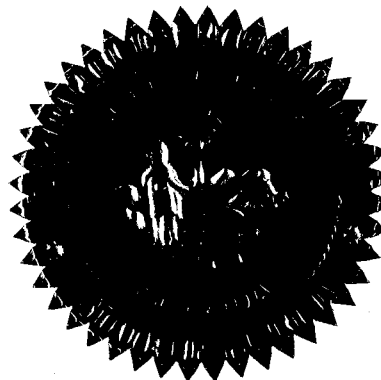


BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 060007-EI

In the Matter of

ENVIRONMENTAL COST RECOVERY
CLAUSE.



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VOLUME 2

Pages 206 through 306

PROCEEDINGS: HEARING

BEFORE: CHAIRMAN LISA POLAK EDGAR
COMMISSIONER J. TERRY DEASON
COMMISSIONER ISILIO ARRIAGA
COMMISSIONER MATTHEW M. CARTER, II
COMMISSIONER KATRINA J. TEW

DATE: Monday, November 6, 2006

TIME: Commenced at 9:30 a.m.

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

REPORTED BY: JANE FAUROT, RPR
Official FPSC Reporter
(850) 413-6732

PARTICIPATING: (As heretofore noted.)

FLORIDA PUBLIC SERVICE COMMISSION

DOCUMENT NUMBER-DATE

10537 NOV 17 06

FPSC-COMMISSION CLERK

1 I N D E X

2 WITNESSES

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EXHIBITS

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NUMBER:		ID.	ADMTD.
1	Comprehensive Exhibit List	263	302
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1 **BEFORE THE PUBLIC SERVICE COMMISSION**2 **PREPARED DIRECT TESTIMONY**3 **OF**4 **HOWARD T. BRYANT**5
6 **Q.** Please state your name, address, occupation and employer.
78 **A.** My name is Howard T. Bryant. My business address is 702
9 North Franklin Street, Tampa, Florida 33602. I am
10 employed by Tampa Electric Company ("Tampa Electric" or
11 "Company") in the position of Manager, Rates in the
12 Regulatory Affairs Department.
1314 **Q.** Please provide a brief outline of your educational
15 background and business experience.
1617 **A.** I graduated from the University of Florida in June 1973
18 with a Bachelor of Science degree in Business
19 Administration. I have been employed at Tampa Electric
20 since 1981. My work has included various positions in
21 Customer Service, Energy Conservation Services, Demand
22 Side Management ("DSM") Planning, Energy Management and
23 Forecasting, and Regulatory Affairs. In my current
24 position, I am responsible for the company's Energy
25 Conservation Cost Recovery ("ECCR") clause, the

1 Environmental Cost Recovery Clause ("ECRC"), and retail
2 rate design.

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

6
7 **A.** Yes. I have testified before this Commission on
8 conservation and load management activities, DSM goals
9 setting and DSM plan approval dockets, and other ECCR
10 dockets since 1993, and ECRC activities since 2001.

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

13
14 **A.** The purpose of my testimony is to present, for Commission
15 review and approval, the actual true-up amount for the
16 ECRC and the calculations associated with the
17 environmental compliance activities for the January 2005
18 through December 2005 period.

19
20 **Q.** Did you prepare any exhibits in support of your
21 testimony?

22
23 **A.** Yes. Exhibit No. _____ (HTB-1) consists of eight forms
24 prepared under my direction and supervision. Form 42-1A,
25 Document No. 1, presents the final true-up for the

1 January 2005 through December 2005 period; Form 42-2A,
2 Document No. 2, provides the detailed calculation of the
3 actual true-up for the period; Form 42-3A, Document No.
4 3, details the calculation of the interest provision for
5 the period; Form 42-4A, Document No. 4, reflects the
6 calculation of variances between actual and
7 actual/estimated costs for O&M activities; Form 42-5A,
8 Document No. 5, provides a summary of actual monthly O&M
9 activity costs for the period; Form 42-6A, Document No.
10 6, provides details of the calculation of variances
11 between actual and actual/estimated costs for capital
12 investment projects; Form 42-7A, Document No. 7, presents
13 a summary of actual monthly costs for capital investment
14 projects for the period; Form 42-8A, Document No. 8,
15 pages 1 through 23, consists of the calculation of
16 depreciation expenses and return on capital investment
17 for each project that is being recovered through the
18 ECRC, and page 24 calculates the net expenses associated
19 with maintaining an SO₂ allowance inventory.

20
21 **Q.** What is the source of the data presented by way of your
22 testimony or exhibits in this process?

23
24 **A.** Unless otherwise indicated, the actual data is taken from
25 the books and records of Tampa Electric. The books and

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

5
6 **Q.** What is the actual true-up amount Tampa Electric is
7 requesting for the January 2005 through December 2005
8 period?

9
10 **A.** Tampa Electric has calculated and is requesting approval
11 of an over-recovery of \$77,452,269 as the actual true-up
12 amount for the January 2005 through December 2005 period.

13
14 **Q.** What is the adjusted net true-up amount Tampa Electric is
15 requesting for the January 2005 through December 2005
16 period which is to be applied in the calculation of the
17 environmental cost recovery factors to be
18 refunded/(recovered) in the 2007 projection period?

19
20 **A.** Tampa Electric has calculated and is requesting approval
21 of an under-recovery of \$23,609,173 reflected on Form 42-
22 1A, as the adjusted net true-up amount for the January
23 2005 through December 2005 period. This adjusted net
24 true-up amount is the difference between the actual over-
25 recovery and the actual/estimated over-recovery for the

1 January 2005 through December 2005 period as depicted on
2 Form 42-1A. The actual true-up amount for the January
3 2005 through December 2005 period is an over-recovery of
4 \$77,452,269 as compared to the \$101,061,442
5 actual/estimated over-recovery amount approved in FPSC
6 Order No. PSC-05-1251-FOF-EI issued December 22, 2005.
7

8 **Q.** Are all costs listed in Forms 42-4A through 42-8A
9 attributable to environmental compliance projects
10 approved by the Commission?
11

12 **A.** All costs listed in Forms 42-4A through 42-8A for which
13 Tampa Electric is seeking recovery are attributable to
14 environmental compliance projects approved by the
15 Commission. However, Form 42-8A, pages 20 - 23, provides
16 expenditures associated with Big Bend Units 1 - 4
17 Selective Catalytic Reduction ("SCR") projects and are
18 only included at this time for identification and
19 tracking purposes. Recovery of these expenditures is not
20 included in the 2005 ECRC True-Up. Consistent with the
21 Commission's decisions in Docket Nos. 980693-EI, 040007-
22 EI, 040750-EI and 041376-EI, the company will not seek
23 recovery of the SCR project costs associated with these
24 environmental compliance projects until each project is
25 both approved and placed in-service. Big Bend Unit 4 SCR

1 was approved in Docket No. 040750-EI, Order No. PSC-04-
2 0986-PAA-EI and is projected to be in-service June 2007.
3 Big Bend Units 1-3 SCRs were approved in Docket No.
4 041376-EI, Order No. PSC-05-0502-PAA-EI and are projected
5 to be in-service May 2008, May 2009 and May 2010,
6 respectively.

7
8 **Q.** Please explain the two adjustments of \$11,089 and \$78,494
9 contained on Form 42-2A, line 10.

10
11 **A.** The adjustment for \$11,089 represents SO₂ allowance
12 revenue from economy sales made from Tampa Electric's
13 generating system during 2004. This revenue is an offset
14 to SO₂ allowance costs collected through the ECRC;
15 however, the company discovered the inadvertent omission
16 of this revenue subsequent to filing the 2004 ECRC true-
17 up. With this adjustment and its associated interest,
18 customers have been made whole.

19
20 During the 2005 Commission audit of Tampa Electric's 2004
21 ECRC true-up, it was determined that the company had not
22 updated depreciation rates for certain capital projects
23 to be consistent with the rates approved in Docket No.
24 030409-EI, Order No. PSC-04-0815-PAA-EI, issued August
25 20, 2004. The adjustment for \$78,494 represents an over-

1 recovery of depreciation expense with associated interest
2 resulting from the revised depreciation rates being
3 applied to the appropriate projects for 2004.
4

5 **Q.** Is Tampa Electric including costs in this ECRC true-up
6 filing for any environmental projects that were not
7 anticipated and included in its 2005 factors?
8

9 **A.** Yes. On November 10, 2004, Tampa Electric filed a
10 petition for approval of cost recovery for the Clean
11 Water Act Section 316(b) Phase II Study project. In
12 Docket No. 041300-EI, Order No. PSC-05-0164-PAA-EI,
13 issued February 10, 2005, the Commission granted cost
14 recovery approval for prudent costs associated with the
15 project. This project was identified in the
16 actual/estimated projection filing and was included in
17 the 2006 projection filing.
18

19 In addition, On September 29, 2005, Tampa Electric filed
20 a petition for approval of cost recovery for the Arsenic
21 Ground Water Standard Program project. In Docket No.
22 050683-EI Order No. PSC-06-0138-PAA-EI, issued February
23 23, 2006, the Commission granted cost recovery approval
24 for prudent costs associated with the project.
25

1 The actual 2005 costs for both projects are included in
2 this ECRC true-up filing.

3
4 **Q.** How did actual expenditures for the January 2005 through
5 December 2005 period compare with Tampa Electric's
6 actual/estimated projections as presented in previous
7 testimony and exhibits?

8
9 **A.** As shown on Form 42-4A, total O&M activities costs were
10 \$23,254,673 or 25.0 percent greater than actual/estimated
11 projections. Form 42-6A shows the total capital
12 investment costs were \$23,213 or 0.1 percent lower than
13 actual/estimated projections. O&M and capital investment
14 projects with material variances from the 2005
15 Actual/Estimated True-Up filing are explained below.

16
17 **O&M Project Variances**

- 18 • **Big Bend Unit 3 Flue Gas Desulfurization Integration:** The
19 Big Bend Unit 3 Flue Gas Desulfurization Integration
20 project variance was \$177,745 or 7.0 percent greater than
21 projected due to an increase in consumables, principally
22 limestone and maintenance stemming from greater unit
23 output than originally projected.
- 24 • **SO₂ Emissions Allowances:** The SO₂ Emission Allowances
25 project variance was \$22,912,238 or 22.4 percent greater

1 than projected. The variance is due to the delayed sale
2 of a small portion of SO₂ allowances originally projected
3 to occur in late 2005 that actually transpired in early
4 2006.

- 5 • **Bend Unit 1 & 2 Flue Gas Desulfurization:** The Big Bend
6 Units 1 & 2 Flue Gas Desulfurization project variance was
7 \$544,573 or 11.0 percent greater than projected. This
8 variance is due to an increase in consumables from a
9 higher unit output than originally projected.
- 10 • **Big Bend PM Minimization and Monitoring:** The Big Bend PM
11 Minimization and Monitoring project variance was \$45,427
12 or 11.6 percent lower than projected due to continuous
13 emissions monitoring activity that was delayed until
14 2006. Also, contracted labor for maintenance was reduced
15 for the year through the utilization of internal labor
16 resources not recovered through the clause.
- 17 • **Big Bend NO_x Emissions Reduction:** The Big Bend NO_x
18 Emissions Reduction project variance was \$84,683 or 14.8
19 percent lower than projected due to less than anticipated
20 maintenance and testing activities.
- 21 • **Gannon Thermal Discharge Study:** The Gannon Thermal
22 Discharge Study project variance was \$243,366 or 55.7
23 percent lower than projected. The variance was due to an
24 unusually wet seasonal condition which limited dry season
25 sampling. Dry sampling is expected to continue in early

1 2006.

- 2 • **Polk NO_x Emissions Reduction:** The Polk NO_x Emissions
3 Reduction project variance was \$3,736 or 11.3 percent
4 lower than projected. The variance was due to lower than
5 anticipated maintenance as well as lower than expected
6 saturator expense as a result of a combustion turbine
7 outage.
- 8 • **Big Bend Unit 4 SOFA:** The Big Bend Unit 4 SOFA project
9 variance was \$5,842 or 97.4 percent lower than projected
10 due to the newness of the equipment and it requiring less
11 maintenance than originally anticipated.
- 12 • **Clean Water Act Section 316(b) Phase II Study:** The Clean
13 Water Act Section 316(b) Phase II Study was \$15,456 or
14 5.0 percent less than projected due to lower than
15 anticipated project costs and timing of invoices.
- 16 • **Arsenic Groundwater Standard Program:** The Arsenic
17 Groundwater Standard Program was \$21,752 greater than
18 projected due to the project not being filed at the time
19 of the submission of the 2005 actual/estimated true-up
20 filing. The Petition seeking cost recovery for this
21 project was filed with the Florida Public Service
22 Commission on September 29, 2005.
- 23
24
25

1 **Capital Investment Project Variances**

- 2 • **Big Bend Unit 1 Pre-SCR:** The Big Bend Unit 1 Pre-SCR
3 project variance was \$12,096 or 18.9 percent less than
4 projected due to lower than anticipated installation
5 costs.
- 6 • **Big Bend Unit 3 Pre-SCR:** The Big Bend Unit 3 Pre-SCR
7 project variance was \$483 or 79.8 percent higher than
8 projected due to the early payment of invoices in 2005
9 that were originally projected to be paid in 2006.

10

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

12

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

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BEFORE THE PUBLIC SERVICE COMMISSION

PREPARED DIRECT TESTIMONY

OF

HOWARD T. BRYANT

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

A. My name is Howard T. Bryant. My business address is 702 North Franklin Street, Tampa, Florida 33602. I am employed by Tampa Electric Company ("Tampa Electric" or "Company") in the position of Manager, Rates in the Regulatory Affairs Department.

Q. Please provide a brief outline of your educational background and business experience.

A. I graduated from the University of Florida in June 1973 with a Bachelor of Science degree in Business Administration. I have been employed at Tampa Electric since 1981. My work has included various positions in Customer Service, Energy Conservation Services, Demand Side Management ("DSM") Planning, Energy Management and Forecasting, and Regulatory Affairs. In my current position I am responsible for the company's Energy Conservation Cost Recovery ("ECCR") clause, the

1 Environmental Cost Recovery Clause ("ECRC"), and retail
2 rate design.

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

6
7 **A.** Yes. I have testified before this Commission on
8 conservation and load management activities, DSM goals
9 setting and DSM plan approval dockets, and other ECCR
10 dockets since 1993, and ECRC activities since 2001.

