

BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of:

DOCKET NO. 160001-EI

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

VOLUME 3

Pages 449 through 562

PROCEEDINGS: HEARING

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

DATE: Wednesday, November 2, 2016

TIME: Commenced at 9:54 a.m.
Concluded at 10:26 a.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

WITNESS

NAME:	PAGE:
MARK ANTHONY CICCHETTI Prefiled Testimony Inserted	452
TARIK NORIEGA Prefiled Testimony Inserted	468
DANIEL J. LAWTON Prefiled Testimony Inserted	486
JOSEPH McCALLISTER Prefiled Testimony Inserted	506

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

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.
1	Comprehensive Exhibit List	551	552
2 through 114	(as identified on Comprehensive Exhibit List)	551	552
115	PCS Phosphate's 1st Set of Interrogatories to DEF No. 1, including Excel File Attachment PCS-A.xlsx	552	552

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

I. INTRODUCTION

Q. Please state your name and business address.

A. My name is Mark Anthony Cicchetti. My business address is 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850.

Q. By who are you employed, and what is your position?

A. I am the Chief of the Bureau of Finance, Tax, and Cost Recovery at the Florida Public Service Commission.

Q. On whose behalf are you testifying?

A. I am testifying on behalf of the Florida Public Service Commission staff.

Q. Please provide a brief summary of your educational background and professional experience.

A. I received a Bachelor of Science (BS) degree in Business Administration in 1980 from Florida State University and a Master of Business Administration (MBA) in Finance in 1981, also from Florida State University.

I have over 30 years of experience in utility regulation including 20 years as a consultant specializing in public utility finance, economics, and regulation. For 10 years I was a Project Manager and Manager of the Tallahassee, Florida Office of C.H. Guernsey & Co. (Guernsey) where I provided consulting services including the provision of expert testimony. My project responsibilities for Guernsey included cost of equity analysis, credit and capital market analysis, merger and acquisition analysis, utility valuation, demand-side management and energy efficiency analysis, and financial integrity analysis. For ten years prior to joining Guernsey, I was President of Cicchetti & Co., a financial research and consulting firm, where I also provided consulting services including the provision of expert testimony. Topics I provided expert testimony on included the cost of equity, the overall cost of capital, industry

1 structure, capital structure, corporate structure, regulatory theory, incentive regulation,
2 implementation of the leverage formula for water and wastewater utilities, and uniform rates.
3 Prior to joining Guernsey I was the Chief of Arbitrage Compliance for the Florida Division of
4 Bond Finance and the Chief of Finance for the Florida Public Service Commission. I am
5 currently the Secretary/Treasurer of the Society of Utility and Regulatory Financial Analysts
6 (SURFA) and previously have served as President, Secretary/Treasurer, and a member of the
7 Board of Directors of SURFA. A copy of my Curriculum Vitae is included as Exhibit (MAC-
8 1).

9 II. TESTIMONY OVERVIEW

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

11 A. The purpose of my testimony is to present a history of hedging in Florida in an effort
12 to provide an understanding of how and why we arrived at where we are today regarding
13 hedging and to provide the Commission with an alternative to the current hedging protocol. I
14 will also provide an overview of the hedging practices of other state commissions.

15 **Q. What materials did you review and rely on in preparing your testimony?**

16 A. In preparing my testimony, I reviewed all Commission orders regarding hedging
17 dating back to 2001; all staff recommendations, reports, and presentations on hedging; the
18 transcript of the Commission's workshop on hedging held in 2011; the hedging-related
19 testimony and exhibits of the witnesses of Gulf Power Company, Duke Energy Florida,
20 Florida Power & Light Company, and Tampa Electric Company (Companies) in 2015 and in
21 the current 2016 docket; the Companies' Risk Management Plans for 2016 and 2017; the
22 hedging-related discovery in the 2016 Fuel Docket and in Docket No. 160096-EI; the Florida
23 Supreme Court Order No. SC-1595 in Citizens v. Graham; a paper titled, "*White Paper*
24 *Regarding Utility Hedging Regulation*" by Michael Gettings, prepared for the Washington
25 Utilities and Transportation Commission, July 2015; and the article "*Hedging Under*

1 *Scrutiny*” by Julie Ryan and Julie Leiberman published by Public Utilities Fortnightly in
2 2012.

3 **III. HISTORY OF FINANCIAL FUEL HEDGING IN FLORIDA**

4 **Q. When did Florida investor-owned electric utilities begin engaging in financial**
5 **hedging of fuel costs?**

6 A. In 1990, the New York Mercantile Exchange (NYMEX) introduced a natural gas
7 futures contract and in 1992 the NYMEX introduced a natural gas options contract. Prior to
8 that time, there were no widespread exchange-traded financial derivative products available to
9 directly and effectively hedge natural gas prices. Also, prior to 1990, coal was a much more
10 prevalent fuel source for electric generation. Coal was purchased through relatively fixed-cost,
11 long-term contracts and its relatively stable price made financial hedging less necessary. Also,
12 prior to 1999, natural gas prices were relatively low and stable. Exhibit (MAC-2) shows the
13 monthly Henry Hub spot price of natural gas (Dollars per million Btu) for the period 1997 to
14 2016.

15 The market price of natural gas increased significantly between March 1999 and March 2001
16 and during that time Florida Power & Light Company (FPL) responded, in part, to the
17 increasing market price of natural gas with limited financial hedging. Florida Power
18 Corporation (FPC) (the predecessor company to Duke Energy Florida, LLC), Gulf Power
19 Company (GPC), and Tampa Electric Company (TECO) began financial hedging in 2002.

20 **Q. When did the Florida Public Service Commission officially first address financial**
21 **hedging of fuel costs?**

22 A. The Commission officially first addressed fuel hedging in the 2001 Fuel Docket,
23 Docket No. 010001-EI. On September 11, 2001, the Commission issued Order No. PSC-01-
24 1829-PCO-EI establishing issues for resolution in Docket No. 010001-EI that included issues
25

1 directly related to fuel hedging.¹ On November 2, 2001, the Office of Public Counsel (OPC)
 2 filed a motion to defer consideration of the hedging-related issues listed in that Order to allow
 3 the parties additional time to explore those issues. By Order No. PSC-01-2273-PHO-EI,²
 4 OPC's motion was granted. The deferred issues listed in Order No. PSC-01-1829-PCO-EI
 5 were:

6 ISSUE 11: Has each investor-owned electric utility taken reasonable steps to manage the risks
 7 associated with its fuel transactions through the use of physical and financial hedging
 8 practices?

9 ISSUE 12: What is the appropriate regulatory treatment for gains and losses from hedging an
 10 investor-owned electric utility's fuel transactions through futures contracts?

11 ISSUE 13: What is the appropriate regulatory treatment for premiums received and paid for
 12 hedging an investor-owned electric utility's fuel transactions through options contracts?

13 ISSUE 14: What is the appropriate regulatory treatment for the transaction costs associated
 14 with an investor-owned electric utility hedging its fuel transactions?

15 ISSUE 18A: For the period March 1999 to March 2001, did FPL take reasonable steps to
 16 manage the risk associated with changes in natural gas prices?

17 ISSUE 19D: For the period March 1999 to March 2001, did FPC take reasonable steps to
 18 manage the risk associated with changes in natural gas prices?

19 **Q. What procedures did the Commission use to address the deferred hedging issues?**

20 A. The Commission directed staff to open a new docket to address the six deferred
 21 hedging issues and staff established Docket No. 011605-EI on November 27, 2001. Staff filed
 22 individual recommendations to address Issues 18A, relating to FPL, and 19D, relating to FPC,
 23 _____

24 ¹ Order No. PSC-01-1829-PCO-EI, issued September 11, 2001, in Docket No. 010001-EI, *In re: Fuel and*
purchased power cost recovery clause and generating performance incentive factor.

25 ² Order No. PSC-01-2273-PCO-EI, issued November 19, 2001, in Docket No. 010001-EI, *In re: Fuel and*
purchased power cost recovery clause and generating performance incentive factor.

1 on May 9, 2002, and June 6, 2002, respectively. Subsequently, the Commission issued Order
2 Nos. PSC-02-0793-PAA-EI and PSC-02-0919-PAA-EI resolving Issues 18A and 19D,
3 respectively.^{3,4} Regarding the remaining issues, the parties engaged in settlement discussions
4 and presented the Commission with a Proposed Resolution of Issues which the Commission
5 approved by Order No. PSC-02-1484-FOF-EI.⁵

6 **Q. What led the Commission to address the hedging issues cited above?**

7 A. The market price of natural gas changed substantially from March 1999 to March
8 2001. The monthly average price of natural gas increased from \$1.70 per 1000 cubic feet
9 (MCF) in March 1999 to \$8.06 per MCF in January 2001. By March 2001, the price dropped
10 to \$5.15 MCF.

11 In March 2001, the Commission granted FPC's petition for a mid-course correction to its fuel
12 and purchased power cost recovery factors (factors) to collect a \$29.4 million actual under-
13 recovery for 2000 and a projected \$73.0 million under-recovery for 2001. In April 2001, the
14 Commission granted FPL's petition for a mid-course correction to its fuel and purchased
15 power cost recovery factors to collect an actual \$76.8 million under-recovery for 2000 and a
16 projected \$431.5 million under-recovery for 2001.

17 Although the Commission approved FPC's and FPL's petitions for mid-course correction for
18 their factors, the Commission did not state whether FPC and FPL had prudently incurred the
19 incremental costs. The Commission indicated that any party or the Commission staff could
20 raise issues regarding the prudence of the incremental costs, if necessary, at the hearing
21 scheduled in Docket No. 010001-EI, commencing November 20, 2001.

22 During the discovery process leading to the November 2001 hearing, staff reviewed
23 _____

24 ³ Order No. PSC-02-0793-PAA-EI, issued June 11, 2002, in Docket No. 011605-EI, *In re: Review of investor-*
owned electric utilities' risk management policies and procedures.

25 ⁴ Order No. PSC-02-0919-PAA-EI, issued July 8, 2002, in Docket No. 011605-EI, *In re: Review of investor-*
owned electric utilities' risk management policies and procedures.

⁵ Order No. PSC-02-1484-FOF-EI, issued October 10, 2002, in Docket No. 011605-EI, *In re: Review of investor-*
owned electric utilities' risk management policies and procedures.

1 information that indicated FPL and FPC may not have reacted sufficiently to the price signals
2 that the natural gas commodity market experienced from March 1999 to March 2001.
3 Consequently, as described above, the Commission ultimately directed staff to open a new
4 docket to address the hedging issues and staff established Docket No. 011605-EI.⁶

5 **Q. What were the Commission's findings in Docket No. 011605-EI?**

6 A. Regarding FPL's and FPC's prudence in managing the risks associated with changes in
7 natural gas prices, the Commission found that FPL and FPC both reasonably managed the
8 risks associated with changes in natural gas prices for the period March 1999 through March
9 2001.^{7,8}

10 **Q. What steps did FPL and FPC take to manage the risks associated with changes in**
11 **natural gas prices?**

12 A. To mitigate the risks associated with changes in natural gas prices, FPL and FPC
13 increased production at generation units that did not burn natural gas and utilized the fuel-
14 switching capabilities of several generating units to burn oil instead of natural gas. The staff
15 noted that FPL also engaged in two types of wholesale energy transactions to mitigate its
16 purchased power costs and engaged in physical hedging and limited financial hedging to
17 manage the risks associated with the changes in fuel prices.

18 **Q. What were the Commission's findings regarding the remaining issues in Docket**
19 **No. 011605-EI?**

20 A. Regarding the remaining issues, the Commission approved a Proposed Resolution of
21 Issues that resolved the remaining issues in the docket.⁹ The Proposed Resolution of Issues
22 _____

23 ⁶ See Staff Recommendation, dated May 9, 2002, in Docket No. 011605-EI.

24 ⁷ Order No. PSC-02-0793-PAA-EI, issued June 11, 2002, in Docket No. 011605-EI, *In re: Review of investor-*
owned electric utilities' risk management policies and procedures, at p. 5.

25 ⁸ Order No. PSC-02-0919-PAA-EI, issued July 8, 2002, in Docket No. 011605-EI, *In re: Review of investor-*
owned electric utilities' risk management policies and procedures, at p. 6.

⁹ 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.

1 was signed and supported by FPL, FPC, TECO, the Florida Industrial Power Users Group, and
2 OPC. GPC agreed to the settlement at the hearing based upon a modification made during the
3 hearing. The Proposed Resolution of Issues was comprised of seven components and
4 established the framework for fuel hedging that the Commission and the parties largely
5 continue to follow. In 2008, in response to petitions filed by FPL, the Commission modified
6 Order No. PSC-02-1484-FOF-EI (2002 Hedging Order) for clarification.

7 **Q. What were the components of the Proposed Resolution of Issues?**

8 A. The 2002 Hedging Order, included the components of the Proposed Resolution of
9 Issues which are attached as Exhibit (MAC-3). In summary, the seven components of the
10 resolution of issues state: (1) each investor-owned electric utility recognizes the importance of
11 managing price volatility in the fuel and purchased power it purchases to provide electric
12 service to its customers; (2) each investor-owned electric utility will submit a risk
13 management plan for fuel procurement at the time of its projection filing in the fuel and
14 purchased power cost recovery docket each year; (3) each investor-owned electric utility shall
15 be authorized to charge/credit to the fuel and purchased power cost recovery clause its non-
16 speculative, prudently-incurred commodity costs and gains and losses associated with
17 financial and/or physical hedging transactions; (4) each investor-owned electric utility may
18 recover through the fuel and purchased power cost recovery clause prudently-incurred
19 incremental operating and maintenance expenses incurred for the purpose of initiating and/or
20 maintaining a new or expanded non-speculative financial and/or physical hedging program
21 designed to mitigate fuel and purchased power price volatility for its retail customers; (5) each
22 investor-owned utility shall provide, as part of its final true-up filing in the fuel and purchased
23 power cost recovery docket, the volumes of fuel hedged, the types of hedges utilized, the
24 average period of each hedge, and the actual costs of the hedges; (6) no party shall seek
25 approval of a hedging incentive program earlier than the time of its projection filing for the

1 2004 fuel and purchased power cost recovery period, and; (7) the proposed resolution may be
2 executed in counterparts.¹⁰

3 **Q. What modifications were made to the Hedging Order in 2008?**

4 A. The 2002 Hedging Order did not provide, with specificity, the time period for which
5 prudence would be established nor did it require the necessary information for making a
6 prudence determination. Order No. PSC-08-0316-PAA-EI specified that the four largest
7 investor-owned electric utilities would file a Hedging Information Report by August 15 of
8 each year detailing their current year hedging transactions during the months of January
9 through July of that current year.¹¹ That modification to the 2002 Hedging Order facilitated
10 the Commission’s ability to determine prudence each year in the annual fuel clause hearing by
11 ensuring the Commission had the necessary information for each year to make such a
12 determination.

13 On August 5, 2008, FPL filed a petition for approval of Hedging Order Clarification
14 Guidelines. FPL proposed the Hedging Order Clarification Guidelines in response to
15 asymmetric reactions of certain stakeholders to fuel hedging gains and losses. In its petition
16 FPL stated:

17 When the Commission approved the 2002 Hedging Resolution,
18 support for hedging was strong and consistent among the
19 stakeholders. Unfortunately, the reaction of certain stakeholders
20 over the ensuing years has not been symmetric when hedging
21 programs show gains and when they show losses. Support for
22 hedging has generally been strong during periods of rising fuel
23 prices, when hedging programs are showing gains, but has

24 _____
25 ¹⁰ Order No. PSC-02-1484-FOF-EI at pp. 5-7.
¹¹ 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 and generating performance incentive factor.*

1 waned when prices are falling and hedging programs are
2 showing losses. IOU shareholders receive no special benefit or
3 reward when hedging programs result in gains, but this observed
4 asymmetry raises the specter that shareholders might be exposed
5 to risks of non-recovery when hedging programs result in losses.
6 This imbalance of risks and rewards can increase the perceived
7 financial risk of the IOU's and ultimately increase their cost of
8 capital.

9 The Hedging Guidelines are designed to mitigate against this
10 asymmetry by reaffirming and clarifying the Commission's
11 support for hedging as an appropriate means of managing the
12 impacts of fuel price volatility.¹²

13 By Order No. PSC-08-0667-PAA-EI, the Commission approved the Hedging Order
14 Guidelines proposed by FPL.¹³ In its order, the Commission stated

15 By approving FPL's proposed guidelines, we demonstrate our
16 support for hedging. We retain our discretion to determine the
17 prudence of hedging results and acknowledge that the guidelines
18 do not bind us in our review of a utility's hedging practices.

19 Between 2009 and 2015, no specific hedging-related issues were addressed in the fuel cost
20 recovery dockets. In 2015, as part of the Fuel and Purchased Power Adjustment and
21 Generating Performance Factor Clause (Fuel Docket) proceedings, testimony and other
22 evidence was presented on hedging and hedging-related issues.

23 **Q. What were the hedging and hedging related issues addressed in the 2015 Fuel**

24
25 ¹² Petition of Florida Power & Light Company for approval of Hedging Guidelines and For Leave to Withdraw
its January 31, 2008 VMM Petition, Docket No. 080001-EI, at p. 3.

¹³ 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 and generating performance incentive factor*, at p. 12.

1 **Docket?**

2 A. As stated in Order No. PSC-15-0586-FOF-EI,¹⁴ the issues addressed were: (1) the
3 significant opportunity costs of hedging programs that IOUs incurred as part of fuel costs paid
4 by customers; (2) whether the volatility of natural gas prices has declined to the point where
5 hedging is no longer effective or necessary; and (3) whether conditions in the natural gas
6 market are stable and eliminate the need for hedging.

7 **Q. What did the Commission conclude based on the hearing in the 2015 Fuel**
8 **Docket?**

9 A. The Commission decided to allow hedging to continue and directed staff and the
10 parties to explore possible changes to the current hedging protocol. Order No. PSC-15-0586-
11 FOF-EI stated:

12 Our decision to continue hedging at this time is based on the
13 evidence presented in this record which in large part consists of
14 arguments to either completely eliminate hedging or to continue
15 the procedures in place at this time. There was no written
16 testimony from any party and very limited cross-examination on
17 possible changes to the manner in which the IOUs conduct
18 natural gas financial hedging activities or alternatives to
19 hedging: cost sharing of hedging gains and losses between the
20 IOUs and ratepayers, alternative accounting treatment for
21 recovery of gains and losses (VMM program), or imposing
22 limits on the percentage of natural gas purchases hedged. All
23 witnesses agreed that any changes to the hedging protocol
24 should be prospective and that the current hedges should be

25

¹⁴ Order No. PSC-15-0586-FOF-EI, issued December 23, 2015, in Docket No. 150001-EI, *In re: Fuel and purchased power cost recovery clause and generating performance incentive factor.*

1 allowed to terminate on their original contract dates.
2 Notwithstanding our decision on hedging, we recognize that the
3 cost of this program is significant by any measure for each
4 Florida IOU and deserves further analysis. Therefore, we direct
5 our staff, in conjunction with the parties to this docket, to
6 explore possible changes to the current hedging protocol that
7 will minimize potential losses to customers.¹⁵

8 **Q. Did the Commission staff and the parties explore possible changes to the current**
9 **hedging protocol?**

10 A. Yes. On January 25, 2016, staff held an informal, noticed meeting with interested
11 parties to discuss options and procedures for possible changes to the current hedging protocol
12 to minimize potential losses to customers. Representatives from DEF, FPL, TECO, and GPC
13 participated in the meeting. Staff also conducted discovery.

