valuable quality and  
16 transportation flexibility by selecting from a wide  
17 range of purchase options.

18  
19 For oil, Tampa Electric fills its oil tanks prior to  
20 entering hurricane season to reduce exposure to supply  
21 or price issues that may arise during hurricane season.  
22 Competition for potentially limited oil supplies and oil  
23 transportation during a crisis emphasizes the need for  
24 maintaining sufficient inventory.

25

1 Q. What is the basis for your request to recover the  
2 commodity and transaction costs described above?

3  
4 A. Tampa Electric requests cost recovery pursuant to the  
5 Commission Order No. PSC-02-1484-FOF-EI, in Docket No.  
6 011605-EI:

7 Each investor-owned electric utility shall  
8 be authorized to charge/credit to the fuel  
9 and purchased power cost recovery  
10 clause its non-speculative, prudently-  
11 incurred commodity costs and gains and  
12 losses associated with financial and/or  
13 physical hedging transactions for natural  
14 gas, residual oil, and purchased power  
15 contracts tied to the price of natural gas.

16  
17 Q. Does this conclude your testimony?

18  
19 A. Yes, it does.  
20  
21  
22  
23  
24  
25

1                   **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**2                                   **PREPARED DIRECT TESTIMONY**3   **OF**4   **J. BRENT CALDWELL**

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

8  
9   **A.**   My name is J. Brent Caldwell. My business address is  
10           702 North Franklin Street, Tampa, Florida 33602. I am  
11           employed by Tampa Electric Company ("Tampa Electric" or  
12           "company") as Director, Fuels Planning and Services.

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

16  
17   **A.**   I received a Bachelor's degree in Electrical  
18           Engineering from Georgia Institute of Technology in  
19           1985 and a Master of Science degree in Electrical  
20           Engineering in 1988 from the University of South  
21           Florida. I have over 20 years of utility experience  
22           with an emphasis in state and federal regulatory  
23           matters, fuel procurement and transportation, fuel  
24           logistics and cost reporting, and business systems  
25           analysis. In October 2010, I assumed responsibility

1 for long term fuel supply planning and procurement for  
2 Tampa Electric's generating stations.

3  
4 **Q.** What is the purpose of your testimony?

5  
6 **A.** The purpose of my testimony is to sponsor and describe  
7 Exhibit No. \_\_\_\_ (JBC-2), entitled Tampa Electric  
8 Company's Fuel Procurement and Wholesale Power  
9 Purchases Risk Management Plan 2016.

10  
11 **Q.** Was this exhibit prepared by you or under your  
12 direction and supervision?

13  
14 **A.** Yes, it was.

15  
16 **Q.** Please describe your exhibit.

17  
18 **A.** My Exhibit No. \_\_\_\_ (JBC-2) provides Tampa Electric's  
19 overall plan for mitigating risk in the company's  
20 procurement of fuel and purchased power during 2016.

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

23  
24 **A.** Yes, it does.

25

1                   **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**2                   **PREPARED DIRECT TESTIMONY**3                   **OF**4                   **J. BRENT CALDWELL**

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

8  
9   **A.**   My name is J. Brent Caldwell. 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, Fuels Planning and Services.

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

16  
17   **A.**   I received a Bachelor Degree in Electrical Engineering  
18           from Georgia Institute of Technology in 1985 and a  
19           Master of Science degree in Electrical Engineering in  
20           1988 from the University of South Florida. I have over  
21           20 years of utility experience with an emphasis in state  
22           and federal regulatory matters, natural gas procurement  
23           and transportation, fuel logistics and cost reporting,  
24           and business systems analysis. In October 2010, I  
25           assumed responsibility for long term fuel supply

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

planning and procurement for Tampa Electric's generating stations.

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

**A.** The purpose of my testimony is to sponsor and describe my Exhibit No. \_\_\_\_ (JBC-3), entitled Tampa Electric Natural Gas Hedging Activities, January 1, 2015 through July 31, 2015.

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

**A.** Yes, it was.

**Q.** Please describe your exhibit.

**A.** My Exhibit No. \_\_\_\_ (JBC-3) shows details of Tampa Electric's hedging activities for natural gas for the seven month period January through July 2015.

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

**A.** Yes, it does.

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**  
**PREPARED DIRECT TESTIMONY**  
**OF**  
**J. BRENT CALDWELL**

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

**A.** My name is J. Brent Caldwell. My business address is 702 N. Franklin Street, Tampa, Florida 33602. I am employed by Tampa Electric Company ("Tampa Electric" or "company") as Director, Fuel Planning and Services.

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

**A.** I received a Bachelor Degree in Electrical Engineering from Georgia Institute of Technology in 1985 and a Master of Science degree in Electrical Engineering in 1988 from the University of South Florida. I have over 20 years of utility experience with an emphasis in state and federal regulatory matters, natural gas procurement and transportation, fuel logistics and cost reporting, and business systems analysis. In October 2010, I assumed responsibility for long term fuel supply planning and procurement for Tampa Electric's generation



1 plants.

2

3 Q. Have you previously testified before this Commission?

4

5 A. Yes. I have submitted written testimony in the annual  
6 fuel docket since 2011 and Docket No. 130040-EI, and I  
7 testified before the Commission in Docket No. 120234-EI  
8 regarding the company's fuel procurement for the Polk 2-5  
9 Combined Cycle Conversion project.

10

11 Q. What is the purpose of your testimony?

12

13 A. The purpose of my testimony is to discuss Tampa  
14 Electric's fuel mix, fuel price forecasts, potential  
15 impacts to fuel prices, and the company's fuel  
16 procurement strategies. I will address steps Tampa  
17 Electric takes to manage fuel supply reliability and  
18 price volatility and describe projected hedging  
19 activities.

20

21 **Fuel Mix and Procurement Strategies**

22 Q. What fuels do Tampa Electric's generating stations use?

23

24 A. Tampa Electric's fuel mix includes coal, natural gas, and  
25 oil. In 2015, as in previous years, coal is the fuel for

1 Big Bend Station; the Polk Unit 1 integrated gasification  
 2 combined cycle utilizes coal as the primary fuel and  
 3 natural gas as a secondary fuel; and Bayside Station  
 4 combined cycles and the company's collection of peakers  
 5 (i.e., simple cycle and aero derivative combustion  
 6 turbines) utilize natural gas. Some of Tampa Electric's  
 7 peakers utilize oil as a secondary fuel. In 2015, the  
 8 company expects total system generation to be 54 percent  
 9 coal, 46 percent natural gas, and less than one percent  
 10 oil.

11  
 12 During the upcoming year, Tampa Electric plans to test  
 13 natural gas as a co-fired fuel in Big Bend station. The  
 14 natural gas co-firing affects the system's coal and  
 15 natural gas consumption, as I describe later in my  
 16 testimony. In 2016, coal-fired generation is expected to  
 17 be approximately 48 percent of total generation and  
 18 natural-gas fired generation, including the Big Bend co-  
 19 fired volumes, is expected to be 52 percent. Generation  
 20 from oil is expected to remain less than one percent of  
 21 the total generation.

22  
 23 **Q.** Please describe Tampa Electric's fuel supply procurement  
 24 strategy.

25

1     **A.** Tampa Electric emphasizes flexibility and options in its  
 2     fuel procurement strategy for all of its fuel needs. The  
 3     company strives to maintain a large number of  
 4     creditworthy and viable suppliers. Similarly, the company  
 5     endeavors to maintain multiple delivery path options.  
 6     Tampa Electric also attempts to diversify the locations  
 7     from which its supply is sourced. Having a greater number  
 8     of fuel supply and delivery options provides increased  
 9     reliability and lower costs for Tampa Electric's  
 10    customers.

11

12    **Coal Supply Strategy**

13    **Q.** Please describe Tampa Electric's solid fuel usage and  
 14    procurement strategy.

15

16    **A.** Tampa Electric uses solid fuel for the four pulverized-  
 17    coal steam turbine units at Big Bend Station and as the  
 18    primary fuel for the integrated gasification combined  
 19    cycle Polk Unit 1. The coal-fired units at Big Bend  
 20    Station are fully scrubbed for sulfur dioxide and  
 21    nitrogen oxides and are designed to burn high-sulfur  
 22    Illinois Basin coal. Polk Unit 1 currently burns a mix of  
 23    petroleum coke and low sulfur coal. Each plant has  
 24    varying operational and environmental restrictions and  
 25    requires fuel with custom quality characteristics such as

1 ash content, fusion temperature, sulfur content, heat  
2 content and chlorine content. Since coal is not a  
3 homogenous product, fuel selection is based on unique  
4 characteristics, price, availability, deliverability, and  
5 creditworthiness of the supplier.

6  
7 To minimize costs, maintain operational flexibility, and  
8 ensure reliable supply, Tampa Electric maintains a  
9 portfolio of bilateral coal supply contracts with varying  
10 term lengths. Tampa Electric monitors the market to  
11 obtain the most favorable prices from sources that meet  
12 the needs of the generating stations. The use of daily  
13 and weekly publications, independent research analyses  
14 from industry experts, discussions with suppliers, and  
15 coal solicitations aid the company in monitoring the coal  
16 market and shaping the company's coal procurement  
17 strategy to reflect current market conditions. Tampa  
18 Electric's strategy provides a stable supply of reliable  
19 fuel sources while still allowing flexibility for the  
20 company to take advantage of favorable spot market  
21 opportunities and address operational needs.

22  
23 **Q.** Please summarize Tampa Electric's solid fuel, coal and  
24 petroleum coke supply for 2015.

25

1     **A.** Tampa Electric supplies Big Bend Station's coal needs  
2           through a combination of three coal supply agreements  
3           that continue through 2017 and a collection of shorter  
4           term contracts and spot purchases. These shorter term  
5           purchases allow the company to adjust supply to reflect  
6           changing coal quality and quantity needs, operational  
7           changes and pricing opportunities.

8

9     **Q.** Has Tampa Electric entered into coal supply transactions  
10          for 2016 delivery?

11

12    **A.** Yes, Tampa Electric has contracted for approximately  
13          three-fourths of its 2016 expected coal needs through  
14          agreements with coal suppliers to mitigate price  
15          volatility and ensure reliability of supply. Tampa  
16          Electric anticipates the remaining solid fuel consumption  
17          for Big Bend Station and Polk Unit 1 will be procured  
18          through spot market purchases or consumed from inventory  
19          during 2015 and 2016.

20

21    **Coal Transportation**

22    **Q.** Please describe Tampa Electric's solid fuel  
23          transportation arrangements.

24

25    **A.** Tampa Electric can receive coal at its Big Bend Station

1 via waterborne delivery or rail delivery. Once delivered  
2 to Big Bend Station, Polk Unit 1 solid fuel is  
3 transported to Polk Station via trucks.  
4

5 **Q.** Why does the company maintain multiple coal  
6 transportation options in its portfolio?  
7

8 **A.** Transportation options provide benefits to customers.  
9 Bimodal solid fuel transportation to Big Bend Station  
10 affords the company and its customers 1) access to more  
11 potential coal suppliers providing a more competitively  
12 priced and diverse, delivered coal portfolio, 2) the  
13 opportunity to switch to either water or rail in the  
14 event of a transportation breakdown or interruption on  
15 the other mode, and 3) competition for solid fuel  
16 transportation contracts for future periods.  
17

18 **Q.** Will Tampa Electric continue to receive coal deliveries  
19 via rail in 2015 and 2016?  
20

21 **A.** Yes. Tampa Electric expects to receive over one and one-  
22 half million tons of coal for use at Big Bend Station  
23 through the Big Bend rail facility during 2016.  
24

25 **Q.** Please describe Tampa Electric's expectations regarding

1 waterborne coal deliveries.

2

3 **A.** Tampa Electric expects to receive the balance of its  
4 solid fuel supply needs as waterborne deliveries to its  
5 unloading facilities at Big Bend Station. These  
6 deliveries come via the Mississippi River system through  
7 United Bulk Terminal or from foreign sources. The  
8 ultimate source is dependent upon quality, operational  
9 needs, and lowest overall delivered cost.

10

11 **Q.** Please summarize the company's current coal waterborne  
12 transportation agreements.

13

14 **A.** In 2014, Tampa Electric issued Requests for Proposals  
15 ("RFP") for all three legs of transportation for solid  
16 fuel originating from the Illinois Basin and delivered to  
17 Big Bend Station--river barges along the inland  
18 waterways, terminal service at the mouth of the  
19 Mississippi River, and transit across the Gulf of Mexico.  
20 Tampa Electric executed four new solid fuel  
21 transportation agreements with respondents to the RFP.  
22 The agreements were finalized in late 2014 and early 2015  
23 and took effect in 2015.