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

13
14 **A.** The purpose of my testimony is to present, for Commission
15 review and approval, the calculation of the January 2006
16 through December 2006 estimated true-up amount to be
17 refunded or recovered through the ECRC during January
18 2007 through December 2007. My testimony addresses the
19 recovery of capital and operating and maintenance ("O&M")
20 costs associated with environmental compliance activities
21 for 2006, based on six months of actual data and six
22 months of estimated data. This information will be used
23 to determine the environmental cost recovery factors for
24 January 2007 through December 2007.

25

- 1 **Q.** Have you prepared an exhibit that shows the determination
2 of the recoverable environmental costs for the period
3 January 2006 through December 2006?
4
- 5 **A.** Yes. Exhibit No. _____ (HTB-2), containing one document,
6 was prepared under my direction and supervision. It
7 includes Forms 42-1E through 42-8E which show the current
8 period estimated true-up amount to be used in calculating
9 the cost recovery factors for January 2007 through
10 December 2007.
11
- 12 **Q.** Please explain the one time adjustment of \$41,743
13 contained on Form 42-2E, line 10.
14
- 15 **A.** The adjustment of \$41,743, including interest, represents
16 an inadvertent error that occurred when calculating the
17 actual O&M expense for the Big Bend Units 1 and 2 Flue
18 Gas Desulfurization project. The error was discovered
19 and corrected during the 2006 Commission audit of Tampa
20 Electric's 2005 ECRC true-up. With this adjustment,
21 Tampa Electric customers have been made whole.
22
- 23 **Q.** What has Tampa Electric calculated as the estimated true-
24 up for the current period to be applied to the January
25 2007 through December 2007 ECRC factors?

1 **A.** The estimated true-up applicable for the current period,
2 January 2006 through December 2006, is an over-recovery
3 of \$58,359,404. A detailed calculation supporting the
4 estimated true-up is shown on Forms 42-1E through 42-8E
5 of my exhibit.

6
7 **Q.** Is Tampa Electric including costs in this estimated true-
8 up filing for any environmental projects that were not
9 anticipated and included in its 2006 factors?

10
11 **A.** Yes. On September 29, 2005, Tampa Electric filed a
12 petition for approval of cost recovery of the Arsenic
13 Groundwater Standard Program which is required by the
14 Environmental Protection Agency and the Department of
15 Environmental Protection. Effective January 1, 2005
16 regulated entities of the State of Florida are required
17 to monitor the drinking water and groundwater Maximum
18 Contaminant Level for arsenic under the federal rule
19 known as the Safe Drinking Water Act.

20
21 In Docket No. 050683-EI, Order No. PSC-06-0138-PAA-EI,
22 issued February 23, 2006, the Commission granted Tampa
23 Electric cost recovery approval for prudent costs
24 associated with this project. The new standard applies
25 to Tampa Electric's H.L. Culbreath Bayside, Big Bend and

1 Polk Power Stations.

2

3 Additionally, Tampa Electric filed a petition on December
4 27, 2005, for approval of cost recovery for the Big Bend
5 Flue Gas Desulfurization ("FGD") Reliability project.
6 This project is necessary to reliably maintain FGD system
7 operations after the 2009 and 2012 Big Bend Station
8 deadlines required by the Consent Decree.

9

10 In Docket No. 050598-EI, Order No. PSC-06-0602-PAA-EI,
11 issued July 10, 2006, the Commission granted cost
12 recovery approval for prudent costs associated with this
13 project. The FGD reliability project will run
14 concurrently with the installation of selective catalytic
15 reduction ("SCR") systems on the generating units.

16

17 On the July 21, 2006 the Office of Public Counsel ("OPC")
18 filed a protest to the aforementioned Commission order.
19 Pending the outcome of the protest, the company will
20 proceed with the inclusion of the prudently incurred FGD
21 costs in the ECRC and respond accordingly to OPC's
22 protest.

23

24 The anticipated 2006 costs associated with both of these
25 projects are included in this estimated ECRC true-up

1 filing.

2
3 **Q.** How did the actual/estimated project expenditures for
4 January 2006 through December 2006 period compare with
5 the company's original projection?
6

7 **A.** As shown on Form 42-4E, total O&M activities were
8 \$55,861,207 lower than projected costs. Total capital
9 expenditures itemized on Form 42-6E, were \$10,175 greater
10 than originally projected. O&M and capital investment
11 projects with material variances are explained below.
12

13 **O&M Project Variances**

- 14 • **Big Bend Unit 3 Flue Gas Desulfurization Integration:** The
15 Big Bend Unit 3 Flue Gas Desulfurization Integration
16 project variance is estimated to be \$1,553,858 or 60.1
17 percent greater than originally projected due to an
18 increase in the use of consumables, principally limestone
19 and chemicals, stemming from greater unit output.
20 Additionally, structural steel repairs were necessary on
21 the absorber feed tank as well as two towers.
- 22 • **SO₂ Emission Allowances:** The SO₂ Emission Allowances
23 project variance is estimated to be \$57,586,724 less than
24 originally projected. The variance is due to the sale of
25 SO₂ allowances originally projected to occur in late 2005

1 that actually transpired in early 2006. Additionally,
2 Tampa Electric plans to take advantage of forecasted
3 favorable pricing in the SO₂ allowance market and thereby
4 pass the revenue from the allowance sales directly to
5 customers as an offset to the otherwise projected
6 allowance expenses for 2006.

- 7 • **Big Bend Units 1 and 2 Flue Gas Desulfurization:** The Big
8 Bend Unit 1 and 2 Flue Gas Desulfurization project
9 variance is estimated to be \$734,996 or 14.3 percent
10 greater than originally projected due to an increase in
11 the use of consumables, principally limestone and
12 chemicals, stemming from greater unit output.
- 13 • **Big Bend PM Minimization and Monitoring:** The Big Bend PM
14 Minimization and Monitoring project variance is estimated
15 to be \$474,990 or 59.4 percent less than originally
16 projected due to the continuous emissions monitoring
17 activity that will be delayed until 2007. Also, the
18 project required less maintenance than originally
19 anticipated.
- 20 • **Big Bend NO_x Emissions Reduction:** The Big Bend NO_x
21 Emissions Reduction project variance is estimated to be
22 \$150,647 or 21.5 percent greater than originally
23 projected due to unanticipated inspections on boiler
24 tubes and burner modifications.
- 25 • **Gannon Thermal Discharge Study:** The Gannon Thermal

1 Discharge Study project variance is estimated to be
2 \$35,123 or 70.2 percent higher than originally projected.
3 The variance is due to unusually wet conditions in 2005,
4 which limited dry season sampling. For that reason, the
5 dry season sampling was completed in early 2006.

- 6 • **Polk NO_x Emissions Reduction:** The Polk NO_x Emissions
7 Reduction project variance is estimated to be \$16,100 or
8 67.1 percent greater than originally projected due to a
9 greater amount of maintenance to the saturator than
10 anticipated.
- 11 • **Big Bend Unit 4 SOFA:** The Big Bend Unit 4 SOFA project
12 variance is estimated to be \$63,362 or 84.5 percent lower
13 than originally projected due to less maintenance
14 activity than anticipated.
- 15 • **Big Bend Unit 1 Pre-SCR:** The Big Bend Unit 1 Pre-SCR
16 project variance is estimated to be \$50,000 or 100
17 percent less than originally projected due to the delay
18 of the in-service date for the capital project.
- 19 • **Big Bend Unit 2 Pre-SCR:** The Big Bend Unit 2 Pre-SCR
20 project variance is estimated to be \$75,000 or 100
21 percent less than originally projected due to the delay
22 of the in-service date for the capital project.
- 23 • **Big Bend Unit 3 Pre-SCR:** The Big Bend Unit 3 Pre-SCR
24 project variance is estimated to be \$25,000 or 100
25 percent less than originally projected due to the delay

1 of the in-service date for the capital project.

- 2 • **Clean Water Act Section 316(b) Phase II Study:** The Clean
3 Water Act Section 316(b) Phase II Study project variance
4 is estimated to be \$82,094 or 10.8 percent less than
5 projected. The variance is due to the sampling of the
6 impingement survival study occurring at a slower rate
7 than originally projected. The sampling activity is
8 anticipated to resume the normal schedule for 2007.
- 9 • **Arsenic Groundwater Standard Program:** The Arsenic
10 Groundwater Standard Program variance is estimated to be
11 \$5,595 due to the project not being filed at the time of
12 the submission of the 2006 projection filing.

13
14 **Capital Investment Project Variances**

- 15 • **Big Bend Unit 1 Pre-SCR:** The Big Bend Unit 1 Pre-SCR
16 project variance is estimated to be \$11,935 or 7.8
17 percent greater than the original projection due to
18 higher than anticipated windbox material costs and neural
19 network tuning expenses, which will occur during the fall
20 2006 maintenance outage.
- 21 • **Big Bend Unit 3 Pre-SCR:** The Big Bend Unit 3 Pre-SCR
22 project variance is estimated to be \$13,686 or 16.4
23 percent less than the original projection due to the
24 early payment of invoices in 2005 that were originally
25 projected to be paid in the spring of 2006.

1 • **Big Bend FGD Reliability:** The Big Bend FGD Reliability
2 project variance is estimated to be \$39,435 due to the
3 project not being filed at the time of the submission of
4 the 2006 projection filing.

5 • **SO₂ Emission Allowances:** The SO₂ Emission Allowances
6 project variance is estimated to be \$8,417 or 8.4 percent
7 less than originally projected. The variance is due to
8 the sale of a portion of SO₂ allowances originally
9 projected to occur in late 2005 that actually transpired
10 in early 2006 as well as the projected sale of allowances
11 during the balance of 2006.

12
13 **Q.** Does this conclude your testimony?

14
15 **A.** Yes, it does.
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1 Environmental Cost Recovery Clause ("ECRC"), and retail
2 rate design.

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

6
7 **A.** Yes. I have testified before this Commission on
8 conservation and load management activities, DSM goals
9 setting and DSM plan approval dockets, and other ECRC
10 dockets since 1993, and ECRC activities since 2001.

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

13
14 **A.** The purpose of my testimony is to present, for Commission
15 review and approval, both the calculation of the revenue
16 requirements and the projected ECRC factors for the
17 period of January 2007 through December 2007. In support
18 of the projected ECRC factors, my testimony identifies
19 the capital and operating and maintenance ("O&M") costs
20 associated with environmental compliance activities for
21 the year 2007.

22
23 **Q.** Have you prepared an exhibit that shows the determination
24 of recoverable environmental costs for the period of
25 January 2007 through December 2007?

- 1 **A.** Yes. Exhibit No. ____ (HTB-3), containing one document,
2 was prepared under my direction and supervision. It
3 includes Forms 42-1P through 42-7P which show the
4 calculation and summary of O&M and capital expenditures
5 that support the development of the environmental cost
6 recovery factors for 2007.
7
- 8 **Q.** What has Tampa Electric calculated as the net true-up to
9 be applied in the period January 2007 through December
10 2007?
11
- 12 **A.** The net true-up applicable for this period is an over-
13 recovery of \$34,738,235. This consists of the final
14 true-up under-recovery of \$23,609,173 for the period of
15 January 2005 through December 2005 and an estimated true-
16 up over-recovery of \$58,347,408 for the current period of
17 January 2006 through December 2006. The detailed
18 calculation supporting the estimated net true-up was
19 provided on Forms 42-1E through 42-8E of Exhibit No. ____
20 (HTB-2) filed with the Commission on August 4, 2006 with
21 revisions to Forms 42-1E, 42-2E, 42-3E, 42-6E, 42-7E and
22 42-8E filed with the Commission on August 16, 2006.
23
- 24 **Q.** What is the major contributing factor that has created
25 the significant net over-recovery to be applied to the

1 company's ECRC rates for the period January 2007 through
2 December 2007?

3

4 **A.** The major contributing factor that has created the
5 significant net over-recovery is the sale of
6 approximately \$56 million worth of surplus SO₂ emission
7 allowances during 2006.

8

9 Subsequent to the repowering project at Bayside Power
10 Station, Tampa Electric conducted a thorough evaluation
11 of its SO₂ emission allowance needs for a 20-year horizon.
12 The evaluation indicated two key facts: 1) the company
13 would have a significant surplus of allowances, and 2)
14 the allowance needs for the company's generation fleet
15 would be adequately covered by the remaining allowance
16 inventory after the sale of the surplus. Enhancing the
17 decision to sell the surplus was the high allowance
18 prices available in the marketplace.

19

20 **Q.** Does Tampa Electric anticipate the sale of surplus SO₂
21 allowances during 2007?

22

23 **A.** Yes. The company anticipates the sale of approximately
24 \$74 million worth of surplus SO₂ allowances during 2007.
25 Additional details associated with the 2007 sale are

1 provided by Tampa Electric Witness, Gregory M. Nelson.

2
3 The revenues from the allowance sales have an immediate,
4 direct benefit to Tampa Electric customers since they
5 offset environmental expenses. Form 42-7P of my attached
6 exhibit provides the proposed 2007 ECRC factors by rate
7 class. As demonstrated, the average ECRC factor is a
8 credit of 0.345 cents per kilowatt hour ("kWh") or a
9 credit of \$3.45 per 1,000 kWh.

10
11 **Q.** Has Tampa Electric proposed any new environmental
12 compliance projects for ECRC cost recovery for the period
13 from January 2007 through December 2007?

14
15 **A.** Yes. On August 30, 2006, Tampa Electric submitted a
16 petition seeking approval for cost recovery for the Clean
17 Air Mercury Rule ("CAMR") program to the Commission. As
18 stated in Witness Greg M. Nelson's Direct Testimony, the
19 EPA established standards of performance for mercury
20 emissions for new and existing coal-fired electric utility
21 steam generating units as defined in the federal Clean Air
22 Act Section 111, known as CAMR, effective January 2009.
23 CAMR will permanently cap and reduce mercury emissions
24 nation-wide in two phases: Phase I cap is 38 tons per year
25 with a compliance date of 2010 and Phase II cap is 15 tons

1 per year with a compliance date of 2018. The Florida
2 Department of Environmental Protection ("FDEP")
3 administers the CAMR as delineated in Chapter 62-204, 62-
4 210 and 62-296, Florida Administrative Code ("F.A.C.").