14 On April 22, 2016, FPL, TECO, and Gulf (IOUs) filed a joint petition in Docket No. 160096-
15 EI seeking approval of modifications to their respective Risk Management Plans. DEF joined
16 in the petition but stated it had the latitude to make the changes agreed to by the IOUs without
17 modifying its current plan. The IOUs' proposed modifications were company-specific and
18 each proposed to: (1) reduce their respective annual maximum percentage of fuel purchases
19 targeted for hedges; and (2) reduce the period of time over which hedges may be placed
20 pursuant to each respective Risk Management Plan.

21 **Q. Did the Commission approve the IOUs' petition to modify their respective Risk**
22 **Management Plans?**

23 A. Yes. The Commission approved the IOUs' petition in Order No. PSC-16-0247-PAA-
24
25

¹⁵ Order No. PSC-15-0586-FOF-EI, issued December 23, 2015, in Docket No. 150001-EI, *In re: Fuel and purchased power cost recovery clause and generating performance incentive factor*, at p. 9.

1 EI.¹⁶ In that order the Commission stated:

2 This reduction in the percentage of natural gas hedged is a step
3 in the right direction. However, we continue to be concerned
4 about this issue and the high costs experienced by electric
5 ratepayers for natural gas in excess of the market price. We urge
6 the our (sic) staff, the investor-owned utilities, and the parties to
7 provide us with other evidence-based options to further limit
8 customer exposure to risks of hedging in the forthcoming fuel
9 cost recovery docket, Docket No. 160001-EI, scheduled for
10 November of this year.

11 **Q. Was Order No. PSC-16-0247-PAA-EI protested?**

12 A. Yes. On July 15, 2016, OPC filed a timely protest of Order No. PSC-16-0247-PAA-EI
13 and requested an evidentiary hearing.¹⁷ By Order No. PSC-16-0301-PCO-EI, Commissioner
14 Graham, as Prehearing Officer, consolidated Docket No. 160096-EI into the 2016 Fuel
15 Docket, Docket No. 160001-EI, for all purposes.¹⁸

16 On September 20, 2016, staff and the parties held the first issue identification meeting for
17 Docket No. 160001-EI, and the following two hedging-related issues were agreed to by all
18 parties:

19 Issue 1A: Is it in the consumers' best interest for the utilities to continue natural gas financial
20 hedging activities?

21 ISSUE 1B: What changes, if any, should be made to the manner in which electric utilities

22 _____
23 ¹⁶ Order No. PSC-16-0247-PAA-EI, issued June 27, 2016, in Docket No. 160096-EI, *In re: Joint petition for approval of modifications to risk management plans by Duke Energy Florida, Florida Power & Light Company, Gulf Power Company and Tampa Electric Company*, at p. 7.

24 ¹⁷ See Petition Protesting & Requesting Evidentiary Hearing On The Proposed Agency Action, filed July 15, 2016, in Docket No. 160096-EI, *In re: Joint petition for approval of modifications to risk management plans by Duke Energy Florida, Florida Power & Light Company, Gulf Power Company and Tampa Electric Company*.

25 ¹⁸ Order No. PSC-16-0301-PCO-EI, issued July 28, 2016, in Docket No. 160096-EI, *In re: Joint petition for approval of modifications to risk management plans by Duke Energy Florida, Florida Power & Light Company, Gulf Power Company and Tampa Electric Company*.

1 | conduct their natural gas financial hedging activities?

2 | **IV. ALTERNATIVES TO THE CURRENT HEDGING PROTOCOL**

3 | **Q. As urged by the Commission in Order No. PSC-16-0247-PAA-EI, has the staff**
4 | **explored other evidence-based options to limit customer exposure to the risks of**
5 | **hedging?**

6 | A. Yes. While conducting research regarding financial hedging of fuel costs by regulated
7 | utilities, staff became aware of risk-responsive hedge strategies that rely on the principles of
8 | quantitative finance to provide an effective framework for robust hedge practices. Analysis of
9 | the risk-responsive hedging strategies indicated they are superior to the typical targeted-
10 | volume approach generally practiced by regulated investor-owned utilities and should help
11 | minimize potential losses to customers. Consequently, staff retained an expert, Michael
12 | Gettings, to provide testimony regarding risk-responsive hedging strategies in this docket. Mr.
13 | Gettings testimony presents a hedging framework for the Commission to consider as an
14 | alternative to the current hedging protocol.

15 | **Q. If the Commission were to adopt the approach recommended by Mr. Gettings,**
16 | **could the approach be implemented in 2017?**

17 | A. Possibly. It will take time for the IOUs to familiarize themselves with the concepts, to
18 | acquire the necessary resources, and to formulate strategies. However, if it is not feasible to
19 | implement a risk-responsive hedging strategy as soon as 2017, I recommend the Commission
20 | implement, in 2017, the modifications requested in Docket No. 160096-EI by the IOUs to
21 | their respective 2017 Risk Management Plans to: (1) reduce their respective annual maximum
22 | percentage of fuel purchases targeted for hedges; and (2) reduce the period of time over which
23 | hedges may be placed.

24 | I also recommend that beginning April 30, 2017, the Commission require the IOUs to develop
25 | and provide contemporaneous weekly risk measurement and monitoring, from the customers'

1 perspective, to be reported quarterly as outlined by Michael Gettings in his direct testimony
2 and shown on Exhibit (MAG-2).

3 **Q. Why do you recommend the Commission implement, for 2017, the modifications**
4 **requested by the IOUs to their respective Risk Management Plans in Docket No. 160096-**
5 **EI and require the IOUs provide contemporaneous weekly risk measurement and**
6 **monitoring, from the customers' perspective, as outlined by Michael Gettings in his**
7 **direct testimony?**

8 A. If the IOUs cannot implement a risk-responsive hedging protocol in 2017, I
9 recommend 2017 be used as a transition year with full implementation in 2018. I recommend
10 that the modifications requested by the IOUs to their respective Risk Management Plans in
11 Docket No. 160096-EI be implemented in 2017. Those modifications can reduce potential
12 losses to be recovered from the customers compared to the current hedging protocol. I do not
13 recommend hedging be eliminated. Hedging is beneficial because it reduces customer pain
14 when prices spike thereby creating value for customers. Customers derive greater value from
15 upside cost mitigation than they forego from hedge losses because hedge losses tend to occur
16 when prices are declining. Natural gas prices are lognormally distributed. That means the
17 magnitude of significant cost increases tends to be much greater than the magnitude of
18 significant cost decreases.

19 Requiring the IOUs to provide contemporaneous weekly risk measurement and monitoring,
20 from the customers' perspective, as outlined by Michael Gettings in his direct testimony, will
21 allow the IOUs to develop a more robust structure for hedging strategies while not being
22 overly prescriptive. Using more robust quantitative tools, deployed in a risk-responsive
23 fashion, should reduce customer costs relative to the volume-targeted hedging currently
24 employed by the IOUs.

25 **Q. Do the IOUs 2017 Risk Management Plans reflect the changes proposed by the**

1 **IOUs in their petition in Docket No. 160096-EI?**

2 A. GPC's Risk Management Plan reflects the modifications proposed in Docket No.
3 160096-EI. FPL's, DEF's and TECO's Risk Management Plans do not reflect the modifications
4 proposed in Docket No. 160096-EI.

5 **V. HEDGING PRACTICES OF OTHER STATE COMMISSIONS**

6 **Q. Have you reviewed research regarding the hedging practices of other state**
7 **commissions?**

8 A. Yes. In June 2016, the Commission's Division of Industry Development and Market
9 Analysis (IDM) conducted a survey, through the National Association of Regulatory Utility
10 Commissioners, to obtain current information regarding the hedging practices of other state
11 commissions. Twelve states responded. Consistent with other research regarding state
12 commission hedging practices, there was a wide array of responses. Approaches varied from
13 encouraging utilities to hedge to ending hedging programs. Exhibit (MAC-4) is a summary of
14 the results of IDM's survey.

15 In a paper published by Public Utilities Fortnightly in 2012 titled "Hedging Under Scrutiny,"
16 authors, Julie Ryan and Julie Lieberman of Concentric Energy Advisors cited a 2008 survey
17 conducted by the National Regulatory Research Institute and a 2009 survey conducted by the
18 American Gas Association that indicated most state commissions either supported or were
19 neutral to hedging.¹⁹ The article went on to describe how various state commissions are re-
20 assessing hedging practices and how in some cases hedging programs have been scrutinized
21 and continued without modification, while in other cases, hedging programs have been
22 targeted for additional review or have been suspended. One relevant conclusion of the article
23 was:

24 **One benefit arising from the increased focus on utility hedging**

25

¹⁹ Julie Ryan and Julie Lieberman, "Hedging Under Scrutiny," *Public Utilities Fortnightly*, Volume No. 150, No.2, February 2012, P.12.

1 is that regulators and stakeholders have grown increasingly
2 sophisticated about commodity markets and hedging, and some
3 might support more complex programs in the future. However,
4 the more discretionary a program design, the more critical
5 decisional documentation and transparent processes become.
6 Further, there must be rigor and consistency in how hedging is
7 adjusted in different market price environments. It will be
8 important in the design and approval stage that the hedging
9 program has clear triggers for when hedging decisions will be
10 executed. During the implementation stage, it will be important
11 for utilities to document information that was known to them at
12 the time hedges were transacted to demonstrate that reasonable
13 actions were taken, consistent with program design.

14 A copy of the article "Hedging Under Scrutiny" is attached as Exhibit (MAC-5).

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

16 A. Yes.

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. 160001-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.

5

6 Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

7 A. I am employed by the Office of Public Counsel ("OPC") as an Economist.

8

9 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 also earned a Master of Arts in Applied Economics
12 ("M.A.A.E.") degree from the University of Central Florida in 1994.

13

14 Q. PLEASE DESCRIBE YOUR WORK EXPERIENCE.

15 A. I have nearly 20 years of experience as an Economist and Policy Analyst. Between

1 1996 and 2012, I was employed by the Florida Public Service Commission (“PSC” or
2 “Commission”), the Florida House of Representatives, and the Florida Department of
3 Revenue. Since 2012, I have been working for OPC, where I provide analysis and
4 technical support in rate cases and other docketed and undocketed matters before the
5 PSC on behalf of Florida’s utility customers.

6

7 **Q. HAVE YOU PREVIOUSLY FILED TESTIMONY IN PROCEEDINGS**
8 **BEFORE THE COMMISSION?**

9 **A.** Yes, I provided testimony in Docket No. 150001-EI, which was the 2015 Fuel and
10 Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor
11 Docket (“Fuel Adjustment Clause” or “Fuel Docket”).

12

13 **II. TESTIMONY OVERVIEW**

14 **Q. ON WHOSE BEHALF ARE YOU FILING TESTIMONY IN THIS**
15 **PROCEEDING?**

16 **A.** I am testifying on behalf of OPC and the customers served by the four largest Florida
17 investor-owned electric utilities (“IOUs” or “Companies”).

18

19 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

20 **A.** The purpose of my testimony in this proceeding is to provide factual testimony related
21 to the history of the fuel clause, mid-course corrections, and hedging programs. I also
22 provide the results of the IOUs’ hedging programs since 2002. Another OPC witness,
23 Mr. Daniel J. Lawton, addresses some of the economic and regulatory policy issues

1 surrounding the Companies' proposals to continue their natural gas financial hedging
2 programs, as described in their 2017 Risk Management Plans. In addition, Mr.
3 Lawton's testimony addresses the potential impacts of the Companies' hedging
4 proposals on consumers, if approved by the Commission.

5

6 **Q. WHAT MATERIALS DID YOU REVIEW AND RELY UPON FOR YOUR**
7 **TESTIMONY?**

8 **A.** I reviewed the following materials for this year's Fuel Docket: (1) my 2015 Fuel
9 Docket testimony and supporting documentation; (2) past hedging true-up filings with
10 the PSC in the Fuel Adjustment Clause by Duke Energy Florida ("Duke"), Florida
11 Power & Light Company ("FPL"), Gulf Power Company ("Gulf"), and Tampa Electric
12 Company ("TECO"); (3) these Companies' discovery responses related to hedging; (4)
13 prior Commission Fuel Adjustment Clause orders and hedging orders; and (5) other
14 information available in the public domain. I did not review any discovery responses
15 or past hedging filings by Florida Public Utilities Company ("FPUC") because that
16 utility does not hedge natural gas. When relying on various sources, I have referenced
17 such sources in my testimony and/or attached these sources as Exhibits.

18

19 **Q. WHAT IS THE PERIOD THAT YOU REVIEWED IN EVALUATING THE**
20 **COMPANIES' NATURAL GAS HEDGING FILINGS?**

21 **A.** I reviewed data for calendar years 2002 through 2017. The Companies have provided
22 actual numbers through July 31, 2016 and projected numbers thereafter.

1 **Q. DO YOU SPONSOR ANY EXHIBITS IN SUPPORT OF YOUR TESTIMONY?**

2 **A.** Yes, I am sponsoring three Exhibits. Exhibit No. ____ (TN-1) includes my résumé and
3 is titled “Résumé of Tarik Noriega”. Exhibit No. ____ (TN-2) includes the actual
4 hedging program results and is titled “IOU Natural Gas Hedging Gains/(Losses) From
5 2002-2015”. Exhibit No. ____ (TN-3) includes discovery responses from the
6 Companies and is titled “IOU Discovery Responses”.

7

8 **Q. HOW IS YOUR TESTIMONY ORGANIZED?**

9 **A.** In Section III of my testimony, I address the history of the Fuel Adjustment Clause in
10 Florida, including a brief overview of mid-course corrections.

11

12 Section IV provides a general overview of fuel price hedging and the PSC’s 2002 and
13 2008 Hedging Orders.

14

15 Section V addresses my observations regarding the IOUs’ natural gas hedging gains
16 and losses since 2002, natural gas price trends, and recent IOU hedging program
17 projections.

18

19 Section VI provides my conclusion.

1 **III. FUEL ADJUSTMENT CLAUSE BACKGROUND**

2 **Q. WHAT IS THE FUEL ADJUSTMENT CLAUSE?**

3 **A.** The Fuel Adjustment Clause is a mechanism used by the Commission that allows the
4 IOUs to recover “[p]rudently incurred fossil fuel-related expenses....”¹

5

6 The origin, purpose, and history of the Fuel Adjustment Clause are thoroughly
7 discussed in two Commission orders: Order No. 6357, issued November 26, 1974, in
8 Docket No. 74680-CI, In re: General Investigation of Fuel Adjustment Clauses of
9 Electric Companies; and Order No. PSC-11-0080-PAA-EI, issued January 31, 2011, in
10 Docket No. 100404-EI, In re: Petition by Florida Power & Light Company to Recover
11 Scherer Unit 4 Turbine Upgrade Costs Through Environmental Cost Recovery Clause
12 or Fuel Cost Recovery Clause. Order No. 11-0080 summarized the Fuel Adjustment
13 Clause as follows:

14 The fuel [adjustment] clause is a regulatory tool designed to pass
15 through to utility customers the costs associated with fuel purchases.
16 The purpose is to prevent regulatory lag, which occurs when a utility
17 incurs expenses but is not allowed to collect offsetting revenues until
18 the regulatory body approves cost recovery. Regulatory lag has
19 historically been a problem for utilities because of the volatility of fuel
20 costs. ... Different states have addressed volatile fuel costs and the
21 problem of regulatory lag in differing ways. Several jurisdictions, like
22 Florida, have allowed recovery of fuel costs in a fuel adjustment clause,
23 and in Florida the implementation of the fuel clause has changed and
24 developed over the years.²

¹ Order No. 14546, issued July 8, 1985, in Docket No. 850001-EI-B, In re: Cost Recovery Methods for Fuel-Related Expenses, p. 2.

² 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.

1 **Q. ARE UTILITIES ALLOWED TO PROFIT ON THE FUEL COSTS**
2 **RECOVERED THROUGH THE FUEL ADJUSTMENT CLAUSE?**

3 **A.** No. As recognized in Order No. 6357, issued in 1974, “[i]t should be emphasized that
4 a utility does not make a profit on its fuel costs.”³

5

6 **Q. WHEN DID THE COMMISSION BEGIN AUTHORIZING FUEL COST**
7 **RECOVERY?**

8 **A.** The practice of allowing cost recovery through a fuel adjustment mechanism began in
9 the mid-1920s, predating the Commission’s jurisdiction over regulated electric utilities,
10 and has evolved over the past nine decades.⁴

11

12 **Q. PLEASE DESCRIBE THE EVOLUTION OF THE FUEL COST RECOVERY**
13 **PROCESS OVER TIME.**

14 **A.** Utilities benefited from a monthly fuel adjustment mechanism from 1925 to 1951, prior
15 to the PSC’s oversight of regulated electric utilities. After the Legislature granted the
16 Commission jurisdiction over regulated electric utilities in 1951, the utilities applied a
17 Commission-approved formula and placed the resulting fuel charge on customers’
18 bills. The Commission staff performed some auditing functions; however, no formal
19 public hearing was held.⁵

³ 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.

⁴ See Order No. 6357 at 2; see also Order No. PSC-11-0080-PAA-EI at 6.

⁵ Order No. PSC-11-0080-PAA-EI at 6.

1 That fuel adjustment mechanism changed in 1974 when customers became increasingly
2 concerned over increased fuel charges as a result of the Organization of Petroleum
3 Exporting Countries' ("OPEC's") oil embargo, which substantially increased the cost
4 of oil.⁶ Following an Attorney General Opinion which stated "that the practice of
5 allowing changes in the fuel adjustment charges without a public hearing was illegal
6 under Florida law...." (*See* 74 Op. Att'y. Gen. Fla. 309 (1974)), the Commission held
7 its first fuel adjustment clause hearing.⁷ At this hearing, a stipulation was approved
8 that provided for a monthly hearing for all fuel adjustment clauses.⁸ During the same
9 1974 proceeding, the Commission considered a recommendation on how to modify the
10 clause and, as an incentive for utilities to optimize fuel costs, implemented a two-month
11 lag between the filing for fuel clause recovery and the Commission's decision on cost
12 recovery.⁹

13
14 However, because the amount of work involved in reviewing the information and the
15 resulting lag time presented difficulties for the Commission, the utilities, customers,
16 and intervenor parties alike, the Commission modified the clause once again in 1980.¹⁰

17 By Order No. 9273, the Commission modified the recovery clauses to allow recovery

⁶ *Id.*; *see also* Order No. 6357 at 1.

