# AUSLEY & MCMULLEN

ATTORNEYS AND COUNSELORS AT LAW

227 SOUTH CALHOUN STREET
P.O. BOX 391 (ZIP 32302)
TALLAHASSEE, FLORIDA 32301
(850) 224-9115 FAX (850) 222-7560


RECEIVED-FPSC
09 SEP -1 PM 2:43
COMMISSION CLERK

September 1, 2009

HAND DELIVERED

Ms. Ann Cole, Director
Office of Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor; FPSC Docket No. 090001-EI

Dear Ms. Cole:

Enclosed for filing in the above docket on behalf of Tampa Electric Company are the original and fifteen (15) copies of each of the following:

1. Petition of Tampa Electric Company.
2. Prepared Direct Testimony and Exhibit (CA-3) of Carlos Aldazabal.
3. Prepared Direct Testimony and Exhibit (BSB-1) of Brian S. Buckley.
4. Prepared Direct Testimony of Benjamin F. Smith.
5. Prepared Direct Testimony of Joann T. Wehle.

Please acknowledge receipt and filing of the above by stamping the duplicate copy of this letter and returning same to this writer.

Thank you for your assistance in connection with this matter.

Sincerely,

James D. Beasley

COM 5
ECR 2
GCL 2
OPC
RCP 1
SSC
SGA 2
ADM
CLK 1

JDB/pp
Enclosures

cc: All Parties of Record (w/encls.)

DOCUMENT NUMBER-DATE
09089 SEP-1 8
FPSC-COMMISSION CLERK

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

| | | |
|---|---|---|
| In re: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor. | ) ) ) ) | DOCKET NO. 090001-EI<br>FILED: September 1, 2009 |

**PETITION OF TAMPA ELECTRIC COMPANY**

Tampa Electric Company ("Tampa Electric" or "company"), hereby petitions the Commission for approval of the company's proposals concerning fuel and purchased power factors, capacity cost factors, generating performance incentive factors, and the projected wholesale sales incentive benchmark set forth herein, and in support thereof, says:

**Fuel and Purchased Power Factors**

1. Tampa Electric projects a fuel and purchased power net true-up amount for the period January 1, 2009 through December 31, 2009 will be an over-recovery of $45,016,697 (See Exhibit No. ____ (CA-3), Document No. 2, Schedule E1-C).

2. The company's projected expenditures for the period January 1, 2010 through December 31, 2010, when adjusted for the proposed GPIF reward and true-up over-recovery amount and spread over projected kilowatt-hour sales for the period January 1, 2010 through December 31, 2010, produce a fuel and purchased power factor for the new period of 4.517 cents per kWh before the application of time of use multipliers for on-peak or off-peak usage. (See Exhibit No. ____ (CA-3), Document No. 2, Schedule E1-E).

3. The company's projected benchmark level for calendar year 2010 for gains on non-separated wholesale energy sales eligible for the shareholder incentive as set forth by Order

No. PSC-00-1744-PAA-EI, in Docket No. 991779 is $1,846,336, as provided in the direct testimony of Tampa Electric witness Carlos Aldazabal.

**Capacity Cost Factor**

4. Tampa Electric estimates that its net true-up amount applicable for the period January 1, 2009 through December 31, 2009 will be an under-recovery of $28,618,100, as shown in Exhibit No. ____ (CA-3), Document No. 1, page 3 of 5.

5. As described in the direct testimony of Carlos Aldazabal, the company's proposed capacity factor for January through December 2010 reflects the rate modifications approved in Order No. PSC-09-0283-FOF-EI in Docket No. 080317-EI, issued April 30, 2009. The company's projected expenditures for the period January 1, 2010 through December 31, 2010, when adjusted for the true-up under-recovery amount and spread over projected kilowatt-hour sales for the period, produce a capacity cost recovery factor for the period of 0.472 cents per kWh. For demand-measured customers, the factor Tampa Electric proposes to recover is $1.74 per billed kW as set forth in Exhibit No. ____ (CA-3), Document No. 1, page 4 of 5.

**GPIF**

6. Tampa Electric has calculated that it is subject to a GPIF reward of $1,239,009 for performance experienced during the period January 1, 2008 through December 31, 2008.

7. The company is also proposing GPIF targets and ranges for the period January 1, 2010 through December 31, 2010 with such proposed targets and ranges being detailed in the testimony and exhibits of Tampa Electric witness Brian S. Buckley filed herewith.

WHEREFORE, Tampa Electric Company requests that its proposals relative to fuel and purchased power cost recovery, capacity cost recovery and GPIF be approved as they relate to prior period true-up calculations and projected cost recovery charges, and that the Commission approve the company's projected wholesale sales incentive benchmark.

DATED this 1st day of September 2009.

Respectfully submitted,

LEE L. WILLIS
JAMES D. BEASLEY
Ausley & McMullen
Post Office Box 391
Tallahassee, Florida 32302
(850) 224-9115

ATTORNEYS FOR TAMPA ELECTRIC COMPANY

## CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true copy of the foregoing Petition, filed on behalf of Tampa Electric Company, has been furnished by U. S. Mail or hand delivery (*) on this 1st day of September, 2009 to the following:

Ms. Lisa C. Bennett*
Senior Attorney
Office of the General Counsel
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Mr. John T. Burnett
Associate General Counsel
Progress Energy Service Co., LLC
Post Office Box 14042
St. Petersburg, FL 33733-4042

Mr. Paul Lewis, Jr.
106 East College Avenue
Suite 800
Tallahassee, FL 32301-7740

Mr. John W. McWhirter, Jr.
McWhirter, Reeves & Davidson, P.A.
Post Office Box 3350
Tampa, FL 33601-3350

Ms. Vicki Kaufman
Mr. Jon C Moyle
Keefe Anchors Gordon & Moyle, PA
118 N. Gadsden Street
Tallahassee, FL 32301

Ms. Patricia A. Christensen
Associate Public Counsel
Office of Public Counsel
111 West Madison Street – Room 812
Tallahassee, FL 32399-1400

Mr. Norman Horton
Messer Caparello & Self
Post Office Box 15579
Tallahassee, FL 32317

Mr. Mehrdad Khojasteh
Florida Public Utilities Company
P. O. Box 3395
West Palm Beach, FL 33402-3395

Mr. John T. Butler
Managing Attorney - Regulatory
Florida Power & Light Company
700 Universe Boulevard
Juno Beach, FL 33408-0420

Mr. R. Wade Litchfield
Florida Power & Light Company
215 South Monroe Street, Suite 810
Tallahassee, FL 32301-1859

Ms. Susan Ritenour
Secretary and Treasurer
Gulf Power Company
One Energy Place
Pensacola, FL 32520-0780

Mr. Jeffrey A. Stone
Mr. Russell A. Badders
Mr. Steven R. Griffin
Beggs & Lane
Post Office Box 12950
Pensacola, FL 32591-2950

Mr. Michael B. Twomey
Post Office Box 5256
Tallahassee, FL 32314-5256

Mr. Robert Scheffel Wright
Mr. John T. LaVia, III
Young van Assenderp, P.A.
225 South Adams Street, Suite 200
Tallahassee, FL 32301

Karen S. White, Lt Col, USAF
Shayla L. McNeill, Capt, USAF
AFCESA/ULT
139 Barnes Drive, Suite 1
Tyndall Air Force Base, FL 32403-5319

Ms. Cecilia Bradley
Senior Assistant Attorney General
Office of the Attorney General
The Capitol – PL01
Tallahassee, FL 32399-1050

Mr. James W. Brew
Brickfield, Burchette, Ritts & Stone, P.C.
1025 Thomas Jefferson Street, NW
Eighth Floor, West Tower
Washington, D.C. 20007-5201

ATTORNEY

TECO
TAMPA ELECTRIC

BEFORE THE

FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 090001-EI

IN RE: FUEL & PURCHASED POWER COST RECOVERY

AND

CAPACITY COST RECOVERY

PROJECTIONS

JANUARY 2010 THROUGH DECEMBER 2010

TESTIMONY AND EXHIBIT

OF

CARLOS ALDAZABAL

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

**PREPARED DIRECT TESTIMONY**

**OF**

**CARLOS ALDAZABAL**

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

**A.** My name is Carlos Aldazabal. 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, Regulatory Affairs in the Regulatory Affairs Department.

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

**A.** I received a Bachelor of Science Degree in Accounting in 1991, and received a Masters of Accountancy in 1995 from the University of South Florida in Tampa. I am a CPA in the State of Florida and have accumulated 14 years of electric utility experience working in the areas of fuel and interchange accounting, surveillance reporting, budgeting and analysis, and cost recovery clause management. In April 1999, I joined Tampa Electric as Supervisor, Regulatory Accounting. In January 2004, I was promoted to Manager, Regulatory Affairs. My present responsibilities include managing cost recovery for fuel and purchased power, interchange sales, and capacity payments.

**Q.** Have you previously testified before this Commission?

**A.** Yes. I have submitted written testimony in the annual fuel docket since 2004, and I testified before this Florida Public Service Commission ("FPSC" or "Commission") in Docket Nos. 060001-EI and 080001-EI regarding the appropriateness and prudence of Tampa Electric's recoverable fuel and purchased power costs as well as capacity costs.

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

**A.** The purpose of my testimony is to present, for Commission review and approval, the proposed annual capacity cost recovery factors, the proposed annual levelized fuel and purchased power cost recovery factors including an inverted or two-tiered residential fuel charge to encourage energy efficiency and conservation and the projected wholesale incentive benchmark for January 2010 through December 2010. I will also describe significant events that affect the factors and provide an overview of the composite effect from the various cost recovery factors for 2010.

**Q.** Have you prepared an exhibit to support your testimony?

**A.** Yes. Exhibit No. ____ (CA-3), consisting of three documents, was prepared under my direction and supervision. Document No. 1, consisting of four pages, is furnished as support for the projected capacity cost recovery factors utilizing the Commission approved allocation methodology from Order No. PSC-09-0283-FOF-EI issued April 30, 2009, in Docket No. 080317-EI based on 12 Coincident Peak ("CP") and 25 percent Average Demand ("AD"). Document No. 2, which is furnished as support for the proposed levelized fuel and purchased power cost recovery factors, is comprised of Schedules E1 through E10 for January 2010 through December 2010 as well as Schedule H1 for January through December, 2007 through 2010. Document No. 3 provides a comparison of retail residential fuel revenues under the inverted or tiered fuel rate and a levelized fuel rate, which demonstrates that the tiered rate is revenue neutral.

**Capacity Cost Recovery**

**Q.** Are you requesting Commission approval of the projected capacity cost recovery factors for the company's various rate schedules?

**A.** Yes. The capacity cost recovery factors, prepared under my direction and supervision, are provided in Exhibit No. ____ (CA-3), Document No. 1, page 3 of 4. The capacity factors reflect the company's approved rate design modifications approved as part of Order No. PSC-09-0283-FOF-EI in Docket No. 080317-EI, issued April 30, 2009.

**Q.** Please describe the changes to the 2010 capacity cost recovery factors related to Tampa Electric's approved rate design approved in Order No. PSC-09-0283-FOF-EI.

**A.** As a result of Tampa Electric's base rate case, the Commission approved the consolidation of the company's General Service - Demand ("GSD") and General Service - Large Demand ("GSLD") rate customers into one new GSD rate class. Additionally, the allocation of production demand costs was modified to the 12 CP and 25 percent AD to better reflect cost causation. The Commission also approved the recovery of capacity costs through a factor applied to billed kW demand for demand-measured customers because that recovery method would be consistent with the recovery of production plant that otherwise would have been built.

**Q.** What payments are included in Tampa Electric's capacity cost recovery factors?

**A.** Tampa Electric is requesting recovery of capacity payments for power purchased for retail customers excluding optional provision purchases for interruptible customers through the capacity cost recovery factors.

**Q.** Is Tampa Electric requesting recovery through the capacity clause for "post-9/11" incremental security costs?

**A.** No, the company is not requesting recovery of 2010 incremental security expenses as a result of the events of September 11, 2001 through the capacity cost recovery clause. Pursuant to Commission Order No. PSC-02-1761-FOF-EI issued December 13, 2002, in Docket No. 020001-EI, Tampa Electric agreed to move incremental O&M expenses associated with security costs into base rates at the company's next traditional rate case. Accordingly, Tampa Electric included incremental security O&M costs in the company's approved base rates implemented May 7, 2009 and did not include those costs for recovery through the capacity clause.

**Q.** Please summarize the proposed capacity cost recovery factors by metering voltage level for January 2010 through December 2010.

**A.**

| **Rate Class and** <br> **Metering Voltage** | **Capacity Cost** <br> **Cents per kWh** | **Recovery Factor** <br> **Cents per kW** |
|---|---|---|
| RS Secondary | 0.539 | |
| GS and TS Secondary | 0.526 | |
| GSD, SBF Standard | | |
| Secondary | | 1.74 |
| Primary | | 1.72 |
| Transmission | | 1.71 |
| IS, IST, SBI | | |
| Primary | | 1.55 |
| Transmission | | 1.54 |
| GSD Optional | | |
| Secondary | 0.419 | |
| Primary | 0.414 | |
| LS1 Secondary | 0.158 | |

These factors are shown in Exhibit No. _____ (CA-3), Document No. 1, page 3 of 4.

**Q.** How does Tampa Electric's proposed average capacity cost recovery factor of 0.539 cents per kWh compare to the factor for May 2009 through December 2009?

**A.** The proposed capacity cost recovery factor is 0.005 cents per kWh (or $0.05 per 1,000 kWh) higher than the average capacity cost recovery factor of 0.467 cents per kWh for the May 2009 through December 2009 period.

**Fuel and Purchased Power Cost Recovery Factor**

**Q.** What is the appropriate amount of the levelized fuel and purchased power cost recovery factor for the year 2010?

**A.** The appropriate amount for the 2010 period is 4.517 cents per kWh before any application of time of use multipliers for on-peak or off-peak usage. Schedule E1-E of Exhibit No. ____ (CA-3), Document No. 2, shows the appropriate value for the total fuel and purchased power cost recovery factor for each metering voltage level as projected for the period January 2010 through December 2010.

**Q.** Please describe the information provided on Schedule E1-C.

**A.** The Generating Performance Incentive Factor ("GPIF") and true-up factors are provided on Schedule E1-C. Tampa Electric has calculated a GPIF reward of $1,239,009, which is included in the calculation of the total fuel and purchased power cost recovery factors. Additionally, E1-C indicates the net true-up amount for the January 2009 through December 2009 period. The net true-up amount for this period is an over-recovery of $45,016,697.

**Q.** Please describe the information provided on Schedule E1-D.

**A.** Schedule E1-D presents Tampa Electric's on-peak and off-peak fuel adjustment factors for January 2010 through December 2010. The schedule also presents Tampa Electric's levelized fuel cost factors at each metering voltage level.

**Q.** Please describe the information provided on Schedule E1-E.

**A.** Schedule E1-E presents the standard, tiered, on-peak and off-peak fuel adjustment factors at each metering voltage to be applied to customer bills.

**Q.** Please describe the information provided in Document No. 3.

**A.** Exhibit No. ____ (CA-3), Document No. 3 demonstrates that the tiered rate structure is designed to be revenue neutral so that the company will recover the same fuel costs as it would under the traditional levelized fuel approach.

**Q.** Please summarize the proposed fuel and purchased power cost recovery factors by metering voltage level for January 2010 through December 2010.

**A.**

| **Metering Voltage Level** | **Fuel Charge Factor (cents per kWh)** |
|---|---|
| Secondary | 4.517 |
| Tier I (Up to 1,000 kWh) | 4.167 |
| Tier II (Over 1,000 kWh) | 5.167 |
| Distribution Primary | 4.472 |
| Transmission | 4.427 |
| Lighting Service | 4.383 |
| Distribution Secondary | 5.407 (on-peak) |
| | 4.173 (off-peak) |
| Distribution Primary | 5.353 (on-peak) |
| | 4.131 (off-peak) |

Transmission 5.299 (on-peak)

4.090 (off-peak)

**Q.** How does Tampa Electric's proposed levelized fuel adjustment factor of 4.167 cents per kWh compare to the levelized fuel adjustment factor for the May 2009 through December 2009 period?

**A.** The proposed fuel charge factor is 0.632 cents per kWh (or $6.32 per 1,000 kWh) lower than the average fuel charge factor of 4.799 cents per kWh for the May 2009 through December 2009 period.

**Events Affecting the Projection Filing**

**Q.** Are there any significant events reflected in the calculation of the 2010 fuel and purchased power and capacity cost recovery projections?

**A.** Yes. There are three significant events. These are 1) the significant changes in natural gas prices and hedge results; 2) the company's wholesale purchases; and 3) the commencement of coal deliveries by rail at Big Bend Station.

**Q.** Please describe the first event that affects the company's projection filing.

**A.** With the addition of Bayside Station in 2004 and more recently the combustion turbines ("CT's") at Polk, Bayside and Big Bend Station, Tampa Electric has increased its reliance on natural gas as a fuel source. In the fall of 2008 the prolonged economic downturn resulted in a dramatic decline in fuel commodity prices, particularly natural gas, which has resulted in a significant decrease in fuel and purchased power costs. In order to minimize fuel price volatility and comply with the company's Commission approved Risk Management Plan, financial hedges were entered into for natural gas in 2009 and 2010 which have partially mitigated some of that benefit. Witness J. T. Wehle's direct testimony describes the decrease in natural gas costs and associated hedge results in more detail.

**Q.** Please describe the second event.

**A.** Tampa Electric continued several cost-effective purchase agreements with Hardee Power Partners, RRI Energy Services, Pasco Cogen, Calpine Energy Services, L.P., and qualifying facilities. The purchases improve supply reliability for retail ratepayers in 2009 and 2010 at reasonable and prudent costs. The direct testimony of Tampa Electric witness Benjamin F. Smith, II describes the purchases and demonstrates that the costs associated with the purchased power agreements are prudent and appropriate for recovery through the fuel and purchased power and capacity cost recovery clauses.

**Q.** Please describe the third event.

**A.** During June through August of 2008, Tampa Electric signed new fuel transportation agreements that took effect beginning January 1, 2009. Under the new contracts, the company will have the ability to ship solid fuels by rail in addition to existing waterborne capabilities beginning January 1, 2010. As described in greater detail in the direct testimony of witness J. T. Wehle in January of 2009 the company issued a request for rail car proposal to determine the most cost-effective option for the movement of coal from Illinois Basin and Northern Appalachian coal supply regions to Big Bend Station. After an evaluation of all proposals a five year lease agreement has been agreed upon and is expected to be signed in the third quarter of 2009. Tampa Electric has separately identified and included those transportation related costs for recovery in accordance with Commission

Order 14546. The Commission has subsequently allowed the inclusion of investments in rail cars in Order 18136, in docket 870001-EI and also in Order PSC-95-1089-FOF-EI, in Docket No. 950001.

**Q.** Are the anticipated CSX refunds or credits included in the fuel filing?

**A.** Yes. In accordance with Tampa Electric's rate case order PSC-09-0283-FOF-EI issued April 30, 2009, the projected refunds from CSX to mitigate the costs associated with building the rail facility are to be entirely credited back to customers through a reduction in coal transportation costs.

**Wholesale Incentive Benchmark Mechanism**

**Q.** What is Tampa Electric's projected wholesale incentive benchmark for 2010?

**A.** The company's projected 2010 benchmark is $1,846,336, which is the three-year average of $799,040, $1,676,141 and $3,063,829 in gains on the company's non-separated wholesale sales, excluding emergency sales, for 2007, 2008 and 2009 (estimated/actual), respectively.

**Q.** Does Tampa Electric expect gains in 2010 from non-separated wholesale sales to exceed its 2010 wholesale incentive benchmark?

**A.** Yes. Tampa Electric anticipates that sales will exceed the projected benchmark by $254,803 of which 80 percent or $203,842 will flow back to customers.

**Cost Recovery Factors**

**Q.** What is the composite effect of Tampa Electric's proposed changes in its capacity, fuel and purchased power, environmental and energy conservation cost recovery factors on a 1,000 kWh residential customer's bill?

**A.** The composite effect on a residential bill for 1,000 kWh is a decrease of $1.46 beginning January 2010. These charges are shown in Exhibit No. ____ (CA-3), Document No. 2, on Schedule E10.

**Q.** When should the new rates go into effect?

**A.** The new rates should go into effect concurrent with meter reads for the first billing cycle for January 2010.

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

**A.** Yes, it does.

# EXHIBIT TO THE TESTIMONY OF

# CARLOS ALDAZABAL

# DOCUMENT NO. 1

# PROJECTED CAPACITY COST RECOVERY

# JANUARY 2010 - DECEMBER 2010

**TAMPA ELECTRIC COMPANY**
**CAPACITY COST RECOVERY CLAUSE**
**CALCULATION OF ENERGY & DEMAND ALLOCATION BY RATE CLASS**
**JANUARY 2010 THROUGH DECEMBER 2010**
**PROJECTED**

| RATE CLASS | (1) AVG 12 CP LOAD FACTOR AT METER (%) | (2) PROJECTED SALES AT METER (MWH) | (3) PROJECTED AVG 12 CP AT METER (MW) | (4) DEMAND LOSS EXPANSION FACTOR | (5) ENERGY LOSS EXPANSION FACTOR | (6) PROJECTED SALES AT GENERATION (MWH) | (7) PROJECTED AVG 12 CP AT GENERATION (MW) | (8) PERCENTAGE OF SALES AT GENERATION (%) | (9) PERCENTAGE OF DEMAND AT GENERATION (%) |
|---|---|---|---|---|---|---|---|---|---|
| RS,RSVP | 52.81% | 8,824,328 | 1,908 | 1.08536 | 1.05482 | 9,308,101 | 2,070 | 46.17% | 54.80% |
| GS, TS | 54.51% | 1,030,757 | 216 | 1.08536 | 1.05482 | 1,087,266 | 234 | 5.39% | 6.20% |
| GSD Optional | | 202,904 | 31 | 1.08085 | 1.05106 | 213,263 | 34 | 1.06% | 0.90% |
| GSD, SBF | 74.30% | 7,836,327 | 1,173 | 1.08085 | 1.05106 | 8,236,413 | 1,268 | 40.86% | 33.57% |
| IS,SBI | 75.80% | 1,061,694 | 160 | 1.03968 | 1.02124 | 1,084,239 | 166 | 5.38% | 4.40% |
| LS1 | 498.93% | 218,062 | 5 | 1.08536 | 1.05482 | 230,017 | 5 | 1.14% | 0.13% |
| TOTAL | | 19,174,072 | 3,493 | | | 20,159,299 | 3,777 | 100.00% | 100.00% |

(1) AVG 12 CP load factor based on 2009 projected calendar data.
(2) Projected MWH sales for the period January 2010 thru December 2010.
(3) Based on 12 months average CP at meter.
(4) Based on 2009 projected demand losses.
(5) Based on 2009 projected energy losses.
(6) Col (2) * Col (5).
(7) Col (3) * Col (4).
(8) Based on 12 months average percentage of sales at generation.
(9) Based on 12 months average percentage of demand at generation.

TAMPA ELECTRIC COMPANY
CAPACITY COST RECOVERY CLAUSE
CALCULATION OF ENERGY & DEMAND ALLOCATION BY RATE CLASS
JANUARY 2010 THROUGH DECEMBER 2010
PROJECTED

| | | January | February | March | April | May | June | July | August | September | October | November | December | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | UNIT POWER CAPACITY CHARGES | 4,003,400 | 4,003,400 | 4,003,400 | 4,003,400 | 4,003,400 | 4,003,400 | 4,003,400 | 4,003,400 | 4,003,400 | 4,003,400 | 4,003,400 | 4,003,400 | 48,040,800 |
| 2 | CAPACITY PAYMENTS TO COGENERATORS | 2,388,700 | 1,948,800 | 1,258,200 | 1,178,300 | 1,258,200 | 1,178,300 | 1,258,200 | 1,258,200 | 1,178,300 | 1,258,200 | 1,178,300 | 1,258,200 | 16,599,900 |
| 3 | (UNIT POWER CAPACITY REVENUES) | (53,000) | (43,600) | (54,200) | (56,600) | (61,700) | (67,900) | (73,700) | (72,600) | (67,700) | (54,200) | (47,200) | (51,900) | (704,300) |
| 4 | TOTAL CAPACITY DOLLARS | $6,339,100 | $5,908,600 | $5,207,400 | $5,125,100 | $5,199,900 | $5,113,800 | $5,187,900 | $5,189,000 | $5,114,000 | $5,207,400 | $5,134,500 | $5,209,700 | $63,936,400 |
| 5 | SEPARATION FACTOR | 0.9639735 | 0.9639735 | 0.9639735 | 0.9639735 | 0.9639735 | 0.9639735 | 0.9639735 | 0.9639735 | 0.9639735 | 0.9639735 | 0.9639735 | 0.9639735 | |
| 6 | JURISDICTIONAL CAPACITY DOLLARS | $6,110,724 | $5,695,734 | $5,019,796 | $4,940,461 | $5,012,566 | $4,929,568 | $5,000,998 | $5,002,058 | $4,929,760 | $5,019,796 | $4,949,522 | $5,022,013 | $61,632,996 |
| 7 | ACTUAL/ESTIMATED TRUE-UP FOR THE PERIOD JAN. 2009 - DEC. 2009 | | | | | | | | | | | | | 28,618,100 |
| 8 | TOTAL | | | | | | | | | | | | | $90,251,096 |
| 9 | REVENUE TAX FACTOR | | | | | | | | | | | | | 1.00072 |
| 10 | TOTAL RECOVERABLE CAPACITY DOLLARS | | | | | | | | | | | | | $90,316,077 |

19

# TAMPA ELECTRIC COMPANY
## CAPACITY COST RECOVERY CLAUSE
## CALCULATION OF ENERGY & DEMAND ALLOCATION BY RATE CLASS
## JANUARY 2010 THROUGH DECEMBER 2010
## PROJECTED

| RATE CLASS | (1) PERCENTAGE OF SALES AT GENERATION (%) | (2) PERCENTAGE OF DEMAND AT GENERATION (%) | (3) ENERGY RELATED COSTS ($) | (4) DEMAND RELATED COSTS ($) | (5) TOTAL CAPACITY COSTS ($) | (6) PROJECTED SALES AT METER (MWH) | (7) EFFECTIVE AT SECONDARY LEVEL (MWH) | (8) BILLING KW LOAD FACTOR (%) | (9) PROJECTED BILLED KW AT METER (kw) | (10) CAPACITY RECOVERY FACTOR ($/kw) | (11) CAPACITY RECOVERY FACTOR ($/kwh) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RS | 46.17% | 54.80% | 10,424,733 | 37,119,907 | 47,544,640 | 8,824,328 | 8,824,328 | | | | 0.00539 |
| GS, TS | 5.39% | 6.20% | 1,217,009 | 4,199,698 | 5,416,707 | 1,030,757 | 1,030,757 | | | | 0.00526 |
| GSD, SBF | | | | | | | | | | | |
| Secondary | | | | | | 6,541,937 | 6,541,937 | | | 1.74 | |
| Primary | | | | | | 1,293,593 | 1,280,657 | | | 1.72 | |
| Transmission | | | | | | 798 | 782 | | | 1.71 | |
| GSD, SBF - Standard | 40.86% | 33.57% | 9,225,787 | 22,739,330 | 31,965,117 | 7,836,327 | 7,823,376 | 58.43% | 18,340,125 | | |
| GSD - Optional | 1.06% | 0.90% | 239,338 | 609,634 | 848,972 | | | | | | |
| Secondary | | | | | | 200,004 | 200,004 | | | | 0.00419 |
| Primary | | | | | | 2,900 | 2,871 | | | | 0.00414 |
| IS, SBI | | | | | | | | | | | |
| Primary | | | | | | 322,109 | 318,887 | | | 1.55 | |
| Transmission | | | | | | 739,585 | 724,794 | | | 1.54 | |
| Total IS, SBI | 5.38% | 4.40% | 1,214,751 | 2,980,431 | 4,195,182 | 1,061,694 | 1,043,681 | 53.41% | 2,676,936 | | |
| LS1 | 1.14% | 0.13% | 257,401 | 88,058 | 345,459 | 218,062 | 218,062 | | | | 0.00158 |
| TOTAL | 100.00% | 100.00% | 22,579,019 | 67,737,058 | 90,316,077 | 19,174,072 | 19,143,079 | | | | 0.00472 |

(1) Obtained from page 1.
(2) Obtained from page 1.
(3) Total capacity costs * .25 * Col (1).
(4) Total capacity costs * .75 * Col (2).
(5) Col (3) + Col (4).
(6) Projected kWh sales for the period January through December 2010.
(7) Projected kWh sales at secondary for the period January through December 2010.
(8) Col 7 / (Col 9 * 730)*1000
(9) Projected kw demand for the period January 2010 through December 2010.
(10) Total Col (5) / Total Col (9).
(11) {Col (5) / Total Col (7)} / 1000.