24

25 **Q.** Please describe the four agreements.

1     **A.** For river barge transportation, Tampa Electric executed  
2     an agreement with Ingram Barge Company. This agreement  
3     provides river barge services from numerous docks on the  
4     inland waterway system to various terminals around New  
5     Orleans, Louisiana. The agreement expires at the end of  
6     [REDACTED] and provides annual transportation volumes between  
7     [REDACTED] tons and [REDACTED] tons. Tampa Electric also  
8     entered an agreement with an existing coal supplier,  
9     Knight Hawk Coal Company, to receive its supply delivered  
10    to the terminal. This effectively provides river  
11    transportation for [REDACTED] to [REDACTED] tons per year  
12    through [REDACTED]. The rates for these new contracts are  
13    approximately [REDACTED] to [REDACTED] per ton less than the  
14    previous river transportation agreement.

15  
16    For terminal service, Tampa Electric entered an agreement  
17    with United Bulk Terminal. The agreement is through [REDACTED]  
18    with Tampa Electric having a unilateral right to extend  
19    the agreement through [REDACTED]. The new agreement provides  
20    over 500,000 tons of storage capacity, blending  
21    capability, no minimum throughput, discount opportunities  
22    and pricing flexibility. The new contract is priced  
23    approximately [REDACTED] to [REDACTED] per ton lower than the  
24    agreement that it replaced.

25



1 For Gulf transportation, Tampa Electric entered into an  
2 agreement with United Ocean Services through [REDACTED] with  
3 Tampa Electric's unilateral right to extend through [REDACTED].  
4 The new agreement reduces the annual commitment from  
5 [REDACTED] tons to [REDACTED] tons. The cost to transport  
6 across the Gulf of Mexico also decreased by over [REDACTED]  
7 per ton.

8  
9 **Q.** Please describe any other solid fuel transportation  
10 agreements that changed recently.

11  
12 **A.** In 2014, Tampa Electric also issued an RFP for trucking  
13 service between Big Bend Station and Polk Station. The  
14 company entered an agreement with Dillon trucking to  
15 begin in 2015. Dillon subsequently agreed to start  
16 performing under the contract in late 2014 when Tampa  
17 Electric's previous truck transportation supplier found  
18 it difficult to perform as they began losing drivers when  
19 the contract with Tampa Electric neared expiration. The  
20 Dillon agreement continues through [REDACTED] at a fixed price,  
21 and Tampa Electric has the unilateral option to extend at  
22 a known price through [REDACTED]. The Dillon trucks are larger  
23 than the previous provider's trucks, thereby reducing  
24 volume of truck traffic at the stations and on the  
25 roadways. In addition, Dillon's trucks use compressed

1 natural gas as fuel, providing cost savings and emission  
2 reductions. The price for trucking services under the  
3 Dillon agreement is slightly less than the prior  
4 agreement.

5  
6 **Q.** Please describe any other significant factors that Tampa  
7 Electric considered in developing its 2016 solid fuel  
8 supply portfolio.

9  
10 **A.** Tampa Electric placed an emphasis on flexibility in its  
11 solid fuel supply portfolio. The company recognizes that  
12 several factors may impact the annual consumption of  
13 solid fuel. There are several environmental regulations  
14 being enacted or proposed to be enacted in the next few  
15 years. These regulations will affect the types of coal,  
16 the quantities of coal that can be consumed at the  
17 stations or, most likely, both. Also, Tampa Electric and  
18 Florida's generation assets continue to evolve. Tampa  
19 Electric is in the process of converting the natural gas  
20 combustion turbines at Polk Power Station into a very  
21 efficient natural gas combined cycle unit. Several new  
22 natural gas combined cycle units recently have been built  
23 within the state. Depending on the relative price of  
24 delivered solid fuel, delivered natural gas and the  
25 dynamics of the wholesale power market, the actual

1 quantity of solid fuel burned may vary significantly each  
2 year. Tampa Electric strives to balance the need to have  
3 reliable solid fuel commodity and transportation while  
4 mitigating the potential for significant shortfall  
5 penalties if the commodity or transportation is not  
6 needed.

7  
8 **Natural Gas Supply Strategy**

9 **Q.** How does Tampa Electric's natural gas procurement and  
10 transportation strategy achieve competitive natural gas  
11 purchase prices for long and short term deliveries?

12  
13 **A.** Similar to its coal strategy, Tampa Electric uses a  
14 portfolio approach to natural gas procurement. This  
15 approach consists of a blend of pre-arranged base,  
16 intermediate, and swing natural gas supply contracts  
17 complemented with shorter term spot purchases. The  
18 contracts have various time lengths to help secure needed  
19 supply at competitive prices and maintain the ability to  
20 take advantage of favorable natural gas price movements.  
21 Tampa Electric purchases its physical natural gas supply  
22 from approved counterparties, enhancing the liquidity and  
23 diversification of its natural gas supply portfolio. The  
24 natural gas prices are based on monthly and daily price  
25 indices, further increasing pricing diversification.

1 Tampa Electric diversifies its pipeline transportation  
2 assets, including receipt points. The company also  
3 utilizes pipeline and storage tools to enhance access to  
4 natural gas supply during hurricanes or other events that  
5 constrain supply. Such actions improve the reliability  
6 and cost effectiveness of the physical delivery of  
7 natural gas to the company's power plants. Furthermore,  
8 Tampa Electric strives, on a daily basis, to obtain  
9 reliable supplies of natural gas at favorable prices in  
10 order to mitigate costs to its customers. Additionally,  
11 Tampa Electric's risk management activities reduce  
12 natural gas price volatility.

13  
14 **Q.** Please describe Tampa Electric's diversified natural gas  
15 transportation arrangements.

16  
17 **A.** Tampa Electric receives natural gas via the Florida Gas  
18 Transmission ("FGT") and Gulfstream Natural Gas System,  
19 LLC ("Gulfstream") pipelines. The ability to deliver  
20 natural gas directly from two pipelines increases the  
21 fuel delivery reliability for Bayside Power Station,  
22 which is composed of two large natural gas combined cycle  
23 units and four aero-derivative combustion turbines.  
24 Natural gas can also be delivered to Big Bend Station  
25 directly from Gulfstream to support the aero-derivative

1 combustion turbine and coal unit startup. Polk Station  
 2 receives natural gas from FGT to support the four natural  
 3 gas combustion turbines at that station.

4  
 5 **Q.** What actions has Tampa Electric taken to enhance the  
 6 reliability of its natural gas transportation portfolio?

7  
 8 **A.** In 2015, Tampa Electric acquired 20,000 MMBtu per day of  
 9 firm FGT FTS-3 capacity at the discounted rate of [REDACTED]  
 10 per MMBtu. The quantity grows to a maximum of [REDACTED]  
 11 MMBtu per day by [REDACTED] and remains at that level through  
 12 the [REDACTED] year term of the agreement.

13  
 14 **Q.** What actions does Tampa Electric take to enhance the  
 15 reliability of its natural gas supply?

16  
 17 **A.** Tampa Electric maintains natural gas storage capacity  
 18 with Bay Gas Storage near Mobile, Alabama to provide  
 19 operational flexibility and reliability of natural gas  
 20 supply. Currently the company reserves 1,250,000 MMBtu of  
 21 long-term storage capacity and has 250,000 MMBtu of  
 22 shorter-term storage capacity.

23  
 24 In addition to storage, Tampa Electric maintains  
 25 diversified natural gas supply receipt points in FGT

1 Zones 1, 2 and 3. Diverse receipt points reduce the  
2 company's vulnerability to hurricane impacts and provide  
3 access to potentially lower priced gas supply.

4

5 Tampa Electric also reserves capacity on the Southeast  
6 Supply Header ("SESH") and the Transco lateral. SESH and  
7 the Transco lateral connect the receipt points of FGT and  
8 other Mobile Bay area pipelines with natural gas supply  
9 in the mid-continent. Mid-continent natural gas  
10 production has grown and continues to increase. Thus,  
11 SESH and the Transco lateral give Tampa Electric access  
12 to secure, competitively priced on-shore gas supply for a  
13 portion of its portfolio.

14

15 **Q.** Does Tampa Electric have plans to secure additional  
16 natural gas supply for 2016 delivery?

17

18 **A.** Yes. Tampa Electric is currently in the process of  
19 securing approximately two-thirds of the company's  
20 expected natural gas requirements for 2016. The balance  
21 of Tampa Electric's natural gas supply will be acquired  
22 through seasonal, monthly and daily purchases to meet its  
23 varying operational needs.

24

25 **Q.** Will Tampa Electric's generating stations require a

1 greater volume of natural gas in 2016 compared to  
2 expected usage during 2015?

3  
4 **A.** Yes, the company expects to use additional natural gas at  
5 its Big Bend Station. During 2015, the company has been  
6 converting the igniters on the coal-fired Big Bend Units  
7 1 through 4 to run on natural gas instead of oil. This  
8 work is expected to be completed in October 2015. In  
9 2016, Tampa Electric plans to test the co-firing  
10 capabilities of the units. Co-firing, using natural gas  
11 to supplement the coal-fueled input of the four coal  
12 units, will allow the company to respond quickly to  
13 operational changes, environmental constraints, and  
14 shifting customer demand. Co-firing is also expected to  
15 increase the reliability of these units' operation.

16  
17 **Q.** Will Tampa Electric need to enter additional supply or  
18 transportation contracts for the natural gas to be used  
19 at Big Bend Station?

20  
21 **A.** In isolation, no, Tampa Electric does not need to add  
22 additional supply or transportation contracts for the  
23 natural gas to be consumed at Big Bend Station in 2016,  
24 particularly since the gas is for testing purposes and  
25 for startup. However, the FGT FTS-3 pipeline capacity

1 added in 2015 is needed to account for the cumulative  
 2 demand from Big Bend start-up, potential restrictions on  
 3 coal-fired generation from environmental regulations  
 4 associated with the Clean Power Plan, increased  
 5 operational limits proposed by interstate pipelines, and  
 6 overall competition for gas supply and pipeline capacity  
 7 for delivery to the surging natural gas-fueled generation  
 8 market in Florida.

9  
 10 **Q.** Has Tampa Electric reasonably managed its fuel  
 11 procurement practices for the benefit of its retail  
 12 customers?

13  
 14 **A.** Yes. Tampa Electric diligently manages its mix of long,  
 15 intermediate, and short term purchases of fuel in a  
 16 manner designed to reduce overall fuel costs while  
 17 maintaining electric service reliability. The company's  
 18 fuel activities and transactions are reviewed and audited  
 19 on a recurring basis by the Commission. In addition, the  
 20 company monitors its rights under contracts with fuel  
 21 suppliers to detect and prevent any breach of those  
 22 rights. Tampa Electric continually strives to improve its  
 23 knowledge of fuel markets and to take advantage of  
 24 opportunities to minimize the costs of fuel.

25



1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

**Projected 2016 Fuel Prices**

**Q.** How does Tampa Electric project fuel prices?

**A.** Tampa Electric reviews fuel price forecasts from sources widely used in the industry, including the New York Mercantile Exchange ("NYMEX"), Wood Mackenzie, the Energy Information Administration, and other energy market information sources. Futures prices for energy commodities as traded on the NYMEX form the basis of the natural gas and No. 2 oil market commodity price forecasts. The commodity price projections are then adjusted to incorporate expected transportation costs and location differences. Tampa Electric utilized the average of the five daily NYMEX natural gas futures settlement prices for the period April 30, 2015 - May 4, 2015 to prepare the fuel price forecast.

Coal prices and coal transportation prices are projected using contracted pricing and information from industry-recognized consultants and published indices and are specific to the particular quality and mined location of coal utilized by Tampa Electric's Big Bend Station and Polk Unit 1. Final as-burned prices are derived using expected commodity prices and associated transportation costs.

1   **Q.**   How do the 2016 projected fuel prices compare to the fuel  
2           prices projected for 2015?

3

4   **A.**   Fuel prices for coal and natural gas for 2016 are  
5           projected to be lower than the prices projected for 2015.  
6           Continued natural gas production from shale reserves  
7           coupled with low crude oil prices is pushing prices down  
8           for all fuel commodities. Natural gas prices are  
9           projected to be slightly higher in 2016 than the natural  
10          gas prices projected for 2015 in the company's actual-  
11          estimated analysis. The lower coal demand resulting from  
12          coal-fired unit closures is expected to keep coal prices  
13          low despite some consolidation and production cuts in  
14          domestic coal supply.

15

16   **Q.**   Did Tampa Electric consider the impact of higher than  
17          expected or lower than expected fuel prices?