5
6 Tampa Electric's Big Bend and Polk Power Stations will be
7 affected by the nation-wide mercury emissions reduction
8 rule. To begin the process for rule compliance, the
9 company will install monitoring systems that will sample
10 mercury found in flue gas.

11
12 **Q.** What are the existing capital projects included in the
13 calculation of the ECRC factors for 2007?

14
15 **A.** Tampa Electric proposes to include for ECRC recovery the
16 22 previously approved capital projects and their
17 projected costs in the calculation of the ECRC factors
18 for 2007. These projects are: 1) Big Bend Unit 3 Flue
19 Gas Desulfurization ("FGD") Integration, 2) Big Bend
20 Units 1 and 2 Flue Gas Conditioning, 3) Big Bend Unit 4
21 Continuous Emissions Monitors, 4) Big Bend Unit 1
22 Classifier Replacement, 5) Big Bend Unit 2 Classifier
23 Replacement, 6) Big Bend Section 114 Mercury Testing
24 Platform, 7) Big Bend Units 1 and 2 FGD, 8) Big Bend FGD
25 Optimization and Utilization, 9) Big Bend NO_x Emissions

1 Reduction, 10) Big Bend Particulate Matter ("PM")
2 Minimization and Monitoring, 11) Polk NO_x Emissions
3 Reduction, 12) Big Bend Unit 4 SOFA, 13) Big Bend Fuel
4 Oil Tank No. 1 Upgrade, 14) Big Bend Fuel Oil Tank No. 2
5 Upgrade, 15) Phillips Tank No. 1 Upgrade, 16) Phillips
6 Tank No. 4 Upgrade, 17) Big Bend Unit 1 Pre-SCR, 18) Big
7 Bend Unit 2 Pre-SCR, 19) Big Bend Unit 3 Pre-SCR, 20) Big
8 Bend Unit 4 SCR 21) Big Bend FGD Reliability and 22) SO₂
9 Emission Allowances. Some of these projects will be
10 described in more detail by Tampa Electric Witness,
11 Gregory M. Nelson.

12
13 **Q.** Have you prepared schedules showing the calculation of
14 the recoverable capital project costs for 2007?

15
16 **A.** Yes. Form 42-3P contained in Exhibit No. ____ (HTB-3)
17 summarizes the cost estimates projected for these
18 projects. Form 42-4P, pages 1 through 26, provides the
19 calculations of the costs which result in recoverable
20 jurisdictional capital costs of \$24,087,724.

21
22 **Q.** What are the existing O&M projects included in the
23 calculation of the ECRC factors for 2007?

24
25 **A.** Tampa Electric proposes to include for ECRC recovery the

1 17 previously approved O&M projects and their projected
2 costs in the calculation of the ECRC factors for 2007.
3 These projects are: 1) Big Bend Unit 3 FGD Integration,
4 2) Big Bend Units 1 and 2 Flue Gas Conditioning, 3) SO₂
5 Emissions Allowances, 4) Big Bend Units 1 and 2 FGD, 5)
6 Big Bend PM Minimization and Monitoring, 6) Big Bend NO_x
7 Emissions Reduction, 7) Polk NO_x Emissions Reduction, 8)
8 Bayside SCR Consumables, 9) Big Bend Unit 4 SOFA, 10) Big
9 Bend Unit 1 Pre-SCR, 11) Big Bend Unit 2 Pre-SCR, 12) Big
10 Bend Unit 3 Pre-SCR, 13) Big Bend Unit 4 SCR, 14) NPDES
11 Annual Surveillance Fees, 15) Gannon Thermal Discharge
12 Study, 16) Clean Water Act Section 316(b) Phase II Study,
13 and 17) Arsenic Groundwater Standard Program. Some of
14 these projects will be described in more detail by Tampa
15 Electric Witness, Gregory M. Nelson.

16
17 **Q.** Have you prepared schedules showing the calculation of
18 the recoverable O&M project costs for 2007?

19
20 **A.** Yes. Form 42-2P contained in Exhibit No. ____ (HTB-3)
21 summarizes the recoverable jurisdictional O&M costs for
22 these projects which total (\$58,152,247) for 2007.

23
24 **Q.** Do you have a schedule providing the description and
25 progress reports for all environmental compliance

1 activities and projects?

2

3 **A.** Yes. Project descriptions and progress reports, as well
4 as the projected recoverable cost estimates, are provided
5 in Form 42-5P, pages 1 through 31.

6

7 **Q.** What are the total projected jurisdictional costs for
8 environmental compliance in the year 2007?

9

10 **A.** The total jurisdictional O&M and capital expenditures to
11 be recovered through the ECRC are calculated on Form 42-
12 1P. These expenditures total (\$34,064,523).

13

14 **Q.** How were environmental cost recovery factors calculated?

15

16 **A.** The environmental cost recovery factors were calculated
17 as shown on Schedules 42-6P and 42-7P. The demand
18 allocation factors were calculated by determining the
19 percentage each rate class contributes to the monthly
20 system peaks and then adjusted for losses for each rate
21 class. The energy allocation factors were determined by
22 calculating the percentage that each rate class
23 contributes to total kWh sales and then adjusted for
24 losses for each rate class. This information was
25 obtained from Tampa Electric's 2004 load research study.

1 Form 42-7P presents the calculation of the proposed ECRC
2 factors by rate class.

3
4 **Q.** What are the 2007 ECRC billing factors by rate class for
5 which Tampa Electric is seeking approval?

6
7 **A.** The computation of the billing factors is shown on Form
8 42-7P. In summary, the 2007 proposed ECRC billing
9 factors are credits as follows:

11	<u>Rate Class</u>	<u>Factor (¢/kWh)</u>
12	Average Factor	(0.345)
13	RS, RST	(0.344)
14	GS, GST, TS	(0.345)
15	GSD, GSDT	(0.347)
16	GSLD, GSLDT, SBF	(0.345)
17	IS1, IST1, SBI1, IS3, IST3, SBI3	(0.340)
18	SL, OL	(0.358)

19
20 **Q.** When does Tampa Electric propose to begin applying these
21 environmental cost recovery credits?

22
23 **A.** The environmental cost recovery credits will be effective
24 concurrent with the first billing cycle for January 2007.

25

1 Q. Are the costs Tampa Electric is requesting for recovery
2 through the ECRC for the period January 2007 through
3 December 2007 consistent with criteria established for
4 ECRC recovery in Order No. PSC-94-0044-FOF-EI?

5

6 A. Yes. The costs for which ECRC treatment is requested
7 meet the following criteria:

8

- 9 1. such costs were prudently incurred after April 13,
10 1993;
- 11 2. the activities are legally required to comply with a
12 governmentally imposed environmental regulation
13 enacted, became effective or whose effect was
14 triggered after the company's last test year upon
15 which rates are based; and
- 16 3. such costs are not recovered through some other cost
17 recovery mechanism or through base rates.

18

19 Q. Please summarize your testimony.

20

21 A. My testimony supports the approval of a final average
22 environmental billing factor credit of 0.345 cents per
23 kWh which includes projected capital and O&M revenue
24 requirements of (\$34,064,523) associated with a total of
25 31 environmental projects and a true-up over-recovery

1 provision of \$34,738,235 primarily driven by SO₂ allowance
2 sales. My testimony also explains that the projected
3 environmental expenditures for 2007 are appropriate for
4 recovery through the ECRC.

5

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

7

8 **A.** Yes, it does.

9

10

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

PREPARED DIRECT TESTIMONY

OF

GREGORY M. NELSON

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

A. My name is Gregory M. Nelson. My business address is 702 North Franklin Street, Tampa, Florida 33602. I am employed by Tampa Electric Company ("Tampa Electric" or "company") as Director, Environmental, Health and Safety in the Generation Services.

Q. Please provide a brief outline of your educational background and business experience.

A. I received a Bachelors Degree in Mechanical Engineering from the Georgia Institute of Technology in 1982 and a Masters of Business Administration from the University of South Florida in 1987. I am a registered Professional Engineer in the State of Florida. I began my engineering career in 1982 in Tampa Electric's Engineering Development Program. In 1983, I worked in the Production Department where I was responsible for power plant performance projects. Since 1986, I have held various

1 environmental permitting and compliance positions. In
2 1997, I was promoted to Administrator - Air Programs in
3 the Environmental Planning Department. In this position,
4 I was responsible for all air permitting and compliance
5 programs. In 1998, I was promoted to Manager,
6 Environmental Planning and in 2000 I became Director,
7 Environmental Affairs. In 2003, I became Director,
8 Environmental, Health and Safety and my present
9 responsibilities include the management of Tampa
10 Electric's environmental permitting and compliance
11 programs as well as generation safety programs.

12
13 **Q.** Have you previously testified before the Florida Public
14 Service Commission ("Commission")?

15
16 **A.** Yes, I have provided testimony regarding environmental
17 projects and their associated environmental requirements
18 in various Environmental Cost Recovery Clause ("ECRC")
19 proceedings before this Commission.

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

22
23 **A.** The purpose of my testimony is to demonstrate that the
24 activities for which Tampa Electric seeks cost recovery
25 through the ECRC for the January 2007 through December

1 2007 projection period are activities necessary for the
2 company to comply with various environmental
3 requirements. Specifically, I will describe the ongoing
4 activities that are associated with the Consent Final
5 Judgment ("CFJ") entered into with the Florida Department
6 of Environmental Protection ("FDEP") and the Consent
7 Decree ("CD") lodged with the U.S. Environmental
8 Protection Agency ("EPA") and the Department of Justice.
9 I will also discuss other programs previously approved by
10 the Commission for recovery through the ECRC; as well as
11 the Clean Air Mercury Rule ("CAMR") program, a new
12 program the company is currently seeking Commission
13 approval to recover the costs of the program activities
14 through the ECRC. Finally, I will discuss the sulfur
15 dioxide ("SO₂") emission allowance sales for 2007 and how
16 the company is positioned for future allowance needs.

17
18 **Q.** Please provide an overview of the ongoing environmental
19 compliance requirements that are the result of the CFJ and
20 the CD ("the Orders").

21
22 **A.** The general ongoing requirements of the Orders provide
23 for further reductions for SO₂, particulate matter ("PM")
24 and nitrous oxides ("NO_x") emissions at Big Bend Station.
25

1 Q. What do the Orders require for SO₂ emission reductions?

2
3 A. The Orders require Tampa Electric to create a plan for
4 optimizing the availability and removal efficiency of the
5 flue gas desulfurization systems ("FGD" or "scrubbers").
6 The plan was submitted to the EPA in two phases, and both
7 were approved.

8
9 Phase I required that Tampa Electric work scrubber
10 outages around the clock and with contract labor, when
11 necessary, speed the return of a malfunctioning scrubber
12 to service. In addition, Phase I required Tampa Electric
13 to review all critical scrubber spare parts and increase
14 the number and availability of spare parts to ensure a
15 speedy return to service of a malfunctioning scrubber.

16
17 Phase II outlined capital projects that Tampa Electric
18 was to perform to upgrade each scrubber at Big Bend
19 Station. It also addressed the use of environmental
20 dispatching in the event of a scrubber outage. All of
21 the preliminary SO₂ emissions reduction projects have been
22 completed. However, additional work will occur in 2007
23 associated with the Big Bend Units 1 and 2 FGD and Big
24 Bend FGD Reliability programs to comply with the
25 elimination of the allowed scrubber outage days for 2010

1 and 2013.

2
3 **Q.** What do the Orders require for PM emission reductions?

4
5 **A.** The Orders require Tampa Electric to develop and
6 implement a best operational practices ("BOP") study to
7 minimize PM emissions from each electrostatic
8 precipitator ("ESP"), complete and implement a best
9 available control technology ("BACT") analysis of the
10 ESPs at Big Bend Station, demonstrate the operation of a
11 PM continuous emissions monitoring system ("CEM") on Big
12 Bend Units 3 and 4 and demonstrate the operation of a
13 second PM CEM on Big Bend Units 1 and 2. Per the Orders,
14 the installation of the second PM CEM is required on or
15 before May 1, 2007, if the first PM CEM has been shown to
16 be feasible and remains in operation and if Tampa
17 Electric advises the EPA that it has elected to continue
18 to combust coal in Big Bend Units 1, 2 and 3. Since the
19 aforementioned conditions have been met, Tampa Electric
20 is required to install the second PM CEM in 2007. In
21 addition, some required BOP projects will occur in the
22 future which is expected to primarily consist of limited
23 wide plate spacing upgrades for Big Bend Units 1 and 3.

24
25 **Q.** Please describe the Big Bend PM Minimization and

1 Monitoring program activities and provide the estimated
2 capital and O&M expenditures for the period of January
3 2007 through December 2007.

4
5 **A.** The Big Bend PM Minimization and Monitoring program was
6 approved by the Commission in Docket No. 001186-EI, Order
7 No. PSC-00-2104-PAA-EI, issued November 6, 2000. In the
8 Order, the Commission found that the program met the
9 requirements for recovery through the ECRC. Tampa
10 Electric had previously identified various projects to
11 improve precipitator performance and reduce PM emissions
12 as required by the Orders. In 2007, there will be capital
13 expenditures associated with the installation of a second
14 PM CEM, O&M expenses associated with existing and recently
15 installed BOP and BACT equipment and continued
16 implementation of the BOP procedures. These activities
17 are expected to result in approximately \$450,000 and
18 \$450,000 of capital and O&M expenses, respectively.

19
20 **Q.** What do the Orders require for NO_x reductions?
21

22 **A.** The Orders require Tampa Electric to perform NO_x emissions
23 reduction projects on Big Bend Units 1, 2 and 3 and
24 pursuant to an amendment, for Big Bend Unit 4 to be
25 substituted for Big Bend Unit 3. The NO_x emissions

1 reductions use the 1998 NO_x emissions as the baseline year
2 for determining the level of reduction achieved. Tampa
3 Electric was also required by the Orders to demonstrate
4 innovative technologies or provide additional NO_x
5 technologies beyond those required by the early NO_x
6 emissions reduction activities.