⁷ Order No. PSC-11-0080-PAA-EI at 6.

⁸ *Id.*

⁹ *Id.*

¹⁰ 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.

1 on the projections of future fuel and fuel-related expenditures subject to a true-up
 2 hearing, during which the utilities' projected fuel expenditures were adjusted to recover
 3 only actual expenditures.¹¹

4
 5 By this Order, the PSC also modified its fuel adjustment hearings by changing the
 6 hearing schedule from once a month to every six months. In justifying its rationale,
 7 the Commission stated:

8 there are certain advantages to adoption of the six month projection
 9 (sic) period, such as overcoming the seasonal peaks and valleys which
 10 would otherwise offset (sic) the attempt to arrive at a levelized charge.
 11 We therefore find that a six month projection period should be used.¹²

12 Once adopted, these semi-annual fuel adjustment hearings were held until 1998 when
 13 the PSC changed the frequency and timing of cost recovery hearings from semi-annual
 14 to annual.¹³

15
 16 **Q. WHY DID THE COMMISSION CHANGE THE FREQUENCY OF COST**
 17 **RECOVERY HEARINGS FROM SEMI-ANNUAL TO ANNUAL?**

18 **A.** On March 17, 1998, the Commission held a workshop to receive comments from the
 19 IOUs and other interested parties regarding proposed changes to the frequency and

¹¹ 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.

¹² *See* Order No. 9273 at 6.

¹³ 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.

1 timing of the four cost recovery clauses.¹⁴ On May 19, 1998, the Commission issued
 2 Order No. PSC-98-0691-FOF-PU, which changed the frequency of fuel adjustment
 3 hearings from semi-annual to its current annual schedule. In this Order, the PSC
 4 concluded:

5 that all components of the fuel clause for all investor-owned electric
 6 utilities should be prospectively calculated and set on a twelve-month
 7 projected basis at annual hearings.¹⁵

8 Also, the Commission stated that this change was “in the public interest” for the
 9 following reasons: (1) an annual fuel hearing will reduce the number of hearings days
 10 per year reserved for the fuel clause; (2) mid-course corrections may occur less
 11 frequently; and (3) an annual factor will provide customers with more certain and stable
 12 prices. When discussing that mid-course corrections may occur less frequently as a
 13 result of annual Fuel Adjustment Clause proceedings, the Commission found that:

14 fuel prices are currently less volatile and a higher probability exists that
 15 monthly over-recoveries and under-recoveries will be offset between
 16 annual fuel clause hearings. Hence, midcourse (sic) corrections may
 17 occur less frequently than previously surmised.¹⁶

18 **Q. WHAT IS A MID-COURSE CORRECTION?**

19 **A.** A mid-course correction is a mechanism set forth by a Commission rule adopted in
 20 2010.¹⁷ This rule requires utilities to: (a) seek a mid-course correction if there is a 10%

¹⁴ Id., p. 2.

¹⁵ Id., p. 4.

¹⁶ Id.

¹⁷ Rule 25-6.0424, Florida Administrative Code. This rule codifies and describes the mechanism that had previously been established through incipient policy. See Order No. 13694, issued September 20, 1984, in Docket No. 840001-EI, In re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor; In re: Purchased Gas Cost Recovery Clause.

1 or greater over/under-recovery in fuel cost recovery or capacity cost recovery factors,
 2 or (b) explain why a mid-course correction is not practical. However, the utilities can
 3 also request a mid-course correction without reaching the 10% threshold requiring
 4 Commission notification.¹⁸

5
 6 **Q. HOW MANY MID-COURSE CORRECTIONS DID THE COMPANIES**
 7 **REQUEST DURING YOUR REVIEW PERIOD?**

8 **A.** To date, the IOUs have requested 17 mid-course corrections from 2002 to 2016.
 9 According to the IOUs' 2015 responses to OPC's discovery¹⁹ and Commission Fuel
 10 Docket filings²⁰, FPL filed 7 mid-course corrections (4 for over-recoveries and 3 for
 11 under-recoveries), Duke requested 5 (3 for over-recoveries and 2 for under-recoveries),
 12 Gulf filed 3 (2 for over-recoveries and 1 for an under-recovery), and TECO requested
 13 2 (1 for an over-recovery and 1 for an under-recovery) during that time period.²¹

¹⁸ Id.

¹⁹ See FPL's response to OPC Interrogatory No. 30; Gulf's and TECO's responses to OPC Interrogatory No. 6 in Docket No. 150001-EI, In re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor (see Exh. TN-3, pp. 1-5).

²⁰ 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. See Order No. PSC-16-0120-PCO-EI, issued March 21, 2016, in Docket No. 160001-EI, In re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor.

²¹ On July 21, 2016, TECO notified the Commission of its intent to file a mid-course correction for a projected 2016 over-recovery. However, because of the proximity to the annual Fuel Adjustment Clause proceedings and its desire to enhance rate stability, TECO proposed to postpone the implementation of this adjustment (refunds with interest) until January 2017.

1 **IV. FUEL PRICE HEDGING**

2 **Q. HAS THE COMMISSION INDICATED ITS INTENT FOR DEVELOPING A**
3 **HEDGING PROGRAM IN FLORIDA?**

4 **A. Yes. In Order No. PSC-02-1484-FOF-EI (the “2002 Hedging Order”), issued October**
5 **30, 2002, the Commission stated that:**

6 The Proposed Resolution of Issues establishes a framework and
7 direction for the Commission and the parties to follow with respect to
8 risk management for fuel procurement. It provides for the filing of
9 information in the form of risk management plans and as part of each
10 IOU’s final true-up filing in the fuel and purchased power cost recovery
11 docket, which will allow the Commission and the parties to monitor
12 each IOU’s practices and transactions in this area. In addition, it
13 maintains flexibility for each IOU to create the type of risk management
14 program for fuel procurement that it finds most appropriate while
15 allowing the Commission to retain the discretion to evaluate, and the
16 parties the opportunity to address, the prudence of such programs at the
17 appropriate time. Further, the Proposed Resolution of Issues appears to
18 remove disincentives that may currently exist for IOUs to engage in
19 hedging transactions that may create customer benefits by providing a
20 cost recovery mechanism for prudently incurred hedging transaction
21 costs, gains and losses, and incremental operating and maintenance
22 expenses associated with new and expanded hedging programs.²²

23 **Q. DID ANY MAJOR HEDGING DEVELOPMENTS TAKE PLACE IN 2008?**

24 **A. Yes. In 2008, FPL proposed to discontinue hedging and to replace it with an alternative**
25 **mechanism.²³ There was also a sharp rise in the price of natural gas in 2008, which**
26 **triggered several mid-course correction requests from the Companies for significant**
27 **under-recoveries.²⁴**

²² 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.

²³ See Petition of Florida Power & Light Company for Approval of Improved Volatility Mitigation Mechanism, filed January 31, 2008, in Docket No. 080001-EI.

²⁴ See mid-course correction filings in Docket No. 080001-EI.

1 **Q. DID THE COMMISSION MODIFY FUEL HEDGING IN FLORIDA OR**
2 **PROVIDE NEW HEDGING GUIDELINES IN RESPONSE TO THIS SHARP**
3 **RISE IN THE PRICE OF NATURAL GAS?**

4 **A.** Yes. In Order No. PSC-08-0667-PAA-EI (the “2008 Hedging Order”), issued October
5 8, 2008, the Commission established guiding principles that it recognized as
6 appropriate to follow in reviewing plans and an IOU’s hedging activities.²⁵ The first
7 two guiding principles are:

8 a. The Commission finds that the purpose of hedging is to reduce
9 the impact of volatility in the fuel adjustment charges paid by an IOU’s
10 customers, in the face of price volatility for the fuels (and fuel price-
11 indexed purchased power energy costs) that the IOU must pay in order
12 to provide electric service.

13
14 b. The Commission finds that a well-managed hedging program
15 does not involve speculation or attempting to anticipate the most
16 favorable point in time to place hedges. Its primary purpose is not to
17 reduce an IOU’s fuel costs paid over time, but rather to reduce the
18 variability or volatility in fuel costs paid by customers over time.²⁶

19 **Q. ARE YOU AWARE OF ANY ORDERS THAT HAVE MODIFIED THE**
20 **UNDERLYING BASIS FOR THE COMMISSION’S APPROVAL OF THE**
21 **UTILITY HEDGING PROGRAMS?**

22 **A.** No, I am not.

²⁵ 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.

²⁶ Order No. PSC-08-0667-PAA-EI, p. 16.

1 **Q. DO ANY OF THE HEDGING ORDERS PRECLUDE ANY PARTY FROM**
2 **PETITIONING FOR THE SUSPENSION OR TERMINATION OF THE FUEL**
3 **HEDGING PROGRAM IN FLORIDA?**

4 **A.** No, I have been advised by counsel that they do not.

5
6 **V. OBSERVATIONS**

7 **Q. PLEASE SUMMARIZE YOUR OBSERVATIONS REGARDING THE**
8 **COMPANIES' NATURAL GAS HEDGING GAINS AND LOSSES FOR THE**
9 **PERIOD FROM 2002 TO 2015.**

10 **A.** In order to ascertain the magnitude of the Companies' hedging gains or losses, I
11 reviewed the Companies' hedging true-up filings with the Commission for every year
12 from 2002 through 2015 and their relevant discovery responses. The filings consisted
13 of testimonies and exhibits, which included a summary of the Companies' hedging
14 activities and indicated whether or not the Companies achieved any gains or losses
15 related to those hedging activities. Exhibit TN-2 provides a summary of the
16 Companies' hedging true-up filings and shows that each of the IOUs experienced
17 cumulative natural gas hedging losses from 2002 to 2015, which totaled
18 \$6,113,567,924 for all four Companies.

19

20 **Q. WOULD YOU PROVIDE A SUMMARY OF THE GAINS AND LOSSES FROM**
21 **2002 TO 2015?**

22 **A.** Yes. In the first seven years of the program (2002-2008), the Companies' hedging
23 programs had combined net hedging losses of approximately \$103 million for

1 customers. Prior to the 2008 Hedging Order, the Commission's expectation was that
 2 gains and losses would generally offset one another over time.²⁷ However, during the
 3 last full seven years of the program (2009-2015), the Companies' hedging programs
 4 had combined net hedging losses of just over \$6 billion. A comparison of the
 5 cumulative IOU losses experienced during these two time periods is summarized in
 6 Table 1 below:

**Table 1 – Comparison of IOU Cumulative Natural Gas Hedging
 Gains/(Losses) From 2002-2008 and From 2009-2015**

Year	Gains/(Losses) 2002-2008	Year	Gains/(Losses) 2009-2015
2002	\$ 12,456,765	2009	\$ (2,461,263,539)
2003	\$ 5,936,365	2010	\$ (882,518,470)
2004	\$ 257,698,008	2011	\$ (694,455,607)
2005	\$ 716,864,935	2012	\$ (1,117,525,079)
2006	\$ (427,767,061)	2013	\$ (140,565,299)
2007	\$ (902,557,336)	2014	\$ 106,424,864
2008	\$ 234,055,091	2015	\$ (820,351,561)
Totals	\$ (103,313,233)	Totals	\$ (6,010,254,691)

7 **Q. WHAT HAPPENED IN 2008 AND 2009 WITH THE ECONOMY AND THE**
 8 **PRICE OF NATURAL GAS?**

9 **A.** The Great Recession started in 2008 and continued into 2009 and beyond. In response
 10 to the Great Recession and the influx of large volumes of shale gas obtained through
 11 hydraulic fracturing (i.e., “fracking”), the price of natural gas began to fall rapidly. As
 12 observed in 2008 data from the U.S. Energy Information Administration (“EIA”), the
 13 Weekly Henry Hub Natural Gas Spot Price (measured in Dollars per Million British

²⁷ Order No. PSC-08-0030-FOF-EI, issued January 8, 2008, in Docket No. 070001-EI, In re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor, p. 4.

1 thermal units (“MMBtu”) went from a high of \$13.20 on July 4, 2008 to a low of \$5.41
 2 on December 26, 2008.²⁸ The price of natural gas has continued to trend downward.²⁹
 3 The weekly price was \$3.02 as of September 16, 2016.³⁰ In 2009, the Companies
 4 started experiencing significant hedging losses once the price dropped because they
 5 had hedged or locked-in natural gas prices at the top of the market.

6

7 **Q. WHAT ARE THE COMPANIES’ 2016 ACTUAL NATURAL GAS HEDGING**
 8 **GAINS OR LOSSES FROM JANUARY 1 THROUGH JULY 31, 2016?**

9 **A.** In their discovery responses submitted in August 2016, each of the Companies reported
 10 a natural gas hedging loss from January 1 through July 31, 2016. These losses are
 11 summarized in Table 2 below:

**Table 2 – 2016 Actual Natural Gas Hedging Gains/(Losses)
 For IOUs From January 1 Through July 31, 2016³¹**

IOU	2016 Actual Natural Gas Hedging Gains/(Losses) From January 1 Through July 31, 2016
Duke	\$ (114,900,000)
FPL	\$ (190,763,980)
Gulf	\$ (37,505,696)
TECO	\$ (17,877,735)
TOTAL	\$ (361,047,411)

²⁸ Weekly Henry Hub Natural Gas Spot Price (Dollars per MMBtu) available from the EIA at: <https://www.eia.gov/dnav/ng/hist/rngwhhdW.htm>, last checked on September 23, 2016.

²⁹ Id.

³⁰ Id.

³¹ See Duke’s, Gulf’s, and TECO’s Responses to OPC Interrogatory No. 11.b.; and FPL’s Response to OPC Interrogatory No. 66.b. (see Exh. TN-3, pp. 6-26).

1 **Q. WHAT ARE THE COMPANIES' PROJECTED NATURAL GAS HEDGING**
 2 **GAINS OR LOSSES FROM AUGUST 1 THROUGH DECEMBER 31, 2016?**

3 **A.** In their discovery responses submitted in August 2016, each of the Companies
 4 projected a natural gas hedging loss from August 1 through December 31, 2016. These
 5 projected losses are summarized in Table 3 below:

**Table 3 – 2016 Projected Natural Gas Hedging Gains/(Losses)
 For IOUs From August 1 Through December 31, 2016³²**

IOU	2016 Projected Natural Gas Hedging Gains/(Losses) From August 1 Through December 31, 2016
Duke	\$ (30,600,000)
FPL	\$ (34,625,394)
Gulf	\$ (17,063,422)
TECO	\$ (583,030)
TOTAL	\$ (82,871,846)

6 **Q. WHAT ARE THE COMPANIES' PROJECTED NATURAL GAS HEDGING**
 7 **GAINS OR LOSSES FOR CALENDAR YEAR 2016?**

8 **A.** In their discovery responses submitted in August 2016, each of the Companies
 9 projected a natural gas hedging loss for calendar year 2016. These projected losses are
 10 summarized in Table 4 below:

³² See Duke's, Gulf's, and TECO's Responses to OPC Interrogatory No. 11.c.; and FPL's Response to OPC Interrogatory No. 66.c. (see Exh. TN-3, pp. 6-26).

Table 4 – Calendar Year 2016 Projected IOU Natural Gas Hedging Gains/(Losses)³³

IOU	Calendar Year 2016 Projected Natural Gas Hedging Gains/(Losses)
Duke	\$ (145,500,000)
FPL	\$ (225,389,374)
Gulf	\$ (54,569,118)
TECO	\$ (18,460,765)
TOTAL	\$ (443,919,257)

1 **Q. WHAT ARE THE COMPANIES’ PROJECTED NATURAL GAS HEDGING**
2 **GAINS OR LOSSES FOR 2017?**

3 **A.** In their discovery responses submitted in August 2016, two Companies projected
4 natural gas hedging gains and two Companies projected natural gas hedging losses for
5 2017. These projected gains and losses are summarized in Table 5 below:

Table 5 – 2017 Projected Natural Gas Hedging Gains/(Losses) For IOUs³⁴

IOU	2017 Projected Natural Gas Hedging Gains/(Losses)
Duke	\$ (25,800,000)
FPL	\$ 51,032,744
Gulf	\$ (18,000,000)
TECO	\$ 3,201,935
TOTAL	\$ 10,434,679

³³ See Duke’s, Gulf’s, and TECO’s Responses to OPC Interrogatory No. 11.a.; and FPL’s Response to OPC Interrogatory No. 66.a. (see Exh. TN-3, pp. 6-26).

³⁴ See Duke’s, Gulf’s, and TECO’s Responses to OPC Interrogatory No. 12; and FPL’s Response to OPC Interrogatory No. 67 (see Exh. TN-3, pp. 6-26).

1 **VI: CONCLUSION**

2 **Q. PLEASE SUMMARIZE YOUR CONCLUSION.**

3 **A.** My conclusion is that the facts confirm that the Companies' natural gas hedging
4 programs have resulted in losses exceeding \$6 billion for Florida customers from 2002
5 to 2015. Also, losses are currently projected to exceed \$443 million for 2016 alone. In
6 addition, even though the Companies are collectively projecting a modest gain of about
7 \$10.4 million in 2017, this projected figure is insignificant in comparison to the billions
8 of dollars of actual losses paid by IOU customers since the inception of the hedging
9 program. Further, the IOUs' current 2017 projections are simply "point-in-time
10 estimates" that are subject to change during the next 15 months.

11

12 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

13 **A.** Yes, it does.

DIRECT TESTIMONY

OF

DANIEL J. LAWTON

On Behalf of the Office of Public Counsel

Before the

Florida Public Service Commission

Docket No. 160001-EI

1 **SECTION I: INTRODUCTION / BACKGROUND / SUMMARY**

2 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

3 **A.** My name is Daniel J. Lawton. My business address is 12600 Hill Country Blvd, Suite
4 R-275, Austin, Texas 78738.

5
6 **Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND WORK
7 EXPERIENCE.**

8 **A.** I have been working in the utility consulting business as an economist since 1983.
9 Consulting engagements have included electric utility load and revenue forecasting,
10 cost of capital analyses, financial analyses, revenue requirements, fuel reviews, and
11 cost of service reviews, and rate design analyses in litigated rate proceedings before
12 federal, state and local regulatory authorities, and in court proceedings. I have worked
13 with numerous municipal utilities developing electric rate cost of service studies for
14 reviewing and setting rates, including fuel clause rates and reconciliations. In addition,
15 I have a law practice based in Austin, Texas. My main areas of legal practice include
16 administrative law representing municipalities in electric and gas rate proceedings and

1 other litigation and contract matters. I have included a brief description of my relevant
2 educational background and professional work experience in my Exhibit ____ (DJL-
3 1).