18

19   **A.**   Yes. While 2016 projected prices for coal and natural gas  
20          are expected to be similar to 2015 prices, Tampa Electric  
21          recognizes that there is uncertainty in future prices.  
22          Therefore, Tampa Electric prepared a scenario in which  
23          the forecasted price for natural gas was increased by 35  
24          percent. Similarly, Tampa Electric prepared a scenario in  
25          which the forecasted price for natural gas was reduced by

1 20 percent. Due to Tampa Electric's generating mix and  
2 Commission-approved natural gas hedging strategy, the  
3 impact of the fuel price changes under either scenario is  
4 mitigated.

5  
6 **Risk Management Activities**

7 **Q.** Please describe Tampa Electric's risk management  
8 activities.

9  
10 **A.** Tampa Electric complies with its risk management plan as  
11 approved by the company's Risk Authorizing Committee.  
12 Tampa Electric's plan is described in detail in the Fuel  
13 Procurement and Wholesale Power Purchases Risk Management  
14 Plan ("Risk Management Plan"), submitted to the  
15 Commission on August 4, 2015 in this docket.

16  
17 **Q.** Has Tampa Electric used financial hedging in an effort to  
18 mitigate the price volatility of its 2015 and 2016  
19 natural gas requirements?

20  
21 **A.** Yes. Tampa Electric hedged a significant portion of its  
22 2015 natural gas supply needs and a portion of its  
23 expected 2016 natural gas supply needs in accordance with  
24 the company's hedge plan. Tampa Electric will continue to  
25 take advantage of available natural gas hedging

1 opportunities in an effort to benefit its customers,  
2 while complying with its approved Risk Management Plan.  
3 The current market position for natural gas hedges was  
4 provided in the company's Natural Gas Hedging Activities  
5 report submitted to the Commission in this docket on  
6 August 14, 2015.

7  
8 **Q.** Are the company's strategies adequate for mitigating  
9 price risk for Tampa Electric's 2015 and 2016 natural gas  
10 purchases?

11  
12 **A.** Yes, the company's strategies are adequate for mitigating  
13 price risk for Tampa Electric's natural gas purchases.  
14 Tampa Electric's strategies balance the desire for  
15 reduced price volatility and reasonable cost with the  
16 uncertainty of natural gas volumes. These strategies are  
17 also described in detail in Tampa Electric's Risk  
18 Management Plan.

19  
20 **Q.** How does Tampa Electric determine the volume of natural  
21 gas it plans to hedge?

22  
23 **A.** Tampa Electric projects the volume of natural gas  
24 expected to be consumed in its power plants. The volume  
25 hedged is driven by the projected total natural gas

1 consumption in its combined-cycle plants by month and the  
2 time until that natural gas is needed. Based on those two  
3 parameters, the amount hedged is maintained within a  
4 range authorized by the company's Risk Authorizing  
5 Committee and monitored by the Risk Management  
6 department. The market price of natural gas does not  
7 affect the percentage of natural gas requirements that  
8 the company hedges since the objective is price  
9 volatility reduction, not price speculation.

10  
11 **Q.** Were Tampa Electric's efforts through July 31, 2015 to  
12 mitigate price volatility through its non-speculative  
13 hedging program prudent?

14  
15 **A.** Yes. Tampa Electric has executed hedges according to the  
16 Risk Management Plan filed with this Commission, which  
17 was approved by the company's Risk Authorizing Committee.  
18 On April 7, 2015, the company filed its 2014 Natural Gas  
19 Hedging Activities report. Additionally, utilities must  
20 submit a Natural Gas Hedging Activity Report showing the  
21 results of hedging activities from January through July  
22 of the current year. The Hedging Activity Report  
23 facilitates prudence reviews through July 31 of the  
24 current year and allows for the Commission's prudence  
25 determination at the annual fuel hearing. Tampa Electric

1 filed its Natural Gas Hedging Activities report, showing  
2 the results of its prudent hedging activities from  
3 January through July 2015, in this docket on August 14,  
4 2015.

5  
6 **Q.** Does Tampa Electric expect its hedging program to provide  
7 fuel savings?

8  
9 **A.** Tampa Electric's hedged quantity of natural gas may or  
10 may not generate a fuel savings. Fuel savings is not the  
11 focus of the hedge program. The primary objective of the  
12 company's hedging program is to reduce fuel price  
13 volatility as approved by the Commission, not speculate  
14 on the price of fuel. Tampa Electric's hedging program  
15 requires consistent hedging based on expected needs. The  
16 company does not engage in speculative hedging strategies  
17 aimed at out-guessing the market. This discipline ensures  
18 the needed hedge volumes will be in place for customers  
19 regardless of the price movements of natural gas.

20  
21 **Hedging Issues**

22 **Q.** Have you reviewed the issues raised by OPC regarding the  
23 appropriateness of financial hedging?

24  
25 **A.** Yes, I have. I believe the following two uncontested

1 issues have been raised by OPC:

2 One, is it in the consumers' best interest for the  
3 utilities to continue financial hedging activities?

4 And two, what changes, if any, should be made to the  
5 manner in which electric utilities conduct their  
6 financial hedging activities?

7

8 Tampa Electric will await and review the interveners'  
9 positions stated in testimony, due September 23, 2015,  
10 prior to the company formulating a response. However,  
11 statements by the Commission in its orders addressing  
12 financial hedging and hedging audits by the Commission's  
13 Staff suggest that utilities hedge using systematic and  
14 prudent methods, consumers benefit from the utilities'  
15 financial hedging activities, and no changes need to be  
16 made to the manner in which electric utilities conduct  
17 their financial hedging activities.

18

19 **Q.** Please identify the orders and audit results to which you  
20 refer.

21

22 **A.** In 2002 the Commission issued an order<sup>1</sup> ("the Hedging  
23 Order") approving a proposed resolution of issues  
24 relating to financial hedging, between and among Florida

---

<sup>1</sup> Order No. PSC-02-1484-FOF-EI, issued October 30, 2002 in Docket No. 011605-EI

1 Power & Light ("FPL"), Duke Energy Florida's "DEF"  
2 predecessor, Gulf Power, Tampa Electric, OPC and FIPUG.  
3 The Hedging Order established a framework and direction  
4 for the Commission and the parties to follow with respect  
5 to risk management for fuel procurement. That framework,  
6 with some later modifications, constitutes the risk  
7 management policy and procedures the Commission follows  
8 today. In the Hedging Order, the Commission noted that  
9 the resolution it approved appeared to remove  
10 disincentives that may have existed for IOUs to engage in  
11 financial hedging transactions that may create customer  
12 benefits by providing a cost recovery mechanism for  
13 prudently incurred financial hedging transaction costs,  
14 gains and losses, and incremental operating and  
15 maintenance expenses associated with new and expanded  
16 hedging programs.

17  
18 Order No. PSC-08-0316-PAA-EI<sup>2</sup> was the first of two  
19 clarifications in 2008 to the Hedging Order. This Order  
20 established a requirement that each IOU file a current-  
21 year, financial hedging review (Hedging Information  
22 Report) that provides actual hedging information for the  
23 period August 1 through July 31. The reporting  
24 requirement was established to enhance the Commission's

---

<sup>2</sup> Order No. PSC-08-0316-PAA-EI, issued May 14, 2008 in Docket No. 080001-EI



1 tools for reviewing the prudence of the utilities' most  
2 recent financial hedging activities.

3  
4 The Commission then entered Order No. PSC-08-0667-PAA-EI<sup>3</sup>,  
5 in which it affirmed its long-term support for financial  
6 hedging. In reviewing FPL's guidelines for financial  
7 hedging, the Commission noted that hedging can reduce the  
8 volatility of fuel adjustment charges paid by customers  
9 and that a well-managed financial hedging program does  
10 not involve speculation. The Commission further noted  
11 that in the 2008 mid-course corrections for DEF, FPL and  
12 Gulf, hedging gains significantly reduced the projected  
13 under-recoveries. The Commission said that it had  
14 previously found that customers benefit from stable rates  
15 that allow the customers to budget for electric bills and  
16 hedging has contributed to the stability of fuel factors.

17  
18 In its ruling in Order No. PSC-08-0667-PAA-EI, the  
19 Commission stated that by approving FPL's proposed  
20 guidelines, "we demonstrate our support for hedging." The  
21 Commission further stated:

22 "We find that utility hedging programs  
23 provide benefits to customers. By  
24 approving these guidelines we provide

---

<sup>3</sup> Order No. PSC-08-0667-PAA-EI, issued October 8, 2008 in Docket No. 080001-EI

1 regulatory support and guidance regarding  
2 hedging programs.”

3

4 The benefits of hedging were highlighted in a management  
5 audit conducted by the Commission's Staff in 2008. Upon  
6 completion of the Staff's audits of IOU hedging  
7 activities, the management audit concluded:

8 Overall, audit staff believes that the use  
9 of financial hedges for fuel purchases  
10 provides a benefit to utility customers.  
11 Each program is appropriately controlled,  
12 efficiently organized, and operates under  
13 a non-speculative format. There are areas  
14 of improvement, which are outlined later  
15 in each company's chapter. Generally, each  
16 company has successfully mitigated the  
17 price volatility for its customers. There  
18 have been years in which each company's  
19 hedging program provided a gain on its  
20 fuel cost, and years in which each program  
21 has incurred losses. This is to be  
22 expected. Hedging commodities involves the  
23 risk of higher prices at the expense of  
24 attempting to reduce price volatility. For  
25 each company, there is an acceptable level

1 of risk tolerance between the two. Each  
2 utility must continue to gauge its  
3 customers' tolerance of the cost  
4 associated with hedging versus the  
5 benefits of reduced fuel cost volatility  
6 and any resulting rate increases.

7  
8 Through its initial approval of the proposed resolutions  
9 in 2001 and later, through subsequent orders clarifying  
10 the Commission view on Hedging, the Commission and its  
11 staff have recognized the benefits of financial hedging  
12 and the impact on the utilities' customers. Additionally,  
13 the Commission has carefully monitored and evaluated the  
14 conduct of each IOU's financial hedging activities with  
15 no noted suggestion of imprudence. Tampa Electric will  
16 address any points raised by intervenor witnesses  
17 regarding whether or not financial hedging should  
18 continue in its present form or be modified in future  
19 rebuttal testimony.

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

22  
23 **A.** Yes, it does.  
24  
25

1 **BY MR. BEASLEY:**

2 **Q** Okay. Would you please summarize your direct  
3 testimony?

4 **A** Good morning, Commissioners. My name is James  
5 Brent Caldwell, and I'm the Director of Fuel Planning  
6 and Services for Tampa Electric Company. I have over 15  
7 years of experience in fuel procurement and hedging  
8 activities. I sponsored testimony in these subjects in  
9 which most of the items have been stipulated. I'm here  
10 today to address the remaining hedging issues in this  
11 docket, including approval of Tampa Electric's 2016 Risk  
12 Management Plan.

13 Tampa Electric's Risk Management Plan  
14 describes the company's strategies to mitigate fuel  
15 price volatility using a disciplined, non-speculative  
16 approach that includes financial hedges for natural gas.  
17 These financial hedges are entered solely for the  
18 benefit of customers. This concludes my summary.

19 **MR. BEASLEY:** Thank you. We tender  
20 Mr. Caldwell for cross-examination.

21 **CHAIRMAN GRAHAM:** Thank you.

22 Mr. Caldwell, welcome.

23 **THE WITNESS:** Thank you.

24 **CHAIRMAN GRAHAM:** OPC.

25 **MR. SAYLER:** Thank you, Mr. Chairman.

**EXAMINATION**

**BY MR. SAYLER:**

**Q** Good morning, Mr. Caldwell. How are you today?

**A** Doing well. Thank you.

**Q** All right. From a -- you've heard me ask the other utilities this, so I'm sure you know where I'm going. From 2002 to 2014 your company incurred approximately \$381 million in natural gas hedging costs or losses?

**A** Yes, I agree.

**Q** All right. And for 2015 your company is projected to incur approximately 23 million in natural gas hedging costs or losses?

**A** I think an updated number would be closer to \$40 million, but, yes.

**Q** To 40 million. Okay. And is that actual through September?

**A** That's really actual through October with estimates for November and December.

**Q** Okay. And you would agree that hedging costs or losses are solely borne by the customers; is that correct?

**A** Yes. As is the benefit.

**Q** All right. And without the cost of hedging,

1 customers would have kept approximately a little over  
2 \$400 million in their pockets; is that correct?

3 **A** Yes. But would not have had the protection  
4 from potential price spikes.