REDACTED

**TAMPA ELECTRIC COMPANY**
**CAPACITY COSTS**
**ESTIMATED FOR THE PERIOD: JANUARY 2010 THROUGH DECEMBER 2010**

SCHEDULE E12

| CONTRACT | TERM START | TERM END | CONTRACT TYPE |
|---|---|---|---|
| MCKAY BAY REFUSE | 8/26/1982 | 7/31/2011 | QF |
| ORANGE COGEN LP | 4/17/1989 | 12/31/2015 | QF |
| HILLSBOROUGH COUNTY | 1/10/1985 | 3/1/2010 | QF |
| HARDEE POWER PARTNERS | 1/1/1993 | 12/31/2012 | LT |
| SEMINOLE ELECTRIC | 6/1/1992 | ** | LT |
| CALPINE | 5/1/2006 | 4/30/2011 | LT |
| RELIANT | 1/1/2009 | 5/31/2012 | LT |
| PASCO COGEN | 1/1/2009 | 12/31/2018 | LT |

**QF = QUALIFYING FACILITY**
**LT = LONG TERM**
**ST = SHORT TERM**
**** THREE YEAR NOTICE REQUIRED FOR TERMINATION.**

| CONTRACT | JANUARY MW | FEBRUARY MW | MARCH MW | APRIL MW | MAY MW | JUNE MW | JULY MW | AUGUST MW | SEPTEMBER MW | OCTOBER MW | NOVEMBER MW | DECEMBER MW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MCKAY BAY REFUSE | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 | 19.0 |
| HILLSBOROUGH COUNTY | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 |
| ORANGE COGEN LP | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 | 23.0 |
| HARDEE POWER PARTNERS | 441.0 | 441.0 | 441.0 | 441.0 | 441.0 | 441.0 | 441.0 | 441.0 | 441.0 | 441.0 | 441.0 | 441.0 |
| CALPINE | 170.0 | 170.0 | 170.0 | 170.0 | 170.0 | 170.0 | 170.0 | 170.0 | 170.0 | 170.0 | 170.0 | 170.0 |
| RELIANT | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 | 158.0 |
| PASCO COGEN | 121.0 | 121.0 | 121.0 | 121.0 | 121.0 | 121.0 | 121.0 | 121.0 | 121.0 | 121.0 | 121.0 | 121.0 |
| SEMINOLE ELECTRIC | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |

| CAPACITY YEAR 2010 | JANUARY ($) | FEBRUARY ($) | MARCH ($) | APRIL ($) | MAY ($) | JUNE ($) | JULY ($) | AUGUST ($) | SEPTEMBER ($) | OCTOBER ($) | NOVEMBER ($) | DECEMBER ($) | TOTAL ($) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MCKAY BAY REFUSE | 368,100 | 300,300 | 368,100 | 344,700 | 368,100 | 344,700 | 368,100 | 368,100 | 344,700 | 368,100 | 344,700 | 368,100 | 4,255,800 |
| HILLSBOROUGH COUNTY | 1,130,500 | 922,300 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,052,800 |
| ORANGE COGEN LP | 890,100 | 726,200 | 890,100 | 833,600 | 890,100 | 833,600 | 890,100 | 890,100 | 833,600 | 890,100 | 833,600 | 890,100 | 10,291,300 |
| TOTAL COGENERATION | 2,388,700 | 1,948,800 | 1,258,200 | 1,178,300 | 1,258,200 | 1,178,300 | 1,258,200 | 1,258,200 | 1,178,300 | 1,258,200 | 1,178,300 | 1,258,200 | 16,599,900 |
| HARDEE POWER PARTNERS | [redacted] | | | | | | | | | | | | |
| CALPINE - D | | | | | | | | | | | | | |
| RELIANT ENERGY SERVICES - D | | | | | | | | | | | | | |
| PASCO COGEN - D | | | | | | | | | | | | | |
| SUBTOTAL CAPACITY PURCHASES | | | | | | | | | | | | | |
| SEMINOLE ELECTRIC - D | | | | | | | | | | | | | |
| VARIOUS MARKET BASED | | | | | | | | | | | | | |
| SUBTOTAL CAPACITY SALES | | | | | | | | | | | | | |
| TOTAL PURCHASES AND (SALES) | 3,950,400 | 3,959,800 | 3,949,200 | 3,946,800 | 3,941,700 | 3,935,500 | 3,929,700 | 3,930,800 | 3,935,700 | 3,949,200 | 3,956,200 | 3,951,500 | 47,336,500 |
| **TOTAL CAPACITY** | **$6,339,100** | **$5,908,600** | **$5,207,400** | **$5,126,100** | **$5,199,900** | **$5,113,800** | **$5,187,900** | **$5,189,000** | **$5,114,000** | **$5,207,400** | **$5,134,500** | **$5,209,700** | **$63,936,400** |

21

Docket No. 090001-EI
FAC 2010 Projection Filing
Exhibit No. ____ (CA-3)
Document No. 2

# EXHIBIT TO THE TESTIMONY OF

# CARLOS ALDAZABAL

# DOCUMENT NO. 2

# PROJECTED FUEL AND PURCHASED POWER COST RECOVERY
# JANUARY 2010 - DECEMBER 2010

# SCHEDULES E1 THROUGH E10
# SCHEDULE H1

## TAMPA ELECTRIC COMPANY

## TABLE OF CONTENTS

TAMPA ELECTRIC COMPANY
FUEL AND PURCHASED POWER
COST RECOVERY CLAUSE CALCULATION
ESTIMATED FOR THE PERIOD: JANUARY 2010 THROUGH DECEMBER 2010

SCHEDULE E1

| | | DOLLARS | MWH | CENTS/KWH |
|---|---|---|---|---|
| 1. | Fuel Cost of System Net Generation (E3) | 866,477,635 | 19,449,775 | 4.45495 |
| 2. | Nuclear Fuel Disposal Cost | 0 | 0 | 0.00000 |
| 3. | Coal Car Investment | 0 | 0 | 0.00000 |
| 4a. | Adjustments to Fuel Cost (Wauchula Wheeling) | (72,000) | 19,449,775 [1] | (0.00037) |
| 4b. | Adjustments to Fuel Cost | 0 | 19,449,775 [1] | 0.00000 |
| **5.** | **TOTAL COST OF GENERATED POWER (LINES 1 THROUGH 4b)** | **866,405,635** | **19,449,775** | **4.45458** |
| 6. | Fuel Cost of Purchased Power - System (Exclusive of Economy)(E7) | 37,824,900 | 487,651 | 7.75655 |
| 7. | Energy Cost of Economy Purchases (E9) | 17,087,900 | 465,462 | 3.67117 |
| 8. | Demand and Non-Fuel Cost of Purchased Power | 0 | 0 | 0.00000 |
| 9. | Energy Payments to Qualifying Facilities (E8) | 24,111,400 | 540,215 | 4.46330 |
| **10.** | **TOTAL COST OF PURCHASED POWER (LINES 6 THROUGH 9)** | **79,024,200** | **1,493,328** | **5.29182** |
| **11.** | **TOTAL AVAILABLE KWH (LINE 5 + LINE 10)** | | 20,943,103 | |
| 12. | Fuel Cost of Schedule D Sales - Jurisd. (E6) | 715,100 | 14,725 | 4.85637 |
| 13. | Fuel Cost of Market Based Sales - Jurisd. (E6) | 7,737,300 | 149,460 | 5.17684 |
| 14. | Gains on Sales | 2,101,140 | NA | NA |
| **15.** | **TOTAL FUEL COST AND GAINS OF POWER SALES** | **10,553,540** | **164,185** | **6.42783** |
| 16. | Net Inadvertant Interchange | | 0 | |
| 17. | Wheeling Received Less Wheeling Delivered | | 0 | |
| 18. | Interchange and Wheeling Losses | | 2,500 | |
| **19.** | **TOTAL FUEL AND NET POWER TRANSACTIONS (LINE 5+10-15+16+17-18)** | **934,876,295** | **20,776,418** | **4.49970** |
| 20. | Net Unbilled | NA [1][a] | NA [a] | NA |
| 21. | Company Use | 1,619,892 [1] | 36,000 | 0.00819 |
| 22. | T & D Losses | 43,682,752 [1] | 970,793 | 0.22096 |
| 23. | System MWH Sales | 934,876,295 | 19,769,625 | 4.72885 |
| 24. | Wholesale MWH Sales | (28,307,444) | (595,553) | 4.75314 |
| 25. | Jurisdictional MWH Sales | 906,568,851 | 19,174,072 | 4.72810 |
| 26. | Jurisdictional Loss Multiplier | | | 1.00136 |
| 27. | Jurisdictional MWH Sales Adjusted for Line Loss | 907,801,607 | 19,174,072 | 4.73453 |
| 28. | True-up [2] | (45,016,697) | 19,174,072 | (0.23478) |
| 29. | Total Jurisdictional Fuel Cost (Excl. GPIF and Incl. WCT) | 862,784,910 | 19,174,072 | 4.49975 |
| 30. | Revenue Tax Factor | | | 1.00072 |
| 31. | Fuel Factor (Excl. GPIF) Adjusted for Taxes | 863,406,115 | 19,174,072 | 4.50299 |
| 32. | GPIF Adjusted for Taxes [2] | 1,239,009 | 19,174,072 | 0.00646 |
| **33.** | **Fuel Factor Adjusted for Taxes Including GPIF** | 864,645,124 | 19,174,072 | 4.50945 |
| **34.** | **Fuel Factor Rounded to Nearest .001 cents per KWH** | | | **4.509** |

[a] Data not available at this time.
[1] Included For Informational Purposes Only
[2] Calculation Based on Jurisdictional KWH Sales

**TAMPA ELECTRIC COMPANY**
**CALCULATION OF PROJECTED PERIOD TOTAL TRUE-UP**
**FOR THE PERIOD: JANUARY 2010 THROUGH DECEMBER 2010**

SCHEDULE E1-A

| | | |
|---|---|---|
| 1. | ESTIMATED OVER/(UNDER) RECOVERY (SCH. E1-B)<br>January 2009 - December 2009 (6 months actual, 6 months estimated ) | $45,016,697 |
| 2. | FINAL TRUE-UP (January 2008 - December 2008)<br>(Per True-Up filed March 9, 2009)<br>(Refunded as part of Mid-Course Adjustment May 7, 2009 through December 31, 2009) | 0 |
| 3. | TOTAL OVER/(UNDER) RECOVERY (Line 1 + Line 2)<br>To be included in the 12-month projected period January 2010 through December 2010<br>(Schedule E1, line 28) | $45,016,697 |
| 4. | JURISDICTIONAL MWH SALES<br>(Projected January 2010 through December 2010) | 19,174,072 |
| 5. | TRUE-UP FACTOR - cents/kWh (Line 3 / Line 4 * 100 cents / 1,000 kWh) | **-0.2348** |

**TAMPA ELECTRIC COMPANY**
**INCENTIVE FACTOR AND TRUE-UP FACTOR**
**FOR THE PERIOD: JANUARY 2010 THROUGH DECEMBER 2010**

SCHEDULE E1-C

| | | | |
|---|---|---|---|
| 1. | TOTAL AMOUNT OF ADJUSTMENTS | | |
| | A. GENERATING PERFORMANCE INCENTIVE REWARD / (PENALTY) (January 2010 through December 2010) | $1,239,009 | |
| | B. TRUE-UP OVER / (UNDER) RECOVERED (January 2009 through December 2009) | $45,016,697 | |
| 2. | TOTAL SALES (January 2010 through December 2010) | 19,174,072 | MWh |
| 3. | ADJUSTMENT FACTORS | | |
| | A. GENERATING PERFORMANCE INCENTIVE FACTOR | **0.0065** | Cents/kWh |
| | B. TRUE-UP FACTOR | **(0.2348)** | Cents/kWh |

TAMPA ELECTRIC COMPANY
FUEL ADJUSTMENT FACTOR FOR
OPTIONAL TIME-OF-DAY RATES

SCHEDULE E1-D

ESTIMATED FOR THE PERIOD: JANUARY 2010 THROUGH DECEMBER 2010

1. COST RATIO
ON-PEAK COST / OFF-PEAK COST = $\frac{5.737}{4.427}$ = 1.2959

2. SALES/GENERATION

27.87 % ON-PEAK

72.13 % OFF-PEAK

3. FORMULA
FUEL ADJUSTMENT FACTOR ADJUSTED FOR TAX AND GPIF = (% ON-PEAK GENERATION * COST RATIO * OFF-PEAK FACTOR) + (% OFF-PEAK GENERATION * OFF-PEAK FACTOR)

| | | | | | | |
|---|---|---|---|---|---|---|
| 4.5170 | = | 0.2787 | * | 1.2959 | Y + 0.7213 | Y |
| 4.5170 | = | 1.0825 | * | Y | | |
| 4.1727 | = | Y | | | | |

where Y = OFF-PEAK FACTOR and

| | | | | |
|---|---|---|---|---|
| X | = | 1.2959 | Y | |
| X | = | 1.2959 | * | 4.1727 |
| X | = | 5.4074 | | |

where X = ON-PEAK FACTOR

| | | ON-PEAK | OFF-PEAK | |
|---|---|---|---|---|
| 4. | FUEL COST (CENTS/KWH) | 5.4074 | 4.1727 | |
| 5. | FUEL FACTOR (CENTS/KWH, NEAREST 0.001) | 5.407 | 4.173 | |
| 6. | Total Jurisdictional fuel cost adjusted for taxes including GPIF (Schedule E1 line 33) | | | 864,645,124 |
| 7. | Jurisdictional MWH Sales (Schedule E1 line 33) | | | 19,174,072 |
| 8. | Jurisdictional Cost per Kwh Sold (Line 6 / Line 7 / 10) | | | 4.509 |
| 9. | Effective Jurisdictional Sales (See Below) | | | 19,143,079 |
| | LEVELIZED FUEL FACTORS | | | |
| 10. | Fuel Factor at Secondary Metering (Line 6 / Line 9 / 10) | | Cents/kwh | 4.517 |
| 11. | Fuel Factor at Primary Metering (Line 10 * 99%) | | Cents/kwh | 4.472 |
| 12. | Fuel Factor at Transmission Metering (Line 10 * 98%) | | Cents/kwh | 4.427 |
| | TIERED FUEL FACTORS | | | |
| 13. | Fuel Factor - First Tier (Up to 1000 kWh) | | Cents/kwh | 4.167 |
| 14. | Fuel Factor - Second Tier (Over 1000 kWh) | | Cents/kwh | 5.167 |

| | Jurisdictional Sales (MWH) | |
|---|---|---|
| Metering Voltage: | Meter | Secondary |
| Distribution Secondary | 16,815,088 | 16,815,088 |
| Distribution Primary | 1,618,601 | 1,602,415 |
| Transmission | 740,383 | 725,576 |
| Total | 19,174,072 | 19,143,079 |

SCHEDULE E1-E

**TAMPA ELECTRIC COMPANY**
**FUEL COST RECOVERY FACTORS**
**ESTIMATED FOR THE PERIOD: JANUARY 2010 THROUGH DECEMBER 2010**

| METERING VOLTAGE LEVEL | LEVELIZED FUEL RECOVERY FACTOR cents/kWh | FIRST TIER ( Up to 1000 kWh ) cents/kWh | SECOND TIER ( OVER 1000 kWh ) cents/kWh |
|---|---|---|---|
| **STANDARD** | | | |
| Distribution Secondary (RS only) | | 4.167 | 5.167 |
| Distribution Secondary | 4.517 | | |
| Distribution Primary | 4.472 | | |
| Transmission | 4.427 | | |
| Lighting Service (1) | 4.383 | | |
| **TIME-OF-USE** | | | |
| Distribution Secondary - On-Peak | 5.407 | | |
| Distribution Secondary - Off-Peak | 4.173 | | |
| Distribution Primary - On-Peak | 5.353 | | |
| Distribution Primary - Off-Peak | 4.131 | | |
| Transmission - On-Peak | 5.299 | | |
| Transmission - Off-Peak | 4.090 | | |

(1) Lighting service is based on distribution secondary, 17% on-peak and 83% off-peak

**TAMPA ELECTRIC COMPANY**
**FUEL AND PURCHASED POWER COST RECOVERY CLAUSE CALCULATION**
**ESTIMATED FOR THE PERIOD: JANUARY 2010 THROUGH DECEMBER 2010**

SCHEDULE E2

| | | (a) | (b) | (c) | (d) | (e) | (f) ESTIMATED | (g) | (h) | (i) | (j) | (k) | (l) | (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 | Jul-10 | Aug-10 | Sep-10 | Oct-10 | Nov-10 | Dec-10 | TOTAL PERIOD |
| 1. | Fuel Cost of System Net Generation | 62,430,276 | 57,580,202 | 61,786,375 | 62,276,846 | 75,913,313 | 80,890,068 | 89,353,435 | 90,685,594 | 83,203,756 | 75,674,142 | 60,503,315 | 66,180,312 | 866,477,635 |
| 2. | Nuclear Fuel Disposal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3. | Fuel Cost of Power Sold [1] | 683,900 | 572,900 | 631,000 | 432,500 | 538,900 | 931,700 | 1,164,900 | 1,192,900 | 1,208,900 | 1,030,500 | 984,500 | 1,180,940 | 10,553,540 |
| 4. | Fuel Cost of Purchased Power | 2,313,800 | 1,889,000 | 1,159,400 | 2,424,100 | 3,994,400 | 5,077,000 | 6,169,500 | 6,637,700 | 3,923,300 | 3,089,700 | 850,200 | 296,800 | 37,824,900 |
| 5. | Demand and Non-Fuel Cost of Purchased Power | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6. | Payments to Qualifying Facilities | 1,550,500 | 1,835,700 | 1,765,100 | 2,004,300 | 2,095,100 | 2,041,800 | 2,142,900 | 2,314,500 | 2,451,000 | 2,103,900 | 1,858,600 | 1,948,000 | 24,111,400 |
| 7. | Energy Cost of Economy Purchases | 1,393,000 | 1,146,300 | 1,498,400 | 1,698,800 | 1,677,500 | 1,410,400 | 1,188,700 | 1,131,600 | 1,405,100 | 1,670,000 | 1,470,200 | 1,397,900 | 17,087,900 |
| 8a. | Adj. to Fuel Cost (Wauchula Wheeling) | (6,000) | (6,000) | (6,000) | (6,000) | (6,000) | (6,000) | (6,000) | (6,000) | (6,000) | (6,000) | (6,000) | (6,000) | (72,000) |
| 8b. | Adj. To Fuel Cost | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9. | **TOTAL FUEL & NET POWER TRANSACTIONS** | **66,997,676** | **61,872,302** | **65,572,275** | **67,965,546** | **83,135,413** | **88,481,568** | **97,683,635** | **99,570,494** | **89,788,256** | **81,501,242** | **63,691,815** | **68,636,072** | **934,876,295** |
| 10. | Jurisdictional MWH Sold | 1,476,022 | 1,351,890 | 1,336,001 | 1,422,228 | 1,549,039 | 1,793,078 | 1,859,052 | 1,865,095 | 1,895,514 | 1,713,647 | 1,460,525 | 1,451,982 | 19,174,072 |
| 11. | Jurisdictional % of Total Sales | 0.9778879 | 0.9727724 | 0.9747108 | 0.9707213 | 0.9628980 | 0.9707152 | 0.9684555 | 0.9645523 | 0.9670659 | 0.9656009 | 0.9707400 | 0.9769374 | |
| 12. | Jurisdictional Total Fuel & Net Power Transactions (Line 9 * Line 11) | 65,516,216 | 60,187,668 | 63,914,005 | 65,975,603 | 80,050,923 | 85,890,403 | 94,602,254 | 96,040,949 | 86,811,819 | 78,697,673 | 61,828,192 | 67,053,146 | 906,568,851 |
| 13. | Jurisdictional Loss Multiplier | 1.00136 | 1.00136 | 1.00136 | 1.00136 | 1.00136 | 1.00136 | 1.00136 | 1.00136 | 1.00136 | 1.00136 | 1.00136 | 1.00136 | |
| 14. | **JURISD. TOTAL FUEL & NET PWR. TRANS.** Adjusted for Line Losses (Line 12 * Line 13) | **65,605,305** | **60,269,511** | **64,000,916** | **66,065,317** | **80,159,777** | **86,007,197** | **94,730,895** | **96,171,546** | **86,929,866** | **78,804,686** | **61,912,266** | **67,144,325** | **907,801,607** |
| 15. | Cost Per kWh Sold (Cents/kWh) | 4.4447 | 4.4582 | 4.7905 | 4.6452 | 5.1748 | 4.7966 | 5.0957 | 5.1564 | 4.5861 | 4.5987 | 4.2390 | 4.6243 | 4.7345 |
| 16. | True-up (Cents/kWh) [2] | -0.2348 | -0.2348 | -0.2348 | -0.2348 | -0.2348 | -0.2348 | -0.2348 | -0.2348 | -0.2348 | -0.2348 | -0.2348 | -0.2348 | -0.2348 |
| 17. | Total (Cents/kWh) (Line 15+16) | 4.2099 | 4.2234 | 4.5557 | 4.4104 | 4.9400 | 4.5618 | 4.8609 | 4.9216 | 4.3513 | 4.3639 | 4.0042 | 4.3895 | 4.4997 |
| 18. | Revenue Tax Factor | 1.00072 | 1.00072 | 1.00072 | 1.00072 | 1.00072 | 1.00072 | 1.00072 | 1.00072 | 1.00072 | 1.00072 | 1.00072 | 1.00072 | 1.00072 |
| 19. | Recovery Factor Adjusted for Taxes (Cents/kWh) (Excluding GPIF) | 4.2129 | 4.2264 | 4.5590 | 4.4136 | 4.9436 | 4.5651 | 4.8644 | 4.9251 | 4.3544 | 4.3670 | 4.0071 | 4.3927 | 4.5029 |
| 20. | GPIF Adjusted for Taxes (Cents/kWh) [2] | 0.0065 | 0.0065 | 0.0065 | 0.0065 | 0.0065 | 0.0065 | 0.0065 | 0.0065 | 0.0065 | 0.0065 | 0.0065 | 0.0065 | 0.0065 |
| 21. | **TOTAL RECOVERY FACTOR (LINE 19+20)** | **4.2194** | **4.2329** | **4.5655** | **4.4201** | **4.9501** | **4.5716** | **4.8709** | **4.9316** | **4.3609** | **4.3735** | **4.0136** | **4.3992** | **4.5094** |
| 22. | **RECOVERY FACTOR ROUNDED TO NEAREST 0.001 CENTS/KWH** | **4.219** | **4.233** | **4.566** | **4.420** | **4.950** | **4.572** | **4.871** | **4.932** | **4.361** | **4.374** | **4.014** | **4.399** | **4.509** |

[1] Includes Gains
[2] Based on Jurisdictional Sales Only

29

TAMPA ELECTRIC COMPANY
GENERATING SYSTEM COMPARATIVE DATA BY FUEL TYPE
ESTIMATED FOR THE PERIOD: JANUARY 2010 THROUGH JUNE 2010