4

5 **Q. HAVE YOU PREVIOUSLY FILED TESTIMONY IN UTILITY RATE**
6 **PROCEEDINGS?**

7 **A.** Yes. I have previously filed testimony in Florida and a number of jurisdictions across
8 the country. A list of cases where I have previously filed testimony is included in my
9 Exhibit ____ (DJL-1).

10

11 **Q. ON WHOSE BEHALF ARE YOU FILING TESTIMONY IN THIS**
12 **PROCEEDING?**

13 **A.** I am providing analyses and testimony related to fuel hedging on behalf of the Office
14 of Public Counsel, State of Florida (“OPC”). I will review the Florida Power & Light
15 Company (“FPL”), Tampa Electric Company (“TECO”), Duke Energy Florida (“DEF”),
16 and Gulf Power Company (“Gulf”) collectively (“the Companies”) annual fuel cost
17 recovery filings related to fuel cost hedging.

18

19 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?**

20 **A.** The purpose of my testimony in this proceeding is to update hedging impacts on
21 customers and update gas market information as such information relates to hedging
22 needs, since my testimony in the last fuel case, Docket No. 150001-EI. In addition, I
23 address how gas-dependent utilities establish fuel factors without hedging. I update the
24 impacts of the Companies’ hedging programs on consumers and the potential impacts

1 on consumers, assuming the 2017 Risk Management Plans are approved by the Florida
2 Public Service Commission ("Commission"). Another OPC witness, Tarik Noriega,
3 will quantify the updated historical impacts of hedging on consumers.
4

5 **Q. WHAT MATERIALS DID YOU REVIEW AND RELY ON FOR THIS**
6 **TESTIMONY?**

7 **A.** I have reviewed prior rate orders of the Commission, the Companies' various filings in
8 Docket No. 160001-EI, the Companies' filings in prior dockets, discovery responses to
9 requests in this proceeding, along with other information available in the public
10 domain. When relying on various sources, I have referenced such sources in my
11 testimony and/or attached Exhibits and included copies or summaries in my attached
12 Exhibits and/or work papers.
13

14 **Q. PLEASE SUMMARIZE YOUR CONCLUSIONS REGARDING THE**
15 **REASONABLENESS OF CONTINUED FINANCIAL HEDGING.**

16 **A.** My analysis leads me to conclude that the overall costs of the natural gas financial
17 hedging programs continue to exceed the benefits to consumers. Since the last fuel
18 case, Docket No. 150001-EI, gas market supply and demand have remained stable and
19 natural gas prices have remained low and steady. Hedging costs to consumers continue
20 to mount, now exceeding \$6.5 billion since 2002, while hedging benefits (reduced
21 volatility) appear small at best. The hedging programs in Florida continue to provide
22 benefits for Florida utility shareholders in terms of reduced liquidity risk, all at the
23 expense of consumer fuel cost increases. As discussed in my testimony in Docket No.
24 150001-EI, utility companies around the country continue to reduce financial hedging

1 in light of the changes in the natural gas markets. There are alternatives available to
2 establish the fuel factor which recognize gas market price changes without the added
3 risk of enormous and continued hedging losses. Therefore, I respectfully recommend
4 that, on a prospective basis, the Commission consider ending natural gas hedging
5 activities as a mechanism to limit gas (fuel) price volatility, and that the Commission
6 deny the 2017 Risk Management Plans proposed by the Companies regarding future
7 financial hedging proposals. In summary:

8
9 1. There is significant doubt as to the benefits of fuel hedging given the
10 continued low prices and stable production and demand forces in natural gas
11 markets, versus the historical, ongoing, and potential future financial hedging
12 costs to consumers;

13
14 2. Natural gas markets in terms of gas production and market supply have
15 changed substantially in recent years, reducing the probability and extent of
16 significant supply-side market disruptions and also reducing natural gas price
17 volatility relative to past years;

18
19 3. Regulatory authorities are recognizing the limitations of financial hedging
20 in the changed natural gas markets; and

21
22 4. The current fuel factor design and mid-course correction mechanism in
23 Florida already mitigates fuel cost volatility without the need and cost risk of
24 financial hedging.

1 **Q. PLEASE PROVIDE A BRIEF SUMMARY OF YOUR CONCLUSIONS.**

2 **A. Since the time financial hedging was first implemented in Florida to address fuel and**
3 **natural gas price volatility, annual gas production has grown dramatically and available**
4 **gas reserves are well beyond forecasted levels from even ten years ago. As a result,**
5 **price levels have declined substantially and price volatility is substantially reduced**
6 **from past levels. Since September 2015 when I filed testimony in the last year's docket,**
7 **the average monthly natural gas prices are lower than prior years and have remained**
8 **stable. Yet, over that same period, the Companies have continued to generate**
9 **substantial hedging losses, which are passed on to consumers in the form of higher fuel**
10 **costs.**

11

12 **Moreover, current forecasts of gas market prices indicate stable gas prices in the near-**
13 **term, mid-term, and longer-term time horizon. Current market forecasts for natural gas**
14 **all indicate that natural gas prices and markets are more stable, and the facts and**
15 **circumstances that once supported natural gas hedging as a tool to limit price volatility**
16 **affecting customers are no longer present. Further, there are available, transparent,**
17 **cost-free opportunities to limit price volatility impacts while factoring in future**
18 **expectations in the gas market prices through the fuel adjustment clause without**
19 **financial hedging. Given the enormous lost-opportunity costs experienced by**
20 **consumers in terms of overall fuel costs, and the potential for additional lost**
21 **opportunities for lower gas costs under the past hedging and risk management plans,**
22 **financial hedging of natural gas should be ended at this time.**

1 For all the above reasons, I recommend that the Commission deny the 2017 Risk
2 Management Plans submitted by the Florida Companies as it relates to the hedging of
3 natural gas.

4

5 **SECTION II: SUMMARY OF ISSUES ADDRESSED**

6 **Q. WHAT ISSUES DO YOU ADDRESS WITH REGARD TO THE FLORIDA**
7 **COMPANIES' PROPOSALS TO CONTINUE HEDGING NATURAL GAS**
8 **PURCHASES THROUGH THE PROPOSED 2017 RISK MANAGEMENT**
9 **PLANS?**

10 **A.** As a starting point, I first provide a brief summary of my findings and analyses of the
11 hedging issue from Docket No. 150001-EI. Second, I address the changes that have
12 occurred since the last fuel proceeding. These changes entail a review of historical
13 natural gas prices since the last proceeding, and the hedging impact on consumers' fuel
14 prices since the last fuel docket. The third area I analyze is the current forecast of gas
15 markets and current expectations of future gas prices and volatility. The fourth section
16 of my analysis is an update of my 2015 analysis given current market data and forecasts.
17 Lastly, I address alternatives that eliminate hedging costs and provide protection from
18 gas price volatility.

19

20 **SECTION III: DOCKET NO. 150001-EI HEDGING ANALYSIS**

21 **Q. PLEASE SUMMARIZE YOUR CONCLUSIONS AND RECOMMENDATIONS**
22 **RELATED TO FINANCIAL HEDGING IN DOCKET NO. 150001-EI.**

23 **A.** The starting point of my analysis in this proceeding is my testimony and exhibits from
24 Docket No. 150001-EI. I have included that testimony in my Exhibit ___ (DJI-2) and

1 incorporate that testimony by reference. As shown in Exhibit ___ (DJL-2), my analyses
2 in Docket No. 150001-EI resulted in the following conclusions and recommendations:

- 3 1. There is significant doubt as to the benefits of fuel hedging given the
4 historical, ongoing, and potential financial costs to consumers;
5
- 6 2. From 2009 to 2014, significant hedging losses were experienced in
7 five of the six years; and current estimates by the Companies indicate
8 2015 to be another year of hedging losses, making it six out of the last
9 seven years with hedging losses;
10
- 11 3. The amount of hedging losses or “costs” passed on to consumers in
12 the form of higher-than-market price fuel costs has been substantial with
13 hedging costs (or higher-than-market fuel costs) amounting to a
14 staggering \$2.5 billion between 2011 and the estimated 2015-year;
15
- 16 4. Natural gas markets in terms of gas production and market supply
17 have changed substantially in recent years reducing the probability and
18 extent of significant supply-side market disruption and also reducing
19 natural gas price volatility relative to past years;
20
- 21 5. Regulatory authorities are recognizing the limitations of financial
22 hedging in the changed natural gas markets; and
- 23 6. The current fuel factor design and mechanism in Florida already
24 adequately mitigates fuel cost volatility without the need and cost risk
25 of financial hedging.¹

26 **Q. DID YOU PROVIDE A BRIEF SUMMARY OF YOUR CONCLUSIONS IN**
27 **DOCKET NO. 150001-EI?**

28 **A.** Yes, my summary was as follows:

29 Since the early 2000 time period, when gas markets experienced
30 substantial volatility and price spikes for natural gas due to
31 supply constraints along with adverse weather impacting natural
32 gas demand, market conditions particularly the supply of natural
33 gas have changed substantially. Annual gas production has
34 grown dramatically and available gas reserves are well beyond
35 forecasted levels from even ten years ago. As a result, price
36 levels have declined substantially and price volatility is
37 substantially reduced from past levels. Moreover, current

¹ See Direct Testimony Daniel J. Lawton, Docket No. 150001-EI at Page 4.

1 forecasts of gas market prices indicate stable gas prices in the
 2 near-term, mid-term, and longer-term time horizon. The recent
 3 market experience since 2011 and the current market forecasts
 4 for natural gas all indicate that volatility is declining, natural gas
 5 prices are more stable, and the facts and circumstances that once
 6 supported natural gas hedging as a tool to limit price volatility
 7 are no longer present. Further, there are available, transparent,
 8 cost-free opportunities to limit price volatility impacts on
 9 consumers going forward through the fuel adjustment clause.
 10 Given the enormous lost-opportunity costs experienced by
 11 consumers in terms of overall fuel costs, and the potential for
 12 additional lost opportunities for lower gas costs under the status
 13 quo hedging and risk management plans, financial hedging of
 14 natural gas should be ended at this time.²

15 Since the last fuel proceeding, all these recommendations and conclusions remain valid.

16 As I discuss in detail below: hedging costs continue at high levels to the detriment of
 17 consumers,³ gas prices remain low and stable, gas market production remains strong
 18 and stable, gas market projections (short and long-term) remain steady and strong, and
 19 many regulatory authorities continue to employ fuel factor approaches without the risks
 20 of financial hedging.

21
 22 **SECTION IV: RECENT AND FUTURE NATURAL GAS PRICES AND MARKET**
 23 **EXPECTATIONS**

24 **Q. HAVE YOU REVIEWED NATURAL GAS PRICES SINCE THE LAST FUEL**
 25 **PROCEEDING IN DOCKET NO. 150001-EI?**

26 **A. Yes. In the last case, the data in my analysis ended in July 2015. The average monthly**
 27 **gas price at July 2015 was \$2.84/MMBtu.⁴ Since July 2015, natural gas prices have**
 28 **generally been below \$2.84 for most months. I have included monthly average gas**

² See Direct Testimony Daniel J. Lawton, Docket No. 150001-EI at Page 5.

³ See Direct Testimony of Tarik Noriega.

⁴ See Exhibit ___ (DJI-2).

1 prices and a graph of the historical prices in my Exhibit ___ (DJI-3). These lower gas
2 prices are consistent with the stable market conditions in both natural gas supply and
3 demand that has existed and continues to be forecast well into the future. Further, these
4 lower gas prices are well within the range of the Energy Information Agency (EIA)
5 forecasts.

6
7 The average natural gas price in 2015 was \$2.63/MMBtu while the average natural gas
8 price decreased in 2016 to \$2.26/MMBtu.⁵ Thus, on average, prices in the past 12
9 months have been lower than the previous 12 months. At this time, September 22,
10 2016, natural gas spot prices have increased to around \$3.00/MMBtu.⁶ Yet, the
11 Companies continue to hedge and are losing substantial dollars to the detriment of
12 consumers. Natural gas price volatility was not a problem last year or in recent prior
13 years.

14
15 **Q. WHAT DO THE CURRENT GAS MARKET FORECASTS INDICATE**
16 **REGARDING FUTURE NATURAL GAS PRICES, AND MARKET SUPPLY**
17 **AND DEMAND?**

18 **A.** Based on the September 7, 2016 EIA Short-Term Energy Outlook, current natural gas
19 inventories are in excess of 3,400 billion cubic feet (Bcf), which is higher than last year
20 and the most recent five-year average levels of gas inventories.⁷ One key reason for

⁵ The average monthly price for 2016 for January through August 2016 is \$2.26/MMBtu, using the Henry Hub Natural Gas Spot Price (Dollars per Million Btu), data available at <https://www.eia.gov/dnav/ng/hist/rngwhhdM.htm>, last checked September 22, 2016.

⁶ <https://finance.yahoo.com/quote/ng=f>, last checked September 22, 2016.

⁷ U.S. Energy Information Administration, Short-Term Energy Outlook (EIA STEO), September 7, 2016 at 1, available at <http://www.eia.gov/forecasts/steo/>.

1 such high inventory levels is the warmer than normal weather last winter which left
2 inventories at record-high levels.⁸

3
4 Natural gas demand is projected to be 77.1 Bcf/d in 2017. This compares to natural
5 gas demand of 75.2 Bcf/d in 2015 and 76.4 Bcf/d in 2016.⁹ Such natural gas demand
6 growth is consistent with the relative growth in Gross Domestic Product (GDP). On
7 the supply or production side of the gas markets, June 2016 marketed production
8 averaged 77.5 Bcf/d. EIA projects that production levels will grow by 3.0% in 2017.¹⁰
9 In addition, EIA now projects that the U.S. will become a net natural gas exporter by
10 the second quarter of 2017.¹¹

11
12 As to expectations and estimates of natural gas prices, “EIA expects natural gas prices
13 to gradually rise through the forecast period. Forecast Henry Hub prices average
14 \$2.42/MMBtu in 2016 and \$2.87/MMBtu in 2017.”¹²

15
16 Overall, the current EIA Short-Term Outlook predicts slow natural gas market demand
17 growth, more than adequate supply to meet any growth, and continuation of low stable
18 natural gas prices over the short-run forecast, which is a good thing for customers of

⁸ EIA STEO, September 7, 2016 at 6.

⁹ EIA STEO, September 7, 2016 at 7.

¹⁰ EIA STEO, September 7, 2016 at 7.

¹¹ EIA STEO, September 7, 2016 at 7.

¹² EIA STEO, September 7, 2016 at 7.

1 utilities highly dependent on natural gas for generating electricity. It would be even
2 better if those Companies did not attempt to financially hedge natural gas.

3

4 **Q. HAVE YOU REVIEWED EIA'S CURRENT LONG-TERM NATURAL GAS**
5 **MARKET FORECAST?**

6 **A.** Yes. The long-term forecast through 2040 shows a stable supply and demand in natural
7 gas markets. The projection of real price changes indicate a 2.5% growth in prices for
8 natural gas over the long-term horizon. One of the key takeaways from the 2016 long-
9 term forecast is that “[n]atural gas production increases despite relatively low and
10 stable gas prices.”¹³ The bottom line is that the U.S. is expected to be a net exporter of
11 natural gas. The amount of exports will be influenced by foreign prices for natural gas.
12 Domestic production is also expected to increase with domestic prices remaining low
13 and stable. Price volatility is not expected to be an issue, meaning financial hedging
14 will provide less benefits, if any benefit at all, based on current forecasts.

15

16 **Q. DURING THE RECENT PERIOD OF LOW, STEADY GAS PRICES AND**
17 **MARKET CONDITIONS, HAVE THE FLORIDA UTILITY FINANCIAL**
18 **HEDGING PROGRAMS CONTINUED LOSING MONEY?**

19 **A.** Yes. Based on information provided by OPC witness Noriega who addresses this issue,
20 the cumulative financial hedging loss in 2015 was over \$820 million. The actual 2016
21 financial hedging losses through July 31, 2016 are approximately \$361 million and
22 projections indicate another \$82.9 million of financial hedging losses for the remainder

¹³ See U.S. EIA Annual Energy Outlook, Key takeaways from AEO 2016 at 2, available at www.eia.gov/pressroom/presentations/sieminski_06282016.pdf.

1 of 2016.¹⁴ These levels of financial hedging losses when added to prior financial
2 hedging losses amount to approximately \$6.557 billion for the Florida utility hedging
3 activities since 2002.¹⁵ This is not good, especially in light of projections for less
4 volatility and steady gas prices. While one might expect small hedging losses
5 analogous to an insurance premium given financial hedging programs are in place to
6 insure against price volatility, \$6.6 billion in losses is well beyond any insurance
7 premium. Moreover, the mounting losses may only get worse.

8

9 **Q. WHAT ABOUT THE PROJECTED 2017 HEDGING GAINS FOR FPL AND**
10 **TECO – SHOULDN'T THE COMMISSION GIVE NATURAL GAS HEDGING**
11 **A FEW MORE YEARS TO ALLOW COMPANIES TO RECOUP SOME OF**
12 **THEIR LOSSES?**

13 **A.** No. The gains are based on the most current forecasts the Companies utilize. Right
14 now, the forecasts may show gains for FPL and TECO. But if gas prices continue to
15 stay at or near current levels, this may affect the size of FPL and TECO's currently
16 projected gains.

17

18 **SECTION V: FINANCIAL HEDGING AND VOLATILITY**

19 **Q. IN YOUR OPINION, IS FINANCIAL HEDGING NECESSARY TO LIMIT**
20 **VOLATILITY?**

21 **A.** No. I addressed the issue of volatility in natural gas prices last year and this analysis
22 can be found in my Exhibit ___ (DJL-2). Given the current long-term EIA projections

¹⁴ See Exhibit ___ (DJL-4).

¹⁵ See Exhibit ___ (DJL-4).

1 of low and steady natural gas market supply and demand balance and steady natural
2 gas market prices, volatility is no longer the concern it once was when Florida utilities
3 started hedging natural gas. Thus, the markets (supply and demand balances) are
4 addressing gas price volatility making financial hedging less valuable. Moreover, so
5 long as the volatility in the price of natural gas does not exceed the 10% threshold for
6 triggering a mid-course correction to the fuel factor, customers will not experience any
7 of the volatility inherent in the natural gas markets.

8

9 **Q. DO UTILITY SHAREHOLDERS BENEFIT FROM FINANCIAL HEDGING**
10 **PROGRAMS?**

11 **A.** Yes. When financial hedging is employed, shareholder liquidity risks are reduced. By
12 locking in natural gas prices through financial hedging and using those locked-in prices
13 in setting the fuel factor, fuel costs on the financially hedged gas purchases are
14 recovered in a timely manner. The non-hedged purchases may or may not be recovered
15 on a current basis. For example, assume gas prices are higher than originally projected
16 in the development of the fuel factor. This will result in a fuel cost under-recovery.
17 While the utility will eventually recover the costs (absent a disallowance for
18 extraordinary reasons), such cost recovery may take a year or more. Given that fuel
19 purchases must be paid for currently, the mismatch between gas purchase and gas cost
20 recovery on unhedged gas purchases can cause cash recovery timing or liquidity issues.
21 Liquidity risks are risks that impact shareholder return risks and these risks are reduced
22 when fuel costs are hedged. That is why the Companies have an incentive to continue
23 hedging, even when it makes no financial sense to do so from the customers'
24 perspective.