5 **Q** Okay. And you would agree that natural gas  
6 market conditions are different in 2015 from the  
7 conditions in 2002; is that correct?

8 **A** Yes. One of the joys of the natural gas  
9 market is the conditions are changing every day.

10 **Q** And you would agree that advances in  
11 recovering gas from shale formations has increased the  
12 supply available -- of available natural gas since 2002?

13 **A** Yes. The natural gas market seems to go in  
14 cycles. You'll get a big production increase, then  
15 demand will come to match that, then a different source  
16 will be found, whether it's LNG, whether it's the deep  
17 water Gulf of Mexico. Supply and demand are always  
18 running to catch up with each other.

19 **Q** All right. But the answer to the question is  
20 has advances in shale gas -- recovering gas from shale  
21 formations increased that supply, and the answer is yes;  
22 correct?

23 **A** Yes.

24 **Q** Okay. And you would agree that shale gas  
25 being introduced in the market has also decreased the

1 price of natural gas since 2002?

2 **A** Increase in supply, reduction in demand. The  
3 current -- the current excess supply has prices  
4 depressed a little bit, yes.

5 **Q** All right. And you would agree that fuel  
6 price volatility is decreasing, say, for the period  
7 1997 to 2015?

8 **A** Overall, yes. It certainly has not been  
9 eliminated.

10 **Q** And you would agree your company does not  
11 estimate or forecast fuel price volatility for the price  
12 of natural gas; is that correct?

13 **A** I agree.

14 **Q** Does your company make any profit or return on  
15 natural gas financial hedging transactions entered into  
16 between the company and its counterparties?

17 **A** We do not.

18 **Q** Does the company have any affiliate  
19 relationships with its financial hedging counterparties?

20 **A** We do not.

21 **Q** With the recent announced sale of Tampa  
22 Electric to -- I can't remember the name of the company  
23 in Canada.

24 **A** Emera.

25 **Q** Yeah, Emera. Has anything changed in that

1 affiliate relationship as is relates to affiliate  
2 relationships related to counterparties?

3 **A** No.

4 **Q** Okay.

5 **A** That deal has not closed.

6 **Q** Okay. But assuming it closes, it wouldn't  
7 cause an affiliate counterparty relationship?

8 **A** Not that I'm aware of.

9 **Q** Okay. And does the company have in place  
10 corporate policies and procedures for its employees,  
11 including officers, to prevent conflicts of interest as  
12 it relates to financial hedging transactions?

13 **A** Yes.

14 **Q** All right. Thank you very much, sir.

15 **CHAIRMAN GRAHAM:** Mr. Wright.

16 **MR. WRIGHT:** No questions, Mr. Chairman.

17 Thank you.

18 **CHAIRMAN GRAHAM:** Mr. Moyle.

19 **MR. MOYLE:** Thank you, Mr. Chairman.

20 **EXAMINATION**

21 **BY MR. MOYLE:**

22 **Q** Mr. Caldwell, tell me what the cons are with  
23 respect to hedging.

24 **A** Well, certainly when the market price closes  
25 below the hedge price, that differential, that



1 opportunity (phonetic) cost, that loss can be viewed as  
2 a con. The reality is it's the offset to the price  
3 of -- the market price of gas, the physical cost went  
4 down compared to what that hedge price was, so  
5 ultimately the combination of the reduced physical cost  
6 plus that loss is actually the price that was agreed to  
7 at the previous time. It's just the fixed cost. So the  
8 loss would be viewed as a con, but the benefit was there  
9 was a known certainty to that price at that time.

10 Other potential cons, there is an  
11 administrative burden for reporting hedges where they're  
12 doing the mark to market, you're doing the extra  
13 transactions for settling them, and all the controls are  
14 in place associated with entering the hedges. So that's  
15 a con as well.

16 Q Okay. Anything else?

17 A Nothing that comes to mind.

18 Q Okay. Then give me the pros.

19 A Well, the primary pro would be uncertainty.  
20 I'm a fuel planner, so having a good plan for what you  
21 need and when you need it is important. Uncertainty  
22 generates costs, unprepared for and uncontrolled costs.

23 Hedging, the pro there is you're set, you know  
24 what your price is going to be some point in the future  
25 and you can plan around that price. You can set your

1 fuel factor appropriately, and that price you're setting  
2 is what the market was at the time that deal was  
3 entered. So the pro is certainly that increased  
4 certainty.

5 Q Did you suggest that uncertainty generates  
6 cost? I didn't -- did you say that?

7 A I did. Uncertainty can generate cost.

8 Q But not necessarily; right?

9 A Not necessarily.

10 Q And with respect to one of the pros, you know,  
11 reducing volatility, you'd agree that that's kind of  
12 what the Commission has said is the chief objective of  
13 hedging; correct?

14 A Yes. And certainly volatility is a form of  
15 uncertainty.

16 Q Right. And let me get away from the energy  
17 field, but, you know, I think the market price,  
18 generally speaking, I could be off a little bit, of a  
19 Honda Odyssey is probably \$35,000 to \$40,000. If I  
20 said, well, I don't know what the sticker price is going  
21 to be, it might go up or down, you know, I want to  
22 execute a hedge for \$80,000 for a Honda Odyssey next  
23 year, as an expert you wouldn't advise that that kind of  
24 hedge be executed, would you, given the price disparity  
25 between what something costs now and what I would be

1 executing a hedge for? You know, that would eliminate  
2 uncertainty and say, hey, I know I can get one of these  
3 for 80 grand next year. You wouldn't advise me to do  
4 that, would you?

5 **A** As you put that scenario together, no.

6 **Q** But doesn't hedging in effect require those  
7 types of analysis or judgments in your opinion?

8 **A** No, I don't believe so.

9 **Q** And that's because your plan -- you hedge  
10 regardless of price, regardless of market price. Your  
11 plan says here's what we do, here's what we go in,  
12 here's how much we buy percentage-wise, timing-wise.  
13 There's no subjectivity in your hedging plan; is that  
14 right?

15 **A** Correct. We are hedging price agnostic.

16 **Q** Are you agnostic to hedging?

17 **A** No. We believe hedging provides benefit to  
18 customers through providing stable prices, more stable,  
19 more certain prices.

20 **Q** Notwithstanding that all the customers are  
21 saying we don't really see much of a benefit given that  
22 we've had, over the life of hedging with Tampa Electric,  
23 281 million in losses?

24 **A** We certainly consider our customers' concerns.  
25 Overall, the way I look at it, those losses, as you

1 refer to them, reflect a decreased price in natural gas.  
2 Customers benefited in the unhedged portion but  
3 benefited in the overall less energy cost.

4 In isolation, the \$381 million, \$400 million  
5 looks bad, but the reduced cost of natural gas is the  
6 overall benefit. And certainly during that time there's  
7 been the protection from the potential for price spikes.

8 Q Yeah. So let's make sure we have our numbers  
9 right. You told Public Counsel that the updated number  
10 for the annual loss was 40 million; is that right?

11 A For 2015 estimate, yes.

12 Q For 2015; right?

13 A Correct.

14 Q Okay. So did you adjust the 381 million to  
15 take into account this 40 million?

16 A I believe the 381 is through 2014. If you add  
17 the 40 million for 2015, that would be about  
18 420 million.

19 Q And so you would agree, just to make sure the  
20 record is clear, since the inception of hedging for  
21 Tampa Electric in a dollars and cents basis the  
22 customers have lost 420 million; is that correct?

23 A The opportunity cost, the reduction, the  
24 hedging loss, yes, is 420 million.

25 Q And do you have a projection as to how

1 customers are going to do in '16?

2 **A** We do a mark to market every month. We close  
3 out at -- I'm not sure exactly what that number is. At  
4 the time of the filing of the Risk Management Plan I  
5 believe it was around \$15 million.

6 **Q** How much?

7 **A** Fifteen.

8 **Q** Fifteen to the good or bad for customers?

9 **A** A loss.

10 **Q** And if the Commission said, you know, we've  
11 kind of heard a lot about hedging and we don't want it  
12 to continue, that 15 million is kind of locked in. I  
13 mean, they couldn't take action that would affect that  
14 one way or the other for '16?

15 **A** Well, '15 is not locked in at all. That's the  
16 current mark-to-market estimate. If prices go up, some  
17 sort of event, extreme weather, geopolitical turmoil,  
18 some sort of regulation on fracking, that loss, that  
19 mark to market could certainly become a gain.

20 **Q** Okay. And the events you identified are all  
21 pretty significant events; correct?

22 **A** They are.

23 **Q** Yeah.

24 **A** But certainly not uncommon events.

25 **Q** So a couple of questions about unwinding. You

1 know, if the Commission said we're going to discontinue  
2 the hedging practice -- if you go buy a hedge today and  
3 you pay \$100 for it and then the Commission today  
4 verbally said we don't want to do this anymore, please  
5 take action to unwind, that hedge would still have value  
6 tomorrow in the market presumably; right?

7 **A** It depends on how the market moved from the  
8 time you executed the hedge and the point where you  
9 unwind it.

10 **Q** Right. So but in a day, I mean, what do you  
11 typically see the market move in a day? Pennies?

12 **A** Are we talking natural gas pricing?

13 **Q** Yes. Yes, sir.

14 **A** Natural gas pricing can easily move 25, 50  
15 cents in a day. And at a \$2 price, that's the  
16 neighborhood of, what, 10, 20, 20 percent. So, I mean,  
17 on a day-to-day basis natural gas prices can move a lot.

18 **Q** Right. Okay. But, again, I just want to  
19 understand, you know, even in a worst-case scenario,  
20 20 percent, you bought it for 100 then you sell it for  
21 80, it would still have some value.

22 **A** Yes. You'd still have the market value, but  
23 you would effectively lock in that \$20 loss that you're  
24 alluding to, and you've given up the protection that  
25 prices could go above 100.

1           **Q**     Sure.  And it could go the other way too;  
2 right?  I mean, the 20 percent change could go higher or  
3 lower.  It's just you don't know what the market is  
4 going to do.

5           **A**     Agreed.

6           **Q**     All right.  And if an unwinding were to take  
7 place and you were going to give a recommendation, a  
8 hedging policy recommendation to this Commission,  
9 wouldn't you recommend that the unwind period not be  
10 January 1 and have one day where everybody is putting  
11 hedges into the market, but that you all use business  
12 judgment over a year or 18-month time period to unwind  
13 your hedges over time and in smaller increments?

14          **A**     I very much agree with you would not want to  
15 unwind everything at one time as the previous witness  
16 alluded to.  That much selling into the market could  
17 certainly deflate the price.

18                   In terms of how best to unwind, obviously we  
19 would follow the Commission's direction on that, but I  
20 do believe allowing the hedges to expire naturally would  
21 be the best way to balance the protection of customers  
22 from price spikes and letting the existing policies run  
23 their course.

24          **Q**     How long in the future do y'all hedge?

25          **A**     Twenty-four months.

1 Q Do you hedge coal?

2 A We buy coal at fixed prices, but we do not do  
3 financial transactions to hedge the price of coal.

4 Q What percent of your generation fleet is coal?

5 A It varies year to year, between 40 and  
6 60 percent. Sometimes gas is more, sometimes coal is  
7 more.

8 Q So you have two supply -- what is natural gas?  
9 What percentage is that?

10 A What percentage is natural gas of our  
11 generation?

12 Q Yes, sir.

13 A Approximately 50 percent.

14 Q Fifty? So is it fair to say roughly coal is  
15 approximately half and natural gas is approximately  
16 half?

17 A Correct. Yes.

18 Q No financial hedges on coal but financial  
19 hedges on natural gas?

20 A Correct. I mean, fixed price --

21 Q Coal markets move as well; correct?

22 A They do.

23 Q Yeah. Okay. With respect, and I asked other  
24 utility witnesses this question in terms of measuring  
25 whether the objective of reducing volatility has been



1 successful, do you have a way in which you judge whether  
2 reducing volatility, you know, has been successful or  
3 not?

4 **A** Yes. There's kind of two pieces there. The  
5 first is we've designed a plan that by locking in known  
6 prices a little bit at a time spread out over a period,  
7 by definition that's going to reduce volatility.

8 And then the second way is we do  
9 periodically -- as we're preparing for the next filings,  
10 we are monitoring the standard deviation and observing  
11 that that -- that the hedge prices are -- have a lower  
12 standard deviation than the market prices.

13 **Q** What does that mean? Tell me about the  
14 standard deviation. From my perspective, I'll tell you  
15 I understand, like, the dollars and cents a lot better  
16 than I do standard deviation, but that may be just my  
17 educational background. So if you would explain that to  
18 me, please.