SCHEDULE E3

| | Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 |
|---|---|---|---|---|---|---|
| FUEL COST OF SYSTEM NET GENERATION ($) | | | | | | |
| 1. HEAVY OIL | 283 | 0 | 142 | 496 | 2,791 | 50,030 |
| 2. LIGHT OIL | 645,520 | 287,061 | 645,729 | 643,327 | 680,798 | 672,698 |
| 3. COAL | 25,615,599 | 17,428,307 | 22,299,869 | 22,482,112 | 28,441,185 | 33,887,043 |
| 4. NATURAL GAS | 36,168,874 | 39,864,834 | 38,840,635 | 39,150,911 | 46,788,539 | 46,280,297 |
| 5. NUCLEAR | 0 | 0 | 0 | 0 | 0 | 0 |
| 6. OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| 7. TOTAL ($) | 62,430,276 | 57,580,202 | 61,786,375 | 62,276,846 | 75,913,313 | 80,890,068 |
| SYSTEM NET GENERATION (MWH) | | | | | | |
| 8. HEAVY OIL | 2 | 0 | 1 | 4 | 21 | 439 |
| 9. LIGHT OIL | 4,150 | 1,852 | 4,149 | 4,119 | 4,338 | 4,260 |
| 10. COAL | 787,064 | 524,146 | 690,752 | 702,435 | 867,946 | 992,377 |
| 11. NATURAL GAS | 629,442 | 754,565 | 714,864 | 741,325 | 854,594 | 825,118 |
| 12. NUCLEAR | 0 | 0 | 0 | 0 | 0 | 0 |
| 13. OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| 14. TOTAL (MWH) | 1,420,658 | 1,280,563 | 1,409,766 | 1,447,883 | 1,726,899 | 1,822,194 |
| UNITS OF FUEL BURNED | | | | | | |
| 15. HEAVY OIL (BBL) | 4 | 0 | 2 | 7 | 32 | 685 |
| 16. LIGHT OIL (BBL) | 15,536 | 9,570 | 14,616 | 14,567 | 15,859 | 17,528 |
| 17. COAL (TON) | 358,071 | 242,175 | 312,930 | 310,416 | 387,835 | 451,068 |
| 18. NATURAL GAS (MCF) | 4,560,100 | 5,396,700 | 5,134,100 | 5,362,500 | 6,223,800 | 6,047,500 |
| 19. NUCLEAR (MMBTU) | 0 | 0 | 0 | 0 | 0 | 0 |
| 20. OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| BTUS BURNED (MMBTU) | | | | | | |
| 21. HEAVY OIL | 23 | 0 | 9 | 44 | 201 | 4,296 |
| 22. LIGHT OIL | 43,703 | 19,424 | 43,523 | 43,239 | 45,572 | 44,875 |
| 23. COAL | 8,340,966 | 5,566,172 | 7,320,336 | 7,426,756 | 9,198,082 | 10,569,016 |
| 24. NATURAL GAS | 4,687,753 | 5,547,844 | 5,277,926 | 5,512,579 | 6,397,901 | 6,216,671 |
| 25. NUCLEAR | 0 | 0 | 0 | 0 | 0 | 0 |
| 26. OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| 27. TOTAL (MMBTU) | 13,072,445 | 11,133,440 | 12,641,794 | 12,982,618 | 15,641,756 | 16,834,858 |
| GENERATION MIX (% MWH) | | | | | | |
| 28. HEAVY OIL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| 29. LIGHT OIL | 0.29 | 0.14 | 0.29 | 0.28 | 0.25 | 0.23 |
| 30. COAL | 55.40 | 40.94 | 49.00 | 48.52 | 50.26 | 54.47 |
| 31. NATURAL GAS | 44.31 | 58.92 | 50.71 | 51.20 | 49.49 | 45.28 |
| 32. NUCLEAR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33. OTHER | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34. TOTAL ( % ) | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| FUEL COST PER UNIT | | | | | | |
| 35. HEAVY OIL ($/BBL) | 70.75 | 0.00 | 71.00 | 70.86 | 87.22 | 73.04 |
| 36. LIGHT OIL ($/BBL) | 41.55 | 30.00 | 44.18 | 44.16 | 42.93 | 38.38 |
| 37. COAL ($/TON) | 71.54 | 71.97 | 71.26 | 72.43 | 73.33 | 75.13 |
| 38. NATURAL GAS ($/MCF) | 7.93 | 7.39 | 7.57 | 7.30 | 7.52 | 7.65 |
| 39. NUCLEAR ($/MMBTU) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40. OTHER | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL COST PER MMBTU ($/MMBTU) | | | | | | |
| 41. HEAVY OIL | 12.30 | 0.00 | 15.78 | 11.27 | 13.89 | 11.65 |
| 42. LIGHT OIL | 14.77 | 14.78 | 14.84 | 14.88 | 14.94 | 14.99 |
| 43. COAL | 3.07 | 3.13 | 3.05 | 3.03 | 3.09 | 3.21 |
| 44. NATURAL GAS | 7.72 | 7.19 | 7.36 | 7.10 | 7.31 | 7.44 |
| 45. NUCLEAR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46. OTHER | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47. TOTAL ($/MMBTU) | 4.78 | 5.17 | 4.89 | 4.80 | 4.85 | 4.80 |
| BTU BURNED PER KWH (BTU/KWH) | | | | | | |
| 48. HEAVY OIL | 11,500 | 0 | 9,000 | 11,000 | 9,571 | 9,786 |
| 49. LIGHT OIL | 10,531 | 10,488 | 10,490 | 10,497 | 10,505 | 10,534 |
| 50. COAL | 10,598 | 10,620 | 10,598 | 10,573 | 10,598 | 10,650 |
| 51. NATURAL GAS | 7,447 | 7,352 | 7,383 | 7,436 | 7,486 | 7,534 |
| 52. NUCLEAR | 0 | 0 | 0 | 0 | 0 | 0 |
| 53. OTHER | 0 | 0 | 0 | 0 | 0 | 0 |
| 54. TOTAL (BTU/KWH) | 9,202 | 8,694 | 8,967 | 8,967 | 9,058 | 9,239 |
| GENERATED FUEL COST PER KWH (CENTS/KWH) | | | | | | |
| 55. HEAVY OIL | 14.15 | 0.00 | 14.20 | 12.40 | 13.29 | 11.40 |
| 56. LIGHT OIL | 15.55 | 15.50 | 15.56 | 15.62 | 15.69 | 15.79 |
| 57. COAL | 3.25 | 3.33 | 3.23 | 3.20 | 3.28 | 3.41 |
| 58. NATURAL GAS | 5.75 | 5.28 | 5.43 | 5.28 | 5.47 | 5.61 |
| 59. NUCLEAR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60. OTHER | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61. TOTAL (CENTS/KWH) | 4.39 | 4.50 | 4.38 | 4.30 | 4.40 | 4.44 |

TAMPA ELECTRIC COMPANY
GENERATING SYSTEM COMPARATIVE DATA BY FUEL TYPE
ESTIMATED FOR THE PERIOD: JULY 2010 THROUGH DECEMBER 2010

SCHEDULE E3

| | | Jul-10 | Aug-10 | Sep-10 | Oct-10 | Nov-10 | Dec-10 | TOTAL |
|---|---|---|---|---|---|---|---|---|
| FUEL COST OF SYSTEM NET GENERATION ($) | | | | | | | | |
| 1. | HEAVY OIL | 50,570 | 59,014 | 9,144 | 1,271 | 0 | 0 | 173,741 |
| 2. | LIGHT OIL | 718,442 | 714,772 | 705,942 | 698,256 | 527,528 | 661,892 | 7,601,966 |
| 3. | COAL | 35,842,888 | 36,368,507 | 35,120,936 | 31,278,642 | 34,144,315 | 36,548,547 | 359,457,950 |
| 4. | NATURAL GAS | 52,741,535 | 53,543,301 | 47,367,734 | 43,695,973 | 25,831,472 | 28,969,873 | 499,243,978 |
| 5. | NUCLEAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6. | OTHER | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7. | TOTAL ($) | 89,353,435 | 90,685,594 | 83,203,756 | 75,674,142 | 60,503,315 | 66,180,312 | 866,477,635 |
| SYSTEM NET GENERATION (MWH) | | | | | | | | |
| 8. | HEAVY OIL | 445 | 518 | 72 | 11 | 0 | 0 | 1,513 |
| 9. | LIGHT OIL | 4,510 | 4,469 | 4,382 | 4,322 | 3,255 | 4,052 | 47,858 |
| 10. | COAL | 1,025,775 | 1,026,091 | 993,092 | 893,919 | 958,945 | 1,022,046 | 10,484,588 |
| 11. | NATURAL GAS | 915,364 | 950,326 | 836,894 | 781,912 | 439,377 | 472,035 | 8,915,816 |
| 12. | NUCLEAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13. | OTHER | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14. | TOTAL (MWH) | 1,946,094 | 1,981,404 | 1,834,440 | 1,680,164 | 1,401,577 | 1,498,133 | 19,449,775 |
| UNITS OF FUEL BURNED | | | | | | | | |
| 15. | HEAVY OIL (BBL) | 692 | 807 | 113 | 17 | 0 | 0 | 2,359 |
| 16. | LIGHT OIL (BBL) | 18,008 | 17,923 | 17,756 | 14,940 | 15,658 | 17,100 | 189,061 |
| 17. | COAL (TON) | 469,003 | 469,155 | 451,394 | 403,011 | 434,797 | 462,021 | 4,751,876 |
| 18. | NATURAL GAS (MCF) | 6,785,200 | 7,030,300 | 6,132,100 | 5,701,900 | 3,162,400 | 3,388,000 | 64,924,600 |
| 19. | NUCLEAR (MMBTU) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20. | OTHER | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BTUS BURNED (MMBTU) | | | | | | | | |
| 21. | HEAVY OIL | 4,347 | 5,070 | 705 | 111 | 0 | 1 | 14,807 |
| 22. | LIGHT OIL | 47,658 | 47,136 | 46,214 | 45,397 | 34,111 | 42,474 | 503,326 |
| 23. | COAL | 10,988,136 | 10,991,536 | 10,576,476 | 9,456,347 | 10,155,636 | 10,816,806 | 111,406,265 |
| 24. | NATURAL GAS | 6,974,943 | 7,226,867 | 6,303,726 | 5,861,360 | 3,250,897 | 3,482,808 | 66,741,275 |
| 25. | NUCLEAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26. | OTHER | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27. | TOTAL (MMBTU) | 18,015,084 | 18,270,609 | 16,927,121 | 15,363,215 | 13,440,644 | 14,342,089 | 178,665,673 |
| GENERATION MIX (% MWH) | | | | | | | | |
| 28. | HEAVY OIL | 0.02 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 |
| 29. | LIGHT OIL | 0.23 | 0.23 | 0.24 | 0.26 | 0.23 | 0.27 | 0.25 |
| 30. | COAL | 52.71 | 51.78 | 54.14 | 53.20 | 68.42 | 68.22 | 53.90 |
| 31. | NATURAL GAS | 47.04 | 47.96 | 45.62 | 46.54 | 31.35 | 31.51 | 45.84 |
| 32. | NUCLEAR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 33. | OTHER | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 34. | TOTAL ( % ) | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 |
| FUEL COST PER UNIT | | | | | | | | |
| 35. | HEAVY OIL ($/BBL) | 73.08 | 73.13 | 80.92 | 74.76 | 0.00 | 0.00 | 73.65 |
| 36. | LIGHT OIL ($/BBL) | 39.90 | 39.88 | 39.76 | 46.74 | 33.69 | 38.71 | 40.21 |
| 37. | COAL ($/TON) | 76.42 | 77.52 | 77.81 | 77.61 | 78.53 | 79.11 | 75.65 |
| 38. | NATURAL GAS ($/MCF) | 7.77 | 7.62 | 7.72 | 7.66 | 8.17 | 8.55 | 7.69 |
| 39. | NUCLEAR ($/MMBTU) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 40. | OTHER | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FUEL COST PER MMBTU ($/MMBTU) | | | | | | | | |
| 41. | HEAVY OIL | 11.63 | 11.64 | 12.97 | 11.45 | 0.00 | 0.00 | 11.73 |
| 42. | LIGHT OIL | 15.07 | 15.16 | 15.28 | 15.38 | 15.47 | 15.58 | 15.10 |
| 43. | COAL | 3.26 | 3.31 | 3.32 | 3.31 | 3.36 | 3.38 | 3.23 |
| 44. | NATURAL GAS | 7.56 | 7.41 | 7.51 | 7.45 | 7.95 | 8.32 | 7.48 |
| 45. | NUCLEAR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 46. | OTHER | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 47. | TOTAL ($/MMBTU) | 4.96 | 4.96 | 4.92 | 4.93 | 4.50 | 4.61 | 4.85 |
| BTU BURNED PER KWH (BTU/KWH) | | | | | | | | |
| 48. | HEAVY OIL | 9,769 | 9,788 | 9,792 | 10,091 | 0 | 0 | 9,787 |
| 49. | LIGHT OIL | 10,567 | 10,547 | 10,546 | 10,504 | 10,480 | 10,482 | 10,517 |
| 50. | COAL | 10,712 | 10,712 | 10,650 | 10,579 | 10,590 | 10,583 | 10,626 |
| 51. | NATURAL GAS | 7,620 | 7,605 | 7,532 | 7,496 | 7,399 | 7,378 | 7,486 |
| 52. | NUCLEAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53. | OTHER | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54. | TOTAL (BTU/KWH) | 9,257 | 9,221 | 9,227 | 9,144 | 9,590 | 9,573 | 9,186 |
| GENERATED FUEL COST PER KWH (CENTS/KWH) | | | | | | | | |
| 55. | HEAVY OIL | 11.36 | 11.39 | 12.70 | 11.55 | 0.00 | 0.00 | 11.48 |
| 56. | LIGHT OIL | 15.93 | 15.99 | 16.11 | 16.16 | 16.21 | 16.33 | 15.88 |
| 57. | COAL | 3.49 | 3.54 | 3.54 | 3.50 | 3.56 | 3.58 | 3.43 |
| 58. | NATURAL GAS | 5.76 | 5.63 | 5.66 | 5.59 | 5.88 | 6.14 | 5.60 |
| 59. | NUCLEAR | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60. | OTHER | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61. | TOTAL (CENTS/KWH) | 4.59 | 4.58 | 4.54 | 4.50 | 4.32 | 4.42 | 4.45 |

**TAMPA ELECTRIC COMPANY**
**SYSTEM NET GENERATION AND FUEL COST**
**ESTIMATED FOR THE PERIOD: JANUARY 2010**

| (A) PLANT/UNIT | (B) NET CAPA-BILITY (MW) | (C) NET GENERATION (MWH) | (D) NET CAPACITY FACTOR (%) | (E) EQUIV. AVAIL. FACTOR (%) | (F) NET OUTPUT FACTOR (%) | (G) AVG. NET HEAT RATE (BTU/KWH) | (H) FUEL TYPE | (I) FUEL BURNED (UNITS) | (J) FUEL HEAT VALUE (BTU/UNIT) | (K) FUEL BURNED (MM BTU) | (L) AS BURNED FUEL COST ($) | (M) FUEL COST PER KWH (cents/KWH) | (N) COST OF FUEL ($/UNIT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. B.B.#1 | 395 | 0 | 0.0 | 0.0 | 0.0 | 0 | COAL | 0 | 0 | 0.0 | 0 | 0.00 | 0.00 |
| 2. B.B.#2 | 395 | 238,460 | 81.1 | 83.6 | 0.1 | 10,594 | COAL | 107,865 | 23,420,201 | 2,526,220.0 | 7,571,602 | 3.18 | 70.20 |
| 3. B.B.#3 | 385 | 186,457 | 65.1 | 71.1 | 0.1 | 10,624 | COAL | 86,051 | 23,019,953 | 1,980,890.0 | 6,040,364 | 3.24 | 70.20 |
| 4. B.B.#4 | 427 | 231,727 | 72.9 | 76.4 | 0.1 | 10,633 | COAL | 111,998 | 21,999,946 | 2,463,950.0 | 7,910,436 | 3.41 | 70.63 |
| B.B. IGNITION | - | - | - | - | - | - | LGT OIL | 7,996 | - | - | 671,674 | - | 84.00 |
| **5. B.B. STATION** | **1,602** | **656,644** | **55.1** | **58.1** | **0.1** | **10,616** | | **-** | **-** | **6,971,060.0** | **22,194,076** | **3.38** | **-** |
| 6. SEB-PHILLIPS #1 (HVY OIL) | 18 | 1 | 0.0 | 82.9 | 0.1 | 11,500 | HVY OIL | 2 | 5,750,000 | 11.5 | 142 | 14.20 | 71.00 |
| 7. SEB-PHILLIPS #2 (HVY OIL) | 18 | 1 | 0.0 | 81.3 | 0.1 | 23,000 | HVY OIL | 2 | 11,500,000 | 23.0 | 141 | 14.10 | 70.50 |
| SEB-PHILLIPS IGNITION | - | - | - | - | - | - | LGT OIL | 0 | - | - | 0 | - | 0.00 |
| **8. SEB-PHILLIPS TOTAL** | **36** | **2** | **0.0** | **82.1** | **0.1** | **17,250** | | **-** | **-** | **34.5** | **283** | **14.15** | **-** |
| 9. POLK #1 GASIFIER | 235 | 130,420 | 74.6 | - | - | 10,504 | COAL | 52,157 | 26,265,046 | 1,369,906.0 | 3,421,523 | 2.62 | 65.60 |
| 10. POLK #1 CT OIL | 235 | 4,034 | 2.3 | - | - | 10,477 | LGT OIL | 7,292 | 5,795,941 | 42,264.0 | 624,049 | 15.47 | 85.58 |
| **11. POLK #1 TOTAL** | **235** | **134,454** | **76.9** | **77.7** | **0.1** | **10,503** | | **-** | **-** | **1,412,170.0** | **4,045,572** | **3.01** | **-** |
| 12. POLK #2 CT GAS | 183 | 3,328 | 2.4 | - | - | 13,506 | GAS | 43,800 | 1,026,187 | 44,947.0 | 347,404 | 10.44 | 7.93 |
| 13. POLK #2 CT OIL | 186 | 103 | 0.1 | - | - | 12,592 | LGT OIL | 224 | 5,790,179 | 1,297.0 | 19,170 | 18.61 | 85.58 |
| **14. POLK #2 TOTAL** | **186** | **3,431** | **2.5** | **98.9** | **0.1** | **13,478** | | **-** | **-** | **46,244.0** | **366,574** | **10.68** | **-** |
| 15. POLK #3 CT GAS | 183 | 158 | 0.1 | - | - | 14,399 | GAS | 2,200 | 1,034,091 | 2,275.0 | 17,450 | 11.04 | 7.93 |
| 16. POLK #3 CT OIL | 186 | 5 | 0.0 | - | - | 11,000 | LGT OIL | 9 | 6,111,111 | 55.0 | 770 | 15.40 | 85.56 |
| **17. POLK #3 TOTAL** | **186** | **163** | **0.1** | **98.9** | **0.1** | **14,294** | | **-** | **-** | **2,330.0** | **18,220** | **11.18** | **-** |
| **18. POLK #4 CT GAS** | **183** | **5,666** | **4.2** | **99.4** | **0.1** | **12,977** | **GAS** | **71,500** | **1,028,350** | **73,527.0** | **567,110** | **10.01** | **7.93** |
| **19. POLK #5 CT GAS** | **183** | **4,464** | **3.3** | **99.4** | **0.1** | **13,013** | **GAS** | **56,500** | **1,028,106** | **58,088.0** | **448,136** | **10.04** | **7.93** |
| **20. CITY OF TAMPA GAS** | **6** | **76** | **1.7** | **100.0** | **0.0** | **10,474** | **GAS** | **800** | **995,000** | **796.0** | **6,294** | **8.28** | **7.87** |
| 21. BAYSIDE #1 | 792 | 356,639 | 60.5 | 95.6 | 0.1 | 7,265 | GAS | 2,520,400 | 1,028,027 | 2,591,040.0 | 19,990,825 | 5.61 | 7.93 |
| 22. BAYSIDE #2 | 1,047 | 257,911 | 33.1 | 96.7 | 0.1 | 7,382 | GAS | 1,852,000 | 1,028,040 | 1,903,930.0 | 14,689,338 | 5.70 | 7.93 |
| 23. BAYSIDE #3 | 61 | 394 | 0.9 | 99.5 | 0.1 | 10,901 | GAS | 4,200 | 1,022,619 | 4,295.0 | 33,313 | 8.46 | 7.93 |
| 24. BAYSIDE #4 | 61 | 308 | 0.7 | 99.5 | 0.1 | 10,945 | GAS | 3,300 | 1,021,515 | 3,371.0 | 26,174 | 8.50 | 7.93 |
| 25. BAYSIDE #5 | 61 | 242 | 0.5 | 99.5 | 0.1 | 11,000 | GAS | 2,600 | 1,023,846 | 2,662.0 | 20,622 | 8.52 | 7.93 |
| 26. BAYSIDE #6 | 61 | 183 | 0.4 | 99.5 | 0.1 | 11,142 | GAS | 2,000 | 1,019,500 | 2,039.0 | 15,863 | 8.67 | 7.93 |
| **27. BAYSIDE TOTAL** | **2,083** | **615,677** | **39.7** | **96.6** | **0.1** | **7,321** | **GAS** | **4,384,500** | **1,028,016** | **4,507,337.0** | **34,776,135** | **5.65** | **7.93** |
| 28. B.B.C.T.#4 OIL | 61 | 8 | 0.0 | 0.0 | - | 10,875 | LGT OIL | 15 | 5,800,000 | 87.0 | 1,531 | 19.14 | 102.07 |
| 29. B.B.C.T.#4 GAS | 61 | 73 | 0.2 | 0.0 | - | 10,726 | GAS | 800 | 978,750 | 783.0 | 6,345 | 8.69 | 7.93 |
| **30. B.B.C.T.#4 TOTAL** | **61** | **81** | **0.2** | **99.5** | **0.1** | **10,741** | | **-** | **-** | **870.0** | **7,876** | **9.72** | **-** |
| **31. TOT COAL (BB,POLK)** | **1,837** | **787,064** | **57.6** | **50.6** | **0.1** | **10,598** | **COAL** | **358,071** | **23,294,168** | **8,340,966.0** | **25,615,599** | **3.25** | **71.54** |
| **32. SYSTEM** | **4,761** | **1,420,658** | **40.1** | **81.7** | **0.1** | **9,202** | **-** | **-** | **-** | **13,072,456.5** | **62,430,276** | **4.39** | **-** |

LEGEND:
B.B. = BIG BEND SEB-PHIL = SEBRING-PHILLIPS
C.T. = COMBUSTION TURBINE

SCHEDULE E4

**TAMPA ELECTRIC COMPANY**
**SYSTEM NET GENERATION AND FUEL COST**
**ESTIMATED FOR THE PERIOD: FEBRUARY 2010**

| (A) PLANT/UNIT | (B) NET CAPA-BILITY (MW) | (C) NET GENERATION (MWH) | (D) NET CAPACITY FACTOR (%) | (E) EQUIV. AVAIL. FACTOR (%) | (F) NET OUTPUT FACTOR (%) | (G) AVG. NET HEAT RATE (BTU/KWH) | (H) FUEL TYPE | (I) FUEL BURNED (UNITS) | (J) FUEL HEAT VALUE (BTU/UNIT) | (K) FUEL BURNED (MM BTU) | (L) AS BURNED FUEL COST ($) | (M) FUEL COST PER KWH (cents/KWH) | (N) COST OF FUEL ($/UNIT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. B.B.#1 | 395 | 0 | 0.0 | 0.0 | 0.0 | 0 | COAL | 0 | 0 | 0.0 | 0 | 0.00 | 0.00 |
| 2. B.B.#2 | 395 | 91,886 | 34.6 | 35.8 | 0.1 | 10,602 | COAL | 41,594 | 23,420,253 | 974,142.0 | 2,903,703 | 3.16 | 69.81 |
| 3. B.B.#3 | 385 | 167,536 | 64.8 | 71.1 | 0.1 | 10,627 | COAL | 77,339 | 23,019,951 | 1,780,340.0 | 5,399,084 | 3.22 | 69.81 |
| 4. B.B.#4 | 427 | 206,022 | 71.8 | 76.4 | 0.1 | 10,652 | COAL | 99,749 | 22,000,120 | 2,194,490.0 | 7,012,259 | 3.40 | 70.30 |
| B.B. IGNITION | - | - | - | - | - | - | LGT OIL | 6,219 | - | - | 528,186 | - | 84.93 |
| **5. B.B. STATION** | **1,602** | **465,444** | **43.2** | **46.3** | **0.1** | **10,633** | | **-** | **-** | **4,948,972.0** | **15,843,232** | **3.40** | **-** |
| 6. SEB-PHILLIPS #1 (HVY OIL) | 18 | 0 | 0.0 | 82.9 | 0.0 | 0 | HVY OIL | 0 | 0 | 0.0 | 0 | 0.00 | 0.00 |
| 7. SEB-PHILLIPS #2 (HVY OIL) | 18 | 0 | 0.0 | 81.3 | 0.0 | 0 | HVY OIL | 0 | 0 | 0.0 | 0 | 0.00 | 0.00 |
| SEB-PHILLIPS IGNITION | - | - | - | - | - | - | LGT OIL | 0 | - | - | 0 | - | 0.00 |
| **8. SEB-PHILLIPS TOTAL** | **36** | **0** | **0.0** | **82.1** | **0.0** | **0** | | **-** | **-** | **0.0** | **0** | **0.00** | **-** |
| 9. POLK #1 GASIFIER | 235 | 58,702 | 37.2 | - | - | 10,514 | COAL | 23,493 | 26,271,655 | 617,200.0 | 1,585,075 | 2.70 | 67.47 |
| 10. POLK #1 CT OIL | 235 | 1,816 | 1.1 | - | - | 10,483 | LGT OIL | 3,284 | 5,796,894 | 19,037.0 | 281,366 | 15.49 | 85.68 |
| **11. POLK #1 TOTAL** | **235** | **60,518** | **38.3** | **38.8** | **0.1** | **10,513** | | **-** | **-** | **636,237.0** | **1,866,441** | **3.08** | **-** |
| 12. POLK #2 CT GAS | 183 | 88 | 0.1 | - | - | 11,557 | GAS | 1,000 | 1,017,000 | 1,017.0 | 7,387 | 8.39 | 7.39 |
| 13. POLK #2 CT OIL | 186 | 3 | 0.0 | - | - | 10,333 | LGT OIL | 5 | 6,200,000 | 31.0 | 428 | 14.28 | 85.66 |
| **14. POLK #2 TOTAL** | **186** | **91** | **0.1** | **98.9** | **0.1** | **11,516** | | **-** | **-** | **1,048.0** | **7,815** | **8.59** | **-** |
| 15. POLK #3 CT GAS | 183 | 30 | 0.0 | - | - | 11,667 | GAS | 300 | 1,166,667 | 350.0 | 2,216 | 7.39 | 7.39 |
| 16. POLK #3 CT OIL | 186 | 1 | 0.0 | - | - | 11,000 | LGT OIL | 2 | 5,500,000 | 11.0 | 171 | 17.10 | 85.50 |
| **17. POLK #3 TOTAL** | **186** | **31** | **0.0** | **98.9** | **0.1** | **11,645** | | **-** | **-** | **361.0** | **2,387** | **7.70** | **-** |
| **18. POLK #4 CT GAS** | **183** | **4,042** | **3.3** | **99.4** | **0.1** | **12,233** | **GAS** | **48,100** | **1,027,942** | **49,444.0** | **355,305** | **8.79** | **7.39** |
| **19. POLK #5 CT GAS** | **183** | **257** | **0.2** | **99.4** | **0.1** | **13,459** | **GAS** | **3,400** | **1,017,353** | **3,459.0** | **25,115** | **9.77** | **7.39** |
| **20. CITY OF TAMPA GAS** | **6** | **100** | **2.5** | **100.0** | **0.0** | **10,470** | **GAS** | **1,000** | **1,047,000** | **1,047.0** | **7,920** | **7.92** | **7.92** |
| 21. BAYSIDE #1 | 792 | 382,674 | 71.9 | 95.6 | 0.1 | 7,265 | GAS | 2,704,500 | 1,027,987 | 2,780,190.0 | 19,977,579 | 5.22 | 7.39 |
| 22. BAYSIDE #2 | 1,047 | 363,345 | 51.6 | 93.2 | 0.1 | 7,345 | GAS | 2,596,000 | 1,028,008 | 2,668,710.0 | 19,176,112 | 5.28 | 7.39 |
| 23. BAYSIDE #3 | 61 | 1,343 | 3.3 | 99.5 | 0.1 | 10,790 | GAS | 14,100 | 1,027,730 | 14,491.0 | 104,154 | 7.76 | 7.39 |
| 24. BAYSIDE #4 | 61 | 1,026 | 2.5 | 99.5 | 0.1 | 10,811 | GAS | 10,800 | 1,027,037 | 11,092.0 | 79,777 | 7.78 | 7.39 |
| 25. BAYSIDE #5 | 61 | 782 | 1.9 | 99.5 | 0.1 | 10,825 | GAS | 8,200 | 1,032,317 | 8,465.0 | 60,572 | 7.75 | 7.39 |
| 26. BAYSIDE #6 | 61 | 590 | 1.4 | 99.5 | 0.1 | 10,863 | GAS | 6,200 | 1,033,710 | 6,409.0 | 45,798 | 7.76 | 7.39 |
| **27. BAYSIDE TOTAL** | **2,083** | **749,760** | **53.6** | **94.8** | **0.1** | **7,321** | **GAS** | **5,339,800** | **1,028,008** | **5,489,357.0** | **39,443,992** | **5.26** | **7.39** |
| 28. B.B.C.T.#4 OIL | 61 | 32 | 0.1 | 0.0 | - | 10,781 | LGT OIL | 60 | 5,750,000 | 345.0 | 5,096 | 15.93 | 84.93 |
| 29. B.B.C.T.#4 GAS | 61 | 288 | 0.7 | 0.0 | - | 11,007 | GAS | 3,100 | 1,022,581 | 3,170.0 | 22,899 | 7.95 | 7.39 |
| **30. B.B.C.T.#4 TOTAL** | **61** | **320** | **0.8** | **99.5** | **0.1** | **10,984** | | **-** | **-** | **3,515.0** | **27,995** | **8.75** | **-** |
| **31. TOT COAL (BB,POLK)** | **1,837** | **524,146** | **42.5** | **40.4** | **0.1** | **10,620** | **COAL** | **242,175** | **22,984,090** | **5,566,172.0** | **17,428,307** | **3.33** | **71.97** |
| **32. SYSTEM** | **4,761** | **1,280,563** | **40.0** | **75.1** | **0.1** | **8,694** | **-** | **-** | **-** | **11,133,440.0** | **57,580,202** | **4.50** | **-** |