1 The liquidity risk issue, in the context of hedging, was addressed recently by FPL
2 witness Dewhurst in a recent deposition related to FPL's base rate case, Docket No.
3 160021-EI.¹⁶ The bottom line is that shareholders benefit from fuel hedging in terms
4 of liquidity risk reductions which has cost customers over \$6.5 billion since 2002.

5

6 **Q. DO THE CUSTOMERS RECEIVE SOME BENEFIT FROM FUEL HEDGING?**

7 **A.** The design of most hedging programs are to benefit customers by insulating them from
8 large changes in fuel prices which can impact customer bills. While fuel hedging is
9 not designed to lower prices or beat the market, because beating the market is not
10 possible in the long-term, hedging can stabilize prices to avoid the immediate impacts
11 of large price spikes. Examples of large natural gas price spikes can be found between
12 2000 and 2008 in the U.S. gas markets.

13

14 The issue now is whether continued financial hedging is beneficial to customers in light
15 of changed natural gas markets, stable gas price forecasts, and mounting hedging
16 losses. The answer to that question is no – financial hedging is not currently beneficial
17 to customers. For example, last year, in Docket No. 150001-EI, FPL attempted to show
18 hedging benefits to customers in the rebuttal testimony of witness Yupp, by asserting
19 fewer mid-course fuel cost corrections are required when fuel hedging is employed.¹⁷ I
20 have included Mr. Yupp's analysis in my Exhibit ___ (DJL-6). What his analysis
21 shows is that most of the mid-course corrections would have resulted in customer

¹⁶ See Deposition of Moray Dewhurst in Docket No. 160021-EI (August 4, 2016) at pages 16-18. See Exhibit ___ (DJL-5).

¹⁷ See Docket No. 150001-EI Rebuttal testimony FPL witness Yupp at Exhibit GJY-7.

1 refunds. Customer fuel cost refunds, even when requiring a mid-course correction, are
 2 not a volatility problem. Moreover, since 2010 when gas markets substantially changed
 3 due to increased shale development, only in 2014 would a mid-course correction have
 4 been required for a fuel price increase. Given that FPL's hedging costs since 2010
 5 exceed \$2.1 billion,¹⁸ it appears that the hedging costs greatly exceeded the hedging
 6 benefits. Similarly, the customers of the other Companies may have enjoyed fewer
 7 mid-course corrections since 2010 as a result of hedging, but at what cost? The answer
 8 is approximately \$1.76 billion to potentially avoid relatively few mid-course
 9 corrections.

10

11 **Q. ARE THERE OTHER EXAMPLES OF HEDGING COSTS EXCEEDING**
 12 **CUSTOMER BENEFITS?**

13 **A.** Yes. One example can be found in the Tampa Electric Company ("TECO") response
 14 to OPC's Third Set of Interrogatories No. 20, where TECO attempts to demonstrate
 15 volatility mitigating hedging benefits to customers. I have included part of that
 16 response showing 2015 actual gas prices versus TECO's hedged gas purchases in the
 17 following table:

MONTH	2015 NYMEX GAS PRICES \$/MMBtu at HENRY HUB	2015 TECO HEDGED NATURAL GAS PRICES \$/MMBtu
JANUARY	\$3.189	\$4.285
FEBRUARY	\$2.866	\$4.386

¹⁸ See Exhibit ____ (DJL-4).

MARCH	\$2.894	\$4.154
APRIL	\$2.590	\$3.745
MAY	\$2.517	\$3.676
JUNE	\$2.815	\$3.725
JULY	\$2.773	\$3.743
AUGUST	\$2.886	\$3.680
SEPTEMBER	\$2.638	\$3.673
OCTOBER	\$2.563	\$3.646
NOVEMBER	\$2.033	\$3.801
DECEMBER	\$2.206	\$3.861
AVERAGE	\$2.664	\$3.865
STANDARD DEVIATION	\$.303	\$.248

1 The above table demonstrates that the 2015 actual prices were lower than the TECO
2 hedged purchases in each month of 2015. The average Henry Hub gas price in 2015
3 was \$2.664/MMBtu while TECO's hedged gas price in 2015 was \$3.865/MMBtu. But,
4 TECO asserts that the variability in gas prices were reduced through the hedging plan
5 as evidenced through the lower standard deviation for the hedged prices. While
6 TECO's statement concerning the standard deviation metric is correct, TECO never
7 mentions the cost of the hedging activities. The 2015 TECO hedging cost to consumers

1 is about \$39.8 million (See Exhibit ___ (DJI-4). These costs substantially exceeded
 2 the hedging benefits in 2015 for TECO's customers. Again, in a period of stable gas
 3 markets and low prices, financial hedging of natural gas has become a burden on
 4 consumers.

5
 6 **SECTION VI: FINANCIAL HEDGING ALTERNATIVES**

7 **Q. HOW DO UTILITY COMPANIES SET FUEL FACTORS WHEN FINANCIAL**
 8 **HEDGING IS NOT EMPLOYED?**

9 **A.** One example is Entergy Texas, Inc. ("ETI"), a vertically integrated utility in Texas with
 10 a high level of gas generation and no financial hedging. ETI calculates the fixed fuel
 11 factor twice a year in March and September. The fuel factor process is set up as a
 12 simplified, transparent proceeding. The overall process of setting the semi-annual fuel
 13 factor is accomplished in nine simple steps as follows:

- 14 1. Total actual fuel costs for the prior 12 months is calculated.
- 15 2. Coal and Nuclear Fuel costs are subtracted from the Line 1 Total.
- 16 3. The result is the fuel factor expense without coal and nuclear.
- 17 4. A projected Market Factor is calculated based on the percent change in the
 18 market cost of gas.

19 **4a.** The Market Factor is calculated employing the following formula:

20 **(Simple Average of the Henry Hub Natural Gas Prices For The Next 12 Months) / (Actual**
 21 **Henry Hub Prices For The Most Recent 12 Months)**

22 The Market Factor employs the Annual average monthly
 23 NYMEX Henry Hub settlement prices from the Wall Street
 24 Journal for the next 12 months. This annual average is
 25 calculated for each of the first 10 business days of the month
 26 preceding the fuel factor change. This calculation takes into
 27 account current and future natural gas market conditions and
 28 prices. As stated earlier, the denominator of the Market Factor
 29 calculation reflects the average of the recent actual Henry Hub
 30 prices. The resulting ratio or Market Factor is then used to adjust

1 gas costs up or down depending on Market Factor results. Thus,
2 current and expected natural gas market conditions are
3 reflected in the fuel factor without the need for financial
4 hedging.

- 5 5. Step 5 multiplies the Market Factor calculated in Step 4 times the gas costs
- 6 calculated in Step 3.
- 7 6. The non-gas costs calculated in Step 2 are now added back into the Market
- 8 Factor adjusted gas costs calculated in Step 5.
- 9 7. The result of the sum of Step 6 and 5 is the total fuel factor expense to be
- 10 collected.
- 11 8. Actual billing determinants are calculated.
- 12 9. The ratio of Step 7 to Step 8 is the resulting unit fuel factor.

13 I have included a three-page summary of ETI’s most recent fuel factor calculation in
14 Exhibit ___ (DJL-7).

15

16 **Q. COULD A SIMILAR FUEL FACTOR APPROACH BE EMPLOYED FOR THE**
17 **FLORIDA UTILITY COMPANIES?**

18 **A.** Yes. While adjustments may be required for annual versus semi-annual recognition of
19 other cost items included in the Florida fuel factor, such a model could be developed
20 to recognize market changes in gas costs without the need for financial hedging.

21

22 **Q. HOW DOES THE ETI FUEL FACTOR COMPARE TO THAT OF THE**
23 **FLORIDA COMPANIES’ FUEL FACTOR?**

24 **A.** The current ETI fuel factor is \$.034798 per Kwh before line loss adjustments. The
25 most recent fuel factor decision for Florida Companies in 2016 is as follows:¹⁹

- 26 1. FPL \$.02837/Kwh (June – December 2016);
- 27 2. Duke \$.03677/Kwh;
- 28 3. Gulf \$.03650/Kwh; and
- 29 4. TECO \$.03671/Kwh.

¹⁹ Order No. PSC-15-0586-FOF-EI, issued December 23, 2015, in Docket No. 150001-EI.

1 The ETI fuel factor calculation without hedging is within the range of the factors
2 calculated for the Florida fuel factors with hedging. The major difference is that ETI
3 customers have no risk of suffering hedging losses, while history shows Florida
4 customers have a high probability of continued and mounting hedging losses if hedging
5 is allowed to continue unabated.

6

7 **Q. ARE YOU RECOMMENDING THAT THE COMMISSION ADOPT AN**
8 **ALTERNATIVE FUEL MECHANISM?**

9 **A.** No. I am recommending that the Commission deny approval of the Companies' 2017
10 Risk Management Plans, and order the Companies to discontinue the financial hedging
11 of natural gas. I present the alternative fuel mechanism to demonstrate that financial
12 hedging is not necessary, even for utility companies that are highly dependent on
13 natural gas.

14

15 **Q. IN YOUR OPINION, HAS THE NATURAL GAS MARKET'S CONTINUED**
16 **STEADY AND STABLE PERFORMANCE AND THE EIA FORECASTS FOR**
17 **CONTINUED LOW AND STABLE NATURAL GAS PRICES CREATED A**
18 **REASONABLE BASIS TO RECONSIDER FINANCIAL HEDGING?**

19 **A.** Yes. As outlined in my testimony in Docket No. 150001-EI, and as I discuss above,
20 the natural gas markets have changed substantially over the past few years. The recent
21 and current EIA forecasts show that natural gas production has substantially increased,
22 forward estimates of natural gas prices have become more stable, and price volatility
23 has declined. As discussed in my testimony in Docket No. 150001-EI, based on these
24 factors, some regulatory authorities and utilities have concluded financial hedging is

1 no longer necessary and, moreover, is no longer worth the risks or costs associated with
2 financial hedging. For all of the above reasons, I recommend that the Companies'
3 proposed financial hedging plans not be approved on a going-forward basis. If
4 circumstances change substantially, hedging can be revisited again in the future.

5

6 **Q. DOES THIS CONCLUDE YOUR TESTIMONY?**

7 **A.** Yes, it does.

DUKE ENERGY FLORIDA**DOCKET NO. 160001-EI****REBUTTAL TESTIMONY OF
JOSEPH MCCALLISTER****September 30, 2016**1 **I. INTRODUCTION AND QUALIFICATIONS**2 **Q. Please state your name and business address.**3 A. My name is Joseph McCallister. My business address is 526 South Church Street,
4 Charlotte, North Carolina 28202.5
6 **Q. Have you previously filed testimony in this docket?**

7 A. Yes, I filed direct testimony on April 6, 2016 and August 18, 2016.

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

11 A. Yes.

12
13 **II. PURPOSE AND SUMMARY OF TESTIMONY.**14 **Q. What is the purpose of your testimony?**15 A. The purpose of my testimony is to provide rebuttal to, and additional context regarding,
16 the September 23, 2016, direct testimonies of Staff's witnesses Mr. Michael Gettings and

1 Mr. Mark Ciccheti, and the Office of Public Counsel’s (“OPC”) witness Mr. Daniel
2 Lawton.

3

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

5 A. Mr. Gettings’ testimony summarizes a hedging definition and framework that represents
6 a departure from this Commission’s existing hedging policy, definition, and objectives.
7 If the Commission decides to adopt in full or in part the concepts included in Mr.
8 Gettings’ testimony, the Company will comply with the Commission’s directive and look
9 at amending its hedging parameters on a prospective basis to provide natural gas cost risk
10 mitigation while further attempting to minimize hedge costs utilizing risk parameters
11 developed from those concepts. However, to accomplish this the Company believes
12 more information and a workshop forum are needed to ensure a full understanding of the
13 concepts and requirements, to ensure any updated hedging program parameters and
14 reporting are consistent with any amended or new policies, and provide time for
15 implementation. In addition, the form and content of future Commission reviews of any
16 new or amended hedging program parameters need to be more fully developed and
17 understood. Mr. Ciccheti endorses Mr. Gettings’ proposal and provides a
18 recommendation regarding the timeline for implementation, and therefore the same
19 points above are applicable to his testimony. I also clarify one statement in Mr.
20 Ciccheti’s testimony. Lastly, I provide an observation on the testimony of Mr. Lawton.

21

22 **Q. Are you sponsoring any exhibits to your testimony?**

23 A. No.

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

III. REBUTTAL TESTIMONY.

Q. Please discuss the organization of your rebuttal testimony.

A. My rebuttal testimony will focus on three overall topics: First, Mr. Gettings’ proposal, endorsed by Mr. Cicchetti, represents a shift away from this Commission’s existing policy and goals for the approved hedging programs. Second, further details and analysis are needed to develop specific updated hedging parameters and approaches as outlined in Mr. Gettings’ summary testimony to ensure the hedging parameters, execution activities, and any additional required reporting are consistent with the Commission’s desired approach and are reviewed and approved prior to implementation. Third, given the current status of its hedging activities for 2017, the Company believes any prospective changes to hedging activities should occur beginning no sooner than the submittal of the 2018 Risk Management Plan. This will allow time for the Company to work collaboratively with the parties to further develop, review, and submit any necessary updates to its existing, approved Risk Management Plan.

Q. Do the policy and objectives outlined in Mr. Gettings’ proposal match the Commission’s current hedging policy and objectives as outlined in its previous orders?

A. No. The policy and objectives as summarized in Mr. Gettings’ proposed approach represent a shift away from current Commission policy and objectives. In Order No. PSC-08-0667-PAA-EI, Attachment A, page 2 of 3, the Commission recognized appropriate guiding principles for hedging practices, including:

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

- a. The Commission finds that the purpose of hedging is to reduce the impact of volatility in the fuel adjustment charges paid by an IOU’s customers, in the face of price volatility for the fuels (and fuel price-indexed purchase power energy costs) that the IOU must pay in order to provide electric service.
- b. The Commission finds that a well-managed hedging program does not involve speculation or attempting to anticipate the most favorable point in time to place hedges. Its primary purpose is not to reduce an IOU’s fuel costs paid over time, but rather to reduce the variability or volatility in fuel costs paid by customers over time.
- c. The Commission endorses the goal of controlling volatility of fuel adjustment charges and finds that hedging is a useful tool for this purpose.
- d. The Commission acknowledges that hedging can result in significant lost opportunities for savings in the costs to be paid by customers, if fuel prices actually settle at lower levels than at the time that hedges were placed. The Commission recognizes this as a reasonable trade-off for reducing customers’ exposure to fuel cost increases that would result if fuel prices actually settle at higher levels than when the hedges were placed. The Commission does not expect an IOU to predict or speculate on whether markets will ultimately rise or fall and actually settle higher or lower than the price levels that existed at the time hedges were put into place.

1 In comparison, Mr. Gettings summarizes “[t]he purpose of hedging is to minimize
2 customer pain associated with energy-price (or customer-cost) increases[.]” and further
3 “[i]t is self-evident that the primary reason for hedging is to mitigate upside cost
4 exposures, and the potential for hedge losses is an associated consequence which needs
5 to be managed as well.” (Gettings, p. 4, ll. 20-21 & p. 7, ll. 9-11). Therefore, the
6 purpose or reason for hedging provided by Mr. Gettings is in conflict with the current
7 policy.

8
9 DEF has designed and operated its existing, approved fuel-cost risk management
10 activities to comply with the Commission’s guidelines expressed in Order No. 08-0667,
11 and this Commission has found DEF’s hedging activities to be prudent towards achieving
12 those goals. While the Commission retains its authority to alter its policies as it deems
13 appropriate, a shift such as proposed by Mr. Gettings would redefine the current policy.
14 In addition, specific risk, price, and/or cost parameters will need to be established to
15 ensure the Company is operating within any new definition and policy that, if approved
16 by the Commission, would include minimizing gas hedge costs while providing upside
17 gas cost risk mitigation as a hedging program objective.

18
19 **Q. On the second topic, can you elaborate on why the Company needs further details**
20 **of Mr. Gettings’ approach and assumptions?**

21 A. Yes. If the Commission desires to adopt in whole or in part the policies, strategies, and
22 concepts provided by Mr. Gettings, the Company will work with the Commission, staff,
23 and other parties to develop specific updated hedging parameters and approaches to

1 ensure the resulting updated risk management plans, execution activities, and any
2 required reporting are consistent with the Commission's desired approach to allow for
3 review and approval prior to implementation.

4
5 However, additional details and clarifications are necessary because the proposal as it
6 appears in Mr. Gettings' testimony does not provide the specificity necessary to guide
7 development of a workable hedging program. To establish an updated hedging plan that
8 follows a new hedging policy and definition utilizing concepts outlined by Mr. Gettings,
9 the Company believes clear risk and hedging parameters need to be vetted and
10 established up front to ensure understanding before execution approaches are altered.

11
12 To provide some illustrative questions requiring further clarification on approach and
13 regulatory reviews, the Company would need direction on items such as what minimal
14 percentage of "programmatic hedges" would be accepted and for what term? Would all
15 of the companies be expected have the same percentage level of programmatic hedges?
16 For the risk metrics proposed, is there a preferred method to be used for performing the
17 underlying VAR calculations and is the Company to use a certain holding period and
18 confidence interval to calculate the metrics outlined, or is that left to the Company's
19 discretion? Using these risk metrics, if the Company determines a certain upside price
20 level becomes a new hedging price target, who determines if this is a prudent price level
21 to establish a defensive hedging strategy trigger? Does this price level need to be
22 reviewed and approved by the Commission before it is implemented? What hedge-cost
23 projections or hedge-cost actuals would trigger the Company to execute a prudent,

1 Commission-approved contingent hedge strategy response, possibly involving selling
2 previously executed programmatic and defensive hedges and possibly repeating the
3 buying and selling of hedges in this manner as prices and volatility continue to adjust?
4 Because changes in the relative prices of gas, coal, and power prices, as well as load
5 forecast, can impact periodic gas burn projections used to monitor hedge percentages at
6 any given point in time, would other analyses of these factors also be required with
7 respect to impacts on overall potential costs and the percentage of hedge positions at any
8 given point in time?