19 **A** Sure. Standard deviation is kind of a measure  
20 of the spread of a distribution, a collection of values,  
21 and the greater the standard deviation, the wider that  
22 spread is relative to the average, the mean. So a  
23 smaller standard deviation means less variation.

24 **Q** Okay. And have you done any analysis that --  
25 I mean, I think we understand the dollar analysis, that

1 if you measure the success of hedging on a dollar  
2 analysis, there's been, you would agree, significant  
3 losses to the customers associated with Tampa Electric's  
4 hedging program since inception; correct?

5 **A** A lot of costs offset by the benefit of  
6 protection from price spikes and volatility.

7 **Q** Right. But the 400 million, you're not  
8 contending that's an insignificant sum of money.

9 **A** No, I'm not.

10 **Q** Yeah. It is a significant sum of money;  
11 correct?

12 **A** Sure. Relative to a lot of money for fuel  
13 costs over that time.

14 **Q** Do you know what percent that would be?

15 **A** I believe it's right about 4 percent. So  
16 about \$10 billion in fuel and purchased power costs over  
17 that same time period.

18 **Q** Does Peoples Gas hedge?

19 **A** Yes.

20 **Q** Do you -- have you looked at their hedging  
21 plan as compared to yours?

22 **A** I have.

23 **Q** Do they hedge more or less?

24 **A** I believe the plan is virtually identical.

25 **Q** And they're 100 percent gas; right?

1           **A**     Yes.

2           **Q**     Would that suggest maybe you're over hedged?  
3     I mean, if their whole fuel source is gas and they hedge  
4     the same as you do and you have 50 percent gas and you  
5     hedge the same amount, could somebody say, well, wait a  
6     minute, you guys are hedging too much?

7           **A**     I don't see that connection. We use the -- we  
8     use the same percentage bounds, minimum and maximum,  
9     relative to the expected gas consumption.

10          **Q**     Can you tell me what those are, the minimum  
11     and max?

12          **A**     I believe those are confidential.

13          **Q**     Are you comfortable telling me whether the  
14     60 percent number that Duke used, whether your range --  
15     that would be within your range?

16          **A**     It's in the ball park, yes.

17          **Q**     Okay. Just a few more questions, if I could.  
18                 You agree that renewable energy is also -- can  
19     be viewed as a hedge; correct?

20          **A**     It can be, yes.

21          **Q**     And you all have announced some renewable  
22     energy projects; correct?

23          **A**     We have.

24          **Q**     Have you factored that in into making any  
25     adjustments to your hedging plan?

1           **A**     To the extent that the renewable energy would  
2 reduce the natural gas consumption, then the amount  
3 would be the same percentage, but the absolute quantity  
4 of natural gas hedged would decrease.

5           **Q**     Because it would reduce your generation mix?

6           **A**     Correct.

7           **Q**     And when's the last time you made a change to  
8 your hedging plan?

9           **A**     I don't remember precisely, but I do believe  
10 it was between 2008 when there was the big PSC audit on  
11 hedging, the big review, and then before the  
12 2011 hedging review associated with FPL's VMM filing,  
13 and it was in that time frame.

14          **Q**     Do you remember what the change was?

15          **A**     I do. We went from an 18-month hedge plan to  
16 24-month.

17          **Q**     Do you know why you made that change?

18          **A**     The intent to provide a little more stability,  
19 a little more certainty in pricing. When you're filing  
20 your plan in September, the 24 months helps cover the  
21 period roughly that you're planning around.

22          **Q**     Is it more expensive, all other things being  
23 equal, to buy a hedge further out in time?

24          **A**     Not necessarily. We're buying swaps. And  
25 ultimately what a swap is, there's someone that's

1 selling natural gas out there and there's someone that's  
2 buying natural gas, and it's the price that both of them  
3 are willing to trade at that future date.

4 Q You're aware that other commissions around the  
5 country are looking at hedging as we speak?

6 A Yes.

7 Q Okay. And you're aware that some commissions  
8 have discontinued hedging?

9 A I've heard that, yes.

10 Q And you're aware -- do you have any personal  
11 knowledge about the Georgia commission and how the staff  
12 is involved in the hedging operations in Georgia?

13 A Not at all.

14 Q Other than what you just heard from the  
15 previous witness?

16 A Right.

17 Q And you rely on others to make forecasts for  
18 gas prices in the future; right? You're not putting  
19 together your own gas forecast.

20 A Ultimately my area does prepare the long-term  
21 natural gas price forecast, but we base it on publicly  
22 available industry standard forecasts.

23 **MR. MOYLE:** Thank you. That's all I have.

24 **CHAIRMAN GRAHAM:** Staff?

25 **EXAMINATION**

1 **BY MS. BROWNLESS:**

2 Q I just have one question, sir. With regard to  
3 if the Commission should determine that hedging should  
4 be stopped, is it your opinion that trying to sell the  
5 hedges that you have currently in place is a less  
6 desirable option than letting them automatically work  
7 out?

8 A Yes.

9 Q And is that because if you sell them, you may  
10 or may not realize a profit on that hedge, but if you  
11 let them work out, the customers may get the benefit of  
12 a higher spot price when the hedge settles than -- in  
13 other words, the customers have the potential to get a  
14 benefit if you keep the hedge. They have no potential  
15 to get a benefit if you sell it.

16 A Yes, I would agree with that.

17 Q Thank you.

18 A The additional piece is if everyone in Florida  
19 is unwinding hedges at the same time, you've got some  
20 financial impact to the market. Prices would go down  
21 and you would actually recover less value than the  
22 hedges might be worth otherwise.

23 **MS. BROWNLESS:** Thank you so much.

24 **CHAIRMAN GRAHAM:** Commissioners?

25 Commissioner Brisé.

1                   **COMMISSIONER BRISÉ:** Thank you. Just to be  
2 fair to you, we have a framework over the past 12 years  
3 or so of how the hedge program has impacted consumers  
4 or customers by helping them ride the waves of  
5 tremendous cost swings in the natural gas market. What  
6 information can you provide to give me a clear picture  
7 of how customers would have been impacted if hedging  
8 was not permitted, specifically after the spikes in  
9 costs between 2004 and 2008, and then contrast that to  
10 2009 to 2014? And if you can be as specific as  
11 possible in terms of impact to consumers, that would be  
12 helpful.

13                   **THE WITNESS:** I don't have any numbers and  
14 calculations to back this up, but no doubt 2004 through  
15 2008 there were very significant price spikes, 2008  
16 being one that comes very much to mind.

17                   We did not file a midcourse correction in  
18 2008, and I believe a big portion of that was  
19 because we had hedges in place. My suspicion is if  
20 we had filed a midcourse correction, if customers  
21 had seen that spike, there would be more calls to  
22 our call center, more calls to Public Counsel, more  
23 calls to the Commission in the 2004 to 2008 time  
24 frame. That's where gas is moving from, let's say,  
25 a \$6 base and spiked up to 14, 15, I've seen 18 and

1 so on, so that was a roughly doubling.

2 Since 2008, prices certainly have come  
3 down. The significant economic impact of 2007,  
4 2008, 2009 reduced demand. At the same time we had  
5 significant growth in supply, so an unusually large  
6 abundance of natural gas in the last couple of  
7 years.

8 Personally I'm hoping that continues.  
9 It's good for consumers to have abundant natural  
10 gas. But the possibility of prices being, say,  
11 2.50, I heard that number used as the 2015 strip  
12 (phonetic), the chance of prices going to \$5 seems  
13 very reasonable. When you look back, it was \$5 not  
14 very long ago. Could it go to 7.50? That's very  
15 possible as well. So, you know, you get a 2.50 move  
16 and the price will double. So, like, we set our  
17 fuel factor on 2.50 next year, well, then it goes to  
18 \$5, a 2.50 jump, not small. Small compared to 2008  
19 but big in terms of customer impact. It's going to  
20 double the cost of gas in the fuel clause.

21 So, you know, bottom line, we've enjoyed  
22 lower prices for the last couple years with this  
23 abundant shale gas, and I'm hoping that continues,  
24 but I still believe there is significant risk to the  
25 upside in prices going forward.



1                   **COMMISSIONER BRISÉ:** Thank you.

2                   **CHAIRMAN GRAHAM:** Mr. Caldwell, I have a  
3 question for you. In your summary, you said that  
4 hedging is solely for the benefit of the consumer. So  
5 you're saying that the utility gets absolutely zero  
6 benefit from hedging.

7                   **THE WITNESS:** Zero is probably not the right  
8 term. I believe providing customers protection from  
9 potential spikes in natural gas is a benefit to  
10 customers, and the utility gets the associated benefit  
11 of customers not calling to complain about I can't pay  
12 for my bill. So there is a benefit to the utility.

13                   There's also an awful lot of potential  
14 risk. When there are losses everyone wants to know  
15 why. When there are gains maybe you don't hear as  
16 much.

17                   And there are administrative costs. I  
18 mean, there's plenty of reports, plenty of financial  
19 analysis, accounting that's done to make sure the  
20 hedges are within the Risk Management Plan and to  
21 make sure that they're settled accurately. So, I  
22 mean, there is an administrative cost that the  
23 utility bears. But overall the benefit to hedging  
24 is stable prices for customers.

25                   **CHAIRMAN GRAHAM:** But the certainty that you

1 spoke of earlier, there's no benefit to certainty for  
2 the utility?

3 **THE WITNESS:** To the extent that we forecast  
4 the fuel factor for next year and the value is set at  
5 that and then the costs come in in line with that  
6 level, meaning generation matched, fuel cost matched,  
7 load was the same, everyone benefits. You have small  
8 under-recoveries or small over-recoveries, you're not  
9 having to do midcourse corrections, you're not having  
10 to carry that cost. When you have your revenue  
11 matching your costs, that is kind of the best for the  
12 utility, no doubt about it.

13 **CHAIRMAN GRAHAM:** So basically there's no  
14 financial benefit to the utilities over-hedging, but  
15 there is side benefits or tangential benefits that come  
16 because of hedging.

17 **THE WITNESS:** I agree.

18 **CHAIRMAN GRAHAM:** Okay. Commissioner Brisé.

19 **COMMISSIONER BRISÉ:** So just to follow up on  
20 Chairman Graham's question, so if there are no  
21 financial benefits to the utilities with the hedging  
22 program and the consumers are saying, look, get rid of  
23 the program, what's the interest that the utilities  
24 have in ensuring that from a policy perspective that  
25 hedging continues to exist?

1           **THE WITNESS:** Well, it gets back to that kind  
2 of scenario I alluded to. Certainly when prices have  
3 spiked and the utilities have come in for large  
4 under-recoveries, it's a combination of customers  
5 calling because they can't pay their bill, customers  
6 calling and complaining about the big jump in the fuel  
7 factor -- it really is that -- and it's sometimes what  
8 we use, but it is that premium, that protection  
9 insurance payment, and the utility does get that  
10 benefit of knowing customers aren't going to have to  
11 experience those significant price spikes.

12           Customers, utilities have had the benefit  
13 of the last several years of those price spikes have  
14 not materialized significantly other than '14. But  
15 we do believe there's risk still out there, and  
16 providing that protection for customers is a  
17 tangential benefit.

18           **CHAIRMAN GRAHAM:** Redirect?

19           **MR. BEASLEY:** Mr. Chairman, we have no  
20 redirect. I would ask that Mr. Caldwell be excused  
21 until he comes up again.

22           **CHAIRMAN GRAHAM:** Okay.

23           **MR. BEASLEY:** Move Exhibits 50, 51, 52.

24           **CHAIRMAN GRAHAM:** 50, 51, and 52?

25           **MR. BEASLEY:** Yes, sir.

1                   **CHAIRMAN GRAHAM:** Okay. OPC.

2                   **MR. SAYLER:** Public Counsel would like to  
3 move Exhibit 118, which is a collection of  
4 interrogatory responses. And we had asked a similar  
5 question on interrogatory No. 31 to your question,  
6 Chairman Graham.

7                   **CHAIRMAN GRAHAM:** Okay. Any other exhibits?  
8                   (Exhibits 50, 51, 52, and 118 admitted  
9 into the record.)

10                   All right. Mr. Caldwell, thank you very  
11 much for your testimony today.

12                   OPC, I think it's time for your first  
13 witness.

14                   **MR. SAYLER:** Yes, sir. Mr. Chairman, Office  
15 of Public Counsel would like to invite Mr. Tarik  
16 Noriega to the stand.  
17 Whereupon,

18   **TARIK NORIEGA**  
19 was called as a witness on behalf of the Citizens of the  
20 State of Florida and, having been duly sworn, testified  
21 as follows:

22   **EXAMINATION**

23 **BY MR. SAYLER:**

24                   **Q** Mr. Noriega, you were here yesterday when all  
25 the witnesses were sworn; is that correct?