7
8 **Q.** Please describe the Big Bend NO_x Emissions Reduction
9 program activities and provide the estimated capital and
10 O&M expenses for the period of January 2007 through
11 December 2007.

12
13 **A.** The Big Bend NO_x Emissions Reduction program was approved
14 by the Commission in Docket No. 001186-EI, Order No. PSC-
15 00-2104-PAA-EI, issued November 6, 2000. In the Order,
16 the Commission found that the program met the requirements
17 for recovery through the ECRC. Tampa Electric will
18 perform the requisite capital replacement and maintenance
19 on the previously approved NO_x reduction projects. These
20 activities are expected to result in approximately
21 \$300,000 and \$350,000 of capital and O&M expenses,
22 respectively.

23
24 **Q.** Please describe long-term NO_x requirements associated with
25 the Orders and Tampa Electric's efforts to comply with the

1 requirements.

- 2
- 3 **A.** The Orders require Big Bend Unit 4 to begin operating with
4 a Selective Catalytic Reduction ("SCR") system or other
5 NO_x control technology, be repowered, or be shut down and
6 scheduled for dismantlement by June 1, 2007. Big Bend
7 Units 1, 2 and/or 3 must either begin operating with an
8 SCR system or other NO_x control technology, be repowered,
9 or be shut down and scheduled for dismantlement one unit
10 per year by May 1, 2008, May 1, 2009 and May 1, 2010,
11 respectively.

12

13 In order to meet the NO_x emission rates and timing
14 requirements of the Orders, Tampa Electric engaged an
15 experienced consulting firm, Sargent and Lundy, to assist
16 with the performance of a comprehensive study designed to
17 identify the long-range plans for the generating units at
18 Big Bend Station. The results of the study clearly
19 indicated that the option to remain coal-fired at Big
20 Bend Station and installing the necessary NO_x reduction
21 technologies is the most cost-effective alternative to
22 satisfy the NO_x emissions reductions required by the
23 Orders. This decision was communicated to the EPA and
24 FDEP in August 2004. Tampa Electric also apprised the
25 Commission of this decision in its filing made in Docket

1 No. 040750-EI in August 2004.

2
3 **Q.** Please describe the Big Bend Units 1 through 3 Pre-SCR and
4 the Big Bend Units 1 through 4 SCR projects and provide
5 estimated capital and O&M expenditures for the period of
6 January 2007 through December 2007.

7
8 **A.** In Docket No. 040750-EI, Order No. PSC-04-0986-PAA-EI,
9 issued October 11, 2004, the Commission approved cost
10 recovery of the Big Bend Units 1 through 3 Pre-SCR and the
11 Big Bend Unit 4 SCR projects. The Big Bend Units 1
12 through 3 SCR projects were approved by the Commission in
13 Docket No. 041376-EI, Order No. PSC-05-0502-PAA-EI, issued
14 May 9, 2005. The purpose of the Pre-SCR technologies is
15 to reduce inlet NO_x concentrations to the SCR systems,
16 thereby mitigating overall SCR capital and O&M costs.
17 These Pre-SCR technologies include neural networks,
18 windbox modifications, secondary air controls and coal/air
19 flow controls. The SCR projects at Big Bend Units 1
20 through 4 encompass the design, procurement, installation
21 and annual O&M expenses associated with an SCR system for
22 each unit.

23
24 The projected costs for the period of January 2007 through
25 December 2007 for which Tampa Electric is seeking ECRC

1 recovery are for the Big Bend Units 1 through 3 Pre-SCR
2 and Big Bend Unit 4 SCR capital and O&M expenditures
3 associated with the engineering, procurement,
4 construction, start-up, tuning, operation and ongoing
5 maintenance for the projects. Specifically, the projected
6 capital and O&M expenditures for the Big Bend Unit 1 Pre-
7 SCR are \$300,000 and \$75,000, respectively. The projected
8 O&M expenses for the Big Bend Unit 2 Pre-SCR are \$75,000.
9 No capital expenditures are anticipated in 2007 for this
10 project. The projected capital expenditures for Big Bend
11 Unit 3 Pre-SCR are \$1,999,397. No O&M expenses are
12 expected for this project in 2007. Big Bend Unit 4 SCR
13 will be placed in-service May 2007. The projected capital
14 expenditures for 2007 are \$5,939,686. Including these
15 2007 capital expenditures, the total projected plant in-
16 service amount for 2007 is estimated to be \$63,815,761,
17 inclusive of allowance for funds used during construction.
18 The 2007 projected O&M expenses are \$1,256,000.

19
20 The projected capital expenditures for Big Bend Units 1
21 through 3 SCR projects are \$22,991,714, \$24,934,917 and
22 \$37,302,469, respectively. However, as stated in Tampa
23 Electric Witness, Howard T. Bryant's Prepared Direct
24 Testimony in this docket, the company will not seek
25 recovery of capital expenditures until the in-service date

1 for each project has occurred.

2
3 **Q.** Please identify and describe the other Commission approved
4 programs you will discuss.

5
6 **A.** The programs previously approved by the Commission include
7 Big Bend Unit 3 FGD Integration, Big Bend Units 1 and 2
8 FGD, Gannon Thermal Discharge Study, Bayside SCR
9 Consumables, Big Bend Unit 4 Separated Over-fired Air
10 ("SOFA"), Clean Water Act Section 316(b) Phase II Study,
11 Big Bend FGD Reliability, Arsenic Groundwater Standard and
12 CAMR.

13
14 **Q.** Please describe the Big Bend Unit 3 FGD Integration and
15 the Big Bend Units 1 and 2 FGD activities and provide the
16 estimated capital and O&M expenditures for the period of
17 January 2007 through December 2007.

18
19 **A.** The Big Bend Unit 3 FGD Integration program was approved
20 by the Commission in Docket No. 960688-EI, Order No. PSC-
21 96-1048-FOF-EI, issued August 14, 1996. The Big Bend
22 Units 1 and 2 FGD program was approved by the Commission
23 in Docket No. 980693-EI, Order No. PSC-99-0075-FOF-EI,
24 issued January 11, 1999. In those Orders, the Commission
25 found that the programs met the requirements for recovery

1 through the ECRC. The programs were implemented to meet
2 the SO₂ emissions requirements of the Phase I and II Clean
3 Air Act Amendments ("CAA") of 1990.
4

5 The projected January 2007 through December 2007 O&M
6 expenses for the Big Bend Unit 3 FGD Integration project
7 are \$4,013,300. No capital expenditures are anticipated
8 for this project. The projected January 2007 through
9 December 2007 capital and O&M expenditures for the Big
10 Bend Units 1 and 2 FGD project are \$297,500 and
11 \$6,621,900, respectively. The major component of the
12 expenses is projected to be reagents utilized in the
13 scrubbing process with the balance of expenses being
14 incurred for normal maintenance.
15

16 **Q.** Please describe the Gannon Thermal Discharge Study program
17 activities and provide the estimated capital and O&M
18 expenditures for the period of January 2007 through
19 December 2007.
20

21 **A.** The Gannon Thermal Discharge Study program was approved by
22 the Commission in Docket No. 010593-EI, Order No. PSC-01-
23 1847-PAA-EI, issued September 14, 2001. In that Order, the
24 Commission found that the program met the requirements for
25 recovery through the ECRC. For the period of January 2007

1 through December 2007, there will be no capital
2 expenditures for this program. Tampa Electric anticipates
3 O&M expenses will be approximately \$10,000 for the period.
4

5 **Q.** Please describe the Bayside SCR Consumables program
6 activities and provide the estimated capital and O&M
7 expenditures for the period of January 2007 through
8 December 2007.
9

10 **A.** The Bayside SCR Consumables program was approved by the
11 Commission in Docket No. 021255-EI, Order No. PSC-03-0469-
12 PAA-EI, issued April 4, 2003. For the period of January
13 2007 through December 2007, there will be no capital
14 expenditures for this program. Tampa Electric anticipates
15 O&M expenses associated with the consumable goods
16 (primarily anhydrous ammonia) will be approximately
17 \$76,000 for the period.
18

19 **Q.** Please describe the Big Bend Unit 4 SOFA program
20 activities and provide the capital and O&M expenditures
21 for the period of January 2007 through December 2007.
22

23 **A.** The Big Bend Unit 4 SOFA program was approved by
24 Commission for ECRC recovery in Docket No. 030226-EI,
25 Order No. PSC-03-0684-PAA-EI, issued June 6, 2003. In

1 the Order the Commission found that the program met the
2 requirements for recovery through the ECRC, contingent
3 upon Big Bend Unit 4 remaining coal fired. On August 19,
4 2004, Tampa Electric submitted a letter to the EPA
5 declaring the intent for Big Bend Units 1 through 4 to
6 remain coal fired and, as such, complied with the
7 applicable provisions of the CD associated with the
8 decision. The SOFA project was completed in 2004. For
9 the period of January 2007 through December 2007, there
10 will be no capital expenditures for this program. Tampa
11 Electric anticipates annual O&M expenses will be
12 approximately \$250,000 for the period.

13
14 **Q.** Please describe the Clean Water Act Section 316(b) Phase
15 II Study program activities and provide the estimated
16 capital and O&M expenditures for the period of January
17 2007 through December 2007.

18
19 **A.** The Clean Water Act Section 316(b) Phase II Study program
20 was approved by the Commission in Docket No. 041300-EI,
21 Order No. PSC-05-0164-PAA-EI, issued February 10, 2005.
22 For the period of January 2007 through December 2007,
23 there will be no capital expenditures for this program.
24 Tampa Electric anticipates O&M expenses associated with
25 the sampling activities will be approximately \$736,192 for

1 the period.

2
3 **Q.** Please describe the Big Bend FGD Reliability program
4 activities and provide the estimated capital and O&M
5 expenses for the period of January 2007 through December
6 2007.

7
8 **A.** Tampa Electric's Big Bend FGD Reliability program was
9 approved by the Commission in Docket No. 050598-EI, Order
10 No. PSC-06-0602-PAA-EI, issued July 10, 2006. The
11 Commission granted cost recovery approval for prudent
12 costs associated with this project. The Big Bend FGD
13 Reliability project will run concurrently with the
14 installation of SCR systems on the generating units.

15
16 As stated in Tampa Electric witness Howard T. Bryant's
17 2006 Actual/Estimated True-up Testimony filed on August 4,
18 2006, the Office of Public Counsel ("OPC") filed a protest
19 to the aforementioned Commission order on July 21, 2006.
20 Pending the outcome of the protest, the company will
21 proceed with the inclusion of the prudently incurred FGD
22 costs in the ECRC and respond accordingly to OPC's
23 protest.

24
25 For the period of January 2007 through December 2007,

1 Tampa Electric will perform work associated with upgrading
2 the mist eliminator systems for Big Bend Units 1 through
3 4, upgrading the booster fan for Big Bend Units 3 and 4,
4 electrically isolating the FGD systems on Big Bend Units 3
5 and 4 and other related activities. These activities are
6 expected to result in approximately \$6,500,600 of capital
7 expenditures. No O&M expenses are anticipated for the
8 period.

9
10 **Q.** Please describe the Arsenic Groundwater Standard program
11 activities and provide the estimated capital and O&M
12 expenditures for the period of January 2007 through
13 December 2007.

14
15 **A.** The Arsenic Groundwater Standard program was approved by
16 the Commission in Docket No. 050683-EI, Order No. PSC-06-
17 0138-PAA-EI, issued February 23, 2006. In that Order, the
18 Commission found that the program met the requirements for
19 recovery through the ECRC and granted Tampa Electric cost
20 recovery approval for prudently incurred costs. The new
21 groundwater standard applies to Tampa Electric's H.L.
22 Culbreath Bayside, Big Bend and Polk Power Stations.

23
24 For the period of January 2007 through December 2007,
25 there will be no capital expenditures for this program;

1 however, Tampa Electric anticipates O&M expenses
2 associated with the sampling activities will be
3 approximately \$105,000.

4
5 **Q.** Please describe the CAMR program activities and provide
6 the estimated capital and O&M expenditures for the period
7 of January 2007 through December 2007.

8
9 **A.** Tampa Electric submitted a petition seeking Commission
10 approval for cost recovery for the CAMR program on August
11 30, 2006. The EPA established standards of performance
12 for mercury emissions for new and existing coal-fired
13 electric utility steam generating units as defined in the
14 federal CAA Section 111, known as CAMR, effective January
15 2009. CAMR will permanently cap and reduce mercury
16 emissions nation-wide in two phases: Phase I cap is 38
17 tons per year with a compliance date of 2010 and Phase II
18 cap is 15 tons per year with a compliance date of 2018.
19 The FDEP administers the CAMR as delineated in Chapter 62-
20 204, 62-210 and 62-296, Florida Administrative Code
21 ("F.A.C.").

22
23 Tampa Electric's Big Bend and Polk Power Stations will be
24 affected by the nation-wide mercury emissions reduction
25 rule. The company will install CEMs or sorbent trap

1 monitoring systems that sample mercury found in flue gas.

2
3 For the period of January 2007 through December 2007,
4 Tampa Electric anticipates capital expenditures \$560,000
5 for this program. No O&M expenses are expected for this
6 program for 2007.

7
8 **Q.** Please describe how Tampa Electric reached the decision to
9 sell SO₂ emission allowances in 2007 and discuss the
10 company's allowance needs for 2007 and beyond.

11
12 **A.** After the completion of the repowering project at Bayside
13 Power Station, Tampa Electric performed a thorough
14 evaluation of SO₂ emission allowance needs based on
15 current system conditions and those projected to occur
16 over the next 20 years. Current system conditions
17 included the reduction in coal usage due to repowering and
18 the impacts of the CD and CFJ on SO₂ emission allowances.
19 Future conditions took into account generation expansion
20 and the impact of new federal environmental regulations on
21 SO₂ emission allowances, such as the Clean Air Interstate
22 Rule. At the conclusion of the evaluation, it became
23 evident that the company had a significant surplus of
24 allowances that could be sold in the allowance
25 marketplace. Furthermore, there will be an adequate

1 remaining allowance inventory that will meet the company's
2 needs for the next 20 years.