9

10 These questions are not intended to be all inclusive and not intended to be critical of the
11 concepts submitted by Mr. Gettings. However, if the Commission elects to move in the
12 direction recommended by Mr. Gettings, from the Company's perspective these
13 questions outline the importance of having clear and specific direction on the parameters
14 before an updated framework can be fully developed and established to ensure
15 prospective plans are consistent with the Commission's direction. The Company
16 believes workshop forum sessions with the Commission staff, the other companies, and
17 other interested stakeholders would benefit all parties to ensure any new approach is
18 implemented in a desired and consistent fashion. This would also provide time for the
19 Company's fuel, risk, and quantitative personnel to fully understand and evaluate the
20 needed calculations to support any new requirements and verify that calculations can be
21 performed in a manner consistent with the concepts and any reporting requirements.
22 Finally, within the context of the concepts summarized by Mr. Gettings, these working
23 sessions will provide the opportunity for companies to work closely with the stakeholders

1 to outline other hedging instruments and parameters that could be employed to
2 accomplish the objectives Mr. Gettings outlined.

3

4 **Q. Can you elaborate on the status of the Company's hedging activities under its**
5 **currently approved plan and how this would impact the timing of implementing**
6 **changes to hedging protocols?**

7 A. Yes. Currently, DEF is hedging consistent with its approved 2016 Risk Management
8 Plan and is near its 2017 target hedging percentage outlined in that plan. Thus, any
9 changes the Commission may desire to implement consistent with Mr. Gettings' proposal
10 would need to begin with periods no earlier than 2018. Therefore, the Company agrees
11 with Mr. Cicchetti that the Commission should approve its submitted 2017 Risk
12 Management Plan, which incorporates further hedging target reductions from those DEF
13 proposed in Docket No. 160096-EI.

14

15 In addition, as summarized above, the Company needs further clarification on the
16 concepts and protocols summarized by Mr. Gettings and time to familiarize itself with
17 those concepts. With respect to the potential time needed for reviews and
18 implementation, the Company would like to have further discussions with the
19 stakeholders after gathering additional details on hedging parameters, execution
20 approaches, and regulatory reviews to ensure a reasonable implementation schedule. I
21 note that Mr. Gettings' *White Paper Regarding Utility Hedging Regulation* ("*White*
22 *Paper*"), provided to the Washington Utilities and Transportation Commission
23 ("*WUTC*") as part of its hedging policy review docket, included a milestone summary

1 that outlined a full implementation period of roughly two and a half years. Mr. Gettings’
 2 summary testimony in this docket did not include such a draft working milestone
 3 schedule. DEF believes that if the Commission desires to implement this approach, part
 4 of the stakeholders’ review should include development of any needed milestone
 5 schedule after additional information and details have been discussed.

6

7 **Q. If the Commission desires to implement the changes being proposed, would the**
 8 **workshop sessions you have discussed result in unnecessary delay?**

9 A. No. As noted herein, Mr. Gettings’ proposal lays out a new framework for the financial
 10 hedging of natural gas that differs from the Commission’s current policies and direction.
 11 Moreover, the framework provided in his testimony requires additional detail, analysis
 12 and discussion before it can form the basis of modified hedging parameters, execution
 13 strategies, and regulatory review. If the Commission decides that the concepts he
 14 outlines should be implemented, in my opinion the best forum for all stakeholders to
 15 come together and work out the details of how they can be implemented is a workshop,
 16 not an evidentiary hearing. That said, it should be recognized that implementation of
 17 these changes, if desired, will likely take time. Although I am not familiar with the
 18 details of what has occurred in the WUTC review, I note from a review of Mr. Cicchetti’s
 19 Exhibit No. _ (MAC-4), page 3 of 3, and the online docket listing that the WUTC’s
 20 review into natural gas hedging practices appears to have been open and ongoing since
 21 October of 2013, and Mr. Gettings’ *White Paper* was filed over 14 months ago.¹ I
 22 provide this information not to suggest that this is the timeline that should be expected in

¹ <http://www.utc.wa.gov/docs/Pages/DocketLookup.aspx?FilingID=132019>.

1 Florida, but simply to underscore the point that if these changes are going to be
2 implemented, it will likely take some time to review and ensure it is done consistent with
3 any objectives.

4

5 **Q. Does Mr. Gettings discuss the form of regulatory review the Commission should use**
6 **to determine prudence under his proposal?**

7 A. Yes. He briefly outlines that his regulatory review process is to require contemporaneous
8 weekly risk measurement and monitoring from the customers' perspective, provided to
9 the Commission quarterly. He states that "the very existence of contemporaneous weekly
10 risk metrics will change behavior and eventually inform prudence determinations . . .
11 Strategy formulation would be left to utility management, but after one-year of reporting
12 risk metrics, I would expect strategies to reflect lower programmatic hedge targets,
13 relying more heavily on defensive hedge protocols and contingent response plans to
14 constrain hedge loss potential." (Gettings, p. 29, ll. 18-24). He also states "Later as
15 experience is gained, the Commission might consider making a policy statement
16 indicating a rebuttable presumption of prudence if key strategy elements are incorporated
17 in the risk management plans and then executed per plan." (Gettings, p. 30, ll. 13-15).

18

19 **Q. Do you have any observations regarding this regulatory review framework?**

20 A. Yes. First, it is a framework for review that does not necessarily have a standard of
21 review until "experience is gained" at which point certain undefined "key strategy
22 elements" can be incorporated into the plan and then actions taken pursuant to the plan
23 would carry a rebuttable presumption of prudence. Prior to the point where experience

1 exists to guide the Commission's review, there is no discussion of what the Commission
2 should use as a standard for evaluating a Company's risk management plan or what
3 standards will be used to evaluate the prudence of the Company's hedging program
4 executed pursuant to that plan. This is another area where a workshop and further
5 discussion would be beneficial for all stakeholders to gather additional information and
6 specific criteria that would guide the Commission's review.

7

8 **Q. Are the lack of clear and defined upfront standards described above your only**
9 **observation?**

10 A. No. I am also concerned that, given the proposed shift in goals from a reduction in fuel
11 price volatility to a management of fuel cost risks while balancing both mitigation of
12 upside cost risks as well as potential hedge costs, the annual fuel clause proceeding could
13 become bogged down in an after-the-fact review of any and all individual hedging
14 transaction decisions made by the Company, but with the benefit of perfect hindsight.
15 Without some prescribed standards or specific objective parameters, this could require
16 the Commission to perform a subjective review of potentially hundreds of transactions,
17 after the fact, substituting its judgment for the previously approved hedging plans. This
18 subjective review approach has the potential to call into question the importance of the
19 approved risk management plan and a company's ability to rely on the parameters
20 established in the approved plan, reducing regulatory certainty.

21

22 **Q. What statement in Mr. Cicchetti's testimony did you want to address?**

1 A. With respect to one comment made in Mr. Cicchetti's testimony, on page 16, lines 3-4,
2 Mr. Cicchetti states that DEF's proposed 2017 Risk Management Plan does not reflect
3 the modifications proposed in Docket No. 160096-EI, which could be misunderstood. To
4 clarify, as described in the Plan itself, in light of the discussions held during the Agenda
5 Conference approving the joint petition, DEF made further reductions from those
6 proposed in the joint petition to its hedging target ranges for the 13-24 month and 25-36
7 month timeframes.

8
9 **Q. Do you have any observations regarding Mr. Daniel Lawson's Testimony?**

10 A. Yes. As part of effective fuel cost management, DEF believes managing fuel price
11 volatility risk over time for a portion of its projected fuel costs is a prudent risk
12 management practice given its fuel mix. It is proper for the Commission to review, and
13 if it determines it is necessary to do so, to revise or eliminate its policies regarding
14 financial hedging of natural gas. The Commission's hedging program acts to serve
15 customer interests and not the interests of the Company. We agree that customer views
16 and opinions on these policy issues are important for the Commission to consider. If the
17 Commission determines that hedging should be changed, revised, eliminated, reduced in
18 scope, or replaced with something new, DEF will comply with the Commission's will.

19
20 **Q. Does this conclude your testimony?**

21 A. Yes.

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

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
FLORIDA POWER & LIGHT COMPANY
REBUTTAL TESTIMONY OF GERARD J. YUPP
DOCKET NO. 160001-EI
SEPTEMBER 30, 2016

Q. Please state your name and address.

A. My name is Gerard J. Yupp. My business address is 700 Universe Boulevard, Juno Beach, Florida, 33408.

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

A. I am employed by Florida Power and Light Company (“FPL”) as Senior Director of Wholesale Operations in the Energy Marketing and Trading Division.

Q. Did you previously submit direct testimony in this proceeding?

A. Yes.

Q. Are you sponsoring any rebuttal exhibits in this case?

A. No.

Q. What is the purpose of your rebuttal testimony?

A. The primary purpose of my testimony is to urge caution about moving forward with a risk-responsive hedging approach based on the limited support and evidence contained in the testimonies of Staff witnesses Michael A. Gettings and Mark Anthony Cicchetti. In addition, I will rebut the testimony of OPC witness Daniel J.

1 Lawton and his flawed contentions that hedging does not provide a
2 benefit to customers and should be discontinued.

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

4 A. My rebuttal testimony expresses concerns regarding the conclusion
5 drawn by Staff witnesses Gettings and Cicchetti that risk-responsive
6 hedging strategies are superior to fixed-percentage strategies.
7 Witness Gettings has not provided any meaningful detail regarding
8 the calculations he presents to support this conclusion. He has not
9 included in either his narrative testimony or exhibits the specific data
10 and calculations that would be necessary to properly evaluate the
11 risk-responsive hedging approach. Based on this incomplete
12 analysis, witness Cicchetti's recommendation that the Commission
13 implement a risk-responsive hedging protocol because the analysis
14 supposedly shows that it would be superior to a fixed-percentage
15 approach and help limit losses to customers is premature.

16

17 While FPL agrees with witnesses Gettings and Cicchetti that
18 hedging has been and can continue to be beneficial to customers in
19 reducing their exposure to fuel price volatility, FPL is concerned that
20 implementing a risk-responsive hedging strategy today would not be
21 appropriate without a full and transparent evaluation. If there is
22 merit in witness Gettings' proposal, then a full review of all of the
23 parameters and calculations used in his analysis should be

1 conducted. Furthermore, a more in-depth discussion regarding how
2 risk-responsive parameters are defined and how those parameters
3 fit into the framework of the existing Hedging Guidelines would be
4 necessary.

5

6 Witness Lawton's testimony reiterates the arguments for
7 discontinuing hedging that the Commission rejected last year. He
8 cites the Energy Information Administration's ("EIA's") Short Term
9 Energy Outlook Publication for the proposition that natural gas
10 prices are low and stable, but the very same publication shows a
11 significant range between the prices at the upper and lower 95%
12 confidence levels, with more than twice the exposure to price
13 increases than there is to price decreases. This volatility and the
14 asymmetry of its distribution suggests that hedging remains
15 beneficial for customers.

16

17 Finally, witness Lawton also touts a fuel cost recovery mechanism
18 used by Entergy Texas Inc. ("ETI") as an alternative to hedging, but
19 once the mechanism's mathematical calculations are understood, it
20 becomes clear that the end result is a projection of fuel costs based
21 on NYMEX forward curve settlement prices that is very similar to
22 how FPL projects unhedged fuel costs. The ETI mechanism offers
23 none of the volatility protection afforded by Florida's hedging

1 program.

2

3

STAFF WITNESSES GETTINGS AND CICCHETTI

4 **Q. In your opinion, does witness Gettings' testimony provide**
5 **sufficient detail to support his conclusion that implementing a**
6 **risk-responsive hedging strategy would provide superior**
7 **results to a fixed-percentage approach?**

8 A. No. First, to be clear, FPL's intent is not to discredit the risk-
9 responsive hedging approach presented by witness Gettings. FPL
10 agrees that it is intuitively appealing and may have promise.
11 However, FPL is concerned that implementing a risk-responsive
12 approach based solely on the limited information presented by
13 witness Gettings would be premature. His conclusion is based on
14 simulations that he ran for the period from 2002 through 2011,
15 utilizing forward prices and both risk-responsive and fixed-
16 percentage hedge strategies.

17

18 Unfortunately, witness Gettings fails to provide the set of risk-
19 responsive decision rules (parameters) he utilized in the simulation
20 or the detailed calculations behind the graph he provided in Table 6
21 on page 22 of his testimony. Nor does he provide an adequate
22 justification for excluding the most recent four full years of available
23 data (i.e., 2012-2015) from his analysis. Thus, while the results

1 appear promising, FPL would need to have a better understanding
2 of his detailed decision rules and the calculations he performed in
3 order to fully evaluate the simulations.

4 **Q. Has FPL attempted to apply witness Gettings' risk-responsive
5 methodology to FPL's own hedging framework to evaluate how
6 the different strategy would work?**

7 A. Yes. FPL attempted to test witness Gettings' methodology by
8 applying the risk-responsive hedging principles he describes in his
9 testimony and in his paper titled, "*Natural Gas Utility Hedging
10 Practices and Regulatory Oversight*" that he prepared for the
11 Washington Utilities and Transportation Commission in July 2015 to
12 three historical months (February 2014, August 2015, and August
13 2016). FPL then compared those results to the actual results of its
14 fixed-percentage hedge program for the three months.

15 **Q. What are the results of FPL's analysis?**

16 A. First, it is important to note that FPL was not able to perform a
17 complete analysis of witness Gettings' risk-responsive approach due
18 to his failure to provide specific input data and the absence of any
19 technical justifications for the parameters he established, such as
20 action boundaries, the initial hedge ratio, and the maximum hedge
21 ratio. In the absence of that information, FPL defined three separate
22 cases for each month with varying decision parameters within the
23 general framework provided by witness Gettings. This methodology

1 created three separate risk-responsive cases for each month tested,
2 that FPL compared to its actual fixed-percentage results for each
3 month.

4
5 The results of FPL's analysis showed that the risk-responsive
6 approach did not always outperform FPL's fixed-percentage
7 approach. For example, the results of FPL's analysis for February
8 2014 showed that FPL's fixed-percentage strategy was superior to
9 all three risk-responsive cases by a minimum of nearly \$11 million.
10 For the August 2015 analysis, FPL's actual results of its fixed-
11 percentage strategy were worse than the best risk-responsive case
12 by approximately \$19 million. Finally, FPL's analysis for August
13 2016 showed that its fixed-percentage strategy ranked second of
14 the four cases, coming in at slightly more than \$3.5 million higher in
15 costs as compared to the best risk-responsive case, but nearly \$13
16 million lower in cost than the least effective risk-responsive case.

17 **Q. Do these results mean that implementing risk-responsive**
18 **hedging strategies could not prove to be an appropriate course**
19 **of action?**

20 **A.** No. As I stated previously, the results that witness Gettings
21 provides appear promising. On the other hand, FPL's analysis
22 clearly underscores the sensitivity of the risk-responsive approach to
23 the decision parameters that are set, which highlights FPL's

1 concerns related to the lack of detail provided by witness Gettings
2 on how he arrived at his results. Prior to making the significant
3 change in hedging that would result from mandating a risk-
4 responsive approach, a deeper dive into the technical details and
5 rationale for setting discretionary parameters should be completed
6 in a transparent manner. All parties must fully understand the risk-
7 responsive approach, including the pros and cons of this strategy.
8 Implementing this strategy prior to a thorough review and
9 understanding is premature.

10 **Q. On page 14 (Lines 6 through 11) of his testimony, witness**
11 **Cicchetti indicates that while Staff was conducting research**
12 **regarding financial hedging of fuel costs by regulated utilities,**
13 **they became aware of risk-responsive hedge strategies and**
14 **that an “analysis of the risk-responsive hedging strategies**
15 **indicated they are superior to the typical targeted-volume**
16 **approach generally practiced by regulated investor-owned**
17 **utilities and should help minimize potential losses to**
18 **customers.” Does witness Cicchetti present or discuss any**
19 **analysis in support of that conclusion?**

20 **A.** No. Witness Cicchetti presumably has data that clearly supports the
21 conclusion that risk-responsive hedging strategies are superior to a
22 fixed-percentage approach, but his testimony does not provide or
23 discuss that data. In the absence of further information, it is not

1 possible at this time for FPL to evaluate his conclusion.

2 **Q. In his Exhibit MAC-4, witness Cicchetti provides a summary of**
3 **the results from a hedging practices survey that was**
4 **conducted by the Commission's Division of Industry**
5 **Development and Market Analysis ("IDM") on other state**
6 **commissions. From the list of respondents, do the survey**
7 **results indicate that other states have mandated the**
8 **implementation of a risk-responsive hedging strategy?**

9 A. No. As described in witness Cicchetti's testimony, twelve states
10 responded to the survey, and none of those respondents has
11 mandated a risk-responsive hedging strategy. In fact, risk-
12 responsive hedging strategies are not mentioned in any of the
13 summaries provided by witness Cicchetti.

14

15 Particularly telling is the fact that the Washington Utilities and
16 Transportation Commission has not mandated the implementation
17 of a risk-responsive hedging program. Presumably, witness
18 Gettings has been working with the Washington Commission on
19 risk-responsive hedging since July 2015. The apparent reluctance
20 of that commission to move quickly toward a risk-responsive
21 approach reinforces my opinion that implementation of risk-
22 responsive hedging without careful vetting would be premature.
23 Clearly, this type of hedging program would be a significant

1 departure from this Commission's current approach and, if a change
2 is warranted, it will take time to properly implement.

3 **Q. Does FPL have any other concerns regarding the risk-**
4 **responsive hedging approach?**

5 A. Yes. If the Commission were to decide that the utilities should adopt
6 a risk-responsive approach, the implementation of this approach
7 should take place within the framework of the existing Hedging
8 Guidelines that were approved in Order No. PSC-08-0667-PAA-EI
9 issued on October 8, 2008. The Commission and the IOUs worked
10 hard to establish hedging guidelines that provide a comprehensive
11 framework for hedging. These guidelines and the requirements
12 contained therein give the IOUs confidence that if they execute
13 hedging activities in accordance with their approved Risk
14 Management Plans, they will not be second-guessed about those
15 activities later.

16
17 To provide this same degree of confidence for the implementation of
18 a risk-responsive hedging approach, key parameters that may
19 significantly impact results, such as the initial hedge ratio, action
20 boundaries, hedging increments, the max hedge ratio and
21 appropriate contingent actions, should be clearly spelled out in each
22 utility's Risk Management Plan. Once these parameters are defined
23 in the Risk Management Plan, the utility should be deemed prudent

1 if it implements its hedging program in accordance with the defined
2 parameters.

3 **Q. What does FPL suggest is the appropriate course of action for**
4 **this Commission to evaluate risk-responsive hedging?**

5 A. FPL believes that it would be appropriate for the Commission to hold
6 a series of workshops in which Staff, the Florida IOUs and other
7 interested parties could address, first, whether the risk-responsive
8 approach is indeed likely to outperform the existing fixed-percentage
9 approach in a sufficiently wide range of fuel-price scenarios and
10 decision parameters to warrant adopting it; and, if so, how it could
11 be effectively implemented and monitored in a manner that protects
12 customers and the IOUs alike.