1           **A**     Yes, it is.

2           **Q**     Would you please state your name and business  
3 address for the record?

4           **A**     My name is Tarik Noriega. My business address  
5 is 111 West Madison Street, Suite 812, Tallahassee,  
6 Florida 32399.

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

8           **A**     I'm employed by the Office of Public Counsel,  
9 OPC, as a Legislative Analyst.

10          **Q**     Okay. And you did prepare and submit direct  
11 testimony in this proceeding?

12          **A**     Yes, I did.

13          **Q**     And do you have that testimony before you?

14          **A**     Yes, I do.

15          **Q**     And do you have any corrections or revisions  
16 to make to your prefiled direct testimony?

17          **A**     Yes. Thank you. I have one correction.

18          **Q**     Would you please share that with the  
19 Commission today?

20          **A**     On page 14, line 4, the figure should be  
21 \$5,231,155,391. That is \$5,231,155,391. This change  
22 matches the total listed in the second column of Table  
23 1 on page 15 of my testimony.

24          **Q**     All right. And as modified and corrected, do  
25 you adopt your prefiled testimony as your testimony

1 today?

2 **A** Yes, I do.

3 **Q** And for this proceeding you are being offered  
4 as a fact witness; is that correct?

5 **A** Yes, that is correct.

6 **Q** And your testimony is based upon the best  
7 factual information available at the time you filed your  
8 testimony; is that correct?

9 **A** Yes, it is.

10 **Q** And has new updated factual information become  
11 available since the filing of your testimony?

12 **A** Yes, it has.

13 **Q** All right. And you will address that briefly  
14 in your summary; is that correct?

15 **A** Yes, it is.

16 **MR. SAYLER:** All right. Mr. Chairman, I  
17 would ask that the prefiled testimony of Mr. Noriega be  
18 inserted into the record as though read.

19 **CHAIRMAN GRAHAM:** We will insert  
20 Mr. Noriega's prefiled direct testimony with the one  
21 correction into the record as though read.

22 **BY MR. SAYLER:**

23 **Q** Thank you. And did you prepare three exhibits  
24 for your direct testimony, TN-1, 2, and 3?

25 **A** Yes, I did.

1                   **MR. SAYLER:** The witness has three exhibits,  
2 and for the record those have been assigned hearing  
3 Exhibit Nos. 53, 54, and 55 in the Comprehensive  
4 Exhibit List.

5                   **CHAIRMAN GRAHAM:** Duly noted.  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

**DIRECT TESTIMONY****OF****TARIK NORIEGA**

On Behalf of the Office of Public Counsel

Before the

Florida Public Service Commission

Docket No. 150001-EI

1 **I. EDUCATIONAL BACKGROUND AND EXPERIENCE**2 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**3 **A.** My name is Tarik Noriega. My business address is 111 W. Madison St., Suite 812,  
4 Tallahassee, FL 32399-1300.  
56 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**7 **A.** I am employed by the Office of Public Counsel ("OPC") as a Legislative Analyst.  
89 **Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND.**10 **A.** I graduated from the University of Central Florida with a Bachelor of Arts ("B.A.")  
11 degree in Economics in 1992. I earned a Master of Arts in Applied Economics  
12 ("M.A.A.E.") degree from the University of Central Florida in 1994.  
1314 **Q. PLEASE DESCRIBE YOUR WORK EXPERIENCE.**15 **A.** In 1996, I began employment as a Regulatory Analyst with the Forecasting Section of



1 the Florida Public Service Commission (“PSC” or “Commission”), where I was  
2 responsible for evaluating electric utility load forecasts and reporting findings and  
3 conclusions during electric utility ten-year site plan reviews and power plant need  
4 determination proceedings. I also participated in several audits, designed consumer  
5 surveys, developed policy analysis projects, made presentations to the Commissioners,  
6 represented the agency in federal proceedings, and served as a bilingual (Spanish  
7 language) media liaison.

8

9 In 2005, I was hired as an Economist by the Florida House of Representatives, where I  
10 prepared bill analyses, tracked revenues and the fiscal impacts of legislation,  
11 participated in the Revenue Estimating Conference (“REC”) process, analyzed  
12 economic trends, reviewed all relevant economic forecasts, and was a lead analyst in  
13 addressing emergency management, property tax, and local tax issues. In addition, I  
14 worked in the appropriations process and made recommendations regarding the PSC’s  
15 budget.

16

17 In 2011, I began employment as a Research Economist in the Office of Tax Research  
18 at the Florida Department of Revenue, where I was the lead analyst in developing state  
19 documentary stamp tax and intangibles tax forecasts for the REC. I also prepared fiscal  
20 impacts for the REC and assisted in the development of the state’s ad valorem tax  
21 forecast.

1 Since 2012, I have been working primarily as an Economist for OPC, where I provide  
2 technical support in rate cases and other docketed and undocketed matters before the  
3 PSC on behalf of Florida's utility customers.

4

5 **Q. HAVE YOU PREVIOUSLY FILED TESTIMONY IN PROCEEDINGS**  
6 **BEFORE THE COMMISSION?**

7 **A.** No, I have not.

8

9 **II. TESTIMONY OVERVIEW**

10 **Q. ON WHOSE BEHALF ARE YOU FILING TESTIMONY IN THIS**  
11 **PROCEEDING?**

12 **A.** I am testifying on behalf of OPC and the customers served by the four largest Florida  
13 investor-owned electric utilities ("IOUs" or "Companies").

14

15 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

16 **A.** The purpose of my testimony in this proceeding is to provide factual testimony related  
17 to the history of the fuel clause, mid-course corrections, and hedging. I also provide  
18 the results of the IOU hedging programs since 2002. Another OPC witness, Mr. Daniel  
19 J. Lawton, addresses some of the economic and regulatory policy issues surrounding  
20 the Companies' proposals to continue their natural gas financial hedging programs, as  
21 described in their 2016 Risk Management Plans. In addition, Mr. Lawton's testimony  
22 addresses the potential impacts of the Companies' hedging proposals on consumers, if  
23 approved by the Commission.

1 **Q. WHAT MATERIALS DID YOU REVIEW AND RELY UPON FOR YOUR**  
2 **TESTIMONY?**

3 **A.** As part of this year's Fuel and Purchased Power Cost Recovery Clause with Generating  
4 Performance Incentive Factor Docket ("Fuel Adjustment Clause" or "Fuel Docket"), I  
5 have reviewed past hedging true-up filings with the PSC in the Fuel Adjustment Clause  
6 by Duke Energy Florida ("Duke"), Florida Power & Light Company ("FPL"), Gulf  
7 Power Company ("Gulf"), and Tampa Electric Company ("TECO"), as well as these  
8 Companies' discovery responses related to hedging. I did not review any discovery  
9 responses or past hedging filings by Florida Public Utilities Company ("FPUC")  
10 because that utility does not hedge natural gas. I also reviewed prior Commission Fuel  
11 Adjustment Clause orders and hedging orders, and other information available in the  
12 public domain. When relying on various sources, I have referenced such sources in my  
13 testimony and/or attached these sources as Exhibits.

14  
15 **Q. WHAT IS THE PERIOD THAT YOU REVIEWED IN EVALUATING THE**  
16 **COMPANIES' NATURAL GAS HEDGING FILINGS?**

17 **A.** I reviewed data for calendar years 2002 to 2014 and the 2015 projected data.

18  
19 **Q. DO YOU SPONSOR ANY EXHIBITS IN SUPPORT OF YOUR TESTIMONY?**

20 **A.** Yes, I am sponsoring three Exhibits. Exhibit No. \_\_\_\_ (TN-1) includes my résumé.  
21 Exhibit No. \_\_\_\_ (TN-2), titled "IOU Natural Gas Hedging True-up Filings with the  
22 PSC", provides excerpts of the Companies' 2002-2014 natural gas hedging true-up  
23 filings. Exhibit No. \_\_\_\_ (TN-3), titled "IOU Natural Gas Hedging Results as Reported

1 in Discovery”, provides the Companies’ responses to OPC’s discovery regarding  
2 natural gas hedging gains/losses for 2002-2014 and the 2015 projected gains/losses.

3

4 **Q. HOW IS YOUR TESTIMONY ORGANIZED?**

5 **A.** In Section III of my testimony, I address the history of the Fuel Adjustment Clause in  
6 Florida, including a brief overview of mid-course corrections.

7

8 Section IV provides a general overview of fuel price hedging and the PSC’s 2002 and  
9 2008 Hedging Orders.

10

11 Section V addresses my observations regarding the IOUs’ natural gas hedging gains  
12 and losses since 2002.

13

14 Section VI provides my conclusion.

15

16 **III. FUEL ADJUSTMENT CLAUSE BACKGROUND**

17 **Q. WHAT IS THE FUEL ADJUSTMENT CLAUSE?**

18 **A.** The Fuel Adjustment Clause is a mechanism used by the Commission that allows the  
19 IOUs to recover “[p]rudently incurred fossil fuel-related expenses...”<sup>1</sup>

---

<sup>1</sup> Order No. 14546, issued July 8, 1985, in Docket No. 850001-EI-B, In re: Cost Recovery Methods for Fuel-Related Expenses, p. 2.

1 The origin, purpose, and history of the Fuel Adjustment Clause are thoroughly  
 2 discussed in two Commission orders: Order No. 6357, issued November 26, 1974, in  
 3 Docket No. 74680-CI, In re: General Investigation of Fuel Adjustment Clauses of  
 4 Electric Companies, and Order No. PSC-11-0080-PAA-EI, issued January 31, 2011, in  
 5 Docket No. 100404-EI, In re: Petition by Florida Power & Light Company to Recover  
 6 Scherer Unit 4 Turbine Upgrade Costs Through Environmental Cost Recovery Clause  
 7 or Fuel Cost Recovery Clause. Order No. 11-0080 summarized the Fuel Adjustment  
 8 Clause as follows:

9 The fuel [adjustment] clause is a regulatory tool designed to pass  
 10 through to utility customers the costs associated with fuel purchases.  
 11 The purpose is to prevent regulatory lag, which occurs when a utility  
 12 incurs expenses but is not allowed to collect offsetting revenues until  
 13 the regulatory body approves cost recovery. Regulatory lag has  
 14 historically been a problem for utilities because of the volatility of fuel  
 15 costs. ... Different states have addressed volatile fuel costs and the  
 16 problem of regulatory lag in differing ways. Several jurisdictions, like  
 17 Florida, have allowed recovery of fuel costs in a fuel adjustment clause,  
 18 and in Florida the implementation of the fuel clause has changed and  
 19 developed over the years.<sup>2</sup>  
 20

21 **Q. ARE UTILITIES ALLOWED TO PROFIT ON THE FUEL COSTS**  
 22 **RECOVERED THROUGH THE FUEL ADJUSTMENT CLAUSE?**

23 **A.** No. As recognized in Order No. 6357, issued in 1974, “[i]t should be emphasized that  
 24 a utility does not make a profit on its fuel costs.”<sup>3</sup>

---

<sup>2</sup> Order No. PSC-11-0080-PAA-EI, issued January 31, 2011, in Docket No. 100404-EI, In re: Petition by Florida Power & Light Company to Recover Scherer Unit 4 Turbine Upgrade Costs Through Environmental Cost Recovery Clause or Fuel Cost Recovery Clause, p. 6. See also footnote No. 15 of this Order for an additional description of the purpose of the Fuel Adjustment Clause, p. 8.

<sup>3</sup> Order No. 6357, issued November 26, 1974, in Docket No. 74680-CI, In re: General Investigation of Fuel Adjustment Clauses of Electric Companies, p. 2.

1 Q. WHEN DID THE COMMISSION BEGIN AUTHORIZING FUEL COST  
2 RECOVERY?

3 A. The practice of allowing cost recovery through a fuel adjustment mechanism began in  
4 the mid-1920s, predating the Commission’s jurisdiction over regulated electric utilities,  
5 and has evolved over the past 90 years.<sup>4</sup>

6  
7 Q. PLEASE DESCRIBE THE EVOLUTION OF THE FUEL COST RECOVERY  
8 PROCESS OVER TIME.