3
4 The decision to sell surplus SO₂ allowances was enhanced
5 by the sustained high allowance prices available in the
6 marketplace due to increased industry demand. In
7 balancing the appropriate quantity to sell with the
8 company's expected future needs, Tampa Electric
9 anticipates selling approximately 105,000 allowances in
10 early 2007. The company will continue to evaluate
11 potential sales opportunities of any future quantities of
12 surplus allowances.

13
14 **Q.** Please summarize your testimony.

15
16 **A.** Tampa Electric's settlement agreements with FDEP and EPA
17 require significant reductions in emissions from Tampa
18 Electric's Big Bend and Gannon Stations. The Orders
19 established definite requirements and time frames in which
20 air quality improvements must be made and result in
21 reasonable and fair outcomes for Tampa Electric, its
22 community and customers, and the environmental agencies.
23 My testimony identified projects which are legally
24 required by the Orders. I described the progress Tampa
25 Electric has made to achieve the more stringent

1 environmental standards. I have identified estimated
2 costs, by project, which the company expects to incur in
3 2007. Additionally, my testimony identified other
4 projects which are required for Tampa Electric to meet
5 environmental requirements and I provided associated 2007
6 activities and projected expenditures. Finally, I
7 addressed the prudent sales of SO₂ emissions allowances
8 that are anticipated to occur in 2007 and demonstrated
9 that Tampa Electric's approach toward the allowance
10 quantity contained in the sales will not jeopardize the
11 company's long-term future allowance needs.

12
13 **Q.** Does this conclude your testimony?

14
15 **A.** Yes it does.
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1 MS. BROWN: And then, Madam Chairman, staff would ask
2 that the Comprehensive Exhibit List that staff passed out to
3 the Commission and to the parties be marked as Exhibit 1, and
4 then we will get back to that after we hear from Witness Vick.

5 CHAIRMAN EDGAR: The Comprehensive Exhibit List will
6 be marked as Exhibit Number 1.

7 (Exhibit 1 marked for identification.)

8 MS. BROWN: And this would be the time to swear
9 Witness Vick in.

10 CHAIRMAN EDGAR: Should we bring him forward?

11 Mr. Vick. And, Mr. Vick, if you would stand and
12 raise your right hand with me.

13 (Witness sworn.)

14 MR. STONE: Chairman Edgar, may I inquire?

15 **J.O. VICK**

16 **was called as a witness on behalf of Gulf Power Company, and**
17 **having been duly sworn, testified as follows:**

18 DIRECT EXAMINATION

19 BY MR. STONE:

20 Q Would you please state your name and business address
21 for the record?

22 A My name is James O. Vick. My business address is
23 1189 -- excuse me, One Energy Place, Pensacola, Florida, zip
24 code 32520.

25 Q And what is your position with Gulf Power Company?

1 A I'm the Director of Environmental Affairs.

2 Q Mr. Vick, did you prefile direct testimony on
3 April 3, 2006, consisting of eight pages; August 4, 2006,
4 consisting of six pages; and on September 1, 2006, consisting
5 of 15 pages?

6 A Yes, sir, I did.

7 Q Do you have any changes or corrections to that
8 testimony that has been prefiled in this proceeding?

9 A No, I don't.

10 Q If I were to ask you the same questions today, would
11 your answers be the same as presented in that prefiled direct
12 testimony?

13 A Yes, sir, they would.

14 MR. STONE: Chairman Edgar, I ask that the prefiled
15 testimony of Mr. Vick dated April 3, 2006, August 4, 2006, and
16 September 1, 2006, all be inserted into the record as though
17 read.

18 CHAIRMAN EDGAR: The prefiled testimony of Witness
19 Vick will be entered into the record as though read.

20

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23

24

25

1 GULF POWER COMPANY

2 Before the Florida Public Service Commission
3 Prepared Direct Testimony of
4 James O. Vick
Docket No. 060007-EI
April 3, 2006

5 Q. Please state your name and business address.

6 A. My name is James O. Vick and my business address is One Energy Place,
7 Pensacola, Florida, 32520.

8
9 Q. By whom are you employed and in what capacity?

10 A. I am employed by Gulf Power Company as the Director of Environmental
11 Affairs.

12
13 Q. Mr. Vick, will you please describe your education and experience?

14 A. I graduated from Florida State University, Tallahassee, Florida, in 1975 with a
15 Bachelor of Science Degree in Marine Biology. I also hold a Bachelor's
16 Degree in Civil Engineering from the University of South Florida in Tampa,
17 Florida. In addition, I have a Masters of Science Degree in Management
18 from Troy State University, Pensacola, Florida. In August 1978 I joined Gulf
19 Power Company as an Associate Engineer, and have since held various
20 engineering positions with increasing responsibilities such as Air Quality
21 Engineer, Senior Environmental Licensing Engineer, and Manager of
22 Environmental Affairs. In 2003, I assumed my present position as Director of
23 Environmental Affairs.

24

25

1 Q. What are your responsibilities with Gulf Power Company?

2 A. As Director of Environmental Affairs, my primary responsibility is overseeing
3 the activities of the Environmental Affairs area to ensure the Company is, and
4 remains, in compliance with environmental laws and regulations, i.e., both
5 existing laws and such laws and regulations that may be enacted or amended
6 in the future. In performing this function, I am responsible for numerous
7 environmental activities.

8
9 Q. Are you the same James O. Vick who has previously testified before this
10 Commission on various environmental matters?

11 A. Yes.

12
13 Q. Mr. Vick, what is the purpose of your testimony?

14 A. The purpose of my testimony is to support Gulf Power Company's true-up for
15 the period from January 1, 2005 through December 31, 2005.

16
17 Q. Mr. Vick, please compare Gulf's recoverable environmental capital costs
18 included in the final true-up calculation for the period January 2005 through
19 December 2005 with the approved estimated true-up amounts.

20 A. As reflected in Ms. Davis' Schedule 6A, the recoverable capital costs
21 included in the estimated true-up total \$22,593,654, as compared to the
22 actual recoverable capital costs of \$22,457,108. This results in a small
23 variance of (\$136,546) or 0.6%. I will address four projects that contribute to
24 this variance.

25

1 Q. Please explain the capital project variance of 13.5% or \$1,803 in Sodium
2 Injection (Line Item 1.13).

3 A. The Sodium Injection program at Plant Smith was approved for recovery
4 through the ECRC in Doc. 990667-EI due to Phase II Acid Rain provisions of
5 the 1990 Clean Air Act Amendments (CAAA). The Smith sodium injection
6 system was the only project included in this line item until the project was
7 expanded during December of 2005. The program expansion included an
8 automatic sodium injection system for Units 4 and 5 at Plant Crist to regulate
9 the amount of sodium added to the coal supply as described in the 2006
10 ECRC projection filing. This project includes a silo storage tank system and
11 components that inject sodium carbonate directly onto the coal feeder belt to
12 enhance precipitator performance when low sulfur coal is used at Plant Crist.
13 The injection of sodium carbonate as an additive to low sulfur coal reduces
14 opacity levels to maintain compliance with Clean Air Act provisions.

15

16 Q. Please explain the (17%) variance of (\$1,299) in the Smith Water
17 Conservation (Line Item 1.17).

18 A. The Plant Smith closed loop cooling project for the laboratory sampling
19 system was placed in service during December 2005. Material expenditures
20 for the chiller were less than expected.

21

22 Q. Please explain the (1%) variance of (\$138,783) in the Crist DEP Project (Line
23 Item 1.19).

24 A. The Crist DEP Project deviation was a result of the Crist Unit 6 Selective
25 Non-Catalytic Reduction (SNCR) and other related components being placed

1 in service on a slightly different schedule than projected.

2
3 Q. Please explain the capital project variance of (\$3,067) or (24.6%) in the Crist
4 Switchyard Stormwater (Line Item 1.20).

5 A. Construction of the Crist Switchyard Stormwater project was postponed from
6 2005 to 2006 due to design modifications. These design modifications
7 required additional time for engineering review that delayed the procurement
8 process.

9
10 Q. How do the actual O&M expenses for the period January 2005 to December
11 2005 compare to the estimated true-up?

12 A. Mrs. Davis' Schedule 4A reflects that Gulf's recoverable environmental O&M
13 expenses for the current period were \$3,051,714, as compared to the
14 estimated true-up of \$3,432,403. This results in a year-end net variance of
15 \$380,689 or 11%. I will address twelve O&M projects and programs that
16 contribute to this variance.

17
18 Q. Please explain the variance of (\$25,373) in Title V (Line Item 1.3).

19 A. Gulf Power submitted Title V permit renewal applications for Plants Crist,
20 Smith, and Scholz during 2004. The revised permits became effective on
21 January 1, 2005. The 2005 permit implementation activities were determined
22 to be capital expenditures rather than O&M expenses. These expenditures
23 are included in Line 1.5, CEMS, on Schedule 8A page 5.

1 Q. Please explain the variance of \$5,354 in Asbestos Fees (Line Item 1.4).

2 A. This deviation primarily resulted from \$4,368 being included in December
3 2005 that was subsequently determined to be unrecoverable. The error was
4 reversed and corrected during January 2006.

5
6 Q. Please explain the variance of (\$70,460) or (13.2%) in Emission Monitoring
7 (Line Item 1.5 on Schedule 4A).

8 A. The Plant Daniel emission monitoring maintenance and relative accuracy test
9 audit (RATA) expenses were less than originally projected. The cost per test
10 for the Plant Daniel RATA tests were lower than expected.

11
12 Q. Please explain the variance of (\$136,605) in the category General Water
13 Quality (Line Item 1.6).

14 A. This deviation primarily resulted from the 2005 316b impingement and
15 entrainment sampling expenses being less than originally projected. Gulf
16 anticipated FDEP requiring additional sampling as part of the proposal for
17 information collection (PIC) review. These final PIC recommendations were
18 not received during 2005. Gulf expects to receive additional PIC guidance
19 from FDEP during 2006 at which time the projected sampling expenditures
20 may increase. The General Water Quality variance also resulted from the
21 Plant Smith domestic treatment plant operation and maintenance expenses
22 being less than expected for the recovery period and the scope of the Smith
23 biological study being reduced.

1 Q. Please explain the variance of (\$31,244) in the category Groundwater
2 Contamination Investigation (Line Item 1.7).

3 A. The Molino substation excavation activities were not completed until
4 December 2005 because FDEP concurrence with alternate clean-up levels
5 was not received until November 2005. The Molino project delay prevented
6 Gulf from being able to move forward with other groundwater investigation
7 projects prior to year end.

8
9 Q. Please explain the 73% variance of \$2,972 in the category Lead and Copper
10 Rule (Line Item 1.9).

11 A. The Plant Smith chemical usage costs for corrosion control treatment in the
12 potable water system were more than the projected expenses creating a
13 variance in the Lead and Copper Rule line item.

14
15 Q. Please explain the variance of (\$4,895) in the category entitled Environmental
16 Auditing/Assessment (Line Item 1.10).

17 A. Plant assessments were completed; however, district environmental
18 assessments were not conducted during 2005 resulting in a deviation in the
19 Environmental Auditing/Assessment line item. These assessments will be
20 conducted during 2006.

21
22 Q. Please explain the variance of \$31,643 in the category entitled General Solid
23 & Hazardous Waste (Line Item 1.11).

24 A. This variance resulted from waste removal and disposal costs for Gulf's
25 distribution systems being more than originally anticipated during normal

1 operations. The amount of solid and hazardous waste generated varies from
2 one period to the next.

3
4 Q. Please explain the variance of \$32,243 in Above Ground Storage Tanks (Line
5 Item 1.12).

6 A. This variance primarily resulted from painting the corporate office and district
7 above ground storage tanks. Painting is required to maintain the storage
8 tank systems pursuant to Chapter 62 Part 762, Florida Administrative Code
9 (F.A.C.). This expense was not originally planned for 2005..

10
11 Q. Please explain the variance of (\$18,584) in Sodium Injection (Line Item 1.16).

12 A. The expenses that Gulf incurs for this program are dependent on the
13 available coal supply and the necessity for sodium injection. The need for
14 sodium injection was less than what was anticipated for the 2005 projection
15 period.

16
17 Q. Please explain the variance of (\$8,399) in Line Item 1.17, Gulf Coast Ozone
18 Study (GCOS).

19 A. Phase III of the GCOS modeling was completed during 2004. The 2005
20 GCOS projection included final report preparation and review expenses. The
21 report review did not require as many revisions and follow-up items as Gulf
22 had originally anticipated.

1 Q. Please explain the variance of (\$160,282) in Line Item 1.19, FDEP NOX
2 Reduction Agreement.

3 A. This O&M line item includes the cost of anhydrous ammonia, urea, air
4 monitoring, and general operation and maintenance expenses related to the
5 activities undertaken in connection with the FDEP NOX Reduction
6 Agreement. The anhydrous ammonia and urea expenses are dependent on
7 the available coal supply, unit load, and market value. During 2005, less
8 anhydrous ammonia was required for the selective catalytic reduction (SCR)
9 system than originally anticipated.

10
11 Q. Mr Vick, does this conclude your testimony?

12 A. Yes.
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1 GULF POWER COMPANY

2
3 Before the Florida Public Service Commission

4 Prepared Direct Testimony of

5 James O. Vick

6 Docket No. 060007-EI

7 August 4, 2006
8

9 Q. Please state your name and business address.

10 A. My name is James O. Vick and my business address is One Energy Place,
11 Pensacola, Florida, 32520.
12

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

14 A. I am employed by Gulf Power Company as the Director of Environmental
15 Affairs.
16

17 Q. Mr. Vick, will you please describe your education and experience?

18 A. I graduated from Florida State University, Tallahassee, Florida, in 1975 with a
19 Bachelor of Science Degree in Marine Biology. I also hold a Bachelor's
20 Degree in Civil Engineering from the University of South Florida in Tampa,
21 Florida. In addition, I have a Masters of Science Degree in Management
22 from Troy State University, Pensacola, Florida. I joined Gulf Power Company
23 in August 1978 as an Associate Engineer. I have since held various
24 engineering positions with increasing responsibilities such as Air Quality
25 Engineer and Senior Environmental Licensing Engineer. In 2003, I assumed

1 my present position as Director of Environmental Affairs.