13 **Q. On page 15, Line 25 through page 16, Line 4, witness Cicchetti**
14 **states that FPL's, DEF's and TECO's 2017 Risk Management**
15 **Plans do not reflect the modifications proposed in the Joint**
16 **Petition by Investor-Owned Utilities for Approval of**
17 **Modifications to the Risk Management Plans ("Joint Petition")**
18 **filed on April 22, 2016 in Docket No. 160096-EI. Is this**
19 **statement correct for FPL?**

20 A. No. FPL has modified its 2017 Risk Management Plan consistent
21 with the modifications proposed in the Joint Petition by Investor-
22 Owned Utilities for Approval of Modifications to Risk Management
23 Plans filed on April 22, 2016 in Docket No. 160096-EI. Specifically,

1 FPL's 2017 Risk Management Plan for 2018 procurement reflects a
2 25% reduction of natural gas hedges from the target approved in
3 FPL's 2016 Risk Management Plan and FPL's 2017 Risk
4 Management Plan reflects a limit on the future time horizon over
5 which hedges may be placed.

6 **Q. On page 14 (Lines 19 through 23) of his testimony, witness**
7 **Cicchetti recommends that the Commission implement the**
8 **modifications requested in the Joint Petition by the IOUs to**
9 **their respective 2017 Risk Management Plans on a transitional**
10 **basis until a risk-responsive hedging protocol can be**
11 **implemented. Does FPL agree with this approach?**

12 **A.** Yes. FPL believes that it would be reasonable for the Commission
13 to approve FPL's 2017 Risk Management Plan and thus allow FPL
14 to place hedges in 2017 consistent with it, while the Commission
15 could proceed if it wishes with workshops to discuss the risk-
16 responsive approach and its potential implementation.

17

18 OPC WITNESS LAWTON

19 **Q. Witness Lawton recommends the elimination of financial**
20 **natural gas hedging for many reasons, including substantial**
21 **hedging losses, current and projected stable market prices,**
22 **and the current fuel factor design and mid-course correction**
23 **mechanism. Do you agree with his assessment?**

1 A. No. Witness Lawton has essentially provided the same arguments
2 in testimony that he provided in last year's proceeding. In fact, he
3 has included his prior testimony as an exhibit to his current
4 testimony, and it comprises the majority of the pages that he filed.
5 The Commission did not find his arguments to be persuasive in that
6 proceeding and should not find them so in this proceeding.

7
8 Witness Lawton makes very general observations and broad
9 statements regarding stable market prices and reduced volatility
10 without providing supporting data. For example, he provides the
11 EIA's forecast of \$2.87/MMBtu for the average Henry Hub price in
12 2017 and EIA's prediction of "low stable natural gas prices over the
13 short-run forecast." He goes on to state that "price volatility is not
14 expected to be an issue," without providing any factual support.

15
16 In the same Short-Term Energy Outlook publication that included
17 the forecast price of \$2.87/MMBtu, the EIA also provided an
18 analysis of that forecast's upper and lower 95% confidence
19 intervals. The corresponding upper and lower limits are
20 \$5.40/MMBtu and \$1.80/MMBtu, respectively. This is a substantial
21 price range, which demonstrates that, contrary to witness Lawton's
22 claim that volatility is not an issue, volatility remains an issue in the
23 natural gas market. FPL provided a similar analysis for 2018 natural

1 gas prices in response to OPC's Third Request for Production of
2 Documents No. 4, which further confirmed that volatility remains in
3 the natural gas market.

4 **Q. Staff witnesses Gettings and Cicchetti observe that natural gas**
5 **prices are lognormally distributed, meaning that the magnitude**
6 **of significant cost increases tends to be much greater than the**
7 **magnitude of significant cost decreases. Does the EIA data**
8 **that you referenced above illustrate this asymmetry?**

9 A. Yes. In simple terms, the EIA's analysis shows that, based on an
10 expected average price of \$2.87/MMBtu, one could be 95%
11 confident that average prices would be higher than \$1.80/MMBtu
12 and lower than \$5.40/MMBtu. The asymmetry between these lower
13 and upper limits is readily apparent: the lowest probable average
14 price is \$1.07/MMBtu below the expected average price, while the
15 highest probable average price is \$2.53/MMBtu higher than the
16 average expected price. I made this same point in my rebuttal
17 testimony in last year's proceeding. Finally, it is worth noting that
18 both witnesses Gettings and Cicchetti point to an additional
19 asymmetry that supports the value of hedging: customers derive
20 greater value from hedging cost mitigation than they forego from
21 hedging losses.

22

23

1 **Q. On pages 17 and 18 of his testimony, witness Lawton presents**
2 **what he describes as a financial hedging alternative based on**
3 **an example of how ETI calculates its bi-annual fuel factor. Is**
4 **the ETI methodology a valid alternative to hedging?**

5 A. No. In fact, the mathematical consequence of the ETI methodology
6 is almost identical to the methodology that FPL currently uses to set
7 its fuel factors on an annual basis. In examining the relevant steps
8 of the nine-step process that witness Lawton describes, it appears
9 that ETI takes its actual natural gas costs for the prior twelve months
10 and then multiplies those costs by a market factor that is the ratio of
11 the next 12 months NYMEX settlement prices and the prior 12
12 months NYMEX settlement prices. The result of this calculation
13 yields projected fuel costs for the next six months that are based on
14 NYMEX settlement prices.

15
16 FPL also utilizes NYMEX forward curve settlement prices to
17 calculate its projected natural gas costs for the following year. For
18 example, FPL's 2017 Projection Filing is based on monthly NYMEX
19 settlement prices for 2017 as of the close of business on August 1,
20 2016. So, at the end of the day, ETI is setting its fuel factors on the
21 basis of NYMEX settlement prices, just the same as FPL does.
22 Unfortunately, ETI stops there, while FPL does not. Setting a fuel
23 factor based on NYMEX forward curve settlement prices, regardless

1 of the mathematical steps taken to get there, does not provide any
2 protection against the volatility that exists between the forward
3 curves and actual spot prices that will prevail when the fuel is
4 actually purchased. It is no alternative to hedging.

5 **Q. On page 19 of his testimony, witness Lawton goes on to claim**
6 **that ETI customers have no risk of suffering hedging losses.**
7 **What is your reaction to this statement?**

8 A. This statement is true but misleading. ETI customers have no risk
9 of suffering hedging losses, because the ETI approach doesn't
10 provide any of the volatility mitigation that is achieved by hedging.
11 Witness Lawton fails to mention that ETI customers bear 100% of
12 the risk if prices increase.

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

14 A. Yes it does.

1 **BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

2 **FLORIDA POWER & LIGHT COMPANY**

3 **SUPPLEMENTAL TESTIMONY OF GERARD J. YUPP**

4 **DOCKET NO. 160001-EI**

5 **OCTOBER 19, 2016**

6

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

8 A. My name is Gerard J. Yupp. My business address is 700 Universe
9 Boulevard, Juno Beach, Florida, 33408.

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

11 A. I am employed by Florida Power and Light Company (“FPL”) as
12 Senior Director of Wholesale Operations in the Energy Marketing
13 and Trading Division.

14 **Q. Did you previously submit direct and rebuttal testimony in this
15 proceeding?**

16 A. Yes.

17 **Q. Are you sponsoring any supplemental exhibits in this case?**

18 A. Yes. I am sponsoring the following supplemental exhibit:
19 GJY-8: Alternative 2017 Risk Management Plan.

20 **Q. What is the purpose of your supplemental testimony?**

21 A. The purpose of my supplemental testimony is to present FPL’s
22 Alternative 2017 Risk Management Plan, in implementation of
23 Paragraph 16 of the proposed stipulation and settlement of FPL’s

1 rate case in Docket No. 160021-EI and consolidated dockets that
2 was filed on October 6, 2016 (the "Proposed Settlement
3 Agreement") in the event the Commission approves the Proposed
4 Settlement Agreement. Paragraph 16 provides for FPL to terminate
5 natural gas financial hedging prospectively for the Minimum Term of
6 the Agreement and to make filings to implement such termination in
7 Docket No. 160001-EI and subsequent fuel clause proceedings.
8 Accordingly, FPL has prepared an Alternative 2017 Risk
9 Management Plan to reflect the requirements of the Proposed
10 Settlement Agreement, if approved.

11 **Q. Has FPL previously filed a 2017 Risk Management Plan for**
12 **Commission approval?**

13 A. Yes. Pursuant to the schedule in this docket, FPL filed its 2017 Risk
14 Management Plan on August 4, 2016 (the "August 4 Plan").

15 **Q. How does the Alternative 2017 Risk Management Plan differ**
16 **from the August 4 Plan?**

17 A. Consistent with Paragraph 16 of the Proposed Settlement
18 Agreement, the Alternative 2017 Risk Management Plan states that
19 FPL will financially hedge zero percent of its 2018 natural gas
20 requirements during calendar year 2017. The Alternative 2017 Risk
21 Management Plan is attached to this supplemental testimony as
22 Exhibit GJY-8. FPL requests that the Alternative 2017 Risk
23 Management Plan be approved if the Proposed Settlement

1 Agreement is approved; otherwise, FPL would continue to request
2 that the Commission approve the August 4 Plan.

3 **Q. Does Paragraph 16 of the Proposed Settlement Agreement**
4 **require FPL to revise its approved 2016 Risk Management**
5 **Plan?**

6 A. No. Paragraph 16 requires that FPL not enter into any new financial
7 natural gas hedging contracts after the approval date, “except as
8 may be necessary for FPL to remain in compliance to the minimum
9 extent practicable with the requirements of its currently approved
10 Risk Management Plan.” FPL’s 2016 Risk Management Plan was
11 approved by the Commission in Docket No. 150001-EI and
12 therefore is “currently approved.” If the Commission approves the
13 Proposed Settlement Agreement, then consistent with Paragraph
14 16, FPL will execute only the minimum hedges necessary to remain
15 in compliance with the 2016 Risk Management Plan.

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

17 A. Yes it does.

1 GULF POWER COMPANY

2 Before the Florida Public Service Commission

3 Prepared Rebuttal Testimony of

4 H. R. Ball

5 Docket No. 160001-EI

6 Date of Filing: September 30, 2016

7 Q. Please state your name and business address.

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

10 Q. Are you the same H. R. Ball who filed direct testimony in this docket?

11 A. Yes.

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

13 A. The purpose of my testimony is to respond to the direct testimony of the Office of
14 Public Counsel's Witness Daniel J. Lawton and Staff's Witnesses Mark Anthony
15 Cicchetti and Michael A. Gettings.
1617 Q. Does Gulf agree with Witness Lawton's conclusions regarding the continuation of
18 Gulf's natural gas financial hedging programs?
1920 A. No. Gulf believes that continued compliance with the Commission's existing
21 hedging policy as embodied in the orders referenced by Mr. Cicchetti provides an
22 appropriate fuel risk management tool for utilities to utilize to limit natural gas
23 price volatility. Witness Lawton's testimony is largely the same as that which he
24 offered in the 150001-EI docket. He provides no new information or analysis that
25

1 would reasonably support a conclusion on this issue that differs from the
2 conclusion reached by the Commission in the 150001-EI docket.

3
4 Q. Please address the hedging policy alternative recommended by Staff Witness
5 Michael A. Gettings.

6 A. Witness Gettings recommends the development and implementation of a risk-
7 responsive hedging program. Witness Gettings provides only a general
8 framework of a risk-responsive hedging program. Insufficient details have been
9 provided about what parameters should be established, or how such a hedging
10 plan could be implemented by the Commission. More information about the
11 structure and implementation of a risk-responsive hedging program should be
12 developed before the Commission considers changing its current hedging policy.
13 Adoption of this type of hedging program would be a substantial change in the
14 Commission's hedging policy.

15
16 Q. Did Witness Gettings discuss specific examples of risk-responsive hedging
17 programs being utilized by regulated investor owned utilities?

18 A. No. He stated, "[t]here is the regulated investor-owned utility segment which
19 most often deploys targeted-volume hedge accumulation programs like those
20 reflected in the 2017 RMPs." From this statement it appears that risk-responsive
21 hedging programs have not been approved for regulated investor owned utilities.

22
23 Q. Is there an incremental cost to implementing a risk-responsive hedging program?

24 A. Yes. Based on a preliminary review of the general program as outlined by
25 Witness Gettings, there would be additional time and resource costs to Gulf and

1 likely to the Commission. The proposed risk-responsive hedging program would
 2 require additional analysis work to be performed, weekly documentation, the
 3 development and implementation of new internal governance procedures, and
 4 additional regulatory filings and audits. The lack of details around exactly what a
 5 risk-responsive hedging program would look like and how it would be
 6 implemented makes estimating these additional costs very difficult at this point,
 7 but any such incremental costs should be recovered in the fuel cost recovery
 8 docket.

9

10 Q. Do you agree with Witness Cicchetti’s recommendation that the modifications
 11 requested by Gulf in its Risk Management Plan (RMP) in Docket No. 160096-EI
 12 and implemented in its 2017 RMP filed in Docket No. 160001-EI be approved?

13 A. Yes. Mr. Cicchetti acknowledged that it may be difficult to implement a risk-
 14 responsive program as suggested by Mr. Gettings in 2017 and therefore
 15 recommended approval of Gulf’s 2017 RMP as an interim measure. We agree
 16 with Mr. Cicchetti’s assessment. Our proposed plan for 2017 meets the
 17 Commission’s current hedging policy and should be approved.

18

19 Q Mr. Ball, does this conclude your rebuttal testimony.

20 A Yes.

21

22

23

24

25

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

5
6 **Q.** Please state your name, business address, and position
7 with Tampa Electric Company.

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

13
14 **Q.** Are you the same J. Brent Caldwell who has sponsored
15 Direct Testimony in this proceeding?

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

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

20
21 **A.** My rebuttal testimony addresses the substance and
22 recommendations of witnesses Michael A. Gettings and
23 Mark Anthony Cicchetti, testifying on behalf of the
24 Commission's Staff.

25

1 Q. What is your overall impression of the substance of
2 witness Gettings's and Cicchetti's testimonies?

3
4 A. I believe both of their testimonies demonstrate that the
5 appropriate choice for hedging policy is a judgment
6 call. I don't believe that either witness would dispute
7 the fact that mitigating the volatility of natural gas
8 prices and the prices of other fuels is a laudable goal;
9 in fact, witness Gettings's testimony suggests that
10 hedging provides benefits to customers.¹ On the other
11 hand, Tampa Electric is also aware of the concerns
12 raised by many regarding hedging losses.

13
14 Tampa Electric has heard, and shares concerns regarding
15 hedging losses. The company still believes that
16 mitigating price volatility through hedging has merit.
17 In light of concerns raised in recent years by the
18 Office of Public Counsel and the Florida Industrial
19 Power Users Group, the investor-owned utilities offered
20 to make a 25 percent reduction in the level of their
21 financial hedging of natural gas.² With the Commission
22 order approving that reduction having been protested,

¹ For example, Michael A. Gettings testimony, pp. 4-5, submitted on September 23, 2016, in Docket No. 160001-EI; and general consideration of this witness's proposal as submitted in the same document.

² This plan is described in the joint petition of the four investor-owned utilities, submitted on April 22, 2016 in Docket No. 160096-EI.

1 Tampa Electric's risk management plan for 2017 adheres
2 to the hedging model last approved by the Commission,
3 prior to the 25 percent proposed reduction that was
4 protested.

5
6 **Q.** Is Tampa Electric willing to consider modifications to
7 the Commission approved hedging model?

8
9 **A.** Yes, we are. Tampa Electric maintains that the most
10 appropriate change to the Commission approved hedging
11 model at this time is the 25 percent reduction in
12 maximum hedging volumes and the proposed change in
13 hedging duration described in the joint petition of the
14 four investor-owned utilities. The company remains
15 willing to implement prospective reductions in hedging
16 maximum volumes and duration as described in that
17 proposal.

18
19 **Q.** Is Tampa Electric willing to consider additional
20 modifications to the Commission approved hedging model?

21
22 **A.** Yes. Tampa Electric conducts natural gas hedging to
23 mitigate price volatility for the benefit of customers,
24 and the company remains willing to implement changes the
25 Commission determines are in the best interest of

1 customers. During the June 9, 2016 Commission Conference
 2 at which the utilities' joint petition was considered,
 3 other alternatives were suggested by Commissioners.
 4 Tampa Electric is willing to consider those hedging
 5 program modifications. If the Commission approves a
 6 different set of modifications to the current hedging
 7 plan, then Tampa Electric will implement those changes
 8 on a prospective basis. In addition, Tampa Electric has
 9 reviewed the testimony of the witnesses appearing on
 10 behalf of the Commission's Staff, and the company agrees
 11 that there are many ways to address the issue of
 12 hedging. Again, when all is said and done, it is a
 13 judgment call.

14

15 **Q.** What type of hedging program does Tampa Electric
 16 currently utilize and what is its purpose?

17

18 **A.** Tampa Electric employs a non-speculative, targeted-
 19 volume financial hedging program for natural gas. The
 20 program's purpose is to mitigate price volatility for
 21 natural gas fuel expenses.

22

23 **Q.** Please describe the advantages of the targeted-volume
 24 hedging approach.

25

1 **A.** The advantages of the targeted-volume hedging approach
2 include the following factors: 1) it reduces price
3 volatility; 2) over time it should yield a net zero
4 cost; 3) it is manageable from both a corporate trading
5 standpoint and a regulatory oversight standpoint; 4) it
6 does not attempt to outguess the market and, in fact,
7 does not allow market speculation; 5) it is relatively
8 simple to understand and administer; and 6) it clearly
9 fits within the Commission's guidelines as a non-
10 speculative hedging program.

11

12 **Q.** What is Tampa Electric's assessment of the risk-
13 responsive hedging program proposed by witnesses
14 Gettings and Cicchetti?

15

16 **A.** Tampa Electric is not aware of any regulated utility
17 using witness Gettings's risk-responsive approach to
18 fuel hedging. His proposal represents a significant
19 departure from the currently approved hedging protocol
20 and Tampa Electric is uncertain of its effectiveness.
21 The value of a risk-responsive approach to hedging is
22 likely dependent on various factors, including but not
23 limited to, the selection of the various thresholds and
24 trigger points that apply under such a risk-responsive
25 program.

1 **Q.** Do you have any concerns about the proposal recommended
2 by the witnesses Gettings and Cicchetti?

3

4 **A.** Yes, I have three primary concerns regarding the
5 proposal recommended by witnesses Gettings and
6 Cicchetti. They are (1) the lack of specificity in
7 witness Gettings risk-responsive hedging proposal; (2)
8 the 2018 effective date for risk-responsive plans
9 recommended by witness Cicchetti, given the time that
10 such a change requires for analysis and target-setting
11 prior to implementation, and (3) the potential
12 uncertainty regarding appropriate or prudent hedging
13 activities, actions and results.