9 A. Utilities benefited from a monthly fuel adjustment mechanism from 1925 to 1951, prior  
10 to the PSC’s oversight of regulated electric utilities. After the Legislature granted the  
11 Commission jurisdiction over regulated electric utilities in 1951, the utilities applied a  
12 Commission-approved formula and placed the resulting fuel charge on customers’  
13 bills. The Commission staff performed some auditing functions; however, no formal  
14 public hearing was held.<sup>5</sup>

15  
16 That fuel adjustment mechanism changed in 1974 when customers became increasingly  
17 concerned over increased fuel charges as a result of the Organization of Petroleum  
18 Exporting Countries’ (“OPEC’s”) oil embargo, which substantially increased the cost  
19 of oil.<sup>6</sup> Following an Attorney General Opinion which stated “that the practice of  
20 allowing changes in the fuel adjustment charges without a public hearing was illegal

---

<sup>4</sup> See Order No. 6357 at 2; see also Order No. PSC-11-0080-PAA-EI at 6.

<sup>5</sup> Order No. PSC-11-0080-PAA-EI at 6.

<sup>6</sup> Id.; see also Order No. 6357 at 1.

1 under Florida law...” (See 74 Op. Att’y. Gen. Fla. 309 (1974)), the Commission held  
2 its first fuel adjustment clause hearing.<sup>7</sup> At this hearing, a stipulation was approved  
3 that provided for a monthly hearing for all fuel adjustment clauses.<sup>8</sup> During the same  
4 1974 proceeding, the Commission considered a recommendation on how to modify the  
5 clause and, as an incentive for utilities to optimize fuel costs, implemented a two-month  
6 lag between the filing for fuel clause recovery and the Commission’s decision on cost  
7 recovery.<sup>9</sup>

8  
9 However, because the amount of work involved in reviewing the information and the  
10 resulting lag time presented difficulties for the Commission, the utilities, customers,  
11 and intervenor parties alike, the Commission modified the clause once again in 1980.<sup>10</sup>  
12 By Order No. 9273, the Commission modified the recovery clauses to allow recovery  
13 on the projections of future fuel and fuel-related expenditures subject to a true-up  
14 hearing, during which the utilities’ projected fuel expenditures were adjusted to recover  
15 only actual expenditures.<sup>11</sup>

---

<sup>7</sup> Order No. PSC-11-0080-PAA-EI at 6.

<sup>8</sup> Id.

<sup>9</sup> Id.

<sup>10</sup> Order No. 9273, issued March 7, 1980, in Docket No. 74680-CI, In re: General Investigation of Fuel Cost Recovery Clause. Consideration of Staff’s Proposed Projected Fuel and Purchased Power Cost Recovery Clause with an Incentive Factor.

<sup>11</sup> Id.; *see also* Order No. 9451, issued July 15, 1980, in Docket No. 800119-EU, In re: Petition of Florida Power Corporation for Authority to Increase Its Retail Rates and Charges, p. 2.

1 By this Order, the PSC also modified its fuel adjustment hearings by changing the  
 2 hearing schedule from once a month to every six months. In justifying its rationale,  
 3 the Commission stated “there are certain advantages to adoption of the six month  
 4 projection (sic) period, such as overcoming the seasonal peaks and valleys which  
 5 would otherwise offset (sic) the attempt to arrive at a levelized charge. We therefore  
 6 find that a six month projection period should be used.”<sup>12</sup> Once adopted, these semi-  
 7 annual fuel adjustment hearings were held until 1998 when the PSC changed the  
 8 frequency and timing of cost recovery hearings from semi-annual to annual.<sup>13</sup>

9  
 10 **Q. WHY DID THE COMMISSION CHANGE THE FREQUENCY OF COST**  
 11 **RECOVERY HEARINGS FROM SEMI-ANNUAL TO ANNUAL?**

12 **A.** On March 17, 1998, the PSC held a workshop to receive comments from the IOUs and  
 13 other interested parties regarding proposed changes to the frequency and timing of the  
 14 four cost recovery clauses.<sup>14</sup> On May 19, 1998, the Commission issued Order No. PSC-  
 15 98-0691-FOF-PU, which changed the frequency of fuel adjustment hearings from  
 16 semi-annual to its current annual schedule. In this Order, the PSC found “that all  
 17 components of the fuel clause for all investor-owned electric utilities should be  
 18 prospectively calculated and set on a twelve-month projected basis at annual

---

<sup>12</sup> See Order No. 9273 at 6.

<sup>13</sup> Order No. PSC-98-0691-FOF-PU, issued May 19, 1998, in Docket No. 980269-PU, In re: Consideration of Change in Frequency and Timing of Hearings for Fuel and Purchased Power Cost Recovery Clause, Capacity Cost Recovery Clause, Generating Performance Incentive Factor, Energy Conservation Cost Recovery Clause, Purchased Gas Adjustment (PGA) True-up, and Environmental Cost Recovery Clause, p. 13.

<sup>14</sup> *Id.*, p. 2.



1 hearings.”<sup>15</sup> Also, the Commission stated that this change was “in the public interest”  
 2 for the following reasons: (1) an annual fuel hearing will reduce the number of hearings  
 3 days per year reserved for the fuel clause; (2) mid-course corrections may occur less  
 4 frequently; and (3) an annual factor will provide customers with more certain and stable  
 5 prices. When discussing that mid-course corrections may occur less frequently as a  
 6 result of annual Fuel Adjustment Clause proceedings, the Commission stated that “fuel  
 7 prices are currently less volatile and a higher probability exists that monthly over-  
 8 recoveries and under-recoveries will be offset between annual fuel clause hearings.  
 9 Hence, midcourse (sic) corrections may occur less frequently than previously  
 10 surmised.”<sup>16</sup>

11

12 **Q. WHAT IS A MID-COURSE CORRECTION?**

13 **A.** A mid-course correction is a mechanism set forth by a Commission rule adopted in  
 14 2010.<sup>17</sup> This rule requires utilities to seek a mid-course correction if there is a 10% or  
 15 greater over/under-recovery in fuel cost recovery or capacity cost recovery factors, or  
 16 to explain why a mid-course correction is not practical. However, the utilities can also  
 17 request a mid-course correction without reaching the 10% threshold requiring  
 18 Commission notification.<sup>18</sup>

---

<sup>15</sup> Id., p. 4.

<sup>16</sup> Id.

<sup>17</sup> Rule 25-6.0424, Florida Administrative Code.

<sup>18</sup> Id.

1 **Q. HOW MANY MID-COURSE CORRECTIONS DID THE COMPANIES**  
 2 **REQUEST DURING YOUR REVIEW PERIOD (2002 TO 2014)?**

3 **A.** The IOUs requested 15 mid-course corrections from 2002 to 2014. According to their  
 4 responses to OPC's discovery, FPL filed 6 mid-course corrections (3 for over-  
 5 recoveries and 3 for under-recoveries), Gulf filed 3 (2 for over-recoveries and 1 for an  
 6 under-recovery), and TECO filed 2 (1 for an over-recovery and 1 for an under-  
 7 recovery).<sup>19</sup> According to its Commission Fuel Docket filings, Duke requested 4 mid-  
 8 course corrections (2 for over-recoveries and 2 for under-recoveries).<sup>20</sup>

9  
 10 **IV. FUEL PRICE HEDGING**

11 **Q. HAS THE COMMISSION INDICATED ITS INTENT FOR DEVELOPING A**  
 12 **HEDGING PROGRAM IN FLORIDA?**

13 **A.** Yes. In Order No. PSC-02-1484-FOF-EI (the "2002 Hedging Order"), issued October  
 14 30, 2002, the Commission stated that:

15 The Proposed Resolution of Issues establishes a framework and  
 16 direction for the Commission and the parties to follow with respect to  
 17 risk management for fuel procurement. It provides for the filing of  
 18 information in the form of risk management plans and as part of each  
 19 IOU's final true-up filing in the fuel and purchased power cost recovery  
 20 docket, which will allow the Commission and the parties to monitor  
 21 each IOU's practices and transactions in this area. In addition, it

<sup>19</sup> See FPL's response to OPC Interrogatory No. 30; Gulf's response to OPC Interrogatory No. 6; and TECO's response to OPC Interrogatory No. 6.

<sup>20</sup> See Order No. PSC-02-0655-AS-EI, issued May 14, 2002, in Docket Nos. 000824-EI and 020001-EI, In re: Review of Florida Power Corporation's Earnings, Including Effects of Proposed Acquisition of Florida Power Corporation by Carolina Power & Light; Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor. See Order No. PSC-03-0382-PCO-EI, issued March 19, 2003, in Docket No. 030001-EI, In re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor. See Order No. PSC-08-0495-PCO-EI, issued August 5, 2008, in Docket No. 080001-EI, In re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor. See Order No. PSC-10-0738-FOF-EI, issued December 20, 2010, in Docket No. 100001-EI, In re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor.

1 maintains flexibility for each IOU to create the type of risk management  
 2 program for fuel procurement that it finds most appropriate while  
 3 allowing the Commission to retain the discretion to evaluate, and the  
 4 parties the opportunity to address, the prudence of such programs at the  
 5 appropriate time. Further, the Proposed Resolution of Issues appears to  
 6 remove disincentives that may currently exist for IOUs to engage in  
 7 hedging transactions that may create customer benefits by providing a  
 8 cost recovery mechanism for prudently incurred hedging transaction  
 9 costs, gains and losses, and incremental operating and maintenance  
 10 expenses associated with new and expanded hedging programs.<sup>21</sup>  
 11

12 **Q. HAS THE COMMISSION MODIFIED ITS INTENT FOR FUEL HEDGING IN**  
 13 **FLORIDA OR PROVIDED HEDGING GUIDELINES?**

14 **A.** Yes. In Order No. PSC-08-0667-PAA-EI (the “2008 Hedging Order”), issued October  
 15 8, 2008, the Commission established guiding principles that it recognized as  
 16 appropriate to follow in reviewing plans and an IOU’s hedging activities.<sup>22</sup> The first  
 17 two guiding principles are:

- 18 a. The Commission finds that the purpose of hedging is to reduce  
 19 the impact of volatility in the fuel adjustment charges paid by an IOU’s  
 20 customers, in the face of price volatility for the fuels (and fuel price-  
 21 indexed purchased power energy costs) that the IOU must pay in order  
 22 to provide electric service.
- 23
- 24 b. The Commission finds that a well-managed hedging program  
 25 does not involve speculation or attempting to anticipate the most  
 26 favorable point in time to place hedges. Its primary purpose is not to  
 27 reduce an IOU’s fuel costs paid over time, but rather to reduce the  
 28 variability or volatility in fuel costs paid by customers over time.<sup>23</sup>

---

<sup>21</sup> Order No. PSC-02-1484-FOF-EI, issued October 30, 2002, in Docket No. 011605-EI, In re: Review of Investor-owned Electric Utilities’ Risk Management Policies and Procedures, p. 2.

<sup>22</sup> Order No. PSC-08-0667-PAA-EI, issued October 8, 2008, in Docket No. 080001-EI, In re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor. Note: the Commission clarified the 2002 Hedging Order in May 2008. See Order No. PSC-08-0316-PAA-EI, issued May 14, 2008, in Docket No. 080001-EI. In re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor.

<sup>23</sup> Order No. PSC-08-0667-PAA-EI, p. 16.

1 **Q. ARE YOU AWARE OF ANY ORDERS THAT HAVE MODIFIED THE**  
2 **UNDERLYING BASIS FOR THE COMMISSION'S APPROVAL OF THE**  
3 **UTILITY HEDGING PROGRAMS?**

4 **A.** No. I have been advised by counsel that neither the Woodford Project Order<sup>24</sup> nor the  
5 Natural Gas Reserves Investment Guidelines Order<sup>25</sup> modified the Commission's basic  
6 intent that utility hedging programs are designed to reduce fuel price volatility.

7  
8 **Q. DO ANY OF THE HEDGING ORDERS PRECLUDE ANY PARTY FROM**  
9 **PETITIONING FOR THE SUSPENSION OR TERMINATION OF THE FUEL**  
10 **HEDGING PROGRAM IN FLORIDA?**

11 **A.** No, I have been advised by counsel that they do not.

12

13 **V. OBSERVATIONS**

14 **Q. PLEASE SUMMARIZE YOUR OBSERVATIONS REGARDING THE**  
15 **COMPANIES' NATURAL GAS HEDGING GAINS AND LOSSES FOR THE**  
16 **PERIOD FROM 2002 TO 2014.**

17 **A.** In order to ascertain the magnitude of the Companies' hedging gains or losses, I  
18 reviewed the Companies' hedging true-up filings with the Commission for every year  
19 from 2002 through 2014. These filings consisted of testimonies and exhibits, which  
20 included a summary of the Companies' hedging activities and indicated whether or not

---

<sup>24</sup> Order No. PSC-15-0038-FOF-EI, issued January 12, 2015, in Docket No. 150001-EI, In re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor.