LEGEND:
B.B. = BIG BEND SEB-PHIL = SEBRING-PHILLIPS
C.T. = COMBUSTION TURBINE

**TAMPA ELECTRIC COMPANY**
**SYSTEM NET GENERATION AND FUEL COST**
**ESTIMATED FOR THE PERIOD: MARCH 2010**

| (A) PLANT/UNIT | (B) NET CAPA-BILITY (MW) | (C) NET GENERATION (MWH) | (D) NET CAPACITY FACTOR (%) | (E) EQUIV. AVAIL. FACTOR (%) | (F) NET OUTPUT FACTOR (%) | (G) AVG. NET HEAT RATE (BTU/KWH) | (H) FUEL TYPE | (I) FUEL BURNED (UNITS) | (J) FUEL HEAT VALUE (BTU/UNIT) | (K) FUEL BURNED (MM BTU) | (L) AS BURNED FUEL COST ($) | (M) FUEL COST PER KWH (cents/KWH) | (N) COST OF FUEL ($/UNIT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. B.B.#1 | 395 | 0 | 0.0 | 0.0 | 0.0 | 0 | COAL | 0 | 0 | 0.0 | 0 | 0.00 | 0.00 |
| 2. B.B.#2 | 395 | 239,633 | 81.5 | 83.6 | 0.1 | 10,570 | COAL | 108,147 | 23,420,252 | 2,532,830.0 | 7,521,068 | 3.14 | 69.54 |
| 3. B.B.#3 | 385 | 127,635 | 44.6 | 48.1 | 0.1 | 10,644 | COAL | 59,019 | 23,019,706 | 1,358,600.0 | 4,104,468 | 3.22 | 69.54 |
| 4. B.B.#4 | 427 | 193,305 | 60.8 | 64.0 | 0.1 | 10,663 | COAL | 93,689 | 22,000,128 | 2,061,170.0 | 6,564,307 | 3.40 | 70.06 |
| B.B. IGNITION | - | - | - | - | - | - | LGT OIL | 7,107 | - | - | 610,175 | - | 85.86 |
| **5. B.B. STATION** | **1,602** | **560,573** | **47.0** | **49.3** | **0.1** | **10,619** | | **-** | **-** | **5,952,600.0** | **18,800,018** | **3.35** | **-** |
| 6. SEB-PHILLIPS #1 (HVY OIL) | 18 | 1 | 0.0 | 64.1 | 0.1 | 9,000 | HVY OIL | 1 | 9,000,000 | 9.0 | 71 | 7.10 | 71.00 |
| 7. SEB-PHILLIPS #2 (HVY OIL) | 18 | 0 | 0.0 | 34.1 | 0.0 | 0 | HVY OIL | 1 | 9,000,000 | 9.0 | 71 | 0.00 | 71.00 |
| SEB-PHILLIPS IGNITION | - | - | - | - | - | - | LGT OIL | 0 | - | - | 0 | - | 0.00 |
| **8. SEB-PHILLIPS TOTAL** | **36** | **1** | **0.0** | **49.1** | **0.1** | **18,000** | | **-** | **-** | **18.0** | **142** | **14.20** | **-** |
| 9. POLK #1 GASIFIER | 235 | 130,179 | 74.5 | - | - | 10,507 | COAL | 52,075 | 26,264,734 | 1,367,736.0 | 3,499,851 | 2.69 | 67.21 |
| 10. POLK #1 CT OIL | 235 | 4,026 | 2.3 | - | - | 10,481 | LGT OIL | 7,280 | 5,796,291 | 42,197.0 | 625,795 | 15.54 | 85.96 |
| **11. POLK #1 TOTAL** | **235** | **134,205** | **76.8** | **77.7** | **0.1** | **10,506** | | **-** | **-** | **1,409,933.0** | **4,125,646** | **3.07** | **-** |
| 12. POLK #2 CT GAS | 183 | 216 | 0.2 | - | - | 13,856 | GAS | 2,900 | 1,032,069 | 2,993.0 | 21,939 | 10.16 | 7.57 |
| 13. POLK #2 CT OIL | 186 | 7 | 0.0 | - | - | 11,000 | LGT OIL | 13 | 5,923,077 | 77.0 | 1,117 | 15.96 | 85.96 |
| **14. POLK #2 TOTAL** | **186** | **223** | **0.2** | **98.9** | **0.1** | **13,767** | | **-** | **-** | **3,070.0** | **23,056** | **10.34** | **-** |
| 15. POLK #3 CT GAS | 183 | 75 | 0.1 | - | - | 11,520 | GAS | 800 | 1,080,000 | 864.0 | 6,052 | 8.07 | 7.57 |
| 16. POLK #3 CT OIL | 186 | 2 | 0.0 | - | - | 13,500 | LGT OIL | 5 | 5,400,000 | 27.0 | 430 | 21.50 | 86.00 |
| **17. POLK #3 TOTAL** | **186** | **77** | **0.1** | **98.9** | **0.1** | **11,571** | | **-** | **-** | **891.0** | **6,482** | **8.42** | **-** |
| **18. POLK #4 CT GAS** | **183** | **1,244** | **0.9** | **83.4** | **0.1** | **12,145** | **GAS** | **14,700** | **1,027,823** | **15,109.0** | **111,207** | **8.94** | **7.57** |
| **19. POLK #5 CT GAS** | **183** | **580** | **0.4** | **99.4** | **0.1** | **12,302** | **GAS** | **6,900** | **1,034,058** | **7,135.0** | **52,199** | **9.00** | **7.57** |
| **20. CITY OF TAMPA GAS** | **6** | **238** | **5.3** | **100.0** | **0.1** | **10,437** | **GAS** | **2,500** | **993,600** | **2,484.0** | **19,685** | **8.27** | **7.87** |
| 21. BAYSIDE #1 | 792 | 415,444 | 70.5 | 95.6 | 0.1 | 7,264 | GAS | 2,935,700 | 1,027,990 | 3,017,870.0 | 22,208,796 | 5.35 | 7.57 |
| 22. BAYSIDE #2 | 1,047 | 287,350 | 36.9 | 78.0 | 0.1 | 7,402 | GAS | 2,069,100 | 1,028,003 | 2,127,040.0 | 15,652,901 | 5.45 | 7.57 |
| 23. BAYSIDE #3 | 61 | 2,818 | 6.2 | 99.5 | 0.1 | 10,742 | GAS | 29,400 | 1,029,660 | 30,272.0 | 222,413 | 7.89 | 7.57 |
| 24. BAYSIDE #4 | 61 | 2,335 | 5.1 | 99.5 | 0.1 | 10,761 | GAS | 24,400 | 1,029,795 | 25,127.0 | 184,588 | 7.91 | 7.57 |
| 25. BAYSIDE #5 | 61 | 1,936 | 4.3 | 99.5 | 0.1 | 10,733 | GAS | 20,200 | 1,028,713 | 20,780.0 | 152,815 | 7.89 | 7.57 |
| 26. BAYSIDE #6 | 61 | 1,599 | 3.5 | 99.5 | 0.1 | 10,748 | GAS | 16,700 | 1,029,102 | 17,186.0 | 126,337 | 7.90 | 7.57 |
| **27. BAYSIDE TOTAL** | **2,083** | **711,482** | **45.9** | **87.2** | **0.1** | **7,362** | **GAS** | **5,095,500** | **1,028,020** | **5,238,275.0** | **38,547,850** | **5.42** | **7.57** |
| 28. B.B.C.T.#4 OIL | 61 | 114 | 0.3 | 0.0 | - | 10,719 | LGT OIL | 211 | 5,791,469 | 1,222.0 | 18,387 | 16.13 | 87.14 |
| 29. B.B.C.T.#4 GAS | 61 | 1,029 | 2.3 | 0.0 | - | 10,754 | GAS | 10,800 | 1,024,630 | 11,066.0 | 81,703 | 7.94 | 7.57 |
| **30. B.B.C.T.#4 TOTAL** | **61** | **1,143** | **2.5** | **99.5** | **0.1** | **10,751** | | **-** | **-** | **12,288.0** | **100,090** | **8.76** | **-** |
| **31. TOT COAL (BB,POLK)** | **1,837** | **690,752** | **50.5** | **43.0** | **0.1** | **10,598** | **COAL** | **312,930** | **23,392,887** | **7,320,336.0** | **22,299,869** | **3.23** | **71.26** |
| **32. SYSTEM** | **4,761** | **1,409,766** | **39.8** | **73.8** | **0.1** | **8,967** | **-** | **-** | **-** | **12,641,803.0** | **61,786,375** | **4.38** | **-** |

LEGEND:
B.B. = BIG BEND SEB-PHIL = SEBRING-PHILLIPS
C.T. = COMBUSTION TURBINE

34

SCHEDULE E4

**TAMPA ELECTRIC COMPANY**
**SYSTEM NET GENERATION AND FUEL COST**
**ESTIMATED FOR THE PERIOD: APRIL 2010**

| (A) PLANT/UNIT | (B) NET CAPA-BILITY (MW) | (C) NET GENERATION (MWH) | (D) NET CAPACITY FACTOR (%) | (E) EQUIV. AVAIL. FACTOR (%) | (F) NET OUTPUT FACTOR (%) | (G) AVG. NET HEAT RATE (BTU/KWH) | (H) FUEL TYPE | (I) FUEL BURNED (UNITS) | (J) FUEL HEAT VALUE (BTU/UNIT) | (K) FUEL BURNED (MM BTU) | (L) AS BURNED FUEL COST ($) | (M) FUEL COST PER KWH (cents/KWH) | (N) COST OF FUEL ($/UNIT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. B.B.#1 | 385 | 162,944 | 58.8 | 59.9 | 0.1 | 10,568 | COAL | 72,963 | 23,600,044 | 1,721,930.0 | 5,134,800 | 3.15 | 70.38 |
| 2. B.B.#2 | 385 | 229,283 | 82.7 | 83.6 | 0.1 | 10,563 | COAL | 102,628 | 23,599,895 | 2,422,010.0 | 7,222,486 | 3.15 | 70.38 |
| 3. B.B.#3 | 375 | 183,921 | 68.1 | 71.1 | 0.1 | 10,637 | COAL | 84,325 | 23,199,881 | 1,956,330.0 | 5,934,406 | 3.23 | 70.38 |
| 4. B.B.#4 | 432 | 0 | 0.0 | 0.0 | 0.0 | 0 | COAL | 0 | 0 | 0.0 | 104,718 | 0.00 | 0.00 |
| B.B. IGNITION | - | - | - | - | - | - | LGT OIL | 7,107 | - | - | 614,905 | - | 86.52 |
| **5. B.B. STATION** | **1,577** | **576,148** | **50.7** | **51.9** | **0.1** | **10,588** | | - | - | **6,100,270.0** | **19,011,315** | **3.30** | - |
| 6. SEB-PHILLIPS #1 (HVY OIL) | 18 | 3 | 0.0 | 82.9 | 0.1 | 11,000 | HVY OIL | 5 | 6,600,000 | 33.0 | 354 | 11.80 | 70.80 |
| 7. SEB-PHILLIPS #2 (HVY OIL) | 18 | 1 | 0.0 | 35.2 | 0.1 | 44,000 | HVY OIL | 2 | 22,000,000 | 44.0 | 142 | 14.20 | 71.00 |
| SEB-PHILLIPS IGNITION | - | - | - | - | - | - | LGT OIL | 0 | - | - | 0 | - | 0.00 |
| **8. SEB-PHILLIPS TOTAL** | **35** | **4** | **0.0** | **59.0** | **0.1** | **19,250** | | - | - | **77.0** | **496** | **12.40** | - |
| 9. POLK #1 GASIFIER | 235 | 126,287 | 74.6 | - | - | 10,504 | COAL | 50,500 | 26,267,050 | 1,326,486.0 | 3,470,797 | 2.75 | 68.73 |
| 10. POLK #1 CT OIL | 215 | 3,906 | 2.5 | - | - | 10,476 | LGT OIL | 7,060 | 5,796,176 | 40,921.0 | 608,731 | 15.58 | 86.22 |
| **11. POLK #1 TOTAL** | **235** | **130,193** | **76.9** | **77.7** | **0.1** | **10,503** | | - | - | **1,367,407.0** | **4,079,528** | **3.13** | - |
| 12. POLK #2 CT GAS | 151 | 507 | 0.5 | - | - | 12,450 | GAS | 6,100 | 1,034,754 | 6,312.0 | 44,532 | 8.78 | 7.30 |
| 13. POLK #2 CT OIL | 158 | 16 | 0.0 | - | - | 11,250 | LGT OIL | 31 | 5,806,452 | 180.0 | 2,673 | 16.70 | 86.21 |
| **14. POLK #2 TOTAL** | **158** | **523** | **0.5** | **98.9** | **0.1** | **12,413** | | - | - | **6,492.0** | **47,205** | **9.03** | - |
| 15. POLK #3 CT GAS | 151 | 206 | 0.2 | - | - | 13,956 | GAS | 2,800 | 1,026,786 | 2,875.0 | 20,441 | 9.92 | 7.30 |
| 16. POLK #3 CT OIL | 158 | 6 | 0.0 | - | - | 12,167 | LGT OIL | 13 | 5,615,385 | 73.0 | 1,121 | 18.68 | 86.23 |
| **17. POLK #3 TOTAL** | **158** | **212** | **0.2** | **98.9** | **0.1** | **13,906** | | - | - | **2,948.0** | **21,562** | **10.17** | - |
| **18. POLK #4 CT GAS** | **151** | **2,380** | **2.2** | **99.4** | **0.1** | **11,567** | **GAS** | **26,800** | **1,027,239** | **27,530.0** | **195,650** | **8.22** | **7.30** |
| **19. POLK #5 CT GAS** | **151** | **1,166** | **1.1** | **99.4** | **0.1** | **11,832** | **GAS** | **13,400** | **1,029,552** | **13,796.0** | **97,825** | **8.39** | **7.30** |
| **20. CITY OF TAMPA GAS** | **6** | **470** | **10.9** | **100.0** | **0.1** | **10,449** | **GAS** | **4,900** | **1,002,245** | **4,911.0** | **38,381** | **8.17** | **7.83** |
| 21. BAYSIDE #1 | 701 | 322,715 | 63.9 | 73.3 | 0.1 | 7,271 | GAS | 2,282,600 | 1,027,994 | 2,346,500.0 | 16,663,854 | 5.16 | 7.30 |
| 22. BAYSIDE #2 | 929 | 398,798 | 59.6 | 96.7 | 0.1 | 7,389 | GAS | 2,866,400 | 1,028,025 | 2,946,730.0 | 20,925,817 | 5.25 | 7.30 |
| 23. BAYSIDE #3 | 56 | 4,098 | 10.2 | 99.5 | 0.1 | 10,874 | GAS | 43,400 | 1,026,751 | 44,561.0 | 316,837 | 7.73 | 7.30 |
| 24. BAYSIDE #4 | 56 | 3,565 | 8.8 | 99.5 | 0.1 | 10,873 | GAS | 37,800 | 1,025,503 | 38,764.0 | 275,954 | 7.74 | 7.30 |
| 25. BAYSIDE #5 | 56 | 3,069 | 7.6 | 99.5 | 0.1 | 10,864 | GAS | 32,400 | 1,029,105 | 33,343.0 | 236,532 | 7.71 | 7.30 |
| 26. BAYSIDE #6 | 56 | 2,631 | 6.5 | 99.5 | 0.1 | 10,874 | GAS | 27,800 | 1,029,137 | 28,610.0 | 202,951 | 7.71 | 7.30 |
| **27. BAYSIDE TOTAL** | **1,854** | **734,876** | **55.1** | **88.2** | **0.1** | **7,401** | **GAS** | **5,290,400** | **1,027,996** | **5,438,508.0** | **38,621,945** | **5.26** | **7.30** |
| 28. B.B.C.T.#4 OIL | 56 | 191 | 0.5 | 0.0 | - | 10,812 | LGT OIL | 356 | 5,800,562 | 2,065.0 | 30,802 | 16.13 | 86.52 |
| 29. B.B.C.T.#4 GAS | 56 | 1,720 | 4.3 | 0.0 | - | 10,841 | GAS | 18,100 | 1,030,221 | 18,647.0 | 132,137 | 7.68 | 7.30 |
| **30. B.B.C.T.#4 TOTAL** | **56** | **1,911** | **4.7** | **99.5** | **0.1** | **10,838** | | - | - | **20,712.0** | **162,939** | **8.53** | - |
| **31. TOT COAL (BB,POLK)** | **1,812** | **702,435** | **53.8** | **45.2** | **0.1** | **10,573** | **COAL** | **310,416** | **23,925,171** | **7,426,756.0** | **22,482,112** | **3.20** | **72.43** |
| **32. SYSTEM** | **4,381** | **1,447,883** | **45.9** | **74.8** | **0.1** | **8,967** | - | - | - | **12,982,651.0** | **62,276,846** | **4.30** | - |

LEGEND:
B.B. = BIG BEND
SEB-PHIL = SEBRING-PHILLIPS
C.T. = COMBUSTION TURBINE

35

36

SCHEDULE E4

TAMPA ELECTRIC COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE PERIOD: MAY 2010

| (A) PLANT/UNIT | (B) NET CAPABILITY (MW) | (C) NET GENERATION (MWH) | (D) NET CAPACITY FACTOR (%) | (E) EQUIV. AVAIL. FACTOR (%) | (F) NET OUTPUT FACTOR (%) | (G) AVG. NET HEAT RATE (BTU/KWH) | (H) FUEL TYPE | (I) FUEL BURNED (UNITS) | (J) FUEL HEAT VALUE (BTU/UNIT) | (K) FUEL BURNED (MM BTU) | (L) AS BURNED FUEL COST ($) | (M) FUEL COST PER KWH (cents/KWH) | (N) COST OF FUEL ($/UNIT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. B.B.#1 | 385 | 230,826 | 80.6 | 81.7 | 0.1 | 10,628 | COAL | 103,954 | 23,599,958 | 2,453,310.0 | 7,448,079 | 3.23 | 71.65 |
| 2. B.B.#2 | 385 | 237,142 | 82.8 | 83.6 | 0.1 | 10,585 | COAL | 106,366 | 23,600,023 | 2,510,240.0 | 7,620,894 | 3.21 | 71.65 |
| 3. B.B.#3 | 375 | 194,125 | 69.6 | 71.1 | 0.1 | 10,616 | COAL | 88,829 | 23,199,968 | 2,060,830.0 | 6,364,406 | 3.28 | 71.65 |
| 4. B.B.#4 | 432 | 75,322 | 23.4 | 24.6 | 0.1 | 10,658 | COAL | 36,491 | 22,000,110 | 802,806.0 | 2,663,218 | 3.54 | 72.98 |
| B.B. IGNITION | - | - | - | - | - | - | LGT OIL | 7,996 | - | - | 696,657 | - | 87.13 |
| **5. B.B. STATION** | **1,577** | **737,415** | **62.9** | **64.0** | **0.1** | **10,614** | | **-** | **-** | **7,827,186.0** | **24,793,254** | **3.36** | **-** |
| 6. SEB-PHILLIPS #1 (HVY OIL) | 18 | 11 | 0.1 | 82.9 | 0.1 | 9,571 | HVY OIL | 17 | 6,193,277 | 105.3 | 1,482 | 13.48 | 87.20 |
| 7. SEB-PHILLIPS #2 (HVY OIL) | 18 | 10 | 0.1 | 81.3 | 0.1 | 20,100 | HVY OIL | 15 | 13,400,000 | 201.0 | 1,309 | 13.09 | 87.24 |
| SEB-PHILLIPS IGNITION | - | - | - | - | - | - | LGT OIL | 0 | - | - | 0 | - | 0.00 |
| **8. SEB-PHILLIPS TOTAL** | **35** | **21** | **0.1** | **82.1** | **0.1** | **14,585** | | **-** | **-** | **306.3** | **2,791** | **13.29** | **-** |
| 9. POLK #1 GASIFIER | 235 | 130,531 | 74.7 | - | - | 10,502 | COAL | 52,195 | 26,264,891 | 1,370,896.0 | 3,647,931 | 2.79 | 69.89 |
| 10. POLK #1 CT OIL | 215 | 4,037 | 2.5 | - | - | 10,477 | LGT OIL | 7,297 | 5,796,218 | 42,295.0 | 631,262 | 15.64 | 86.51 |
| **11. POLK #1 TOTAL** | **235** | **134,568** | **77.0** | **77.7** | **0.1** | **10,502** | | **-** | **-** | **1,413,191.0** | **4,279,193** | **3.18** | **-** |
| 12. POLK #2 CT GAS | 151 | 895 | 0.8 | - | - | 12,055 | GAS | 10,500 | 1,027,524 | 10,789.0 | 78,931 | 8.82 | 7.52 |
| 13. POLK #2 CT OIL | 158 | 28 | 0.0 | - | - | 11,357 | LGT OIL | 55 | 5,781,818 | 318.0 | 4,758 | 16.99 | 86.51 |
| **14. POLK #2 TOTAL** | **158** | **923** | **0.8** | **98.9** | **0.1** | **12,034** | | **-** | **-** | **11,107.0** | **83,689** | **9.07** | **-** |
| 15. POLK #3 CT GAS | 151 | 369 | 0.3 | - | - | 12,913 | GAS | 4,600 | 1,035,870 | 4,765.0 | 34,579 | 9.37 | 7.52 |
| 16. POLK #3 CT OIL | 158 | 11 | 0.0 | - | - | 12,000 | LGT OIL | 23 | 5,739,130 | 132.0 | 1,990 | 18.09 | 86.52 |
| **17. POLK #3 TOTAL** | **158** | **380** | **0.3** | **98.9** | **0.1** | **12,887** | | **-** | **-** | **4,897.0** | **36,569** | **9.62** | **-** |
| **18. POLK #4 CT GAS** | **151** | **6,708** | **6.0** | **99.4** | **0.1** | **11,831** | **GAS** | **77,200** | **1,028,018** | **79,363.0** | **580,333** | **8.65** | **7.52** |
| **19. POLK #5 CT GAS** | **151** | **2,023** | **1.8** | **99.4** | **0.1** | **11,682** | **GAS** | **23,000** | **1,027,522** | **23,633.0** | **172,897** | **8.55** | **7.52** |
| **20. CITY OF TAMPA GAS** | **6** | **672** | **15.1** | **100.0** | **0.1** | **10,452** | **GAS** | **7,000** | **1,003,429** | **7,024.0** | **55,225** | **8.22** | **7.89** |
| 21. BAYSIDE #1 | 701 | 401,817 | 77.0 | 95.6 | 0.1 | 7,296 | GAS | 2,851,900 | 1,027,985 | 2,931,710.0 | 21,438,479 | 5.34 | 7.52 |
| 22. BAYSIDE #2 | 929 | 423,044 | 61.2 | 96.7 | 0.1 | 7,406 | GAS | 3,047,800 | 1,027,987 | 3,133,100.0 | 22,911,111 | 5.42 | 7.52 |
| 23. BAYSIDE #3 | 56 | 5,279 | 12.7 | 99.5 | 0.1 | 10,996 | GAS | 56,400 | 1,029,202 | 58,047.0 | 423,974 | 8.03 | 7.52 |
| 24. BAYSIDE #4 | 56 | 4,271 | 10.3 | 99.5 | 0.1 | 10,848 | GAS | 45,100 | 1,027,273 | 46,330.0 | 339,029 | 7.94 | 7.52 |
| 25. BAYSIDE #5 | 56 | 3,792 | 9.1 | 99.5 | 0.1 | 10,839 | GAS | 40,000 | 1,027,575 | 41,103.0 | 300,690 | 7.93 | 7.52 |
| 26. BAYSIDE #6 | 56 | 3,368 | 8.1 | 99.5 | 0.1 | 10,845 | GAS | 35,500 | 1,028,930 | 36,527.0 | 266,863 | 7.92 | 7.52 |
| **27. BAYSIDE TOTAL** | **1,854** | **841,571** | **61.0** | **96.6** | **0.1** | **7,423** | **GAS** | **6,076,700** | **1,027,995** | **6,246,817.0** | **45,680,146** | **5.43** | **7.52** |
| 28. B.B.C.T.#4 OIL | 56 | 262 | 0.6 | 0.0 | - | 10,790 | LGT OIL | 488 | 5,793,033 | 2,827.0 | 42,788 | 16.33 | 87.68 |
| 29. B.B.C.T.#4 GAS | 56 | 2,356 | 5.7 | 0.0 | - | 10,828 | GAS | 24,800 | 1,028,629 | 25,510.0 | 186,428 | 7.91 | 7.52 |
| **30. B.B.C.T.#4 TOTAL** | **56** | **2,618** | **6.3** | **99.5** | **0.1** | **10,824** | | **-** | **-** | **28,337.0** | **229,216** | **8.76** | **-** |
| **31. TOT COAL (BB,POLK)** | **1,812** | **867,946** | **64.4** | **55.7** | **0.1** | **10,598** | **COAL** | **387,835** | **23,716,483** | **9,198,082.0** | **28,441,185** | **3.28** | **73.33** |
| **32. SYSTEM** | **4,381** | **1,726,899** | **53.0** | **82.9** | **0.1** | **9,058** | **-** | **-** | **-** | **15,641,861.3** | **75,913,313** | **4.40** | **-** |