2

3 Q. What are your responsibilities with Gulf Power Company?

4 A. As Director of Environmental Affairs, my primary responsibility is
5 overseeing the activities of the Environmental Affairs section to ensure the
6 Company is, and remains, in compliance with environmental laws and
7 regulations, i.e., both existing laws and such laws and regulations that may
8 be enacted or amended in the future. In performing this function, I am
9 responsible for numerous environmental activities.

10

11 Q. Are you the same James O. Vick who has previously testified before this
12 Commission on various environmental matters?

13 A. Yes.

14

15 Q. Mr. Vick, what is the purpose of your testimony?

16 A. The purpose of my testimony is to support Gulf Power Company's estimated
17 true-up for the period from January 1, 2006 through December 31, 2006.
18 This true-up is based on six months of actual and six months of projected
19 expenses.

20

21 Q. Mr. Vick, please compare Gulf's recoverable environmental capital costs
22 included in the estimated true-up calculation for the period January 1, 2006
23 through December 31, 2006 with approved projected amounts.

24 A. As reflected in Ms. Martin's Schedule 6E, the recoverable capital
25 costs approved in the original projection total \$29,608,324, as compared to

1 the estimated true-up amount of \$29,694,980. This results in a projected
2 variance of \$86,656 or 0.3%. There are five capital projects and programs
3 that contributed to the majority of this variance: Air Quality Assurance
4 Testing; Precipitator Upgrades for Compliance Assurance Monitoring (CAM);
5 Plant Groundwater Investigation; Crist Condenser Tubes, and finally, SO₂
6 allowances. The variances for these projects are discussed below.

7
8 Q. Please explain the capital project variance of (\$14,477) in Air Quality
9 Assurance Testing (Line Item 1.1).

10 A. The Air Quality Assurance Testing variance is due to an over estimation of
11 amortization in the projection filing.

12
13 Q. Please explain the variance of (\$109,224) in the capital category entitled
14 Precipitator Upgrades for CAM compliance (Line Item 1.22).

15 A. The CAM variance primarily resulted from timing delays associated with the
16 Smith Unit 1 precipitator expenditures. Material expenses are also expected
17 to be less than originally projected because the successful bid was lower than
18 Gulf's initial cost projection.

19
20 Q. Please explain the variance of (\$18,991) in the capital category entitled Plant
21 Groundwater Investigation (Line Item 1.23).

22 A. The Line Item 1.23 variance resulted from postponing the Plant Groundwater
23 Investigation capital projects. These projects have been delayed until Gulf
24 receives Florida Department of Environmental Protection's response to the
25 Plant Crist and Plant Scholz groundwater studies.

1 Q. Please explain the variance of \$146,259 in the capital category entitled Crist
2 Condenser Tubes (Line Item 1.25).

3 A. The variance in Line Item 1.25, Crist Condenser Tubes, is primarily due to
4 additional repair work that was required in conjunction with the condenser
5 tube installation. These repairs were not included in the original scope of
6 work.

7
8 Q. Please explain the \$161,890 variance in SO₂ allowances in Line Item 1.26.

9 A. Gulf purchased allowances a month earlier and at a higher cost per
10 allowance than originally anticipated. Allowance pricing varies with the daily
11 market.

12
13 Q. How do the estimated/actual O&M expenses compare to the original
14 projection?

15 A. Ms. Martin's Schedule 4E reflects that Gulf's recoverable environmental O&M
16 expenses for the current period are now estimated to be \$10,612,425 as
17 compared to the original projection of \$13,369,436. This will result in a year-
18 end variance of (\$2,757,011). There are five O&M projects and programs
19 that contributed to the majority of this variance that I will discuss – Asbestos
20 Fees; Environmental Auditing / Assessment; General Solid and Hazardous
21 Waste; FDEP NOx Reduction Agreement; and SO₂ Allowances.

22
23 Q. Please explain the (\$4,869) variance in Asbestos Fees (Line Item 1.4).

24 A. This deviation primarily resulted from \$4,369 being included in December
25 2005 that was subsequently determined to be unrecoverable. The error was

1 reversed and corrected during January 2006.

2

3 Q. Please explain the variance of \$11,672 in the category entitled
4 Environmental Auditing/Assessment (Line Item 1.10).

5 A. The 2005 District environmental assessments were rescheduled for first
6 quarter 2006 after the 2006 Environmental Cost Recovery Clause (ECRC)
7 projection filing submittal. This postponement created a deviation in the
8 Environmental Auditing/Assessment line item.

9

10 Q. Please explain the variance of \$34,960 in General Solid and Hazardous
11 Waste (Line Item 1.11).

12 A. This variance resulted from waste removal and disposal costs for Gulf's
13 distribution system being more than originally anticipated during normal
14 operations. The amount of solid and hazardous waste generated varies from
15 one period to the next.

16

17 Q. Please explain the variance of (\$2,217,690) in Line Item 1.19, FDEP NOx
18 Reduction Agreement.

19 A. The FDEP NOx Reduction Agreement (Line Item 1.19) includes the cost of
20 anhydrous ammonia, urea, air monitoring, and general operation and
21 maintenance expenses related to the activities undertaken in connection with
22 the Plant Crist FDEP Agreement for Ozone Attainment. The variance in this
23 line item primarily resulted from urea usage being less than originally
24 anticipated for the selective non-catalytic reduction (SNCR) systems. The
25 original cost projection was based on the estimated annual urea usage;

1 however, the Unit 4 and Unit 5 SNCRs were not placed in service until April
2 2006. In addition, industry standards and estimates were used for the
3 original projection whereas the updated projection is based on site specific
4 usage.

5
6 Q. Please explain the (\$569,345) variance in SO2 allowances in Line Item 1.20.

7 A. Due to the volatility of the allowance market, the Company's proceeds from
8 the spring allowance auction and associated gains returned to customers
9 were difficult to predict and, therefore, were not included in the projection for
10 the current period.

11
12 Q. Does this conclude your testimony?

13 A. Yes.

1 GULF POWER COMPANY

2 Before the Florida Public Service Commission

3 Prepared Direct Testimony and Exhibit of

4 James O. Vick

5 Docket No. 060007-EI

6 September 1, 2006

7

8 Q. Please state your name and business address.

9 A. My name is James O. Vick and my business address is One Energy
10 Place, Pensacola, Florida, 32520.

11

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

13 A. I am employed by Gulf Power Company as the Director of Environmental
14 Affairs.

15

16 Q. Mr. Vick, will you please describe your education and experience?

17 A. I graduated from Florida State University, Tallahassee, Florida, in 1975
18 with a Bachelor of Science Degree in Marine Biology. I also hold a
19 Bachelor's Degree in Civil Engineering from the University of South
20 Florida in Tampa, Florida. In addition, I have a Masters of Science
21 Degree in Management from Troy State University, Pensacola, Florida. I
22 joined Gulf Power Company in August 1978 as an Associate Engineer. I
23 have since held various engineering positions with increasing
24 responsibilities such as Air Quality Engineer, Senior Environmental
25 Licensing Engineer, and Manager of Environmental Affairs. In 2003,

1 I assumed my present position as Director of Environmental Affairs.

2

3 Q. What are your responsibilities with Gulf Power Company?

4 A. As Director of Environmental Affairs, my primary responsibility is
5 overseeing the activities of the Environmental Affairs section to ensure the
6 Company is, and remains, in compliance with environmental laws and
7 regulations, i.e., both existing laws and such laws and regulations that
8 may be enacted or amended in the future. In performing this function, I
9 have the responsibility for numerous environmental activities.

10

11 Q. Are you the same James O. Vick who has previously testified before this
12 Commission on various environmental matters?

13 A. Yes.

14

15 Q. Mr. Vick, what is the purpose of your testimony?

16 A. The purpose of my testimony is to support Gulf Power Company's
17 projection of environmental compliance costs recoverable through the
18 Environmental Cost Recovery Clause (ECRC) during the period from
19 January 2007 through December 2007.

20

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

23 A. Yes, I have. My exhibit includes the following documents:

- 24 • Florida Clean Air Interstate Rule (FCAIR)
25 • Florida Clean Air Mercury Rule (FCAMR)

- 1 • Plant Crist National Pollutant Discharge Elimination System
2 (NPDES) permit
3 • Plant Scholz NPDES permit
4

5 Counsel: We ask that Mr. Vick's' Exhibit consisting
6 of four documents be marked
7 as Exhibit No. _____(JOV-1).
8

9 Q. Mr. Vick, please identify the capital projects included in Gulf's ECRC
10 projection filing.

11 A. A listing of the environmental capital projects for which Gulf seeks
12 recovery through the ECRC has been provided to Ms. Martin and is
13 included in Schedules 3P and 4P of her testimony. Schedule 4P reflects
14 the expenditures, clearings, retirements, salvage and cost of removal
15 currently projected by month for each of these projects. These amounts
16 were provided to Ms. Martin, who has compiled the schedules and
17 calculated the associated revenue requirements for Gulf's requested
18 recovery.
19

20 Q. Have all of the capital projects shown on Ms. Martin's schedules been
21 previously approved by the Commission?

22 A. No. Gulf's 2007 ECRC capital projection includes two new compliance
23 programs in addition to capital programs previously approved by the
24 Commission. One of these new programs falls under the umbrella
25 heading of Air Quality programs while the other new program falls under

1 the umbrella heading of Water Quality programs.

2
3 Q. Mr. Vick, please describe the new program that falls under the Air Quality
4 program heading that is to be considered for cost recovery.

5 A. The first new program, (Line Item 1.26), is the CAIR/CAMR Compliance
6 Program. This program is necessary to comply with Clean Air Interstate
7 Rule (CAIR) and the Clean Air Mercury Rule (CAMR) regulations
8 promulgated by the United States Environmental Protection Agency (EPA)
9 in March 2005 and subsequently adopted by the Florida Department of
10 Environmental Protection (FDEP) in June 2006.

11 The EPA's CAIR, which is published in Chapter 40 of the Code of
12 Federal Regulations (CFR) Parts 51, 72, 73, 74, 77, 78, and 96, restricts
13 sulfur dioxide ("SO₂") and nitrogen oxide ("NOx") air emissions that
14 contribute to fine particulate and ground level ozone in downwind states.
15 The basic EPA requirements were subsequently adopted by FDEP on
16 June 29, 2006 in Chapter 62 Florida Administrative Code (F.A.C.) Parts
17 204, 210, and 296. The CAIR will use a two-phase cap and trade
18 approach to reduce NOx and SO₂ emissions from electric generating units
19 in 28 eastern states including Florida starting in 2009 and 2010,
20 respectively. The emissions controlled by the CAIR requirements are
21 also impacted by a separate regulatory scheme that will require Gulf to
22 meet the Best Available Retrofit Technology (BART) emission control
23 requirements under the Regional Haze Rule. The Regional Haze Rule
24 was promulgated by EPA on July 6, 2005 to reduce visibility impairing
25 pollutants from twenty-six source categories, including electric generating

1 units. The FDEP will begin rulemaking in September 2006 to adopt a
2 State Implementation Plan requiring BART-eligible sources (generating
3 units built between 1962 and 1977, which have the potential to emit more
4 than 250 tons per year of any visibility impairing pollutant) to propose
5 BART controls or to demonstrate through modeling why they should be
6 exempt from BART regulation. Both EPA and FDEP have indicated that
7 compliance with CAIR through retrofit technology added to generating
8 units to control emissions may also meet the BART requirements of the
9 Regional Haze Rule. This dual compliance benefit would not be available
10 if a strategy of exclusively purchasing allowances is used to meet the
11 requirements of the CAIR rule.

12 The CAMR (Chapter 40 CFR Parts 60, 72, and 75) limits mercury
13 emissions from new and existing coal-fired power plants. Like CAIR,
14 CAMR will also be implemented through a market-based cap and trade
15 approach, achieving a reduction in mercury emissions in two phases of
16 approximately 20% by 2010 and approximately 70% by 2018. The basic
17 EPA requirements of CAMR were also adopted by FDEP on June 29,
18 2006 in Chapter 62 of the Florida Administrative Code, Parts 204, 210,
19 and 296. The State of Mississippi plans to adopt verbatim the EPA CAIR
20 and CAMR rules later this year.

21 Immediately after the passage of the EPA CAIR and CAMR in
22 2005, Gulf began extensive engineering, design, and other planning
23 activities in order to be prepared to move ahead with the most reasonable
24 strategy for compliance with the CAIR and CAMR requirements once they
25 were adopted by Florida. This strategy was finalized shortly after the

1 adoption of the Florida CAIR and CAMR this past June and
2 implementation has begun. Due to the applicability of the Commission's
3 rule regarding use of AFUDC, the program requirements for Gulf's
4 CAIR/CAIR strategy do not begin impacting ECRC revenue requirements
5 until 2007.

6 For the 2007-2012 time period, Gulf's CAIR/CAMR Compliance
7 Program will require the installation of Scrubbers at Plants Crist (2009)
8 and Daniel (2011), Selective Catalytic Reduction (SCR) control technology
9 at Plant Crist on Unit 6 (2010), Selective Non-Catalytic Reduction (SNCR)
10 controls at Plants Smith (2009), Scholz (2010), and Daniel (2009), as well
11 as Low NOx burners at Plant Daniel (2009). It will also require new
12 mercury emission monitoring equipment for mercury compliance
13 verification at all of Gulf's generating units (2007-2008) as well as the
14 Plant Daniel units (2007-2008).

15 For the 2013-2017 time period, Gulf's CAIR/CAMR Compliance
16 Program is currently projected to include the addition of a scrubber and a
17 baghouse at Plant Smith and SCRs at Plant Daniel. The in-service dates
18 for this equipment will be partially determined by the final BART rules and
19 the onset of Phase II of the Florida CAIR, the Florida CAMR, the
20 Mississippi CAIR, and the Mississippi CAMR.