<sup>25</sup> Order No. PSC-15-0284-FOF-EI, issued July 14, 2015, in Docket No. 150001-EI, In re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor.

1 the Companies achieved any gains or losses related to those hedging activities. My  
 2 review of the Companies' hedging true-up filings shows that each of the IOUs  
 3 experienced cumulative natural gas hedging losses from 2002 to 2014, which totaled  
 4 ~~\$5,233,201,193~~ *\$5,231,155,391 JB* for all four Companies. In addition, my review of the Companies'  
 5 responses to OPC's discovery for the same period shows cumulative natural gas  
 6 hedging losses of \$5,552,505,043.

7

8 **Q. DID YOU COMPARE THE COMPANIES' NATURAL GAS HEDGING GAINS**  
 9 **OR LOSSES FILED WITH THE COMMISSION IN THIS DOCKET WITH**  
 10 **THE COMPANIES' RESPONSES TO OPC'S DISCOVERY?**

11 **A.** Yes, I did. The Companies' natural gas hedging true-up filings with the PSC are  
 12 attached as Exhibit TN-2, and the Companies' natural gas hedging discovery responses  
 13 are attached as Exhibit TN-3. The natural gas hedging losses from 2002 to 2014 for  
 14 the IOUs are summarized on Table 1 below:

1 **Table 1 – Comparison of Natural Gas Hedging Commission Filings**  
 2 **and Discovery Responses (2002-2014)<sup>26</sup>**

<b>IOU</b>	<b>Commission Filings (2002-2014)</b>	<b>Discovery Responses (2002-2014)</b>	<b>Difference Between Commission Filings and Discovery Responses</b>	<b>End Result</b>
<b>Duke</b>	\$ (1,233,387,898)	\$ (1,267,848,634)	\$ 34,460,736	Under-reported loss
<b>FPL</b>	\$ (3,500,752,265)	\$ (3,775,960,449)	\$ 275,208,184	Under-reported loss
<b>Gulf</b>	\$ ( 127,463,543)	\$ ( 127,278,227)	\$ ( 185,316)	Over-reported loss
<b>TECO</b>	\$ ( 369,551,685)	\$ ( 381,417,733)	\$ 11,866,048	Under-reported loss
<b>TOTALS</b>	\$ (5,231,155,391)	\$ (5,552,505,043)	\$ 321,349,652	N/A

3

4 **Q. WHAT DID YOU OBSERVE?**

5 **A.** For the most part, there were some minor discrepancies between the Companies' fuel  
 6 clause hedging filings and the Companies' responses to OPC's hedging discovery.  
 7 However, in at least once instance, the annual discrepancy for one of the IOUs exceeded  
 8 \$100 million dollars.

---

<sup>26</sup> See Exh. TN-2 and TN-3.

1 **Q. PLEASE DESCRIBE THOSE DISCREPANCIES.**

2 **A.** In general terms, the amount of the loss or gain reported to the Commission was  
3 sometimes different than what was reported in discovery. For example, in its  
4 Commission hedging true-up testimony from 2004-2010, TECO used approximate  
5 numbers, rounded to the nearest hundred thousand dollars; however, TECO used exact  
6 numbers in its response to OPC discovery. Also, in three instances the Companies'  
7 hedging losses were considered confidential, so I was unable to include those losses in  
8 Table 1 showing cumulative hedging losses. Additionally, there were some smaller  
9 differences between what was reported by Duke and Gulf, but those differences were  
10 rather minor in comparison to some of the larger discrepancies I found. Some of the  
11 specific discrepancies are discussed further below.

12

13 **Q. DO YOU HAVE AN OPINION ON WHY THE COMPANIES HAD**  
14 **DISCREPANCIES BETWEEN THEIR COMMISSION HEDGING TRUE-UP**  
15 **FILINGS AND THEIR DISCOVERY RESPONSES?**

16 **A.** No, I do not. My testimony is limited to reporting and summarizing the information  
17 submitted by the IOUs to the PSC and the discovery responses provided to OPC.

18

19 **Q. YOU INDICATED THAT THERE WERE SOME LARGER DISCREPANCIES.**  
20 **WOULD YOU PLEASE DESCRIBE WHAT YOU OBSERVED?**

21 **A.** For the years 2004 and 2005, it appears that FPL over-reported hedging gains. And,  
22 for the years 2006 and 2007, it appears that FPL under-reported hedging losses. There  
23 was also a smaller discrepancy for 2002 that was less than \$1 million. Table 2 below

1 shows the larger discrepancies for FPL:

2  
3 **Table 2 – Comparison of FPL’s Natural Gas Hedging Commission Filings and**  
4 **Discovery Responses (2004-2007)<sup>27</sup>**

<b>FPL</b>	<b>Commission Filings</b>	<b>Discovery Responses</b>	<b>Difference from PSC Filing</b>	<b>End Result</b>
2004	\$ 191,564,536 <sup>28</sup>	\$ 156,275,728	\$ 35,288,808	Over-reported gain
2005	\$ 519,388,788	\$ 488,815,538	\$ 30,573,250	Over-reported gain
2006	\$ (416,637,197)	\$ (487,636,397)	\$ 70,999,200	Under-reported loss
2007	\$ (799,268,428)	\$ (918,863,078)	\$ 119,594,650	Under-reported loss

5  
6 **Q. DO YOU HAVE AN OPINION ON WHY SOME GAINS WERE OVER-**  
7 **REPORTED AND SOME LOSSES WERE UNDER-REPORTED FOR THE**  
8 **YEARS 2004 THROUGH 2007, OR WHAT MIGHT HAVE CAUSED THOSE**  
9 **DISCREPANCIES?**

10 **A. No, I do not. Table 2 is based solely on a review of FPL’s true-up hedging activities**

<sup>27</sup> The Commission Filings column showing FPL’s hedging gains (losses) was derived from the non-confidential testimony and exhibits of FPL witness Gerard J. Yupp filed in the Fuel Docket (*see* Exh. TN-2, pp. 44-55). The Discovery Responses column showing gains (losses) was obtained from FPL’s response to OPC’s Interrogatory No. 26 (*see* Exh. TN-3, pp. 11-12).

<sup>28</sup> This figure was provided on April 3, 2006, presumably to revise the original figure of \$189,877,494 filed on April 1, 2005. However, the revised figure listed on Table 2 is still different from what FPL reported in its May 2015 discovery response.



1 filings for every year from 2002 through 2014, which are filed with the Commission  
 2 on or around April 1 of each year. While it is possible that FPL corrected those larger  
 3 discrepancies for the years 2004 through 2007, the Fuel Dockets contain hundreds of  
 4 filings from the four IOUs, and I did not examine every Fuel Adjustment Clause filing  
 5 to see if FPL had made corrections to its hedging true-up filings with the PSC for the  
 6 years in question.

7  
 8 **Q. WHAT ARE THE COMPANIES' PROJECTED NATURAL GAS HEDGING**  
 9 **GAINS OR LOSSES FOR 2015?**

10 **A.** In their discovery responses submitted in May 2015, each of the Companies projected  
 11 a natural gas hedging loss for 2015. These projected losses are summarized in Table 3  
 12 below:

13 **Table 3 – Projected 2015 Natural Gas**  
 14 **Hedging Gains (Losses) For IOUs<sup>29</sup>**

<b>IOU</b>	<b>Projected Natural Gas Hedging Gains (Losses) (2015)</b>
<b>Duke</b>	\$ (196,900,000)
<b>FPL</b>	\$ (382,000,000)
<b>Gulf</b>	\$ ( 43,981,755)
<b>TECO</b>	\$ ( 23,168,465)
<b>TOTAL</b>	\$ (646,050,220)

<sup>29</sup> See Duke's Supplemental Response to OPC Interrogatory No. 5; FPL's Response to OPC Interrogatory No. 29; Gulf's Response to OPC Interrogatory No. 5; and TECO's Response to OPC Interrogatory No. 5 (see Exh. TN-3, pp. 5-6, 13, 18, and 24).

1 VI: **CONCLUSION**

2 Q. **PLEASE SUMMARIZE YOUR CONCLUSION.**

3 A. As a fact witness in this proceeding, my conclusion is that the facts confirm that the  
4 Companies' natural gas hedging programs have resulted in losses exceeding \$5 billion  
5 for Florida customers from 2002 to 2014. In addition, losses are currently projected to  
6 exceed \$600 million for 2015 alone.

7

8 Q. **DOES THIS CONCLUDE YOUR TESTIMONY?**

9 A. Yes, it does.

1 **BY MR. SAYLER:**

2 Q Have you prepared a summary of your testimony  
3 today?

4 A Yes, I have.

5 Q All right. Would you please summarize your  
6 testimony?

7 A Yes. Thank you.

8 Good afternoon, Commissioners, Chairman and  
9 Commissioners. The purpose of my testimony is to  
10 provide facts about the history of the fuel clause,  
11 midcourse corrections, and hedging. I also provide the  
12 results of the investor-owned utility hedging programs  
13 since 2002.

14 I reviewed the hedging true-up Commission  
15 filings from 2002 to 2014 for the four investor-owned  
16 utilities that hedge natural gas. These filings  
17 consisted of testimonies and exhibits which included a  
18 summary of hedging activities and indicated whether or  
19 not the company has achieved any gains or losses related  
20 to those hedging activities.

21 My review of the hedging true-up filings shows  
22 that each of the investor-owned utilities experienced  
23 natural gas hedging results from 2002 to 2014 which  
24 totaled approximately \$5.2 billion in cumulative net  
25 losses for the four companies. Also, my review of the

1 companies' responses to OPC's discovery in this docket  
2 for the same period shows even higher cumulative net  
3 natural gas hedging losses in excess of \$5.5 billion for  
4 the four investor-owned utilities.

5           During my review, I also observed  
6 discrepancies between the companies' fuel clause hedging  
7 filings and the companies' responses to OPC's hedging  
8 discovery. In some cases, these discrepancies were the  
9 result of rounding, while in others it was either due to  
10 the confidentiality of the information or to subsequent  
11 revisions by the utilities.

12           As a matter of accuracy, my testimony was  
13 based on the best information available to OPC at the  
14 time of filing on September 23rd. In early October  
15 Tampa Electric conferred with OPC to discuss their  
16 discrepancies, and all of these have been successfully  
17 reconciled.

18           Also, Florida Power & Light provided a revised  
19 interrogatory response on October 9th to correct the  
20 inadvertent double counting of the cost of option  
21 premiums in the total gains and losses from 2002 to  
22 2007, which I relied upon for my testimony. I concur  
23 with Florida Power & Light's revised interrogatory  
24 response. Therefore, based on the latest information  
25 available, the data shows that the cumulative net

1 hedging losses from 2002 to 2014 for Florida's  
2 investor-owned utility customers totaled approximately  
3 \$5.3 billion.

4 In addition, my review of the 2015 projected  
5 data indicates that each of the companies' projected a  
6 2015 natural gas hedging loss as shown in their  
7 discovery responses to OPC. The 2015 projected losses  
8 for the four companies alone will cost Florida's  
9 investor-owned utility customers approximately  
10 \$646 million.

11 In conclusion, if you add the 2015 projected  
12 losses to the actual cumulative net hedging losses from  
13 2002 to 2014, these natural gas hedging programs will  
14 have cost Florida's investor-owned utility customers  
15 approximately \$6 billion by the end of this year. That  
16 concludes my summary. Thank you.

17 **MR. SAYLER:** Mr. Chairman, we tender the  
18 witness for cross.

19 (Volume concluded at 12:10 p.m.)

20 (Transcript continues in sequence with Volume  
21 5.)  
22  
23  
24  
25

1 STATE OF FLORIDA )  
2 COUNTY OF LEON ) : CERTIFICATE OF REPORTER

3  
4 I, LINDA BOLES, CRR, RPR, Official Commission  
5 Reporter, do hereby certify that the foregoing  
6 proceeding was heard at the time and place herein  
7 stated.

8 IT IS FURTHER CERTIFIED that I  
9 stenographically reported the said proceedings; that the  
10 same has been transcribed under my direct supervision;  
11 and that this transcript constitutes a true  
12 transcription of my notes of said proceedings.

13 I FURTHER CERTIFY that I am not a relative,  
14 employee, attorney or counsel of any of the parties, nor  
15 am I a relative or employee of any of the parties'  
16 attorney or counsel connected with the action, nor am I  
17 financially interested in the action.

18 DATED THIS 4th day of November, 2015.

19  
20  
21  
22  
23  
24  
25  


---

LINDA BOLES, CRR, RPR  
FPSC Official Hearings Reporter  
(850) 413-6734