LEGEND:
B.B. = BIG BEND
SEB-PHIL = SEBRING-PHILLIPS
C.T. = COMBUSTION TURBINE

SCHEDULE E4

**TAMPA ELECTRIC COMPANY**
**SYSTEM NET GENERATION AND FUEL COST**
**ESTIMATED FOR THE PERIOD: JUNE 2010**

| (A) PLANT/UNIT | (B) NET CAPA-BILITY (MW) | (C) NET GENERATION (MWH) | (D) NET CAPACITY FACTOR (%) | (E) EQUIV. AVAIL. FACTOR (%) | (F) NET OUTPUT FACTOR (%) | (G) AVG. NET HEAT RATE (BTU/KWH) | (H) FUEL TYPE | (I) FUEL BURNED (UNITS) | (J) FUEL HEAT VALUE (BTU/UNIT) | (K) FUEL BURNED (MM BTU) | (L) AS BURNED FUEL COST ($) | (M) FUEL COST PER KWH (cents/KWH) | (N) COST OF FUEL ($/UNIT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. B.B.#1 | 385 | 223,247 | 80.5 | 81.7 | 0.1 | 10,652 | COAL | 100,759 | 23,600,075 | 2,377,920.0 | 7,381,496 | 3.31 | 73.26 |
| 2. B.B.#2 | 385 | 229,492 | 82.8 | 83.6 | 0.1 | 10,618 | COAL | 103,256 | 23,600,081 | 2,436,850.0 | 7,564,423 | 3.30 | 73.26 |
| 3. B.B.#3 | 375 | 187,691 | 69.5 | 71.1 | 0.1 | 10,666 | COAL | 86,289 | 23,199,828 | 2,001,890.0 | 6,321,439 | 3.37 | 73.26 |
| 4. B.B.#4 | 432 | 225,627 | 72.5 | 76.4 | 0.1 | 10,750 | COAL | 110,253 | 22,000,036 | 2,425,570.0 | 8,125,735 | 3.60 | 73.70 |
| B.B. IGNITION | - | - | - | - | - | - | LGT OIL | 9,773 | - | - | 858,090 | - | 87.80 |
| **5. B.B. STATION** | **1,577** | **866,057** | **76.3** | **78.2** | **0.1** | **10,672** | | **-** | **-** | **9,242,230.0** | **30,251,183** | **3.49** | **-** |
| 6. SEB-PHILLIPS #1 (HVY OIL) | 18 | 222 | 1.8 | 82.9 | 0.1 | 9,786 | HVY OIL | 346 | 6,278,800 | 2,172.5 | 24,760 | 11.15 | 71.56 |
| 7. SEB-PHILLIPS #2 (HVY OIL) | 18 | 217 | 1.7 | 81.3 | 0.1 | 19,797 | HVY OIL | 339 | 12,672,566 | 4,296.0 | 24,258 | 11.18 | 71.56 |
| SEB-PHILLIPS IGNITION | - | - | - | - | - | - | LGT OIL | 13 | - | - | 1,012 | - | 77.85 |
| **8. SEB-PHILLIPS TOTAL** | **35** | **439** | **1.7** | **82.1** | **0.1** | **14,735** | | **-** | **-** | **6,468.5** | **50,030** | **11.40** | **-** |
| 9. POLK #1 GASIFIER | 235 | 126,320 | 74.7 | - | - | 10,503 | COAL | 50,511 | 26,267,269 | 1,326,786.0 | 3,635,860 | 2.88 | 71.98 |
| 10. POLK #1 CT OIL | 215 | 3,907 | 2.5 | - | - | 10,476 | LGT OIL | 7,062 | 5,795,809 | 40,930.0 | 613,353 | 15.70 | 86.85 |
| **11. POLK #1 TOTAL** | **235** | **130,227** | **77.0** | **77.7** | **0.1** | **10,503** | | **-** | **-** | **1,367,716.0** | **4,249,213** | **3.26** | **-** |
| 12. POLK #2 CT GAS | 151 | 5,284 | 4.9 | - | - | 11,527 | GAS | 59,200 | 1,028,834 | 60,907.0 | 453,005 | 8.57 | 7.65 |
| 13. POLK #2 CT OIL | 158 | 163 | 0.1 | - | - | 11,460 | LGT OIL | 322 | 5,801,242 | 1,868.0 | 27,967 | 17.16 | 86.85 |
| **14. POLK #2 TOTAL** | **158** | **5,447** | **4.8** | **98.9** | **0.1** | **11,525** | | **-** | **-** | **62,775.0** | **480,972** | **8.83** | **-** |
| 15. POLK #3 CT GAS | 151 | 929 | 0.9 | - | - | 12,222 | GAS | 11,000 | 1,032,182 | 11,354.0 | 84,173 | 9.06 | 7.65 |
| 16. POLK #3 CT OIL | 158 | 29 | 0.0 | - | - | 11,586 | LGT OIL | 58 | 5,793,103 | 336.0 | 5,037 | 17.37 | 86.84 |
| **17. POLK #3 TOTAL** | **158** | **958** | **0.8** | **98.9** | **0.1** | **12,203** | | **-** | **-** | **11,690.0** | **89,210** | **9.31** | **-** |
| **18. POLK #4 CT GAS** | **151** | **4,449** | **4.1** | **99.4** | **0.1** | **12,266** | **GAS** | **53,100** | **1,027,684** | **54,570.0** | **406,327** | **9.13** | **7.65** |
| **19. POLK #5 CT GAS** | **151** | **6,256** | **5.8** | **99.4** | **0.1** | **12,480** | **GAS** | **75,900** | **1,028,656** | **78,075.0** | **580,795** | **9.28** | **7.65** |
| **20. CITY OF TAMPA GAS** | **6** | **1,117** | **25.9** | **100.0** | **0.1** | **10,456** | **GAS** | **11,700** | **998,205** | **11,679.0** | **93,710** | **8.39** | **8.01** |
| 21. BAYSIDE #1 | 701 | 379,082 | 75.1 | 95.6 | 0.1 | 7,298 | GAS | 2,691,100 | 1,028,018 | 2,766,500.0 | 20,592,585 | 5.43 | 7.65 |
| 22. BAYSIDE #2 | 929 | 409,584 | 61.2 | 96.7 | 0.1 | 7,405 | GAS | 2,950,400 | 1,027,983 | 3,032,960.0 | 22,576,776 | 5.51 | 7.65 |
| 23. BAYSIDE #3 | 56 | 6,519 | 16.2 | 99.5 | 0.1 | 10,943 | GAS | 69,400 | 1,027,954 | 71,340.0 | 531,056 | 8.15 | 7.65 |
| 24. BAYSIDE #4 | 56 | 3,934 | 9.8 | 99.5 | 0.1 | 10,873 | GAS | 41,600 | 1,028,197 | 42,773.0 | 318,328 | 8.09 | 7.65 |
| 25. BAYSIDE #5 | 56 | 3,478 | 8.6 | 99.5 | 0.1 | 10,866 | GAS | 36,700 | 1,029,782 | 37,793.0 | 280,832 | 8.07 | 7.65 |
| 26. BAYSIDE #6 | 56 | 3,038 | 7.5 | 99.5 | 0.1 | 10,858 | GAS | 32,100 | 1,027,664 | 32,988.0 | 245,633 | 8.09 | 7.65 |
| **27. BAYSIDE TOTAL** | **1,854** | **805,635** | **60.4** | **96.6** | **0.1** | **7,428** | **GAS** | **5,821,300** | **1,028,010** | **5,984,354.0** | **44,545,210** | **5.53** | **7.65** |
| 28. B.B.C.T.#4 OIL | 56 | 161 | 0.4 | 0.0 | - | 10,814 | LGT OIL | 300 | 5,803,333 | 1,741.0 | 26,341 | 16.36 | 87.80 |
| 29. B.B.C.T.#4 GAS | 56 | 1,448 | 3.6 | 0.0 | - | 10,865 | GAS | 15,300 | 1,028,235 | 15,732.0 | 117,077 | 8.09 | 7.65 |
| **30. B.B.C.T.#4 TOTAL** | **56** | **1,609** | **4.0** | **99.5** | **0.1** | **10,860** | | **-** | **-** | **17,473.0** | **143,418** | **8.91** | **-** |
| **31. TOT COAL (BB,POLK)** | **1,812** | **992,377** | **76.1** | **68.0** | **0.1** | **10,650** | **COAL** | **451,068** | **23,431,092** | **10,569,016.0** | **33,887,043** | **3.41** | **75.13** |
| **32. SYSTEM** | **4,381** | **1,822,194** | **57.8** | **88.0** | **0.1** | **9,240** | **-** | **-** | **-** | **16,837,030.5** | **80,890,068** | **4.44** | **-** |

LEGEND:
B.B. = BIG BEND SEB-PHIL = SEBRING-PHILLIPS
C.T. = COMBUSTION TURBINE

37

**TAMPA ELECTRIC COMPANY**
**SYSTEM NET GENERATION AND FUEL COST**
**ESTIMATED FOR THE PERIOD: JULY 2010**

| (A) PLANT/UNIT | (B) NET CAPA-BILITY (MW) | (C) NET GENERATION (MWH) | (D) NET CAPACITY FACTOR (%) | (E) EQUIV. AVAIL. FACTOR (%) | (F) NET OUTPUT FACTOR (%) | (G) AVG. NET HEAT RATE (BTU/KWH) | (H) FUEL TYPE | (I) FUEL BURNED (UNITS) | (J) FUEL HEAT VALUE (BTU/UNIT) | (K) FUEL BURNED (MM BTU) | (L) AS BURNED FUEL COST ($) | (M) FUEL COST PER KWH (cents/KWH) | (N) COST OF FUEL ($/UNIT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. B.B.#1 | 385 | 230,747 | 80.6 | 81.7 | 0.1 | 10,739 | COAL | 104,998 | 23,600,069 | 2,477,960.0 | 7,842,820 | 3.40 | 74.69 |
| 2. B.B.#2 | 385 | 237,142 | 82.8 | 83.6 | 0.1 | 10,669 | COAL | 107,211 | 23,600,004 | 2,530,180.0 | 8,008,120 | 3.38 | 74.69 |
| 3. B.B.#3 | 375 | 194,079 | 69.6 | 71.1 | 0.1 | 10,750 | COAL | 89,927 | 23,200,040 | 2,086,310.0 | 6,717,093 | 3.46 | 74.69 |
| 4. B.B.#4 | 432 | 233,276 | 72.6 | 76.4 | 0.1 | 10,815 | COAL | 114,672 | 22,000,052 | 2,522,790.0 | 8,614,137 | 3.69 | 75.12 |
| B.B. IGNITION | - | - | - | - | - | - | LGT OIL | 9,773 | - | - | 865,506 | - | 88.56 |
| **5. B.B. STATION** | **1,577** | **895,244** | **76.3** | **78.2** | **0.1** | **10,743** | | - | - | **9,617,240.0** | **32,047,676** | **3.58** | - |
| 6. SEB-PHILLIPS #1 (HVY OIL) | 18 | 225 | 1.7 | 82.9 | 0.1 | 9,769 | HVY OIL | 350 | 6,279,775 | 2,197.9 | 25,064 | 11.14 | 71.61 |
| 7. SEB-PHILLIPS #2 (HVY OIL) | 18 | 220 | 1.7 | 81.3 | 0.1 | 19,759 | HVY OIL | 342 | 12,710,526 | 4,347.0 | 24,490 | 11.13 | 71.61 |
| SEB-PHILLIPS IGNITION | - | - | - | - | - | - | LGT OIL | 13 | - | - | 1,016 | - | 78.15 |
| **8. SEB-PHILLIPS TOTAL** | **35** | **445** | **1.7** | **82.1** | **0.1** | **14,708** | | - | - | **6,544.9** | **50,570** | **11.36** | - |
| 9. POLK #1 GASIFIER | 235 | 130,531 | 74.7 | - | - | 10,502 | COAL | 52,195 | 26,264,891 | 1,370,896.0 | 3,795,212 | 2.91 | 72.71 |
| 10. POLK #1 CT OIL | 215 | 4,037 | 2.5 | - | - | 10,477 | LGT OIL | 7,297 | 5,796,218 | 42,295.0 | 637,032 | 15.78 | 87.30 |
| **11. POLK #1 TOTAL** | **235** | **134,568** | **77.0** | **77.7** | **0.1** | **10,502** | | - | - | **1,413,191.0** | **4,432,244** | **3.29** | - |
| 12. POLK #2 CT GAS | 151 | 5,648 | 5.0 | - | - | 11,557 | GAS | 63,500 | 1,027,921 | 65,273.0 | 493,538 | 8.74 | 7.77 |
| 13. POLK #2 CT OIL | 158 | 175 | 0.1 | - | - | 11,446 | LGT OIL | 346 | 5,789,017 | 2,003.0 | 30,206 | 17.26 | 87.30 |
| **14. POLK #2 TOTAL** | **158** | **5,823** | **5.0** | **98.9** | **0.1** | **11,553** | | - | - | **67,276.0** | **523,744** | **8.99** | - |
| 15. POLK #3 CT GAS | 151 | 4,345 | 3.9 | - | - | 12,593 | GAS | 53,200 | 1,028,534 | 54,718.0 | 413,484 | 9.52 | 7.77 |
| 16. POLK #3 CT OIL | 158 | 134 | 0.1 | - | - | 11,821 | LGT OIL | 273 | 5,802,198 | 1,584.0 | 23,833 | 17.79 | 87.30 |
| **17. POLK #3 TOTAL** | **158** | **4,479** | **3.8** | **98.9** | **0.1** | **12,570** | | - | - | **56,302.0** | **437,317** | **9.76** | - |
| **18. POLK #4 CT GAS** | **151** | **5,857** | **5.2** | **99.4** | **0.1** | **12,663** | **GAS** | **72,100** | **1,028,682** | **74,168.0** | **560,380** | **9.57** | **7.77** |
| **19. POLK #5 CT GAS** | **151** | **13,820** | **12.3** | **99.4** | **0.1** | **12,126** | **GAS** | **163,000** | **1,028,135** | **167,586.0** | **1,266,877** | **9.17** | **7.77** |
| **20. CITY OF TAMPA GAS** | **6** | **1,336** | **29.9** | **100.0** | **0.1** | **10,454** | **GAS** | **14,000** | **997,643** | **13,967.0** | **114,049** | **8.54** | **8.15** |
| 21. BAYSIDE #1 | 701 | 407,606 | 78.2 | 95.6 | 0.1 | 7,293 | GAS | 2,891,700 | 1,027,977 | 2,972,600.0 | 22,475,027 | 5.51 | 7.77 |
| 22. BAYSIDE #2 | 929 | 448,746 | 64.9 | 96.7 | 0.1 | 7,402 | GAS | 3,231,300 | 1,027,992 | 3,321,750.0 | 25,114,484 | 5.60 | 7.77 |
| 23. BAYSIDE #3 | 56 | 9,595 | 23.0 | 99.5 | 0.1 | 10,898 | GAS | 101,700 | 1,028,142 | 104,562.0 | 790,438 | 8.24 | 7.77 |
| 24. BAYSIDE #4 | 56 | 8,758 | 21.0 | 99.5 | 0.1 | 10,909 | GAS | 92,900 | 1,028,471 | 95,545.0 | 722,042 | 8.24 | 7.77 |
| 25. BAYSIDE #5 | 56 | 4,327 | 10.4 | 99.5 | 0.1 | 10,846 | GAS | 45,600 | 1,029,145 | 46,929.0 | 354,415 | 8.19 | 7.77 |
| 26. BAYSIDE #6 | 56 | 3,850 | 9.2 | 99.5 | 0.1 | 10,857 | GAS | 40,600 | 1,029,557 | 41,800.0 | 315,554 | 8.20 | 7.77 |
| **27. BAYSIDE TOTAL** | **1,854** | **882,882** | **64.0** | **96.6** | **0.1** | **7,456** | **GAS** | **6,403,800** | **1,028,012** | **6,583,186.0** | **49,771,960** | **5.64** | **7.77** |
| 28. B.B.C.T.#4 OIL | 56 | 164 | 0.4 | 0.0 | - | 10,829 | LGT OIL | 306 | 5,803,922 | 1,776.0 | 27,371 | 16.69 | 89.45 |
| 29. B.B.C.T.#4 GAS | 56 | 1,476 | 3.5 | 0.0 | - | 10,871 | GAS | 15,600 | 1,028,526 | 16,045.0 | 121,247 | 8.21 | 7.77 |
| **30. B.B.C.T.#4 TOTAL** | **56** | **1,640** | **3.9** | **99.5** | **0.1** | **10,866** | | - | - | **17,821.0** | **148,618** | **9.06** | - |
| **31. TOT COAL (BB,POLK)** | **1,812** | **1,025,775** | **76.1** | **68.0** | **0.1** | **10,712** | **COAL** | **469,003** | **23,428,712** | **10,988,136.0** | **35,842,888** | **3.49** | **76.42** |
| **32. SYSTEM** | **4,381** | **1,946,094** | **59.7** | **88.0** | **0.1** | **9,258** | - | - | - | **18,017,281.9** | **89,353,435** | **4.59** | - |

LEGEND:
B.B. = BIG BEND
C.T. = COMBUSTION TURBINE
SEB-PHIL = SEBRING-PHILLIPS

**TAMPA ELECTRIC COMPANY**
**SYSTEM NET GENERATION AND FUEL COST**
**ESTIMATED FOR THE PERIOD: AUGUST 2010**

| (A) PLANT/UNIT | (B) NET CAPA-BILITY (MW) | (C) NET GENERATION (MWH) | (D) NET CAPACITY FACTOR (%) | (E) EQUIV. AVAIL. FACTOR (%) | (F) NET OUTPUT FACTOR (%) | (G) AVG. NET HEAT RATE (BTU/KWH) | (H) FUEL TYPE | (I) FUEL BURNED (UNITS) | (J) FUEL HEAT VALUE (BTU/UNIT) | (K) FUEL BURNED (MM BTU) | (L) AS BURNED FUEL COST ($) | (M) FUEL COST PER KWH (cents/KWH) | (N) COST OF FUEL ($/UNIT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. B.B.#1 | 385 | 230,849 | 80.6 | 81.7 | 0.1 | 10,739 | COAL | 105,045 | 23,599,981 | 2,479,060.0 | 7,928,845 | 3.43 | 75.48 |
| 2. B.B.#2 | 385 | 237,142 | 82.8 | 83.6 | 0.1 | 10,669 | COAL | 107,211 | 23,600,004 | 2,530,180.0 | 8,092,336 | 3.41 | 75.48 |
| 3. B.B.#3 | 375 | 194,116 | 69.6 | 71.1 | 0.1 | 10,750 | COAL | 89,944 | 23,199,880 | 2,086,690.0 | 6,789,015 | 3.50 | 75.48 |
| 4. B.B.#4 | 432 | 233,453 | 72.6 | 76.4 | 0.1 | 10,815 | COAL | 114,760 | 21,999,913 | 2,524,710.0 | 8,766,856 | 3.76 | 76.39 |
| B.B. IGNITION | - | - | - | - | - | - | LGT OIL | 9,773 | - | - | 873,598 | - | 89.39 |
| **5. B.B. STATION** | **1,577** | **895,560** | **76.3** | **78.2** | **0.1** | **10,743** | | **-** | **-** | **9,620,640.0** | **32,450,650** | **3.62** | **-** |
| 6. SEB-PHILLIPS #1 (HVY OIL) | 18 | 262 | 2.0 | 82.9 | 0.1 | 9,788 | HVY OIL | 408 | 6,285,203 | 2,564.4 | 29,162 | 11.13 | 71.48 |
| 7. SEB-PHILLIPS #2 (HVY OIL) | 18 | 256 | 2.0 | 81.3 | 0.1 | 19,805 | HVY OIL | 399 | 12,706,767 | 5,070.0 | 28,518 | 11.14 | 71.47 |
| SEB-PHILLIPS IGNITION | - | - | - | - | - | - | LGT OIL | 17 | - | - | 1,334 | - | 78.47 |
| **8. SEB-PHILLIPS TOTAL** | **35** | **518** | **2.0** | **82.1** | **0.1** | **14,738** | | **-** | **-** | **7,634.4** | **59,014** | **11.39** | **-** |
| 9. POLK #1 GASIFIER | 235 | 130,531 | 74.7 | - | - | 10,502 | COAL | 52,195 | 26,264,891 | 1,370,896.0 | 3,917,857 | 3.00 | 75.06 |
| 10. POLK #1 CT OIL | 215 | 4,037 | 2.5 | - | - | 10,477 | LGT OIL | 7,297 | 5,796,218 | 42,295.0 | 640,815 | 15.87 | 87.82 |
| **11. POLK #1 TOTAL** | **235** | **134,568** | **77.0** | **77.7** | **0.1** | **10,502** | | **-** | **-** | **1,413,191.0** | **4,558,672** | **3.39** | **-** |
| 12. POLK #2 CT GAS | 151 | 6,238 | 5.6 | - | - | 11,529 | GAS | 69,900 | 1,028,827 | 71,915.0 | 532,269 | 8.53 | 7.61 |
| 13. POLK #2 CT OIL | 158 | 193 | 0.2 | - | - | 11,446 | LGT OIL | 381 | 5,797,900 | 2,209.0 | 33,459 | 17.34 | 87.82 |
| **14. POLK #2 TOTAL** | **158** | **6,431** | **5.5** | **98.9** | **0.1** | **11,526** | | **-** | **-** | **74,124.0** | **565,728** | **8.80** | **-** |
| 15. POLK #3 CT GAS | 151 | 1,780 | 1.6 | - | - | 12,211 | GAS | 21,200 | 1,025,283 | 21,736.0 | 161,432 | 9.07 | 7.61 |
| 16. POLK #3 CT OIL | 158 | 55 | 0.0 | - | - | 11,655 | LGT OIL | 111 | 5,774,775 | 641.0 | 9,748 | 17.72 | 87.82 |
| **17. POLK #3 TOTAL** | **158** | **1,835** | **1.6** | **98.9** | **0.1** | **12,195** | | **-** | **-** | **22,377.0** | **171,180** | **9.33** | **-** |
| **18. POLK #4 CT GAS** | **151** | **5,059** | **4.5** | **99.4** | **0.1** | **12,228** | **GAS** | **60,100** | **1,029,268** | **61,859.0** | **457,645** | **9.05** | **7.61** |
| **19. POLK #5 CT GAS** | **151** | **13,024** | **11.6** | **99.4** | **0.1** | **11,965** | **GAS** | **151,600** | **1,027,876** | **155,826.0** | **1,154,392** | **8.86** | **7.61** |
| **20. CITY OF TAMPA GAS** | **6** | **1,433** | **32.1** | **100.0** | **0.1** | **10,455** | **GAS** | **15,000** | **998,800** | **14,982.0** | **123,725** | **8.63** | **8.25** |
| 21. BAYSIDE #1 | 701 | 420,191 | 80.6 | 95.6 | 0.1 | 7,285 | GAS | 2,977,500 | 1,028,027 | 3,060,950.0 | 22,672,842 | 5.40 | 7.61 |
| 22. BAYSIDE #2 | 929 | 468,780 | 67.8 | 96.7 | 0.1 | 7,400 | GAS | 3,374,600 | 1,028,006 | 3,469,110.0 | 25,696,649 | 5.48 | 7.61 |
| 23. BAYSIDE #3 | 56 | 10,089 | 24.2 | 99.5 | 0.1 | 10,898 | GAS | 106,900 | 1,028,522 | 109,949.0 | 814,014 | 8.07 | 7.61 |
| 24. BAYSIDE #4 | 56 | 9,106 | 21.9 | 99.5 | 0.1 | 10,910 | GAS | 96,700 | 1,027,404 | 99,350.0 | 736,344 | 8.09 | 7.61 |
| 25. BAYSIDE #5 | 56 | 7,264 | 17.4 | 99.5 | 0.1 | 10,928 | GAS | 77,200 | 1,028,238 | 79,380.0 | 587,857 | 8.09 | 7.61 |
| 26. BAYSIDE #6 | 56 | 5,706 | 13.7 | 99.5 | 0.1 | 11,185 | GAS | 62,100 | 1,027,729 | 63,822.0 | 472,874 | 8.29 | 7.61 |
| **27. BAYSIDE TOTAL** | **1,854** | **921,136** | **66.8** | **96.6** | **0.1** | **7,472** | **GAS** | **6,695,000** | **1,028,015** | **6,882,561.0** | **50,980,580** | **5.53** | **7.61** |
| 28. B.B.C.T.#4 OIL | 56 | 184 | 0.4 | 0.0 | - | 10,821 | LGT OIL | 344 | 5,787,791 | 1,991.0 | 30,750 | 16.71 | 89.39 |
| 29. B.B.C.T.#4 GAS | 56 | 1,656 | 4.0 | 0.0 | - | 10,862 | GAS | 17,500 | 1,027,886 | 17,988.0 | 133,258 | 8.05 | 7.61 |
| **30. B.B.C.T.#4 TOTAL** | **56** | **1,840** | **4.4** | **99.5** | **0.1** | **10,858** | | **-** | **-** | **19,979.0** | **164,008** | **8.91** | **-** |
| **31. TOT COAL (BB,POLK)** | **1,812** | **1,026,091** | **76.1** | **68.0** | **0.1** | **10,712** | **COAL** | **469,155** | **23,428,368** | **10,991,536.0** | **36,368,507** | **3.54** | **77.52** |
| **32. SYSTEM** | **4,381** | **1,981,404** | **60.8** | **88.0** | **0.1** | **9,222** | **-** | **-** | **-** | **18,273,173.4** | **90,685,594** | **4.58** | **-** |