21 For the purpose of the 2007 projection of ECRC revenue
22 requirements, the Plant Crist scrubber project will incur expenditures
23 totaling \$34.4 million. This will include relocating the Unit 7 cooling tower
24 and several sections of existing transmission lines. These activities will be
25 completed during 2007 to create space for construction of the scrubber

1 vessel and other ancillary equipment. Other 2007 projected expenditures
2 include materials, site preparation, and foundation construction as well as
3 detailed engineering and design costs. The 2007 projected expenditures
4 for the Smith SNCRs, totaling \$3.5 million, and the Daniel Low NOx
5 burners, \$540,000, primarily include expenditures for engineering and
6 material procurement. The projected 2007 expenditures for installation
7 and certification of new mercury emissions monitoring systems to comply
8 with CAMR are \$1.4 million.

9
10 Q. Mr. Vick, please describe the new Water Quality program that Gulf seeks
11 to recover.

12 A. The second new capital project program (Line Item 1.27) is the General
13 Water Quality Sampling Boat. Gulf expects to incur capital expenditures
14 of \$28,600 during 2007 to purchase a boat for new surface water
15 sampling that is required by the Plant Crist and Plant Scholz NPDES
16 permits. Pursuant to Chapter 62 Part 302.520(1), F.A.C., the FDEP has
17 included new requirements in Gulf's recently issued NPDES permits for
18 both Plants Crist and Scholz. These permits require Gulf Power to
19 establish a biological evaluation plan and implementation schedule for
20 each plant. Gulf must now evaluate the effects from each plant's water
21 discharge on the biological communities in the receiving water bodies.
22 Additional monitoring of aquatic species in each plant's respective
23 receiving water must be conducted to comply with these new permit
24 conditions. Plant Crist's Plan must be submitted no later than November
25 14, 2007 and monitoring will most likely begin in 2008. Plant Scholz's

1 Plan was submitted during January 2006 and monitoring will begin in
2 2007. In addition, these NPDES permits, also have a condition that
3 requires compliance with 40 CFR Part 125.95(a)(1) and (2), also known
4 as 316(b), which requires monitoring aquatic communities to determine
5 the effects of impingement and entrainment on organisms within each
6 plant's once through cooling water systems. Purchasing a boat to
7 conduct these studies in-house will reduce a portion of the anticipated
8 316(b) expenses that are currently being recovered through the ECRC as
9 part of the previously approved Cooling Water Intake Program.

10

11 Q. Mr. Vick, please identify expenditures for the 2007 projection period
12 related to expansions of previously approved capital projects that are
13 required for environmental compliance.

14 A. There are five other previously approved capital projects that have
15 additional capital expenditures. Three of the projects are related to Gulf's
16 existing Air Quality programs: Continuous Emission Monitoring (CEMs)
17 replacements, Precipitator Upgrades for Compliance Assurance Monitoring
18 (CAM) Compliance, and the Plant Crist FDEP Agreement for Ozone
19 Attainment. The Plant Groundwater Investigation project and the SO₂
20 allowances will also have projected expenditures in 2007.

21

22 1. CEMs (Line 1.5) -- During the 2007 recovery period the CEMs project
23 includes the replacement of flow monitors at Plant Smith and Plant Daniel.
24 Flow monitors are necessary in order to provide the accuracy and
25 reliability needed to measure SO₂ and NO_x for compliance with Chapter

1 40 CFR Part 75 under the Acid Rain Program. The existing monitors are
2 approaching the end of their useful lives, and will be retired upon
3 replacement. The 2007 expenditures are expected to be \$313,238.
4

5 2. Precipitator Upgrades for CAM Compliance (Line Item 1.22) --

6 CAM requirements are regulated under Chapter 40 CFR Part 64 which
7 requires a method of continuously monitoring pollution control equipment.
8 Opacity can be used as a surrogate parameter if the precipitator
9 demonstrates a correlation between opacity and particulate matter. Gulf
10 demonstrated this correlation by stack testing in 2003 and 2004, and
11 submitted the results to the FDEP as part of a CAM plan in Gulf's Title V
12 Air Permit renewals in 2004. The precipitator upgrades that are included
13 under this line item on Ms. Martin's schedules are necessary to meet the
14 more stringent surrogate opacity standards under CAM. The Plant Smith
15 Unit 1 precipitator upgrade which was initiated in 2006 will be completed
16 during the second quarter of 2007. In addition, precipitator upgrades are
17 planned for Plant Scholz Unit 2 and Plant Crist Units 4 & 5 in 2007. The
18 Scholz project will be placed in-service during 2007, however the Crist
19 projects will not be completed until 2008. Gulf's projected 2007
20 expenditures for CAM precipitator upgrades are \$12.4 million.
21

22 3. Crist FDEP Agreement for Ozone Attainment (Line 1.19) --

23 For the 2007 projection, Gulf has included capital costs associated with
24 implementation of the Plant Crist FDEP Agreement for Ozone Attainment
25 to meet the terms of the August 28, 2002 agreement with FDEP. Gulf will

1 be replacing the SCR catalyst and installing an additional ash piping
2 system to manage waste products associated with the operation of the
3 SCR system on Crist Unit 7. The projected 2007 expenditures for the
4 Crist FDEP Agreement project is \$2.24 million.

5
6 4. Plant Groundwater Investigation (Line Item 1.23) -- The FDEP
7 published a new arsenic groundwater standard that lowered the limit from
8 0.05 mg/L to 0.01 mg/L, effective January 1, 2005. Gulf expected to incur
9 capital expenditures during 2006 to ensure continued compliance with the
10 arsenic groundwater standards; however these projects have been
11 postponed until Gulf receives FDEP's response to the Plant Crist and
12 Plant Scholz groundwater studies. The 2007 projected expenditures for
13 the Plant Groundwater Investigation are \$350,000.

14
15 5. SO₂ Allowances (Line Item 1.28) -- Gulf Power has included the
16 purchase of additional SO₂ allowances in the 2007 projection filing. Part
17 of Gulf's strategy to comply with the Clean Air Act Amendments (CAAA) of
18 1990 was to bring several of Gulf's Phase II generating units into
19 compliance early and bank the SO₂ allowances associated with those
20 units. This bank has slowly been drawn down over the years due to more
21 allowances being consumed than are allocated to Gulf by EPA. Gulf
22 plans to meet this shortfall by using forward contracts to secure 15,000
23 year 2007 vintage allowances. Additional forward contracts for future
24 vintage year allowances will be executed if future forecasts predict a
25 continuous need. Gulf's strategy also includes possible spot market

1 purchases of allowances as prices dictate. The reasoning behind the
2 strategy of forward contracts and spot market purchases to secure
3 allowances in 2007 is Gulf's concern over the availability and the price of
4 SO₂ allowances as the compliance deadline for CAIR approaches. Many
5 utilities are no longer selling any allowances in anticipation of their own
6 shortfall in the coming years.

7
8 Q. Please compare the Environmental Operation and Maintenance (O&M)
9 activities listed on Schedule 2P of Ms. Martin's Exhibit to the O&M
10 activities approved for cost recovery in past ECRC proceedings.

11 A. All of the O&M activities listed on Schedule 2P have been approved for
12 recovery through the ECRC in past proceedings.

13
14 Q. Please describe the O&M activities included in the Air Quality category
15 that have projected expenses in 2007.

16 A. There are five O&M activities included in the Air Quality category that
17 have projected expenses in 2007. On Schedule 2P, Air Emission Fees
18 (Line Item 1.2), represents the expenses projected for the annual fees
19 required by the CAAA that are payable to the FDEP. The expenses
20 projected for the recovery period total \$779,874.

21 Included in the Air Quality category, Title V (Line Item 1.3),
22 represents projected expenses associated with the implementation of the
23 Title V permits. The total estimated expenses for the Title V Program
24 during 2007 are \$87,456.

25 On Schedule 2P, Asbestos Fees (Line Item 1.4), consists of the

1 fees required to be paid to the FDEP for the purpose of funding the
2 State's asbestos abatement program. The expenses projected for the
3 recovery period total \$2,250.

4 Emission Monitoring (Line Item 1.5) on Schedule 2P reflects an
5 ongoing O&M expense associated with the Continuous Emission
6 Monitoring equipment as required by the CAAA. These expenses are
7 incurred in response to EPA's requirements that the Company perform
8 Quality Assurance/Quality Control (QA/QC) testing for the CEMs,
9 including Relative Accuracy Test Audits (RATAs) and Linearity Tests.
10 Other activities within this category include the testing, development, and
11 implementation of new compliance assurance monitoring requirements
12 associated with the Clean Air Act Amendment. The expenses expected to
13 occur during the 2007 recovery period for these activities total \$580,357.

14 The FDEP NOx Reduction Agreement (Line Item 1.19), includes
15 the O&M cost associated with the Plant Crist Unit 7 SCR and Crist Units
16 4-6 SNCR projects that were included as part of the 2002 agreement with
17 FDEP. This O&M line item includes the cost of anhydrous ammonia,
18 urea, air monitoring, and general operation and maintenance expenses
19 related to the activities undertaken in connection with the Agreement.
20 Gulf was granted approval for recovery of the costs incurred to complete
21 these activities in Docket No. 020943-EI through Order Number PSC-02-
22 1396-PAA-EI. The projected expenses for the 2007 recovery period total
23 \$3,071,207.

1 Q. What O&M activities are included in Water Quality?

2 A. The first activity, General Water Quality (Line Item 1.6), identified in
3 Schedule 2P, includes Soil Contamination Studies, Dechlorination,
4 Groundwater Monitoring Plan Revisions, Surface Water Studies, and the
5 Cooling Water Intake Program. The expenses expected to be incurred
6 during the projection period for this line item total \$485,287.

7 The second activity listed in the Water Quality Category,
8 Groundwater Contamination Investigation (Line Item 1.7), was previously
9 approved for environmental cost recovery in Docket No. 930613-EI. This
10 activity is projected to incur incremental expenses totaling \$1,352,251.

11 Line Item 1.8, State NPDES Administration, was previously
12 approved for recovery in the ECRC and reflects expenses associated with
13 annual fees for Gulf's three generating facilities in Florida. These
14 expenses are expected to be \$42,000 during the projected recovery
15 period.

16 Finally, Line Item 1.9, Lead and Copper Rule, was also previously
17 approved for ECRC recovery and reflects sampling, analytical and
18 chemical costs related to lead and copper in drinking water. These
19 expenses are expected to total \$10,000 during the 2007 projection period.

20

21 Q. What activities are included in the Environmental Affairs Administration
22 Category?

23 A. Only one O&M activity is included in this category on Schedule 2P (Line
24 Item 1.10) of Ms. Martin's exhibit. This line item refers to the Company's
25 Environmental Audit/Assessment function. This program is an

1 on-going compliance activity previously approved for ECRC recovery.
2 Expenses totaling \$4,300 are expected during the 2007 recovery period.

3

4 Q. What O&M activities are included in the General Solid and Hazardous
5 Waste category?

6 A. Only one program, General Solid and Hazardous Waste (Line Item 1.11)
7 is included in the Solid and Hazardous Waste category on Schedule 2P.
8 This activity involves the proper identification, handling, storage,
9 transportation and disposal of solid and hazardous wastes as required by
10 federal and state regulations. The program includes expenses for Gulf's
11 generating and power delivery facilities. This program is a previously
12 approved program that is projected to incur incremental expenses totaling
13 \$485,428.

14

15 Q. In addition to the four major O&M categories listed above, are there any
16 other O&M activities which have been approved for recovery that have
17 projected expenses?

18 A. Yes. There are three other O&M categories that have been approved in
19 past proceedings which have projected expenses. They are the Above
20 Ground Storage Tanks program, the Sodium Injection System, and SO₂
21 Allowances.

22

23 Q. What O&M activities are included in the Above Ground Storage Tanks
24 category?

25 A. Only one program, Above Ground Storage Tanks (Line Item 1.12), is

1 included in this category. This program is expected to incur \$101,050 of
2 expenses during 2007.

3

4 Q. What activity is included in the Sodium Injection (Line Item 1.16)
5 category?

6 A. The Sodium Injection System, approved in Docket Number No. 990667-EI
7 for inclusion in the ECRC, involves sodium injection to the coal supply to
8 enhance precipitator efficiencies when burning certain low sulfur coals at
9 the plant. The line item projected expenses for the 2007 recovery period
10 total \$275,000.

11

12 Q. Please describe the activity included in the SO₂ Allowances (Line Item
13 1.20).

14 A. This program includes expenses for SO₂ allowances for Gulf's generating
15 plants. The purchase of additional allowances has increased the
16 weighted average cost of allowances being expensed.

17

18 Q. Mr. Vick, does this conclude your testimony?

19 A. Yes.

20

21

22

23

24

25

1 BY MR. STONE:

2 Q Mr. Vick, there was one composite exhibit to your
3 testimony, is that correct?

4 A That's correct.

5 Q And that has been premarked as Exhibit JOV-1?

6 A That is correct.

7 MR. STONE: Chairman Edgar, I would ask that we
8 identify that with a hearing exhibit number for the record.

9 MS. BROWN: Madam Chairman, that would be as listed
10 on the Comprehensive Exhibit List. It would be Exhibit
11 Number 3.

12 CHAIRMAN EDGAR: Exhibit Number 3 as listed on the
13 Comprehensive Exhibit List, or Composite Exhibit List.

14 BY MR. STONE:

15 Q Mr. Vick, would will you please summarize your
16 testimony?

17 A Yes, sir. Issue 12A concerns the CAIR CAMR
18 Compliance Program. This program is necessary to comply with
19 the requirements of the Clean Air Interstate Rule and the Clean
20 Air Mercury Rule that were promulgated by the United States
21 Environmental Protection Agency in March of 2005, and
22 subsequently adopted by the Florida Department of Environmental
23 Protection in June of 2006.

24 The EPA Clean Air Interstate Rule, or CAIR, as it is
25 commonly referred to, restricts sulfur dioxide and nitrogen

1 oxide emissions that contribute to fine particulate and ground
2 level ozone in downwind states. The CAIR utilizes a two-phase
3 cap and trade approach to reduce sulfur dioxide and nitrogen
4 oxide emissions from electric generating units in 28 eastern
5 states, including the state of Florida.