14

15 **Q.** Please explain your concerns regarding the lack of
16 specificity in witness Gettings's proposal and the time
17 involved to implement his proposal.

18

19 **A.** The implementation of a risk-responsive approach to
20 hedging represents a paradigm shift from the current
21 methods of hedging by most regulated utilities in the
22 United States of America. As the witness states, at page
23 8, lines 7 through 9, of his testimony, the regulated
24 investor-owned utility segment "most often deploys
25 targeted-volume hedge accumulation programs like those

1 reflected in the [Florida utility] 2017 RMPs." Based on
2 the limited time the company has had to review and
3 respond to this proposal, this represents a major change
4 from the current methods of hedging. Without clearly
5 defined goals, guidelines and risk measures, witness
6 Gettings's proposal cannot be reliably implemented and
7 its performance cannot be fairly evaluated. In the event
8 this approach is adopted, a considerable period of time
9 will be needed to define and develop new programs to
10 implement this approach.

11
12 **Q.** Please describe your concerns with the time horizon to
13 implement the proposal put forth by witness Gettings, as
14 suggested by witness Cicchetti.

15
16 **A.** As I previously stated, if approved, significant time
17 will be needed to adopt guidelines under which a risk-
18 responsive hedging program can be implemented, measured
19 and evaluated.

20
21 **Q.** Please explain your concerns regarding prudence review.

22
23 **A.** Witness Gettings's risk-responsive hedging strategy may
24 not be appropriate in a regulated environment.
25 Throughout his testimony, he uses terms such as

1 "reasonable response time", "tolerable losses", and
2 "unusually high risk". All of these terms are
3 subjective, which leads to significant concerns
4 regarding appropriate implementation and prudence
5 review. Witness Gettings's expectation seems to be that
6 with a year of reporting numerous financial
7 quantification calculations, each utility will then be
8 expected to "formulate a strategy" that may use all of
9 the same technical measures, but use varying "confidence
10 levels", tolerances, and "interim thresholds".

11
12 The current hedging program reduces price volatility, as
13 it is designed to do. If the desire is for utilities to
14 implement a hedging program with different goals, these
15 new goals must be specified and approved by the
16 Commission. These goals will inform the selection of
17 various technical measures, including tolerance points
18 at which the price may be too high or too low and the
19 risk management protection should be implemented. In the
20 risk-responsive approach witness Gettings recommends,
21 the tolerance levels, confidence levels, holding period,
22 and many other factors are undetermined or undefined.
23 Without clear definitions and revised hedging
24 guidelines, Tampa Electric would be concerned about
25 using the risk-responsive approach.

1 And, even with the time to study, select and define the
2 risk-responsive parameters and memorialize them for
3 guidance with the utilities, it still seems that the
4 implementation of the "risk responsive" strategy would
5 be ripe for charges of speculation or imprudence. The
6 primary objective of the current Commission hedging
7 guidelines and utility hedging programs is to mitigate
8 price volatility while avoiding price speculation. A
9 simple way to mitigate price volatility is to employ
10 fixed price swaps. Placing hedges on a targeted-volume
11 basis throughout the year also avoids speculation. The
12 discretion to determine when to hedge is effectively
13 removed, so that an individual or company cannot attempt
14 to outguess the market. Witness Gettings describes these
15 as programmatic hedges. His testimony supports the use
16 of programmatic, defensive and contingent hedges. If the
17 witness's suggestion to implement the risk-responsive
18 hedging approach and the use of defensive and contingent
19 hedges were adopted, Tampa Electric would have concerns
20 about how the utility's hedge performance would be
21 evaluated. Without clearly defining the appropriate
22 actions, targets, triggers, and so forth, that are
23 applicable under such a hedging plan, the utilities
24 could be criticized based on hindsight. Uncertainty as
25 to how prudence will be determined exposes the company

1 to the risk of disallowances due to assertions of
2 imprudent hedging, and this is a risk the company is
3 loath to assume, as it conducts hedges solely to benefit
4 customers. As noted in the testimony of witness
5 Cicchetti, this concern was considered by the Commission
6 when the 2008 Hedging Guidelines were developed and
7 adopted.³

8
9 **Q.** Are there any other issues you want to address regarding
10 the recommendations from the Commission Staff's
11 witnesses?

12
13 **A.** Yes, there are two other issues I would like to address.
14 First, witness Cicchetti's recommended 2017
15 implementation date for the additional weekly and
16 quarterly reporting requirements recommended by witness
17 Gettings is a concern. Producing these reports would
18 require incremental work and time, and while new
19 reporting metrics can be developed, I believe further
20 discussion is needed to define the metrics. Furthermore,
21 I am not certain that such reporting would provide a
22 benefit prior to the selection of a new hedging program.

23

³ Mark A. Cicchetti testimony, pp. 9-10, submitted on September 23, 2016,
in Docket No. 160001-EI.

1 Second, implementing the risk-responsive approach to
2 hedging could cause the utility to incur incremental
3 personnel and systems costs for the enhanced and
4 continuous monitoring, reporting and quantitative
5 analysis recommended by witness Gettings. In this case,
6 I suggest those incremental hedging costs should be
7 deemed eligible for recovery through the fuel clause
8 until the time of the utility's next base rate case, as
9 was approved when the hedging programs were initially
10 implemented. These costs are not otherwise recovered in
11 rates.

12
13 **Q.** Please summarize your rebuttal testimony.

14
15 **A.** Tampa Electric recommends approval of the utilities'
16 joint petition for a reduction in the volume and
17 duration of natural gas hedges. With regard to the risk-
18 responsive approach recommended by witness Gettings, I
19 am not sure that the approach is appropriate for Florida
20 investor-owned electric utilities and their customers.
21 If the Commission decides to make changes to hedging
22 guidelines, then time is needed to reset the goals and
23 guidelines. If the Commission decides to approve the
24 risk-responsive hedging protocol suggested by witness
25 Gettings, then time is needed to develop detailed

1 definitions of terms, measurement tools and appropriate
2 actions. Under this risk-responsive approach, the
3 utilities would also need to be able to refer to a
4 defined set of expectations and guidelines under which
5 this new hedging strategy should be applied and under
6 which prudence would be determined.

7

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

9

10 **A.** Yes, it does.

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1 **CHAIRMAN BROWN:** Moving on to exhibits.

2 **MS. JANJIC:** Staff has compiled a stipulated
3 Comprehensive Exhibit List which includes the prefiled
4 exhibits attached to the witnesses' testimony as well as
5 staff's Exhibits 67 through 114. The list was provided
6 to the parties, the Commissioners, and the court
7 reporter. At this time, staff requests that the
8 Comprehensive Exhibit List be marked for identification
9 purposes as Exhibit No. 1 and that the other exhibits be
10 marked as set forth in the Comprehensive Exhibit List.

11 **CHAIRMAN BROWN:** Thank you. They are all
12 marked, as you mentioned. Thank you.

13 (Exhibits 1 through 114 marked for
14 identification.)

15 **MS. JANJIC:** Thank you.

16 **MR. BREW:** Excuse me, Madam Chairman.

17 **CHAIRMAN BROWN:** Yes, Mr. Brew.

18 **MR. BREW:** I believe it's up -- we're up to
19 115, not 114.

20 **CHAIRMAN BROWN:** She's going to get to that.
21 Just one second. Okay.

22 **MS. JANJIC:** After the Comprehensive Exhibit
23 List was finalized, PCS Phosphate requested to add an
24 additional exhibit to the list, the PCS Phosphate's
25 first set of interrogatories to DEF No. 1 including

1 Excel file Attachment PCS-A. The exhibit was provided
2 to the parties, the Commissioners, and the court
3 reporter prior to this hearing.

4 At this time, staff requests that this exhibit
5 be marked for identification purposes as Exhibit
6 No. 115.

7 **CHAIRMAN BROWN:** We will do that.

8 (Exhibit 115 marked for identification.)

9 And let's get to moving the exhibits now into
10 the record.

11 **MS. JANJIC:** Staff requests that the
12 Comprehensive Exhibit List, which we just marked as
13 Exhibit No. 1, be entered into the record.

14 **CHAIRMAN BROWN:** Seeing no objections from any
15 of the parties, we will go ahead and move into the
16 record Exhibit 1.

17 (Exhibit 1 admitted into the record.)

18 How about Exhibits 2 through 115?

19 **MS. JANJIC:** We ask that those exhibits be
20 moved into the record as set forth in the Comprehensive
21 Exhibit List.

22 **CHAIRMAN BROWN:** Any objections to entering
23 those into the record? Seeing none, we'll go ahead and
24 move Exhibits 2 through 115 into the record.

25 (Exhibits 2 through 115 admitted into the

1 record.)

2 **MS. JANJIC:** And we ask that Exhibit No. 115
3 be moved into the record as well.

4 **CHAIRMAN BROWN:** Oh, I did that. We did that.

5 **MS. JANJIC:** Oh, I'm sorry.

6 **CHAIRMAN BROWN:** We went ahead and did that.

7 All right. Bringing it back to the bench and
8 the decision.

9 **MS. JANJIC:** As of this morning, the parties
10 have reached Type 2 stipulations on all of the issues.
11 Type 2 stipulations reflect stipulations upon which
12 certain parties agree and the remaining parties take no
13 position on the proposed stipulation.

14 Staff believes it is appropriate the
15 Commission make a bench decision on the stipulated
16 issues listed in the Prehearing Order on pages
17 23 through 51, including Issue 1B as it was discussed
18 today. Staff is available to answer any questions
19 regarding the proposed stipulations.

20 **CHAIRMAN BROWN:** Okay. And thank you. And
21 just to clarify from where we were in the prehearing, so
22 all issues, as we've just discussed, are stipulated.
23 There are no contested issues, and there will be no
24 briefs if the Commissioners vote to approve all the
25 stipulations.

1 **MS. JANJIC:** That is correct. All issues have
2 been stipulated.

3 **CHAIRMAN BROWN:** Okay. Thank you for the
4 clarification.

5 All right. Commissioners, questions for
6 folks?

7 Commissioner Brisé.

8 **COMMISSIONER BRISÉ:** Yeah. No questions, just
9 a comment. I think that we are in a good place with
10 respect to the hedging. I think it addresses the
11 concerns of some of the parties and it allows us to
12 really take a deep dive into seeing if the hedging
13 program, the way it's run today, is appropriate for
14 Florida and allows us to take a look at that and have
15 input from all of the parties and all the citizens who
16 are interested in this issue, and that way we can come
17 to a conclusion that makes sense for us moving forward.
18 So I think this addresses the need that exists at this
19 moment.

20 **CHAIRMAN BROWN:** Thank you, Commissioner
21 Brisé.

22 Commissioners, any questions?

23 I have a question for staff just on process.
24 PCS is supportive of the stipulation. As a result, from
25 what we heard today of having discussions, a workshop

1 early in the year, can you just confirm that staff
2 intends to have those -- the workshop planned for early
3 in the year?

4 **MS. BROWNLESS:** Yes, ma'am. I think staff
5 does intend to have a workshop as soon as possible,
6 hopefully in January.

7 **CHAIRMAN BROWN:** Can you lay out the process
8 for us as it relates to 2017? So what will we expect to
9 see?

10 **MS. BROWNLESS:** My understanding is what we'll
11 do is have a workshop. I believe Mr. Gettings will be
12 attending that workshop, as will all of our staff. He
13 will discuss his proposal in more detail so people can
14 understand the exact mechanics of how that works. And
15 then if we need to have -- we'll get reactions from all
16 the parties as to what modifications, if any, they feel
17 need to be done, what's appropriate for them. And then
18 we'll try to come up perhaps with a second workshop, if
19 that's necessary.

20 The whole idea is to do this early enough in
21 the year so that we can reach consensus on a program
22 that can be applied to all of the IOUs and with slight
23 modifications for each to meet their individual needs
24 and something that all can agree on so that we can get
25 that filed in the 01 docket next year when the testimony

1 for the 2018 -- or 2017, I guess, risk management plan
2 has to be filed, which would be by August. So we need
3 to initiate this, in my parlance, bunny quick, so that
4 we can be moving along.

5 **CHAIRMAN BROWN:** Thank you. And if there is
6 not an agreement that comes out of the workshop or
7 workshops, what would happen in the 01 docket for 2017?

8 **MS. BROWNLESS:** Then what would happen is that
9 everyone would file their testimony and file their 2017
10 plans, and they would put forth their individual
11 strategies as to how to deal with hedging, either are
12 they going to do something similar to Mr. Gettings'
13 approach or are they going to -- you know, how are they
14 going to address it? And then we'd be approving that
15 just like we do normally in the 01 docket.

16 **CHAIRMAN BROWN:** Okay. Thank you.

17 And I do want to say I appreciate Mr. Brew's
18 comments that you just made, and I actually agree with
19 everything that you've said and I agree with everything
20 in your prehearing -- in the Prehearing Order and your
21 statements, completely am supportive of the approach,
22 with the understanding that we want utilities to do it
23 smarter. Hedging needs to be done smarter, a more
24 responsible way of hedging as we move forward with all
25 the facts and evidence that we have to date. So I just

1 wanted to make that quick comment and have a clear
2 understanding of what we're going to see over the next
3 six months to a year.

4 Commissioner Edgar.

5 **COMMISSIONER EDGAR:** Thank you. Thank you,
6 Madam Chair. First of all, thanks for the opportunity
7 to comment. I also appreciate PCS Phosphate, their
8 comments, and for working toward approval of a
9 stipulation today. I was somewhat disappointed over the
10 past year about the lack of additional options and
11 analysis of hedging that has come to the Commission.

12 (Interruption.)

13 **CHAIRMAN BROWN:** Commissioner, you're doing
14 great, but the court reporter can't hear you. So could
15 you just slow down a little bit. It's hard -- the
16 feedback is pretty heavy here, so if you could slow down
17 and just speak more clearly so she can capture it.

18 **COMMISSIONER EDGAR:** I will certainly try, and
19 my apologies. Do you want me to start over?

20 **CHAIRMAN BROWN:** Yes, please. You were doing
21 great. I heard you.

22 **COMMISSIONER EDGAR:** Thank you. Thank you,
23 and thank you for recognizing me.

24 As I was saying, I appreciate PCS Phosphate
25 working toward agreeing with the stipulation. I'm

1 pleased at the outline that has been laid out today for
2 continued work on Issue 1B and related hedging issues.
3 I was a bit disappointed this past year at the lack of
4 additional options and analysis and information that had
5 come to the Commission related to future hedging
6 practices and options. So I'm pleased this is something
7 that the Commission will be taking a deeper dive on, of
8 course, working with all interested parties and our
9 staff. I'm sorry I won't be involved in it, but I look
10 forward to watching the results of the good work.

11 The concern that I have had over the past
12 years with hedging is that there is not a knee-jerk
13 reaction that throws the baby out with the bath water,
14 realizing that part of hedging is trying to have that
15 nonexistent crystal ball.

16 So with that, if you are ready, I would move
17 approval of all issues and stipulations 1A through
18 37 for all parties as it's laid out on page 23 through
19 page 51 in the Prehearing Order. Thank you.

20 **CHAIRMAN BROWN:** Thank you, Commissioner
21 Edgar. We got that.

22 And I express a little bit of additional
23 frustration and the lack of additional information we
24 had this year on proposed options for hedging. I do
25 think hedging is very important to our utilities, to our

1 customers throughout the state of Florida, but there
2 needs to be a systematic way of doing it with the market
3 information that we have that can better address the
4 concerns raised by the intervenors in this docket.

5 So that being said, Commissioners, we have a
6 motion on the floor. Is there a proper second?

7 **COMMISSIONER BRISÉ:** Second.

8 **CHAIRMAN BROWN:** Is there further discussion?
9 Okay.

10 **MR. MOYLE:** Can --

11 **CHAIRMAN BROWN:** No, not proper.

12 All those in favor, say aye.

13 (Vote taken.)

14 Okay. Passes unanimously.

15 Mr. Moyle.

16 **MR. MOYLE:** When Ms. Brownless was responding
17 to your question about what does it look like in terms
18 of the generic proceeding, she said that if there's not
19 agreement, that there would be -- the filings would
20 continue and a 2017 plan would be filed. I think she
21 misspoke and meant to say a 2018 plan.

22 **CHAIRMAN BROWN:** '18, she -- yeah, I believe
23 --

24 **MR. MOYLE:** I just wanted to make sure that
25 that was -- that I wasn't missing anything.

1 **CHAIRMAN BROWN:** Thank you for that.

2 **MR. MOYLE:** Because I thought 2017 is gone and
3 away. I don't want to see it coming back.

4 **CHAIRMAN BROWN:** Ms. Brownless, he's right.

5 **MS. BROWNLESS:** I'm so sorry. I meant it
6 would be filed in 2017.

7 **MR. MOYLE:** Okay.

8 **CHAIRMAN BROWN:** Thank you. All right.

9 **MR. MOYLE:** Okay. Thank you for that
10 clarification.

11 **CHAIRMAN BROWN:** Thank you.

12 We have voted on the 01 docket. Are there any
13 further matters that need to be addressed since briefs
14 are no longer required or due?

15 **MS. JANJIC:** I just wanted to note one thing.
16 When she made the motion, she indicated that the
17 stipulated issues listed in the Prehearing Order on page
18 23 through 51. That does not reflect the current
19 discussion that we had on 1B, so I just wanted to make
20 sure that that was clear for the record, that 1B is
21 included and has been stipulated.

22 **CHAIRMAN BROWN:** Yes. Commissioner Edgar,
23 that was your intent; is that correct?

24 **COMMISSIONER EDGAR:** Yes.

25 **CHAIRMAN BROWN:** Yes?

1 **COMMISSIONER EDGAR:** Yes.

2 **CHAIRMAN BROWN:** And the second, I'm assuming
3 that was the intent; correct?

4 **COMMISSIONER BRISÉ:** Yes, that's correct.

5 **CHAIRMAN BROWN:** Okay. Is that clear?

6 Any other matters that need to be addressed?

7 Any additional comments before we adjourn this docket?

8 Again, thank you. Thank you to Commissioner
9 Graham for his help on this, and looking forward to
10 seeing you guys throughout the year. This is adjourned.

11 (Hearing adjourned at 10:26 a.m.)

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1 STATE OF FLORIDA)
2 : CERTIFICATE OF REPORTER
3 COUNTY OF LEON)

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 stenographically
9 reported the said proceedings; that the same has been
10 transcribed under my direct supervision; and that this
11 transcript constitutes a true transcription of my notes
12 of said proceedings.

13 I FURTHER CERTIFY that I am not a relative,
14 employee, attorney, or counsel of any of the parties,
15 nor 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, 2016.

19
20
21
22
23
24
25

Linda Boles
LINDA BOLES, CRR, RPR
Official FPSC Hearings Reporter
Office of Commission Clerk
(850) 413-6734