LEGEND:
B.B. = BIG BEND
SEB-PHIL = SEBRING-PHILLIPS
C.T. = COMBUSTION TURBINE

**39**

SCHEDULE E4

**TAMPA ELECTRIC COMPANY**
**SYSTEM NET GENERATION AND FUEL COST**
**ESTIMATED FOR THE PERIOD: SEPTEMBER 2010**

| (A) PLANT/UNIT | (B) NET CAPA-BILITY (MW) | (C) NET GENERATION (MWH) | (D) NET CAPACITY FACTOR (%) | (E) EQUIV. AVAIL. FACTOR (%) | (F) NET OUTPUT FACTOR (%) | (G) AVG. NET HEAT RATE (BTU/KWH) | (H) FUEL TYPE | (I) FUEL BURNED (UNITS) | (J) FUEL HEAT VALUE (BTU/UNIT) | (K) FUEL BURNED (MM BTU) | (L) AS BURNED FUEL COST ($) | (M) FUEL COST PER KWH (cents/KWH) | (N) COST OF FUEL ($/UNIT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. B.B.#1 | 385 | 223,417 | 80.6 | 81.7 | 0.1 | 10,651 | COAL | 100,836 | 23,599,905 | 2,379,720.0 | 7,643,551 | 3.42 | 75.80 |
| 2. B.B.#2 | 385 | 229,492 | 82.8 | 83.6 | 0.1 | 10,618 | COAL | 103,256 | 23,600,081 | 2,436,850.0 | 7,826,992 | 3.41 | 75.80 |
| 3. B.B.#3 | 375 | 188,004 | 69.6 | 71.1 | 0.1 | 10,665 | COAL | 86,425 | 23,200,000 | 2,005,060.0 | 6,551,171 | 3.48 | 75.80 |
| 4. B.B.#4 | 432 | 225,859 | 72.6 | 76.4 | 0.1 | 10,750 | COAL | 110,366 | 22,000,072 | 2,428,060.0 | 8,414,661 | 3.73 | 76.24 |
| B.B. IGNITION | - | - | - | - | - | - | LGT OIL | 9,773 | - | - | 882,301 | - | 90.28 |
| **5. B.B. STATION** | **1,577** | **866,772** | **76.3** | **78.2** | **0.1** | **10,671** | | **-** | **-** | **9,249,690.0** | **31,318,676** | **3.61** | **-** |
| 6. SEB-PHILLIPS #1 (HVY OIL) | 18 | 37 | 0.3 | 82.9 | 0.1 | 9,792 | HVY OIL | 58 | 6,246,408 | 362.3 | 4,330 | 11.70 | 74.65 |
| 7. SEB-PHILLIPS #2 (HVY OIL) | 18 | 35 | 0.3 | 81.3 | 0.1 | 20,143 | HVY OIL | 55 | 12,818,182 | 705.0 | 4,106 | 11.73 | 74.65 |
| SEB-PHILLIPS IGNITION | - | - | - | - | - | - | LGT OIL | 9 | - | - | 708 | - | 78.67 |
| **8. SEB-PHILLIPS TOTAL** | **35** | **72** | **0.3** | **82.1** | **0.1** | **14,823** | | **-** | **-** | **1,067.3** | **9,144** | **12.70** | **-** |
| 9. POLK #1 GASIFIER | 235 | 126,320 | 74.7 | - | - | 10,503 | COAL | 50,511 | 26,267,269 | 1,326,786.0 | 3,802,260 | 3.01 | 75.28 |
| 10. POLK #1 CT OIL | 215 | 3,907 | 2.5 | - | - | 10,476 | LGT OIL | 7,062 | 5,795,809 | 40,930.0 | 624,243 | 15.98 | 88.39 |
| **11. POLK #1 TOTAL** | **235** | **130,227** | **77.0** | **77.7** | **0.1** | **10,503** | | **-** | **-** | **1,367,716.0** | **4,426,503** | **3.40** | **-** |
| 12. POLK #2 CT GAS | 151 | 7,287 | 6.7 | - | - | 11,428 | GAS | 81,000 | 1,028,136 | 83,279.0 | 625,628 | 8.59 | 7.72 |
| 13. POLK #2 CT OIL | 158 | 225 | 0.2 | - | - | 11,378 | LGT OIL | 442 | 5,791,855 | 2,560.0 | 39,071 | 17.36 | 88.40 |
| **14. POLK #2 TOTAL** | **158** | **7,512** | **6.6** | **98.9** | **0.1** | **11,427** | | **-** | **-** | **85,839.0** | **664,699** | **8.85** | **-** |
| 15. POLK #3 CT GAS | 151 | 629 | 0.6 | - | - | 12,515 | GAS | 7,600 | 1,035,789 | 7,872.0 | 58,701 | 9.33 | 7.72 |
| 16. POLK #3 CT OIL | 158 | 19 | 0.0 | - | - | 12,000 | LGT OIL | 39 | 5,846,154 | 228.0 | 3,447 | 18.14 | 88.38 |
| **17. POLK #3 TOTAL** | **158** | **648** | **0.6** | **98.9** | **0.1** | **12,500** | | **-** | **-** | **8,100.0** | **62,148** | **9.59** | **-** |
| **18. POLK #4 CT GAS** | **151** | **1,357** | **1.3** | **99.4** | **0.1** | **12,037** | **GAS** | **15,900** | **1,027,296** | **16,334.0** | **122,808** | **9.05** | **7.72** |
| **19. POLK #5 CT GAS** | **151** | **5,584** | **5.1** | **99.4** | **0.1** | **12,116** | **GAS** | **65,800** | **1,028,207** | **67,656.0** | **508,226** | **9.10** | **7.72** |
| **20. CITY OF TAMPA GAS** | **6** | **767** | **17.8** | **100.0** | **0.1** | **10,458** | **GAS** | **8,000** | **1,002,625** | **8,021.0** | **66,413** | **8.66** | **8.30** |
| 21. BAYSIDE #1 | 701 | 386,020 | 76.5 | 95.6 | 0.1 | 7,295 | GAS | 2,739,300 | 1,028,004 | 2,816,010.0 | 21,157,804 | 5.48 | 7.72 |
| 22. BAYSIDE #2 | 929 | 411,334 | 61.5 | 96.7 | 0.1 | 7,401 | GAS | 2,961,300 | 1,028,008 | 3,044,240.0 | 22,872,488 | 5.56 | 7.72 |
| 23. BAYSIDE #3 | 56 | 6,943 | 17.2 | 99.5 | 0.1 | 10,916 | GAS | 73,800 | 1,026,938 | 75,788.0 | 570,016 | 8.21 | 7.72 |
| 24. BAYSIDE #4 | 56 | 6,189 | 15.3 | 99.5 | 0.1 | 10,907 | GAS | 65,600 | 1,029,055 | 67,506.0 | 506,681 | 8.19 | 7.72 |
| 25. BAYSIDE #5 | 56 | 4,605 | 11.4 | 99.5 | 0.1 | 10,858 | GAS | 48,600 | 1,028,786 | 49,999.0 | 375,377 | 8.15 | 7.72 |
| 26. BAYSIDE #6 | 56 | 4,100 | 10.2 | 99.5 | 0.1 | 10,852 | GAS | 43,300 | 1,027,552 | 44,493.0 | 334,441 | 8.16 | 7.72 |
| **27. BAYSIDE TOTAL** | **1,854** | **819,191** | **61.4** | **96.6** | **0.1** | **7,444** | **GAS** | **5,931,900** | **1,028,007** | **6,098,036.0** | **45,816,807** | **5.59** | **7.72** |
| 28. B.B.C.T.#4 OIL | 56 | 231 | 0.6 | 0.0 | - | 10,805 | LGT OIL | 431 | 5,791,183 | 2,496.0 | 39,181 | 16.96 | 90.91 |
| 29. B.B.C.T.#4 GAS | 56 | 2,079 | 5.2 | 0.0 | - | 10,836 | GAS | 21,900 | 1,028,676 | 22,528.0 | 169,151 | 8.14 | 7.72 |
| **30. B.B.C.T.#4 TOTAL** | **56** | **2,310** | **5.7** | **99.5** | **0.1** | **10,833** | | **-** | **-** | **25,024.0** | **208,332** | **9.02** | **-** |
| **31. TOT COAL (BB,POLK)** | **1,812** | **993,092** | **76.1** | **68.0** | **0.1** | **10,650** | **COAL** | **451,394** | **23,430,697** | **10,576,476.0** | **35,120,936** | **3.54** | **77.81** |
| **32. SYSTEM** | **4,381** | **1,834,440** | **58.2** | **88.0** | **0.1** | **9,228** | **-** | **-** | **-** | **16,927,483.3** | **83,203,756** | **4.54** | **-** |

LEGEND:
B.B. = BIG BEND SEB-PHIL = SEBRING-PHILLIPS
C.T. = COMBUSTION TURBINE

**TAMPA ELECTRIC COMPANY**
**SYSTEM NET GENERATION AND FUEL COST**
**ESTIMATED FOR THE PERIOD: OCTOBER 2010**

| (A) PLANT/UNIT | (B) NET CAPA-BILITY (MW) | (C) NET GENERATION (MWH) | (D) NET CAPACITY FACTOR (%) | (E) EQUIV. AVAIL. FACTOR (%) | (F) NET OUTPUT FACTOR (%) | (G) AVG. NET HEAT RATE (BTU/KWH) | (H) FUEL TYPE | (I) FUEL BURNED (UNITS) | (J) FUEL HEAT VALUE (BTU/UNIT) | (K) FUEL BURNED (MM BTU) | (L) AS BURNED FUEL COST ($) | (M) FUEL COST PER KWH (cents/KWH) | (N) COST OF FUEL ($/UNIT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. B.B.#1 | 385 | 230,710 | 80.5 | 81.7 | 0.1 | 10,568 | COAL | 102,353 | 23,820,015 | 2,438,050.0 | 7,738,393 | 3.35 | 75.60 |
| 2. B.B.#2 | 385 | 237,068 | 82.8 | 83.6 | 0.1 | 10,563 | COAL | 106,924 | 23,420,093 | 2,504,170.0 | 8,083,984 | 3.41 | 75.60 |
| 3. B.B.#3 | 375 | 62,388 | 22.4 | 22.9 | 0.1 | 10,629 | COAL | 28,806 | 23,020,239 | 663,121.0 | 2,177,876 | 3.49 | 75.60 |
| 4. B.B.#4 | 432 | 233,227 | 72.6 | 76.4 | 0.1 | 10,634 | COAL | 112,735 | 21,999,911 | 2,480,160.0 | 8,572,042 | 3.68 | 76.04 |
| B.B. IGNITION | - | - | - | - | - | - | LGT OIL | 7,107 | - | - | 647,159 | - | 91.06 |
| **5. B.B. STATION** | **1,577** | **763,393** | **65.1** | **66.7** | **0.1** | **10,592** | | **-** | **-** | **8,085,501.0** | **27,219,454** | **3.57** | **-** |
| 6. SEB-PHILLIPS #1 (HVY OIL) | 18 | 6 | 0.0 | 82.9 | 0.1 | 10,091 | HVY OIL | 9 | 6,727,273 | 60.5 | 673 | 11.22 | 74.78 |
| 7. SEB-PHILLIPS #2 (HVY OIL) | 18 | 5 | 0.0 | 81.3 | 0.1 | 22,200 | HVY OIL | 8 | 13,875,000 | 111.0 | 598 | 11.96 | 74.75 |
| SEB-PHILLIPS IGNITION | - | - | - | - | - | - | LGT OIL | 0 | - | - | 0 | - | 0.00 |
| **8. SEB-PHILLIPS TOTAL** | **35** | **11** | **0.0** | **82.1** | **0.1** | **15,595** | | **-** | **-** | **171.5** | **1,271** | **11.55** | **-** |
| 9. POLK #1 GASIFIER | 235 | 130,526 | 74.7 | - | - | 10,502 | COAL | 52,193 | 26,264,940 | 1,370,846.0 | 4,059,188 | 3.11 | 77.77 |
| 10. POLK #1 CT OIL | 215 | 4,037 | 2.5 | - | - | 10,476 | LGT OIL | 7,297 | 5,795,944 | 42,293.0 | 649,607 | 16.09 | 89.02 |
| **11. POLK #1 TOTAL** | **235** | **134,563** | **77.0** | **77.7** | **0.1** | **10,502** | | **-** | **-** | **1,413,139.0** | **4,708,795** | **3.50** | **-** |
| 12. POLK #2 CT GAS | 151 | 891 | 0.8 | - | - | 12,062 | GAS | 10,500 | 1,023,524 | 10,747.0 | 80,458 | 9.03 | 7.66 |
| 13. POLK #2 CT OIL | 158 | 28 | 0.0 | - | - | 11,321 | LGT OIL | 55 | 5,763,636 | 317.0 | 4,896 | 17.49 | 89.02 |
| **14. POLK #2 TOTAL** | **158** | **919** | **0.8** | **98.9** | **0.1** | **12,039** | | **-** | **-** | **11,064.0** | **85,354** | **9.29** | **-** |
| 15. POLK #3 CT GAS | 151 | 367 | 0.3 | - | - | 12,937 | GAS | 4,600 | 1,032,174 | 4,748.0 | 35,248 | 9.60 | 7.66 |
| 16. POLK #3 CT OIL | 158 | 11 | 0.0 | - | - | 11,909 | LGT OIL | 23 | 5,695,652 | 131.0 | 2,048 | 18.62 | 89.04 |
| **17. POLK #3 TOTAL** | **158** | **378** | **0.3** | **98.9** | **0.1** | **12,907** | | **-** | **-** | **4,879.0** | **37,296** | **9.87** | **-** |
| **18. POLK #4 CT GAS** | **151** | **6,964** | **6.2** | **99.4** | **0.1** | **11,761** | **GAS** | **79,600** | **1,028,920** | **81,902.0** | **609,946** | **8.76** | **7.66** |
| **19. POLK #5 CT GAS** | **151** | **2,023** | **1.8** | **99.4** | **0.1** | **11,687** | **GAS** | **23,000** | **1,027,913** | **23,642.0** | **176,241** | **8.71** | **7.66** |
| **20. CITY OF TAMPA GAS** | **6** | **612** | **13.7** | **100.0** | **0.1** | **10,459** | **GAS** | **6,400** | **1,000,156** | **6,401.0** | **53,421** | **8.73** | **8.35** |
| 21. BAYSIDE #1 | 701 | 364,255 | 69.8 | 89.4 | 0.1 | 7,307 | GAS | 2,589,200 | 1,027,989 | 2,661,670.0 | 19,840,101 | 5.45 | 7.66 |
| 22. BAYSIDE #2 | 929 | 388,944 | 56.3 | 96.7 | 0.1 | 7,401 | GAS | 2,800,200 | 1,027,980 | 2,878,550.0 | 21,456,918 | 5.52 | 7.66 |
| 23. BAYSIDE #3 | 56 | 4,616 | 11.1 | 99.5 | 0.1 | 10,856 | GAS | 48,700 | 1,028,973 | 50,111.0 | 373,170 | 8.08 | 7.66 |
| 24. BAYSIDE #4 | 56 | 4,132 | 9.9 | 99.5 | 0.1 | 10,848 | GAS | 43,600 | 1,028,119 | 44,826.0 | 334,091 | 8.09 | 7.66 |
| 25. BAYSIDE #5 | 56 | 3,665 | 8.8 | 99.5 | 0.1 | 10,845 | GAS | 38,700 | 1,027,028 | 39,746.0 | 296,544 | 8.09 | 7.66 |
| 26. BAYSIDE #6 | 56 | 3,230 | 7.8 | 99.5 | 0.1 | 10,851 | GAS | 34,100 | 1,027,801 | 35,048.0 | 261,296 | 8.09 | 7.66 |
| **27. BAYSIDE TOTAL** | **1,854** | **768,842** | **55.7** | **94.3** | **0.1** | **7,427** | **GAS** | **5,554,500** | **1,027,986** | **5,709,951.0** | **42,562,120** | **5.54** | **7.66** |
| 28. B.B.C.T.#4 OIL | 56 | 246 | 0.6 | 0.0 | - | 10,797 | LGT OIL | 458 | 5,799,127 | 2,656.0 | 41,705 | 16.95 | 91.06 |
| 29. B.B.C.T.#4 GAS | 56 | 2,213 | 5.3 | 0.0 | - | 10,831 | GAS | 23,300 | 1,028,712 | 23,969.0 | 178,539 | 8.07 | 7.66 |
| **30. B.B.C.T.#4 TOTAL** | **56** | **2,459** | **5.9** | **99.5** | **0.1** | **10,828** | | **-** | **-** | **26,625.0** | **220,244** | **8.96** | **-** |
| **31. TOT COAL (BB,POLK)** | **1,812** | **893,919** | **66.3** | **58.1** | **0.1** | **10,579** | **COAL** | **403,011** | **23,464,240** | **9,456,347.0** | **31,278,642** | **3.50** | **77.61** |
| **32. SYSTEM** | **4,381** | **1,680,164** | **51.6** | **82.9** | **0.1** | **9,144** | **-** | **-** | **-** | **15,363,275.5** | **75,674,142** | **4.50** | **-** |

LEGEND:
B.B. = BIG BEND SEB-PHIL = SEBRING-PHILLIPS
C.T. = COMBUSTION TURBINE

41

SCHEDULE E4

TAMPA ELECTRIC COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE PERIOD: NOVEMBER 2010

| (A) PLANT/UNIT | (B) NET CAPA-BILITY (MW) | (C) NET GENERATION (MWH) | (D) NET CAPACITY FACTOR (%) | (E) EQUIV. AVAIL. FACTOR (%) | (F) NET OUTPUT FACTOR (%) | (G) AVG. NET HEAT RATE (BTU/KWH) | (H) FUEL TYPE | (I) FUEL BURNED (UNITS) | (J) FUEL HEAT VALUE (BTU/UNIT) | (K) FUEL BURNED (MM BTU) | (L) AS BURNED FUEL COST ($) | (M) FUEL COST PER KWH (cents/KWH) | (N) COST OF FUEL ($/UNIT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. B.B.#1 | 385 | 221,726 | 80.0 | 81.7 | 0.1 | 10,551 | COAL | 98,208 | 23,820,157 | 2,339,330.0 | 7,485,533 | 3.38 | 76.22 |
| 2. B.B.#2 | 385 | 227,978 | 82.2 | 83.6 | 0.1 | 10,580 | COAL | 102,993 | 23,420,232 | 2,412,120.0 | 7,850,251 | 3.44 | 76.22 |
| 3. B.B.#3 | 375 | 181,614 | 67.3 | 71.1 | 0.1 | 10,611 | COAL | 83,718 | 23,019,781 | 1,927,170.0 | 6,381,087 | 3.51 | 76.22 |
| 4. B.B.#4 | 432 | 222,645 | 71.6 | 76.4 | 0.1 | 10,661 | COAL | 107,894 | 21,999,926 | 2,373,660.0 | 8,272,530 | 3.72 | 76.67 |
| B.B. IGNITION | - | - | - | - | - | - | LGT OIL | 9,773 | - | - | 899,685 | - | 92.06 |
| **5. B.B. STATION** | **1,577** | **853,963** | **75.2** | **78.2** | **0.1** | **10,600** | | **-** | **-** | **9,052,280.0** | **30,889,086** | **3.62** | **-** |
| 6. SEB-PHILLIPS #1 (HVY OIL) | 18 | 0 | 0.0 | 82.9 | 0.0 | 0 | HVY OIL | 0 | 0 | 0.0 | 0 | 0.00 | 0.00 |
| 7. SEB-PHILLIPS #2 (HVY OIL) | 18 | 0 | 0.0 | 81.3 | 0.0 | 0 | HVY OIL | 0 | 0 | 0.0 | 0 | 0.00 | 0.00 |
| SEB-PHILLIPS IGNITION | - | - | - | - | - | - | LGT OIL | 0 | - | - | 0 | - | 0.00 |
| **8. SEB-PHILLIPS TOTAL** | **35** | **0** | **0.0** | **82.1** | **0.0** | **0** | | **-** | **-** | **0.0** | **0** | **0.00** | **-** |
| 9. POLK #1 GASIFIER | 235 | 104,982 | 62.0 | - | - | 10,510 | COAL | 41,984 | 26,280,393 | 1,103,356.0 | 3,255,229 | 3.10 | 77.53 |
| 10. POLK #1 CT OIL | 215 | 3,247 | 2.1 | - | - | 10,477 | LGT OIL | 5,870 | 5,795,571 | 34,020.0 | 525,878 | 16.20 | 89.59 |
| **11. POLK #1 TOTAL** | **235** | **108,229** | **64.0** | **64.7** | **0.1** | **10,509** | | **-** | **-** | **1,137,376.0** | **3,781,107** | **3.49** | **-** |
| 12. POLK #2 CT GAS | 151 | 22 | 0.0 | - | - | 11,955 | GAS | 300 | 876,667 | 263.0 | 2,450 | 11.14 | 8.17 |
| 13. POLK #2 CT OIL | 158 | 1 | 0.0 | - | - | 8,000 | LGT OIL | 1 | 8,000,000 | 8.0 | 90 | 8.99 | 89.89 |
| **14. POLK #2 TOTAL** | **158** | **23** | **0.0** | **92.3** | **0.1** | **11,783** | | **-** | **-** | **271.0** | **2,540** | **11.04** | **-** |
| 15. POLK #3 CT GAS | 151 | 6 | 0.0 | - | - | 11,000 | GAS | 100 | 660,000 | 66.0 | 817 | 13.62 | 8.17 |
| 16. POLK #3 CT OIL | 158 | 0 | 0.0 | - | - | 0 | LGT OIL | 0 | 0 | 2.0 | 0 | 0.00 | 0.00 |
| **17. POLK #3 TOTAL** | **158** | **6** | **0.0** | **98.9** | **0.1** | **11,333** | | **-** | **-** | **68.0** | **817** | **13.62** | **-** |
| **18. POLK #4 CT GAS** | **151** | **288** | **0.3** | **99.4** | **0.1** | **13,340** | **GAS** | **3,700** | **1,038,378** | **3,842.0** | **30,222** | **10.49** | **8.17** |
| **19. POLK #5 CT GAS** | **151** | **91** | **0.1** | **99.4** | **0.1** | **11,714** | **GAS** | **1,000** | **1,066,000** | **1,066.0** | **8,168** | **8.98** | **8.17** |
| **20. CITY OF TAMPA GAS** | **6** | **137** | **3.2** | **100.0** | **0.1** | **10,474** | **GAS** | **1,400** | **1,025,000** | **1,435.0** | **12,127** | **8.85** | **8.66** |
| 21. BAYSIDE #1 | 701 | 237,115 | 47.0 | 79.7 | 0.1 | 7,334 | GAS | 1,691,700 | 1,027,996 | 1,739,060.0 | 13,817,964 | 5.83 | 8.17 |
| 22. BAYSIDE #2 | 929 | 198,945 | 29.7 | 74.1 | 0.1 | 7,413 | GAS | 1,434,700 | 1,027,964 | 1,474,820.0 | 11,718,764 | 5.89 | 8.17 |
| 23. BAYSIDE #3 | 56 | 994 | 2.5 | 99.5 | 0.1 | 10,940 | GAS | 10,600 | 1,025,849 | 10,874.0 | 86,582 | 8.71 | 8.17 |
| 24. BAYSIDE #4 | 56 | 744 | 1.8 | 99.5 | 0.1 | 10,930 | GAS | 7,900 | 1,029,367 | 8,132.0 | 64,528 | 8.67 | 8.17 |
| 25. BAYSIDE #5 | 56 | 555 | 1.4 | 99.5 | 0.1 | 10,984 | GAS | 5,900 | 1,033,220 | 6,096.0 | 48,192 | 8.68 | 8.17 |
| 26. BAYSIDE #6 | 56 | 413 | 1.0 | 99.5 | 0.1 | 10,932 | GAS | 4,400 | 1,026,136 | 4,515.0 | 35,940 | 8.70 | 8.17 |
| **27. BAYSIDE TOTAL** | **1,854** | **438,766** | **32.9** | **79.3** | **0.1** | **7,392** | **GAS** | **3,155,200** | **1,027,985** | **3,243,497.0** | **25,771,970** | **5.87** | **8.17** |
| 28. B.B.C.T.#4 OIL | 56 | 7 | 0.0 | 0.0 | - | 11,571 | LGT OIL | 14 | 5,785,714 | 81.0 | 1,560 | 22.29 | 111.43 |
| 29. B.B.C.T.#4 GAS | 56 | 67 | 0.2 | 0.0 | - | 10,866 | GAS | 700 | 1,040,000 | 728.0 | 5,718 | 8.53 | 8.17 |
| **30. B.B.C.T.#4 TOTAL** | **56** | **74** | **0.2** | **99.5** | **0.1** | **10,932** | | **-** | **-** | **809.0** | **7,278** | **9.84** | **-** |
| **31. TOT COAL (BB,POLK)** | **1,812** | **958,945** | **73.5** | **68.0** | **0.1** | **10,590** | **COAL** | **434,797** | **23,357,190** | **10,155,636.0** | **34,144,315** | **3.56** | **78.53** |
| **32. SYSTEM** | **4,381** | **1,401,577** | **44.4** | **79.7** | **0.1** | **9,590** | **-** | **-** | **-** | **13,440,644.0** | **60,503,315** | **4.32** | **-** |