6 The Clean Air Mercury Rule, or CAMR, as it is
7 commonly referred to, limits mercury emissions from new and
8 existing coal-fired power plants. Like CAIR, the CAMR will
9 also be implemented through a market-based cap and trade
10 approach achieving a reduction in mercury emissions in two
11 phases of approximately 20 percent by 2010 and 70 percent in
12 2018.

13 Immediately after the passage of the EPA CAIR and
14 CAMR regulations in 2005, Gulf Power began extensive planning,
15 engineering, and design in order to be prepared to move ahead
16 with the most reasonable least cost strategy for compliance
17 with the CAIR and CAMR requirements once they were adopted by
18 the state of Florida. This strategy was finalized shortly
19 after adoption of the Florida CAIR and CAMR rules this past
20 June and implementation of that strategy has begun.

21 For the purpose of the 2007 ECRC revenue
22 requirements, the CAIR and CAMR compliance program includes
23 portions of the Plant Crist scrubber project that will be
24 placed in service during 2007. Engineering and procurement
25 expenditure for the Smith selective noncatalytic reduction

1 devices and the Daniel low NOX burners, as well as installation
2 and certification of mercury emission monitoring systems.
3 These projects are a portion of Gulf's overall CAIR/CAMR
4 compliance strategy that will be implemented over the next ten
5 years.

6 As the individual responsible for assuring that the
7 company will be in compliance with any new environmental
8 requirements, I have the responsibility to formulate and
9 implement the company's environmental strategy to comply with
10 these new requirements. The CAIR and CAMR compliance program
11 was developed under my supervision through our planning and
12 evaluation process to address the requirements of the
13 CAIR/CAMR, and I fully support the implementation of this
14 program to be the most reasonable and prudent method of
15 complying with the new regulations.

16 MR. STONE: With that, Chairman Edgar, we submit
17 Mr. Vick for Commissioner Arriaga's questions.

18 CHAIRMAN EDGAR: Thank you. Commissioner.

19 COMMISSIONER ARRIAGA: Thank you.

20 Good morning, Mr. Vick.

21 THE WITNESS: Good morning.

22 COMMISSIONER ARRIAGA: I had the pleasure of paying a
23 visit to the Crist Plant, and you were a very good hosts when I
24 was there. It is an interesting experience. I was actually
25 very positively surprised by the mercury research center that

1 you are running over there and all the things that you are
2 doing. It's fantastic, and I want to congratulate you on that.

3 THE WITNESS: Thank you.

4 COMMISSIONER ARRIAGA: In reading your testimony, I
5 have no concerns regarding the legality or the statutory needs
6 to comply with this investment. I only have some questions
7 regarding the financial analysis that you did in order to come
8 up with this proposal.

9 First of all, you state that the 2007 incurred
10 expenditures will total \$34.4 million. In reading through the
11 material, I didn't find any statement regarding the total
12 investment, the total capital expenditure you're going to make
13 to add the scrubbers to Plant Crist. How much is it going to
14 cost at the end of the day?

15 THE WITNESS: Commissioner, the numbers that
16 obviously were filed were for the purposes of what would
17 actually go plant-in-service in 2007. Obviously when there is
18 a scrubber project of this magnitude, typically we look for a
19 three-year window for just construction purposes alone. The
20 bottom line on the scrubber project at Plant Crist, which will
21 entail Units 4 through 7, or a scrubber for Crist 4 through
22 7 will be -- and this is with AFUDC -- is \$550,995,000.

23 COMMISSIONER ARRIAGA: Is this somewhere in the
24 testimony that you filed, because I couldn't find that figure?

25 THE WITNESS: No, sir, it is not.

1 COMMISSIONER ARRIAGA: I would like to ask staff,
2 Madam Chairman, how is it that you propose a stipulation on
3 something that you didn't have a final figure for the amount of
4 the investment?

5 MR. BREMAN: That was part of our settlement. Our
6 stipulation, the one that we support here, is that the company
7 will be filing more detailed testimony in the spring of 2007.

8 We are mindful that in June of 2007, we have final
9 rules out, even though FPL is litigating that, and that is
10 addressed in Mr. LaBauve's testimony with FPL. The companies
11 are moving forward with compliance options, and we are moving
12 from a generic strategy to actually bricks and mortar and
13 contracts. So it is at the time that the company actually
14 makes commitments to move forward that the company needs to
15 then come forward to the Commission and explain exactly what
16 they did and how they're going about concluding that it is the
17 least-cost option.

18 COMMISSIONER ARRIAGA: And you are comfortable with
19 this \$560 million investment that is going to be made as a
20 round ballpark figure?

21 MR. BREMAN: I think this is going to be an ongoing
22 review. We haven't seen the testimony yet. What we are here
23 today in staff's mind is we are saying that we know that there
24 is an environmental requirement and that the company has to
25 comply with those requirements, and that those costs are

1 incremental to base rates. So that's pretty much the decision
2 that we are making today. The review of the actual choices
3 will be an ongoing effort.

4 COMMISSIONER ARRIAGA: Thank you.

5 Mr. Vick, what I'm trying to get at is I saw Plant
6 Crist. It is a almost depreciated plant. What went through
7 your mind when you did the economic financial analysis of
8 justifying an investment of \$600 million almost on a plant that
9 is near its end life probably? And if it is not, if it is
10 going to be around for 10 or 15 more years, operation and
11 maintenance of this plant, its costs aren't going to increase
12 over the years? How did you financially justify that, because
13 I didn't see that analysis in the testimony here?

14 THE WITNESS: No, sir, that financial analysis was
15 not in the testimony. The process that we go through is an
16 annual process that has actually been in place since the Clean
17 Air Act Amendments of 1990. We came to the Commission back in
18 the early '90s with the plan to comply with Phase I, which
19 Phase I actually would start in January 1, 1995, and run
20 through 1999 when Phase II would kick in in January 1 of 2000.

21 Basically, we had some similar regulations basically
22 restricting sulfur dioxide emissions. We came to the
23 Commission with a plan back in that time frame showing what we
24 were going to be doing. Obviously, a long-term strategy, and
25 particularly in the case of what we are dealing with here with

1 CAIR and CAMR, is going to be a dynamic one. Obviously as the
2 compliance deadlines near, and in this case we have got to be
3 in compliance with the NOX requirements January 1, 2009, the
4 SO2 requirements in January 1 of 2010, the strategy dictates
5 that the controls we are going to be putting on need to be
6 started now.

7 Now, as part of that process there is a -- as I said,
8 we do have an annual process that has been going on since the
9 early '90s. We continue to refine that process on an annual
10 basis, and in the last couple years, particularly with CAIR and
11 CAMR, there may be even more than an annual review at times to
12 make sure that what we did six months ago is still on track.

13 But there is a process that we go through. And if
14 you like, I've got a couple of poster boards I would be more
15 than glad to kind of go through that process with you. I've
16 got some handouts that we could pass out to you so you don't
17 have to strain your eyes on the poster board, if that would be
18 okay. I can go through that process if you like.

19 COMMISSIONER ARRIAGA: No, I don't think it's
20 necessary. Staff just mentioned the fact that this is an
21 on-going process. What I'm trying to point out to you, and I
22 would appreciate it so much for my own knowledge, is over the
23 next four or five months if you could present to staff the
24 economic analysis that justifies an investment of \$600 million
25 in a plant that is almost totally depreciated. In other words,

1 why did you fix the old Chevy when you could have bought a
2 Lexus, more or less, in colloquial terms?

3 THE WITNESS: We are prepared to make that financial
4 analysis. We can do that. No problem.

5 COMMISSIONER ARRIAGA: Thank you so much.
6 That's all, Madam Chair.

7 CHAIRMAN EDGAR: Mr. Stone.

8 MR. STONE: That concludes our testimony. It's my
9 understanding that Mr. Vick's exhibit is part of the
10 comprehensive exhibit, and so it will be a part when that
11 exhibit is moved into evidence.

12 MS. BROWN: And, Madam Chairman, when I was
13 suggesting the number to mark Mr. Vick's exhibits, I noticed
14 what you were trying to tell me earlier today, there was a
15 problem with the numbers. So I would like at this point to fix
16 that before we move the exhibit list into the record.

17 CHAIRMAN EDGAR: Okay.

18 MS. BROWN: Starting with Mr. Vick's testimony, which
19 on the exhibit list is Exhibit 2, that should be changed to 3,
20 and then subsequently all the exhibits after that should be
21 changed accordingly.

22 CHAIRMAN EDGAR: Okay. The Comprehensive Exhibit
23 List will be entered into the record with the renumbering as
24 just described by our staff counsel.

25 MS. BROWN: Thank you, Madam Chairman.

1 (Exhibits 1 through 26 admitted into the record.)

2 With that, we are ready to proceed with the bench
3 decision on the stipulated issues in the case if the Commission
4 is ready.

5 CHAIRMAN EDGAR: Commissioners, before we go right
6 into the issues, are there any other questions, general
7 questions, or specific questions for any of the parties, or for
8 our staff? Seeing none.

9 Then, as Ms. Brown has described, we are in the
10 posture to consider motions on the stipulated issues that are
11 before us. My suggestion is that we take up the
12 company-specific stipulations first as there will be some
13 fallout then on the generic issues. The company-specific
14 stipulations are on Pages 11 through 14 on the prehearing order
15 beginning with Issue 9A, and then running through Issue 12C.

16 And before I look to see if we are ready for a motion
17 or discussion, I did have one question on Issue 9C
18 specifically, and I'm going to look to our staff first. Okay.
19 On Issue 9C, the position description in the prehearing order
20 do show OPC in particular and some of the others as raising the
21 issue as to whether the legal fees would be an inappropriate
22 use of the clause.

23 On an issue on legal expenses in another hearing last
24 year, I did have some questions about whether legal expenses
25 had been covered in base rates. And I realize that we have a

1 revised stipulated position list, but I would just like to ask
2 our staff to respond specifically to the question of are the
3 legal expenses that have been raised in this issue before us
4 today, are they included in base rates?

5 MR. SLEMKEWICZ: John Slemkewicz with the staff.

6 Based on interrogatories that I proposed to the
7 company and their responses, and my review of the MFRs from the
8 last stipulated rate case, the legal expenses related to CAIR
9 are not in base rates. They are more of an unusual nature and
10 they are not normally covered in base rates.

11 CHAIRMAN EDGAR: So in this instance they are not
12 covered in base rates?

13 MR. SLEMKEWICZ: That's correct.

14 CHAIRMAN EDGAR: Okay. Ms. Christensen.

15 MS. CHRISTENSEN: At this point OPC is taking no
16 position on that. With that understanding, we're going to
17 assume a no position on this issue.

18 CHAIRMAN EDGAR: Okay. Commissioners, any other
19 questions on any of the company-specific stipulated issues that
20 are before us? No.

21 COMMISSIONER DEASON: Madam Chairman, I can move the
22 stipulated issues which are company-specific, which would
23 include Issues 9A through 12C.

24 COMMISSIONER CARTER: Second.

25 CHAIRMAN EDGAR: Commissioners, we have a motion and

1 a second on Issues 9A through 12C. Any further discussion?

2 Seeing none. All in favor of the motion say aye.

3 (Unanimous affirmative vote.)

4 CHAIRMAN EDGAR: Opposed?

5 Show the motion adopted.

6 Commissioners, that brings us to the generic issues,
7 which are contained on Page 6 through Page 10 of the prehearing
8 order? Are there any questions for our staff or for the
9 parties on any of these issues?

10 Seeing none. Is there a motion?

11 COMMISSIONER DEASON: Well, Madam Chairman, I guess I
12 have a question.

13 CHAIRMAN EDGAR: Now is there a question?

14 COMMISSIONER DEASON: Yes.

15 Given the previous vote on the company-specific
16 issues, then staff is in the position to have all of the
17 numbers for all of the general issues, is that correct?

18 MR. BREMAN: Yes.

19 COMMISSIONER DEASON: And that would be Issues
20 1 through 7, or 1 through 8, is that correct?

21 MS. BROWN: That's correct.

22 COMMISSIONER DEASON: Madam Chairman, I would move
23 approval of Issues 1 through 8.

24 COMMISSIONER CARTER: Second.

25 CHAIRMAN EDGAR: Commissioners, we have a motion and

1 a second on Issues 1 through 8. Any further discussion?

2 Seeing none. All in favor of the motion say aye.

3 (Unanimous affirmative vote.)

4 CHAIRMAN EDGAR: Opposed?

5 Show the motion adopted.

6 Ms. Brown.

7 MS. BROWN: Madam Chairman, as far as I know there
8 are no other matters to be addressed. No post-hearing filings
9 are necessary because of the bench decision, and staff notifies
10 the parties that an order will issue by November 27th.

11 CHAIRMAN EDGAR: Okay. Then, Commissioners, parties,
12 and interested persons, we have concluded our business on the
13 07 docket. Thank you all.

14 COMMISSIONER ARRIAGA: Madam Chair.

15 CHAIRMAN EDGAR: Commissioner Arriaga?

16 COMMISSIONER ARRIAGA: The witness.

17 CHAIRMAN EDGAR: I'm sorry, Mr. Vick, you are
18 excused. Thank you for your patience.

19 * * * * *

20

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23

24

25

1 STATE OF FLORIDA)

2 : CERTIFICATE OF REPORTER

3 COUNTY OF LEON)

4

I, JANE FAUROT, RPR, Chief, Hearing Reporter Services
5 Section, FPSC Division of Commission Clerk and Administrative
6 Services, do hereby certify that the foregoing proceeding was
heard at the time and place herein stated.

7

IT IS FURTHER CERTIFIED that I stenographically
8 reported the said proceedings; that the same has been
transcribed under my direct supervision; and that this
9 transcript constitutes a true transcription of my notes of said
proceedings.

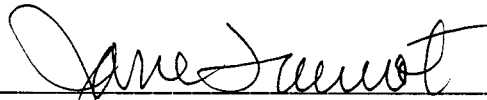
10

I FURTHER CERTIFY that I am not a relative, employee,
11 attorney or counsel of any of the parties, nor am I a relative
or employee of any of the parties' attorney or counsel
12 connected with the action, nor am I financially interested in
the action.

13

DATED THIS 16th day of November, 2006.

14



15

JANE FAUROT, RPR

16

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