LEGEND:
B.B. = BIG BEND SEB-PHIL = SEBRING-PHILLIPS
C.T. = COMBUSTION TURBINE

42

SCHEDULE E4

**TAMPA ELECTRIC COMPANY**
**SYSTEM NET GENERATION AND FUEL COST**
**ESTIMATED FOR THE PERIOD: DECEMBER 2010**

| (A) PLANT/UNIT | (B) NET CAPA-BILITY (MW) | (C) NET GENERATION (MWH) | (D) NET CAPACITY FACTOR (%) | (E) EQUIV. AVAIL. FACTOR (%) | (F) NET OUTPUT FACTOR (%) | (G) AVG. NET HEAT RATE (BTU/KWH) | (H) FUEL TYPE | (I) FUEL BURNED (UNITS) | (J) FUEL HEAT VALUE (BTU/UNIT) | (K) FUEL BURNED (MM BTU) | (L) AS BURNED FUEL COST ($) | (M) FUEL COST PER KWH (cents/KWH) | (N) COST OF FUEL ($/UNIT) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. B.B.#1 | 395 | 233,133 | 79.3 | 81.7 | 0.1 | 10,525 | COAL | 103,014 | 23,819,966 | 2,453,790.0 | 7,885,415 | 3.38 | 76.55 |
| 2. B.B.#2 | 395 | 239,814 | 81.6 | 83.6 | 0.1 | 10,593 | COAL | 108,471 | 23,420,085 | 2,540,400.0 | 8,303,132 | 3.46 | 76.55 |
| 3. B.B.#3 | 385 | 188,449 | 65.8 | 71.1 | 0.1 | 10,619 | COAL | 86,932 | 23,019,947 | 2,001,170.0 | 6,654,386 | 3.53 | 76.55 |
| 4. B.B.#4 | 442 | 230,434 | 70.1 | 76.4 | 0.1 | 10,647 | COAL | 111,517 | 21,999,964 | 2,453,370.0 | 8,641,016 | 3.75 | 77.49 |
| B.B. IGNITION | - | - | - | - | - | - | LGT OIL | 9,773 | - | - | 909,102 | - | 93.02 |
| **5. B.B. STATION** | **1,617** | **891,830** | **74.1** | **78.2** | **0.1** | **10,595** | | **-** | **-** | **9,448,730.0** | **32,393,051** | **3.63** | **-** |
| 6. SEB-PHILLIPS #1 (HVY OIL) | 18 | 0 | 0.0 | 82.9 | 0.0 | 0 | HVY OIL | 0 | 0 | 0.0 | 0 | 0.00 | 0.00 |
| 7. SEB-PHILLIPS #2 (HVY OIL) | 18 | 0 | 0.0 | 81.3 | 0.0 | 0 | HVY OIL | 0 | 0 | 1.0 | 0 | 0.00 | 0.00 |
| SEB-PHILLIPS IGNITION | - | - | - | - | - | - | LGT OIL | 0 | - | - | 0 | - | 0.00 |
| **8. SEB-PHILLIPS TOTAL** | **36** | **0** | **0.0** | **82.1** | **0.0** | **0** | | **-** | **-** | **1.0** | **0** | **0.00** | **-** |
| 9. POLK #1 GASIFIER | 235 | 130,216 | 74.5 | - | - | 10,506 | COAL | 52,087 | 26,265,210 | 1,368,076.0 | 4,155,496 | 3.19 | 79.78 |
| 10. POLK #1 CT OIL | 235 | 4,027 | 2.3 | - | - | 10,481 | LGT OIL | 7,282 | 5,796,210 | 42,208.0 | 657,709 | 16.33 | 90.32 |
| **11. POLK #1 TOTAL** | **235** | **134,243** | **76.8** | **77.7** | **0.1** | **10,505** | | **-** | **-** | **1,410,284.0** | **4,813,205** | **3.59** | **-** |
| 12. POLK #2 CT GAS | 183 | 18 | 0.0 | - | - | 11,833 | GAS | 200 | 1,065,000 | 213.0 | 1,710 | 9.50 | 8.55 |
| 13. POLK #2 CT OIL | 186 | 1 | 0.0 | - | - | 7,000 | LGT OIL | 1 | 7,000,000 | 7.0 | 90 | 8.99 | 89.89 |
| **14. POLK #2 TOTAL** | **186** | **19** | **0.0** | **95.7** | **0.1** | **11,579** | | **-** | **-** | **220.0** | **1,800** | **9.47** | **-** |
| 15. POLK #3 CT GAS | 183 | 6 | 0.0 | - | - | 11,667 | GAS | 100 | 700,000 | 70.0 | 855 | 14.25 | 8.55 |
| 16. POLK #3 CT OIL | 186 | 0 | 0.0 | - | - | 0 | LGT OIL | 0 | 0 | 2.0 | 0 | 0.00 | 0.00 |
| **17. POLK #3 TOTAL** | **186** | **6** | **0.0** | **89.3** | **0.1** | **12,000** | | **-** | **-** | **72.0** | **855** | **14.25** | **-** |
| **18. POLK #4 CT GAS** | **183** | **86** | **0.1** | **89.8** | **0.1** | **11,244** | **GAS** | **900** | **1,074,444** | **967.0** | **7,696** | **8.95** | **8.55** |
| **19. POLK #5 CT GAS** | **183** | **44** | **0.0** | **89.8** | **0.1** | **11,273** | **GAS** | **500** | **992,000** | **496.0** | **4,275** | **9.72** | **8.55** |
| **20. CITY OF TAMPA GAS** | **6** | **9** | **0.2** | **100.0** | **0.1** | **10,667** | **GAS** | **100** | **960,000** | **96.0** | **910** | **10.11** | **9.10** |
| 21. BAYSIDE #1 | 792 | 254,149 | 43.1 | 95.6 | 0.1 | 7,340 | GAS | 1,814,600 | 1,027,973 | 1,865,360.0 | 15,516,125 | 6.11 | 8.55 |
| 22. BAYSIDE #2 | 1,047 | 215,749 | 27.7 | 96.7 | 0.1 | 7,389 | GAS | 1,550,700 | 1,028,007 | 1,594,130.0 | 13,259,592 | 6.15 | 8.55 |
| 23. BAYSIDE #3 | 61 | 592 | 1.3 | 99.5 | 0.1 | 10,816 | GAS | 6,200 | 1,032,742 | 6,403.0 | 53,014 | 8.96 | 8.55 |
| 24. BAYSIDE #4 | 61 | 479 | 1.1 | 99.5 | 0.1 | 10,854 | GAS | 5,100 | 1,019,412 | 5,199.0 | 43,609 | 9.10 | 8.55 |
| 25. BAYSIDE #5 | 61 | 383 | 0.8 | 99.5 | 0.1 | 10,883 | GAS | 4,100 | 1,016,585 | 4,168.0 | 35,058 | 9.15 | 8.55 |
| 26. BAYSIDE #6 | 61 | 305 | 0.7 | 99.5 | 0.1 | 10,921 | GAS | 3,200 | 1,040,938 | 3,331.0 | 27,362 | 8.97 | 8.55 |
| **27. BAYSIDE TOTAL** | **2,083** | **471,657** | **30.4** | **96.6** | **0.1** | **7,375** | **GAS** | **3,383,900** | **1,027,983** | **3,478,591.0** | **28,934,760** | **6.13** | **8.55** |
| 28. B.B.C.T.#4 OIL | 61 | 24 | 0.1 | 0.0 | - | 10,708 | LGT OIL | 44 | 5,840,909 | 257.0 | 4,093 | 17.05 | 93.02 |
| 29. B.B.C.T.#4 GAS | 61 | 215 | 0.5 | 0.0 | - | 11,047 | GAS | 2,300 | 1,032,609 | 2,375.0 | 19,667 | 9.15 | 8.55 |
| **30. B.B.C.T.#4 TOTAL** | **61** | **239** | **0.5** | **99.5** | **0.1** | **11,013** | | **-** | **-** | **2,632.0** | **23,760** | **9.94** | **-** |
| **31. TOT COAL (BB,POLK)** | **1,852** | **1,022,046** | **74.2** | **68.3** | **0.1** | **10,583** | **COAL** | **462,021** | **23,411,936** | **10,816,806.0** | **36,548,547** | **3.58** | **79.11** |
| **32. SYSTEM** | **4,776** | **1,498,133** | **42.2** | **87.2** | **0.1** | **9,573** | **-** | **-** | **-** | **14,342,089.0** | **66,180,312** | **4.42** | **-** |

LEGEND:
B.B. = BIG BEND SEB-PHIL = SEBRING-PHILLIPS
C.T. = COMBUSTION TURBINE

SCHEDULE E5

**TAMPA ELECTRIC COMPANY**
**SYSTEM GENERATED FUEL COST INVENTORY ANALYSIS**
**ESTIMATED FOR THE PERIOD: JANUARY 2010 THROUGH JUNE 2010**

| | | Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 |
|---|---|---|---|---|---|---|---|
| | **HEAVY OIL** | | | | | | |
| 1. | PURCHASES: | | | | | | |
| 2. | UNITS (BBL) | 4 | 0 | 2 | 7 | 32 | 684 |
| 3. | UNIT COST ($/BBL) | 73.75 | 0.00 | 70.50 | 70.14 | 70.09 | 68.91 |
| 4. | AMOUNT ($) | 295 | 0 | 141 | 491 | 2,243 | 47,132 |
| 5. | BURNED: | | | | | | |
| 6. | UNITS (BBL) | 4 | 0 | 2 | 7 | 32 | 685 |
| 7. | UNIT COST ($/BBL) | 70.75 | 0.00 | 71.00 | 70.86 | 87.22 | 73.04 |
| 8. | AMOUNT ($) | 283 | 0 | 142 | 496 | 2,791 | 50,030 |
| 9. | ENDING INVENTORY: | | | | | | |
| 10. | UNITS (BBL) | 8,168 | 8,168 | 8,168 | 8,168 | 8,168 | 8,168 |
| 11. | UNIT COST ($/BBL) | 70.79 | 70.79 | 70.79 | 70.79 | 70.79 | 70.64 |
| 12. | AMOUNT ($) | 578,220 | 578,220 | 578,220 | 578,215 | 578,193 | 577,007 |
| 13. | DAYS SUPPLY: | 1,264 | 1,264 | 1,265 | 1,263 | 1,267 | 1,134 |
| | **LIGHT OIL** | | | | | | |
| 14. | PURCHASES: | | | | | | |
| 15. | UNITS (BBL) | 15,536 | 9,570 | 14,616 | 14,567 | 15,859 | 17,528 |
| 16. | UNIT COST ($/BBL) | 85.75 | 86.85 | 87.50 | 87.68 | 88.05 | 88.67 |
| 17. | AMOUNT ($) | 1,332,235 | 831,180 | 1,278,828 | 1,277,215 | 1,396,394 | 1,554,272 |
| 18. | BURNED: | | | | | | |
| 19. | UNITS (BBL) | 15,536 | 9,570 | 14,616 | 14,567 | 15,859 | 17,528 |
| 20. | UNIT COST ($/BBL) | 41.55 | 30.00 | 44.18 | 44.16 | 42.93 | 38.38 |
| 21. | AMOUNT ($) | 645,520 | 287,061 | 645,729 | 643,327 | 680,798 | 672,698 |
| 22. | ENDING INVENTORY: | | | | | | |
| 23. | UNITS (BBL) | 53,134 | 53,134 | 53,134 | 53,134 | 53,134 | 53,134 |
| 24. | UNIT COST ($/BBL) | 85.10 | 85.40 | 85.84 | 86.20 | 86.56 | 86.98 |
| 25. | AMOUNT ($) | 4,521,875 | 4,537,809 | 4,561,004 | 4,579,988 | 4,599,197 | 4,621,670 |
| 26. | DAYS SUPPLY: NORMAL | 102 | 102 | 102 | 103 | 102 | 103 |
| 27. | DAYS SUPPLY: EMERGENCY | 8 | 8 | 8 | 8 | 8 | 8 |
| | **COAL** | | | | | | |
| 28. | PURCHASES: | | | | | | |
| 29. | UNITS (TONS) | 436,097 | 331,233 | 341,040 | 254,927 | 396,123 | 574,949 |
| 30. | UNIT COST ($/TON) | 68.77 | 69.34 | 68.68 | 71.89 | 72.62 | 74.51 |
| 31. | AMOUNT ($) | 29,991,043 | 22,966,853 | 23,421,802 | 18,327,705 | 28,765,102 | 42,838,312 |
| 32. | BURNED: | | | | | | |
| 33. | UNITS (TONS) | 358,071 | 242,175 | 312,930 | 310,416 | 387,835 | 451,068 |
| 34. | UNIT COST ($/TON) | 71.54 | 71.97 | 71.26 | 72.43 | 73.33 | 75.13 |
| 35. | AMOUNT ($) | 25,615,599 | 17,428,307 | 22,299,869 | 22,482,112 | 28,441,185 | 33,887,043 |
| 36. | ENDING INVENTORY: | | | | | | |
| 37. | UNITS (TONS) | 414,606 | 503,662 | 531,772 | 476,283 | 484,572 | 608,452 |
| 38. | UNIT COST ($/TON) | 68.95 | 69.03 | 68.88 | 69.86 | 71.04 | 72.91 |
| 39. | AMOUNT ($) | 28,586,520 | 34,767,216 | 36,628,765 | 33,274,524 | 34,424,229 | 44,362,849 |
| 40. | DAYS SUPPLY: | 43 | 46 | 42 | 34 | 32 | 40 |
| | **NATURAL GAS** | | | | | | |
| 41. | PURCHASES: | | | | | | |
| 42. | UNITS (MCF) | 4,560,100 | 5,396,700 | 5,134,100 | 5,362,500 | 6,223,800 | 6,217,733 |
| 43. | UNIT COST ($/MCF) | 7.94 | 7.38 | 7.56 | 7.30 | 7.53 | 7.62 |
| 44. | AMOUNT ($) | 36,189,359 | 39,847,069 | 38,805,401 | 39,172,672 | 46,834,949 | 47,396,380 |
| 45. | BURNED: | | | | | | |
| 46. | UNITS (MCF) | 4,560,100 | 5,396,700 | 5,134,100 | 5,362,500 | 6,223,800 | 6,047,500 |
| 47. | UNIT COST ($/MCF) | 7.93 | 7.39 | 7.57 | 7.30 | 7.52 | 7.65 |
| 48. | AMOUNT ($) | 36,168,874 | 39,864,834 | 38,840,635 | 39,150,911 | 46,788,539 | 46,280,297 |
| 49. | ENDING INVENTORY: | | | | | | |
| 50. | UNITS (MCF) | 413,424 | 413,424 | 413,424 | 413,424 | 413,424 | 583,657 |
| 51. | UNIT COST ($/MCF) | 6.08 | 6.04 | 5.95 | 6.01 | 6.12 | 6.25 |
| 52. | AMOUNT ($) | 2,514,045 | 2,496,280 | 2,461,047 | 2,482,808 | 2,529,217 | 3,645,300 |
| 53. | DAYS SUPPLY: | 2 | 2 | 2 | 2 | 3 | 4 |
| | **NUCLEAR** | | | | | | |
| 54. | BURNED: | | | | | | |
| 55. | UNITS (MMBTU) | 0 | 0 | 0 | 0 | 0 | 0 |
| 56. | UNIT COST ($/MMBTU) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57. | AMOUNT ($) | 0 | 0 | 0 | 0 | 0 | 0 |
| | **OTHER** | | | | | | |
| 58. | PURCHASES: | | | | | | |
| 59. | UNITS (MMBTU) | 0 | 0 | 0 | 0 | 0 | 0 |
| 60. | UNIT COST ($/MMBTU) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61. | AMOUNT ($) | 0 | 0 | 0 | 0 | 0 | 0 |
| 62. | BURNED: | | | | | | |
| 63. | UNITS (MMBTU) | 0 | 0 | 0 | 0 | 0 | 0 |
| 64. | UNIT COST ($/MMBTU) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65. | AMOUNT ($) | 0 | 0 | 0 | 0 | 0 | 0 |
| 66. | ENDING INVENTORY: | | | | | | |
| 67. | UNITS (MMBTU) | 0 | 0 | 0 | 0 | 0 | 0 |
| 68. | UNIT COST ($/MMBTU) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69. | AMOUNT ($) | 0 | 0 | 0 | 0 | 0 | 0 |
| 70. | DAYS SUPPLY: | 0 | 0 | 0 | 0 | 0 | 0 |

NOTE: BEGINNING & ENDING INVENTORIES MAY NOT BALANCE BECAUSE OF THE FOLLOWING
(1) LIGHT OIL-OTHER USAGE NOT INCLUDED. (2) COAL-ADDITIVES, IGNITOR AND/OR INVENTORY ADJUSTMENT ARE INCLUDED.

SCHEDULE E5

**TAMPA ELECTRIC COMPANY**
**SYSTEM GENERATED FUEL COST INVENTORY ANALYSIS**
**ESTIMATED FOR THE PERIOD: JULY 2010 THROUGH DECEMBER 2010**

| | | Jul-10 | Aug-10 | Sep-10 | Oct-10 | Nov-10 | Dec-10 | TOTAL |
|---|---|---|---|---|---|---|---|---|
| | **HEAVY OIL** | | | | | | | |
| 1. | PURCHASES: | | | | | | | |
| 2. | UNITS (BBL) | 692 | 807 | 112 | 18 | 0 | 0 | 2,358 |
| 3. | UNIT COST ($/BBL) | 70.09 | 70.69 | 71.88 | 73.67 | 0.00 | 0.00 | 70.07 |
| 4. | AMOUNT ($) | 48,505 | 57,045 | 8,050 | 1,326 | 0 | 0 | 165,228 |
| 5. | BURNED: | | | | | | | |
| 6. | UNITS (BBL) | 692 | 807 | 113 | 17 | 0 | 0 | 2,359 |
| 7. | UNIT COST ($/BBL) | 73.08 | 73.13 | 80.92 | 74.76 | 0.00 | 0.00 | 73.65 |
| 8. | AMOUNT ($) | 50,570 | 59,014 | 9,144 | 1,271 | 0 | 0 | 173,741 |
| 9. | ENDING INVENTORY: | | | | | | | |
| 10. | UNITS (BBL) | 8,168 | 8,168 | 8,168 | 8,168 | 8,168 | 8,168 | 8,168 |
| 11. | UNIT COST ($/BBL) | 70.60 | 70.61 | 70.63 | 70.63 | 70.63 | 70.63 | 70.63 |
| 12. | AMOUNT ($) | 576,659 | 576,727 | 576,867 | 576,922 | 576,922 | 576,922 | 576,922 |
| 13. | DAYS SUPPLY: | 1,283 | 1,647 | 1,485 | 1,461 | 1,461 | 1,459 | - |
| | **LIGHT OIL** | | | | | | | |
| 14. | PURCHASES: | | | | | | | |
| 15. | UNITS (BBL) | 18,008 | 17,923 | 17,756 | 14,940 | 15,658 | 17,100 | 189,061 |
| 16. | UNIT COST ($/BBL) | 89.54 | 90.45 | 91.41 | 92.40 | 93.38 | 94.30 | 89.82 |
| 17. | AMOUNT ($) | 1,612,404 | 1,621,154 | 1,623,115 | 1,380,419 | 1,462,189 | 1,612,457 | 16,981,862 |
| 18. | BURNED: | | | | | | | |
| 19. | UNITS (BBL) | 18,008 | 17,923 | 17,756 | 14,940 | 15,658 | 17,100 | 189,061 |
| 20. | UNIT COST ($/BBL) | 39.90 | 39.88 | 39.76 | 46.74 | 33.69 | 38.71 | 40.21 |
| 21. | AMOUNT ($) | 718,442 | 714,772 | 705,942 | 698,256 | 527,528 | 661,892 | 7,601,966 |
| 22. | ENDING INVENTORY: | | | | | | | |
| 23. | UNITS (BBL) | 53,134 | 53,134 | 53,134 | 53,134 | 53,134 | 53,134 | 53,134 |
| 24. | UNIT COST ($/BBL) | 87.50 | 88.09 | 88.74 | 89.40 | 90.07 | 90.85 | 90.85 |
| 25. | AMOUNT ($) | 4,649,381 | 4,680,831 | 4,715,266 | 4,750,270 | 4,785,517 | 4,826,980 | 4,826,980 |
| 26. | DAYS SUPPLY: NORMAL | 104 | 105 | 106 | 106 | 107 | 108 | - |
| 27. | DAYS SUPPLY: EMERGENCY | 8 | 8 | 8 | 8 | 8 | 8 | - |
| | **COAL** | | | | | | | |
| 28. | PURCHASES: | | | | | | | |
| 29. | UNITS (TONS) | 526,123 | 466,120 | 449,958 | 353,121 | 444,056 | 426,048 | 4,999,795 |
| 30. | UNIT COST ($/TON) | 75.82 | 76.74 | 75.93 | 75.96 | 76.78 | 77.62 | 74.03 |
| 31. | AMOUNT ($) | 39,890,502 | 35,771,397 | 34,166,303 | 26,822,780 | 34,093,146 | 33,070,740 | 370,125,685 |
| 32. | BURNED: | | | | | | | |
| 33. | UNITS (TONS) | 469,003 | 469,155 | 451,394 | 403,011 | 434,797 | 462,021 | 4,751,876 |
| 34. | UNIT COST ($/TON) | 76.42 | 77.52 | 77.81 | 77.61 | 78.53 | 79.11 | 75.65 |
| 35. | AMOUNT ($) | 35,842,888 | 36,368,507 | 35,120,936 | 31,278,642 | 34,144,315 | 36,548,547 | 359,457,950 |
| 36. | ENDING INVENTORY: | | | | | | | |
| 37. | UNITS (TONS) | 665,571 | 662,537 | 661,101 | 611,211 | 620,470 | 584,497 | 584,497 |
| 38. | UNIT COST ($/TON) | 74.23 | 75.27 | 75.52 | 75.67 | 76.12 | 76.74 | 76.74 |
| 39. | AMOUNT ($) | 49,405,458 | 49,867,704 | 49,926,750 | 46,250,252 | 47,232,051 | 44,853,919 | 44,853,919 |
| 40. | DAYS SUPPLY: | 46 | 47 | 47 | 41 | 43 | 47 | - |
| | **NATURAL GAS** | | | | | | | |
| 41. | PURCHASES: | | | | | | | |
| 42. | UNITS (MCF) | 7,018,663 | 7,263,763 | 6,132,100 | 5,468,437 | 2,928,937 | 3,388,000 | 65,094,833 |
| 43. | UNIT COST ($/MCF) | 7.73 | 7.58 | 7.74 | 7.76 | 8.36 | 8.59 | 7.70 |
| 44. | AMOUNT ($) | 54,277,439 | 55,075,917 | 47,465,151 | 42,424,704 | 24,489,224 | 29,106,073 | 501,084,338 |
| 45. | BURNED: | | | | | | | |
| 46. | UNITS (MCF) | 6,785,200 | 7,030,300 | 6,132,100 | 5,701,900 | 3,162,400 | 3,388,000 | 64,924,600 |
| 47. | UNIT COST ($/MCF) | 7.77 | 7.62 | 7.72 | 7.66 | 8.17 | 8.55 | 7.69 |
| 48. | AMOUNT ($) | 52,741,535 | 53,543,301 | 47,367,734 | 43,695,973 | 25,831,472 | 28,969,873 | 499,243,978 |
| 49. | ENDING INVENTORY: | | | | | | | |
| 50. | UNITS (MCF) | 817,121 | 1,050,584 | 1,050,584 | 817,121 | 583,657 | 583,657 | 583,657 |
| 51. | UNIT COST ($/MCF) | 6.34 | 6.39 | 6.48 | 6.78 | 7.19 | 7.43 | 0.00 |
| 52. | AMOUNT ($) | 5,181,204 | 6,713,820 | 6,811,236 | 5,539,968 | 4,197,720 | 4,333,920 | 4,333,920 |
| 53. | DAYS SUPPLY: | 5 | 6 | 6 | 5 | 4 | 4 | - |
| | **NUCLEAR** | | | | | | | |
| 54. | BURNED: | | | | | | | |
| 55. | UNITS (MMBTU) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 56. | UNIT COST ($/MMBTU) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 57. | AMOUNT ($) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | **OTHER** | | | | | | | |
| 58. | PURCHASES: | | | | | | | |
| 59. | UNITS (MMBTU) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 60. | UNIT COST ($/MMBTU) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 61. | AMOUNT ($) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62. | BURNED: | | | | | | | |
| 63. | UNITS (MMBTU) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 64. | UNIT COST ($/MMBTU) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65. | AMOUNT ($) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 66. | ENDING INVENTORY: | | | | | | | |
| 67. | UNITS (MMBTU) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68. | UNIT COST ($/MMBTU) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 69. | AMOUNT ($) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70. | DAYS SUPPLY: | 0 | 0 | 0 | 0 | 0 | 0 | - |

NOTE: BEGINNING & ENDING INVENTORIES MAY NOT BALANCE BECAUSE OF THE FOLLOWING
(1) LIGHT OIL-OTHER USAGE NOT INCLUDED. (2) COAL-ADDITIVES, IGNITOR AND/OR INVENTORY ADJUSTMENT ARE INCLUDED.

TAMPA ELECTRIC COMPANY
POWER SOLD
ESTIMATED FOR THE PERIOD: JANUARY 2010 THROUGH JUNE 2010

SCHEDULE E6

| (1) MONTH | (2) SOLD TO | | (3) TYPE & SCHEDULE | (4) TOTAL MWH SOLD | (5) MWH WHEELED FROM OTHER SYSTEMS | (6) MWH FROM OWN GENERATION | (7) CENTS/KWH (A) FUEL COST | (7) CENTS/KWH (B) TOTAL COST | (8) TOTAL $ FOR FUEL ADJUSTMENT | (9) TOTAL COST $ | (10) GAINS ON SALES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan-10 | SEMINOLE | JURISD. | SCH. -D | 1,063.0 | 0.0 | 1,063.0 | 4.544 | 4.995 | 48,300.00 | 53,100.00 | 4,800.00 |
| | VARIOUS | JURISD. | MKT. BASE | 9,556.0 | 0.0 | 9,556.0 | 4.885 | 6.981 | 466,800.00 | 667,100.00 | 164,000.00 |
| | TOTAL | | | 10,619.0 | 0.0 | 10,619.0 | 4.851 | 6.782 | 515,100.00 | 720,200.00 | 168,800.00 |
| Feb-10 | SEMINOLE | JURISD. | SCH. -D | 847.0 | 0.0 | 847.0 | 4.522 | 4.970 | 38,300.00 | 42,100.00 | 3,800.00 |
| | VARIOUS | JURISD. | MKT. BASE | 7,905.0 | 0.0 | 7,905.0 | 5.022 | 7.094 | 397,000.00 | 560,800.00 | 133,800.00 |
| | TOTAL | | | 8,752.0 | 0.0 | 8,752.0 | 4.974 | 6.889 | 435,300.00 | 602,900.00 | 137,600.00 |
| Mar-10 | SEMINOLE | JURISD. | SCH. -D | 1,152.0 | 0.0 | 1,152.0 | 4.549 | 5.009 | 52,400.00 | 57,700.00 | 5,300.00 |
| | VARIOUS | JURISD. | MKT. BASE | 8,266.0 | 0.0 | 8,266.0 | 4.886 | 7.316 | 403,900.00 | 604,700.00 | 169,400.00 |
| | TOTAL | | | 9,418.0 | 0.0 | 9,418.0 | 4.845 | 7.033 | 456,300.00 | 662,400.00 | 174,700.00 |
| Apr-10 | SEMINOLE | JURISD. | SCH. -D | 1,409.0 | 0.0 | 1,409.0 | 4.698 | 5.174 | 66,200.00 | 72,900.00 | 6,700.00 |
| | VARIOUS | JURISD. | MKT. BASE | 5,401.0 | 0.0 | 5,401.0 | 5.010 | 7.038 | 270,600.00 | 380,100.00 | 89,000.00 |
| | TOTAL | | | 6,810.0 | 0.0 | 6,810.0 | 4.946 | 6.652 | 336,800.00 | 453,000.00 | 95,700.00 |
| May-10 | SEMINOLE | JURISD. | SCH. -D | 1,576.0 | 0.0 | 1,576.0 | 4.816 | 5.298 | 75,900.00 | 83,500.00 | 7,600.00 |
| | VARIOUS | JURISD. | MKT. BASE | 6,791.0 | 0.0 | 6,791.0 | 4.939 | 7.086 | 335,400.00 | 481,200.00 | 120,000.00 |
| | TOTAL | | | 8,367.0 | 0.0 | 8,367.0 | 4.916 | 6.749 | 411,300.00 | 564,700.00 | 127,600.00 |
| Jun-10 | SEMINOLE | JURISD. | SCH. -D | 1,468.0 | 0.0 | 1,468.0 | 4.877 | 5.368 | 71,600.00 | 78,800.00 | 7,200.00 |
| | VARIOUS | JURISD. | MKT. BASE | 13,931.0 | 0.0 | 13,931.0 | 4.998 | 6.502 | 696,300.00 | 905,800.00 | 156,600.00 |
| | TOTAL | | | 15,399.0 | 0.0 | 15,399.0 | 4.987 | 6.394 | 767,900.00 | 984,600.00 | 163,800.00 |

SCHEDULE E6

TAMPA ELECTRIC COMPANY
POWER SOLD
ESTIMATED FOR THE PERIOD: JULY 2010 THROUGH DECEMBER 2010

| (1) MONTH | (2) SOLD TO | | (3) TYPE & SCHEDULE | (4) TOTAL MWH SOLD | (5) MWH WHEELED FROM OTHER SYSTEMS | (6) MWH FROM OWN GENERATION | (7) CENTS/KWH (A) FUEL COST | (7) CENTS/KWH (B) TOTAL COST | (8) TOTAL $ FOR FUEL ADJUSTMENT | (9) TOTAL COST $ | (10) GAINS ON SALES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Jul-10 | SEMINOLE | JURISD. | SCH. -D | 1,566.0 | 0.0 | 1,566.0 | 4.987 | 5.485 | 78,100.00 | 85,900.00 | 7,800.00 |
| | VARIOUS | JURISD. | MKT. BASE | 17,163.0 | 0.0 | 17,163.0 | 5.158 | 6.667 | 885,200.00 | 1,144,200.00 | 193,800.00 |
| | **TOTAL** | | | **18,729.0** | **0.0** | **18,729.0** | **5.143** | **6.568** | **963,300.00** | **1,230,100.00** | **201,600.00** |
| Aug-10 | SEMINOLE | JURISD. | SCH. -D | 1,556.0 | 0.0 | 1,556.0 | 5.071 | 5.578 | 78,900.00 | 86,800.00 | 7,900.00 |
| | VARIOUS | JURISD. | MKT. BASE | 17,300.0 | 0.0 | 17,300.0 | 5.240 | 6.773 | 906,600.00 | 1,171,800.00 | 199,500.00 |
| | **TOTAL** | | | **18,856.0** | **0.0** | **18,856.0** | **5.226** | **6.675** | **985,500.00** | **1,258,600.00** | **207,400.00** |
| Sep-10 | SEMINOLE | JURISD. | SCH. -D | 1,399.0 | 0.0 | 1,399.0 | 5.089 | 5.604 | 71,200.00 | 78,400.00 | 7,200.00 |
| | VARIOUS | JURISD. | MKT. BASE | 17,636.0 | 0.0 | 17,636.0 | 5.209 | 6.790 | 918,600.00 | 1,197,500.00 | 211,900.00 |
| | **TOTAL** | | | **19,035.0** | **0.0** | **19,035.0** | **5.200** | **6.703** | **989,800.00** | **1,275,900.00** | **219,100.00** |
| Oct-10 | SEMINOLE | JURISD. | SCH. -D | 995.0 | 0.0 | 995.0 | 5.085 | 5.598 | 50,600.00 | 55,700.00 | 5,100.00 |
| | VARIOUS | JURISD. | MKT. BASE | 15,889.0 | 0.0 | 15,889.0 | 5.227 | 6.515 | 830,500.00 | 1,035,200.00 | 144,300.00 |
| | **TOTAL** | | | **16,884.0** | **0.0** | **16,884.0** | **5.219** | **6.461** | **881,100.00** | **1,090,900.00** | **149,400.00** |
| Nov-10 | SEMINOLE | JURISD. | SCH. -D | 847.0 | 0.0 | 847.0 | 4.982 | 5.478 | 42,200.00 | 46,400.00 | 4,200.00 |
| | VARIOUS | JURISD. | MKT. BASE | 13,484.0 | 0.0 | 13,484.0 | 5.404 | 7.337 | 728,700.00 | 989,300.00 | 209,400.00 |
| | **TOTAL** | | | **14,331.0** | **0.0** | **14,331.0** | **5.379** | **7.227** | **770,900.00** | **1,035,700.00** | **213,600.00** |
| Dec-10 | SEMINOLE | JURISD. | SCH. -D | 847.0 | 0.0 | 847.0 | 4.888 | 5.275 | 41,400.00 | 44,680.00 | 3,280.00 |
| | VARIOUS | JURISD. | MKT. BASE | 16,138.0 | 0.0 | 16,138.0 | 5.563 | 7.554 | 897,700.00 | 1,219,000.00 | 238,560.00 |
| | **TOTAL** | | | **16,985.0** | **0.0** | **16,985.0** | **5.529** | **7.440** | **939,100.00** | **1,263,680.00** | **241,840.00** |
| TOTAL | SEMINOLE | JURISD. | SCH. -D | 14,725.0 | 0.0 | 14,725.0 | 4.856 | 5.338 | 715,100.00 | 785,980.00 | 70,880.00 |
| Jan-10 | VARIOUS | JURISD. | MKT. BASE | 149,460.0 | 0.0 | 149,460.0 | 5.177 | 6.929 | 7,737,300.00 | 10,356,700.00 | 2,030,260.00 |
| THRU | | | | | | | | | | | |
| Dec-10 | **TOTAL** | | | **164,185.0** | **0.0** | **164,185.0** | **5.148** | **6.787** | **8,452,400.00** | **11,142,680.00** | **2,101,140.00** |

TAMPA ELECTRIC COMPANY
PURCHASED POWER
EXCLUSIVE OF ECONOMY AND QUALIFYING FACILITIES
ESTIMATED FOR THE PERIOD: JANUARY 2010 THROUGH JUNE 2010

SCHEDULE E7

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | | (9) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | MWH | MWH | | CENTS/KWH | | |
| MONTH | PURCHASED FROM | TYPE & SCHEDULE | TOTAL MWH PURCHASED | FOR OTHER UTILITIES | FOR INTERRUP-TIBLE | MWH FOR FIRM | (A) FUEL COST | (B) TOTAL COST | TOTAL $ FOR FUEL ADJUSTMENT |
| Jan-10 | | | | | | | | | |
| | HPP | IPP | 11,398.0 | 0.0 | 0.0 | 11,398.0 | 8.915 | 8.915 | 1,016,100.00 |
| | CALPINE | SCH. D | 50.0 | 0.0 | 0.0 | 50.0 | 10.200 | 10.200 | 5,100.00 |
| | RELIANT | SCH. D | 6,734.0 | 0.0 | 0.0 | 6,734.0 | 10.560 | 10.560 | 711,100.00 |
| | PASCO COGEN | SCH. D | 8,294.0 | 0.0 | 0.0 | 8,294.0 | 7.011 | 7.011 | 581,500.00 |
| | **TOTAL** | | **26,476.0** | **0.0** | **0.0** | **26,476.0** | **8.739** | **8.739** | **2,313,800.00** |
| Feb-10 | | | | | | | | | |
| | HPP | IPP | 8,907.0 | 0.0 | 0.0 | 8,907.0 | 8.667 | 8.667 | 772,000.00 |
| | CALPINE | SCH. D | 4.0 | 0.0 | 0.0 | 4.0 | 10.000 | 10.000 | 400.00 |
| | RELIANT | SCH. D | 6,476.0 | 0.0 | 0.0 | 6,476.0 | 9.531 | 9.531 | 617,200.00 |
| | PASCO COGEN | SCH. D | 7,649.0 | 0.0 | 0.0 | 7,649.0 | 6.529 | 6.529 | 499,400.00 |
| | **TOTAL** | | **23,036.0** | **0.0** | **0.0** | **23,036.0** | **8.200** | **8.200** | **1,889,000.00** |
| Mar-10 | | | | | | | | | |
| | HPP | IPP | 1,819.0 | 0.0 | 0.0 | 1,819.0 | 13.606 | 13.606 | 247,500.00 |
| | CALPINE | SCH. D | 22.0 | 0.0 | 0.0 | 22.0 | 9.091 | 9.091 | 2,000.00 |
| | RELIANT | SCH. D | 2,127.0 | 0.0 | 0.0 | 2,127.0 | 8.547 | 8.547 | 181,800.00 |
| | PASCO COGEN | SCH. D | 10,963.0 | 0.0 | 0.0 | 10,963.0 | 6.641 | 6.641 | 728,100.00 |
| | **TOTAL** | | **14,931.0** | **0.0** | **0.0** | **14,931.0** | **7.765** | **7.765** | **1,159,400.00** |
| Apr-10 | | | | | | | | | |
| | HPP | IPP | 15,365.0 | 0.0 | 0.0 | 15,365.0 | 7.896 | 7.896 | 1,213,200.00 |
| | CALPINE | SCH. D | 72.0 | 0.0 | 0.0 | 72.0 | 8.889 | 8.889 | 6,400.00 |
| | RELIANT | SCH. D | 3,729.0 | 0.0 | 0.0 | 3,729.0 | 8.040 | 8.040 | 299,800.00 |
| | PASCO COGEN | SCH. D | 14,107.0 | 0.0 | 0.0 | 14,107.0 | 6.413 | 6.413 | 904,700.00 |
| | **TOTAL** | | **33,273.0** | **0.0** | **0.0** | **33,273.0** | **7.285** | **7.285** | **2,424,100.00** |
| May-10' | | | | | | | | | |
| | HPP | IPP | 22,396.0 | 0.0 | 0.0 | 22,396.0 | 7.802 | 7.802 | 1,747,400.00 |
| | CALPINE | SCH. D | 128.0 | 0.0 | 0.0 | 128.0 | 12.266 | 12.266 | 15,700.00 |
| | RELIANT | SCH. D | 10,928.0 | 0.0 | 0.0 | 10,928.0 | 9.230 | 9.230 | 1,008,600.00 |
| | PASCO COGEN | SCH. D | 18,574.0 | 0.0 | 0.0 | 18,574.0 | 6.583 | 6.583 | 1,222,700.00 |
| | **TOTAL** | | **52,026.0** | **0.0** | **0.0** | **52,026.0** | **7.678** | **7.678** | **3,994,400.00** |
| Jun-10 | | | | | | | | | |
| | HPP | IPP | 31,947.0 | 0.0 | 0.0 | 31,947.0 | 7.352 | 7.352 | 2,348,600.00 |
| | CALPINE | SCH. D | 3,293.0 | 0.0 | 0.0 | 3,293.0 | 9.441 | 9.441 | 310,900.00 |
| | RELIANT | SCH. D | 8,431.0 | 0.0 | 0.0 | 8,431.0 | 9.619 | 9.619 | 811,000.00 |
| | PASCO COGEN | SCH. D | 24,036.0 | 0.0 | 0.0 | 24,036.0 | 6.684 | 6.684 | 1,606,500.00 |
| | **TOTAL** | | **67,707.0** | **0.0** | **0.0** | **67,707.0** | **7.498** | **7.498** | **5,077,000.00** |

TAMPA ELECTRIC COMPANY
PURCHASED POWER
EXCLUSIVE OF ECONOMY AND QUALIFYING FACILITIES
ESTIMATED FOR THE PERIOD: JULY 2010 THROUGH DECEMBER 2010

SCHEDULE E7

| (1) MONTH | (2) PURCHASED FROM | (3) TYPE & SCHEDULE | (4) TOTAL MWH PURCHASED | (5) MWH FOR OTHER UTILITIES | (6) MWH FOR INTERRUP-TIBLE | (7) MWH FOR FIRM | (8) CENTS/KWH (A) FUEL COST | (8) CENTS/KWH (B) TOTAL COST | (9) TOTAL $ FOR FUEL ADJUSTMENT |
|---|---|---|---|---|---|---|---|---|---|
| Jul-10 | | | | | | | | | |
| | HPP | IPP | 41,039.0 | 0.0 | 0.0 | 41,039.0 | 7.506 | 7.506 | 3,080,500.00 |
| | CALPINE | SCH. D | 3,277.0 | 0.0 | 0.0 | 3,277.0 | 9.582 | 9.582 | 314,000.00 |
| | RELIANT | SCH. D | 8,495.0 | 0.0 | 0.0 | 8,495.0 | 9.843 | 9.843 | 836,200.00 |
| | PASCO COGEN | SCH. D | 28,599.0 | 0.0 | 0.0 | 28,599.0 | 6.779 | 6.779 | 1,938,800.00 |
| | **TOTAL** | | **81,410.0** | **0.0** | **0.0** | **81,410.0** | **7.578** | **7.578** | **6,169,500.00** |
| Aug-10 | | | | | | | | | |
| | HPP | IPP | 43,912.0 | 0.0 | 0.0 | 43,912.0 | 7.619 | 7.619 | 3,345,800.00 |
| | CALPINE | SCH. D | 3,793.0 | 0.0 | 0.0 | 3,793.0 | 9.383 | 9.383 | 355,900.00 |
| | RELIANT | SCH. D | 9,207.0 | 0.0 | 0.0 | 9,207.0 | 9.562 | 9.562 | 880,400.00 |
| | PASCO COGEN | SCH. D | 30,925.0 | 0.0 | 0.0 | 30,925.0 | 6.647 | 6.647 | 2,055,600.00 |
| | **TOTAL** | | **87,837.0** | **0.0** | **0.0** | **87,837.0** | **7.557** | **7.557** | **6,637,700.00** |
| Sep-10 | | | | | | | | | |
| | HPP | IPP | 23,593.0 | 0.0 | 0.0 | 23,593.0 | 7.964 | 7.964 | 1,878,900.00 |
| | CALPINE | SCH. D | 5,256.0 | 0.0 | 0.0 | 5,256.0 | 9.477 | 9.477 | 498,100.00 |
| | RELIANT | SCH. D | 3,490.0 | 0.0 | 0.0 | 3,490.0 | 8.779 | 8.779 | 306,400.00 |
| | PASCO COGEN | SCH. D | 18,362.0 | 0.0 | 0.0 | 18,362.0 | 6.753 | 6.753 | 1,239,900.00 |
| | **TOTAL** | | **50,701.0** | **0.0** | **0.0** | **50,701.0** | **7.738** | **7.738** | **3,923,300.00** |
| Oct-10 | | | | | | | | | |
| | HPP | IPP | 15,879.0 | 0.0 | 0.0 | 15,879.0 | 8.237 | 8.237 | 1,307,900.00 |
| | CALPINE | SCH. D | 123.0 | 0.0 | 0.0 | 123.0 | 12.520 | 12.520 | 15,400.00 |
| | RELIANT | SCH. D | 10,049.0 | 0.0 | 0.0 | 10,049.0 | 9.394 | 9.394 | 944,000.00 |
| | PASCO COGEN | SCH. D | 12,252.0 | 0.0 | 0.0 | 12,252.0 | 6.712 | 6.712 | 822,400.00 |
| | **TOTAL** | | **38,303.0** | **0.0** | **0.0** | **38,303.0** | **8.066** | **8.066** | **3,089,700.00** |
| Nov-10 | | | | | | | | | |
| | HPP | IPP | 1,309.0 | 0.0 | 0.0 | 1,309.0 | 17.257 | 17.257 | 225,900.00 |
| | CALPINE | SCH. D | 0.0 | 0.0 | 0.0 | 0.0 | 0.000 | 0.000 | 0.00 |
| | RELIANT | SCH. D | 633.0 | 0.0 | 0.0 | 633.0 | 10.095 | 10.095 | 63,900.00 |
| | PASCO COGEN | SCH. D | 7,812.0 | 0.0 | 0.0 | 7,812.0 | 7.174 | 7.174 | 560,400.00 |
| | **TOTAL** | | **9,754.0** | **0.0** | **0.0** | **9,754.0** | **8.716** | **8.716** | **850,200.00** |
| Dec-10 | | | | | | | | | |
| | HPP | IPP | 466.0 | 0.0 | 0.0 | 466.0 | 35.579 | 35.579 | 165,800.00 |
| | CALPINE | SCH. D | 2.0 | 0.0 | 0.0 | 2.0 | 10.000 | 10.000 | 200.00 |
| | RELIANT | SCH. D | 175.0 | 0.0 | 0.0 | 175.0 | 9.086 | 9.086 | 15,900.00 |
| | PASCO COGEN | SCH. D | 1,554.0 | 0.0 | 0.0 | 1,554.0 | 7.394 | 7.394 | 114,900.00 |
| | **TOTAL** | | **2,197.0** | **0.0** | **0.0** | **2,197.0** | **13.509** | **13.509** | **296,800.00** |
| **TOTAL** | HPP | IPP | 218,030.0 | 0.0 | 0.0 | 218,030.0 | 7.957 | 7.957 | 17,349,600.00 |
| **Jan-10** | CALPINE | SCH. D | 16,020.0 | 0.0 | 0.0 | 16,020.0 | 9.514 | 9.514 | 1,524,100.00 |
| **THRU** | RELIANT | SCH. D | 70,474.0 | 0.0 | 0.0 | 70,474.0 | 9.473 | 9.473 | 6,676,300.00 |
| **Dec-10** | PASCO COGEN | SCH. D | 183,127.0 | 0.0 | 0.0 | 183,127.0 | 6.703 | 6.703 | 12,274,900.00 |
| | **TOTAL** | | **487,651.0** | **0.0** | **0.0** | **487,651.0** | **7.757** | **7.757** | **37,824,900.00** |

**TAMPA ELECTRIC COMPANY**
**ENERGY PAYMENT TO QUALIFYING FACILITIES**
**ESTIMATED FOR THE PERIOD: JANUARY 2010 THROUGH DECEMBER 2010**

SCHEDULE E8

| (1) MONTH | (2) PURCHASED FROM | (3) TYPE & SCHEDULE | (4) TOTAL MWH PURCHASED | (5) MWH FOR OTHER UTILITIES | (6) MWH FOR INTERRUP-TIBLE | (7) MWH FOR FIRM | (8) CENTS/KWH (A) FUEL COST | (8) CENTS/KWH (B) TOTAL COST | (9) TOTAL $ FOR FUEL ADJUST-MENT |
|---|---|---|---|---|---|---|---|---|---|
| Jan-10 | VARIOUS | CO-GEN. | 44,728.0 | 0.0 | 0.0 | 44,728.0 | 3.467 | 3.467 | 1,550,500.00 |
| Feb-10 | VARIOUS | CO-GEN. | 40,399.0 | 0.0 | 0.0 | 40,399.0 | 4.544 | 4.544 | 1,835,700.00 |
| Mar-10 | VARIOUS | CO-GEN. | 44,728.0 | 0.0 | 0.0 | 44,728.0 | 3.946 | 3.946 | 1,765,100.00 |
| Apr-10 | VARIOUS | CO-GEN. | 45,186.0 | 0.0 | 0.0 | 45,186.0 | 4.436 | 4.436 | 2,004,300.00 |
| May-10 | VARIOUS | CO-GEN. | 46,699.0 | 0.0 | 0.0 | 46,699.0 | 4.486 | 4.486 | 2,095,100.00 |
| Jun-10 | VARIOUS | CO-GEN. | 45,186.0 | 0.0 | 0.0 | 45,186.0 | 4.519 | 4.519 | 2,041,800.00 |
| Jul-10 | VARIOUS | CO-GEN. | 46,699.0 | 0.0 | 0.0 | 46,699.0 | 4.589 | 4.589 | 2,142,900.00 |
| Aug-10 | VARIOUS | CO-GEN. | 46,699.0 | 0.0 | 0.0 | 46,699.0 | 4.956 | 4.956 | 2,314,500.00 |
| Sep-10 | VARIOUS | CO-GEN. | 45,186.0 | 0.0 | 0.0 | 45,186.0 | 5.424 | 5.424 | 2,451,000.00 |
| Oct-10 | VARIOUS | CO-GEN. | 46,699.0 | 0.0 | 0.0 | 46,699.0 | 4.505 | 4.505 | 2,103,900.00 |
| Nov-10 | VARIOUS | CO-GEN. | 43,278.0 | 0.0 | 0.0 | 43,278.0 | 4.295 | 4.295 | 1,858,600.00 |
| Dec-10 | VARIOUS | CO-GEN. | 44,728.0 | 0.0 | 0.0 | 44,728.0 | 4.355 | 4.355 | 1,948,000.00 |
| **TOTAL** | | | **540,215.0** | **0.0** | **0.0** | **540,215.0** | **4.463** | **4.463** | **24,111,400.00** |

50

TAMPA ELECTRIC COMPANY
ECONOMY ENERGY PURCHASES
ESTIMATED FOR THE PERIOD: JANUARY 2010 THROUGH DECEMBER 2010

SCHEDULE E9

| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | | (10) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | COST IF GENERATED | | |
| MONTH | PURCHASED FROM | TYPE & SCHEDULE | TOTAL MWH PURCHASED | MWH FOR INTERRUP-TIBLE | MWH FOR FIRM | TRANSACT. COST cents/KWH | TOTAL $ FOR FUEL ADJUSTMENT | (A) CENTS PER KWH | (B) ($000) | FUEL SAVINGS (9B)-(8) |
| Jan-10 | VARIOUS | SCH. - J | 39,908.0 | 6.0 | 39,902.0 | 3.491 | 1,393,000.00 | 3.491 | 1,393,000.00 | 0.00 |
| Feb-10 | VARIOUS | SCH. - J | 33,397.0 | 0.0 | 33,397.0 | 3.432 | 1,146,300.00 | 3.432 | 1,146,300.00 | 0.00 |
| Mar-10 | VARIOUS | SCH. - J | 43,427.0 | 3.0 | 43,424.0 | 3.450 | 1,498,400.00 | 3.450 | 1,498,400.00 | 0.00 |
| Apr-10 | VARIOUS | SCH. - J | 49,223.0 | 14.0 | 49,209.0 | 3.451 | 1,698,800.00 | 3.451 | 1,698,800.00 | 0.00 |
| May-10 | VARIOUS | SCH. - J | 43,582.0 | 22.0 | 43,560.0 | 3.849 | 1,677,500.00 | 3.849 | 1,677,500.00 | 0.00 |
| Jun-10 | VARIOUS | SCH. - J | 35,607.0 | 81.0 | 35,526.0 | 3.961 | 1,410,400.00 | 3.961 | 1,410,400.00 | 0.00 |
| Jul-10 | VARIOUS | SCH. - J | 27,424.0 | 150.0 | 27,274.0 | 4.335 | 1,188,700.00 | 4.335 | 1,188,700.00 | 0.00 |
| Aug-10 | VARIOUS | SCH. - J | 25,932.0 | 189.0 | 25,743.0 | 4.364 | 1,131,600.00 | 4.364 | 1,131,600.00 | 0.00 |
| Sep-10 | VARIOUS | SCH. - J | 34,663.0 | 105.0 | 34,558.0 | 4.054 | 1,405,100.00 | 4.054 | 1,405,100.00 | 0.00 |
| Oct-10 | VARIOUS | SCH. - J | 47,073.0 | 19.0 | 47,054.0 | 3.548 | 1,670,000.00 | 3.548 | 1,670,000.00 | 0.00 |
| Nov-10 | VARIOUS | SCH. - J | 44,729.0 | 0.0 | 44,729.0 | 3.287 | 1,470,200.00 | 3.287 | 1,470,200.00 | 0.00 |
| Dec-10 | VARIOUS | SCH. - J | 41,086.0 | 0.0 | 41,086.0 | 3.402 | 1,397,900.00 | 3.402 | 1,397,900.00 | 0.00 |
| TOTAL | | | 466,051.0 | 589.0 | 465,462.0 | 3.667 | 17,087,900.00 | 3.667 | 17,087,900.00 | 0.00 |

51

**TAMPA ELECTRIC COMPANY**
**RESIDENTIAL BILL COMPARISON**
**FOR MONTHLY USAGE OF 1,000 KWH**

| | Current Aug 09 - Dec 09 | Projected Jan 10 - Dec 10 | Difference $ | Difference % |
|---|---|---|---|---|
| Base Rate Revenue | 53.96 | 55.92 * | 1.96 | 4% |
| Fuel Recovery Revenue | 47.99 | 41.67 | (6.32) | -13% |
| Conservation Revenue | 2.21 | 2.54 | 0.33 | 15% |
| Capacity Revenue | 5.41 | 5.39 | (0.02) | 0% |
| Environmental Revenue | 2.23 | 4.86 | 2.63 | 118% |
| Florida Gross Receipts Tax Revenue | 2.87 | 2.83 | (0.04) | -1% |
| **TOTAL REVENUE** | **$114.67** | **$113.21** | **($1.46)** | **-1%** |

* Reflects Commission approved Base Rate step increase effective January 2010 regarding the five combustion turbines and the Big Bend rail facilities investment as reflected in Order No. PSC-09-0283-FOF-EI, issued April 30, 2009.

52

SCHEDULE H1

**TAMPA ELECTRIC COMPANY**
**GENERATING SYSTEM COMPARATIVE DATA BY FUEL TYPE**
**PERIOD: JANUARY THROUGH DECEMBER**

| | ACTUAL 2007 | ACTUAL 2008 | ACT/EST 2009 | EST 2010 | DIFFERENCE (%) 2008-2007 | 2009-2008 | 2010-2009 |
|---|---|---|---|---|---|---|---|
| **FUEL COST OF SYSTEM NET GENERATION ($)** | | | | | | | |
| 1 HEAVY OIL [1] | 3,349,154 | 3,030,195 | 2,854,011 | 173,741 | -9.5% | -5.8% | -93.9% |
| 2 LIGHT OIL [1] | 5,982,308 | 7,265,628 | 7,641,063 | 7,601,966 | 21.5% | 5.2% | -0.5% |
| 3 COAL | 279,047,089 | 316,207,516 | 309,602,128 | 359,457,950 | 13.3% | -2.1% | 16.1% |
| 4 NATURAL GAS | 564,372,794 | 593,652,315 | 539,808,873 | 499,243,978 | 5.2% | -9.1% | -7.5% |
| 5 NUCLEAR | 0 | 0 | 0 | 0 | 0.0% | 0.0% | 0.0% |
| 6 OTHER | 0 | 0 | 0 | 0 | 0.0% | 0.0% | 0.0% |
| 7 TOTAL ($) | 852,751,345 | 920,155,654 | 859,906,075 | 866,477,635 | 7.9% | -6.5% | 0.8% |
| **SYSTEM NET GENERATION (MWH)** | | | | | | | |
| 8 HEAVY OIL [1] | 31,654 | 18,437 | 23,454 | 1,513 | -41.8% | 27.2% | -93.5% |
| 9 LIGHT OIL [1] | 35,850 | 33,159 | 44,815 | 47,858 | -7.5% | 35.2% | 6.8% |
| 10 COAL | 10,191,034 | 10,193,095 | 9,459,118 | 10,484,588 | 0.0% | -7.2% | 10.8% |
| 11 NATURAL GAS | 7,898,666 | 7,535,297 | 9,174,991 | 8,915,816 | -4.6% | 21.8% | -2.8% |
| 12 NUCLEAR | 0 | 0 | 0 | 0 | 0.0% | 0.0% | 0.0% |
| 13 OTHER | 0 | 0 | 0 | 0 | 0.0% | 0.0% | 0.0% |
| 14 TOTAL (MWH) | 18,157,204 | 17,779,988 | 18,702,378 | 19,449,775 | -2.1% | 5.2% | 4.0% |
| **UNITS OF FUEL BURNED** | | | | | | | |
| 15 HEAVY OIL (BBL) [1] | 51,196 | 31,690 | 37,498 | 2,359 | -38.1% | 18.3% | -93.7% |
| 16 LIGHT OIL (BBL) [1] | 68,219 | 60,655 | 125,559 | 189,061 | -11.1% | 107.0% | 50.6% |
| 17 COAL (TON) | 4,656,469 | 4,621,065 | 4,323,070 | 4,751,876 | -0.8% | -6.4% | 9.9% |
| 18 NATURAL GAS (MCF) | 57,556,159 | 54,408,485 | 67,140,214 | 64,924,600 | -5.5% | 23.4% | -3.3% |
| 19 NUCLEAR (MMBTU) | 0 | 0 | 0 | 0 | 0.0% | 0.0% | 0.0% |
| 20 OTHER | 0 | 0 | 0 | 0 | 0.0% | 0.0% | 0.0% |
| **BTUS BURNED (MMBTU)** | | | | | | | |
| 21 HEAVY OIL [1] | 321,178 | 198,802 | 235,765 | 14,807 | -38.1% | 18.6% | -93.7% |
| 22 LIGHT OIL [1] | 372,134 | 327,063 | 457,223 | 503,326 | -12.1% | 39.8% | 10.1% |
| 23 COAL | 109,855,092 | 109,791,173 | 101,185,059 | 111,406,265 | -0.1% | -7.8% | 10.1% |
| 24 NATURAL GAS | 59,377,743 | 56,000,801 | 68,938,299 | 66,741,275 | -5.7% | 23.1% | -3.2% |
| 25 NUCLEAR | 0 | 0 | 0 | 0 | 0.0% | 0.0% | 0.0% |
| 26 OTHER | 0 | 0 | 0 | 0 | 0.0% | 0.0% | 0.0% |
| 27 TOTAL (MMBTU) | 169,926,147 | 166,317,839 | 170,816,345 | 178,665,673 | -2.1% | 2.7% | 4.6% |
| **GENERATION MIX (% MWH)** | | | | | | | |
| 28 HEAVY OIL [1] | 0.17 | 0.10 | 0.13 | 0.01 | -41.2% | 30.0% | -92.3% |
| 29 LIGHT OIL [1] | 0.20 | 0.19 | 0.24 | 0.25 | -5.0% | 26.3% | 4.2% |
| 30 COAL | 56.13 | 57.33 | 50.57 | 53.90 | 2.1% | -11.8% | 6.6% |
| 31 NATURAL GAS | 43.50 | 42.38 | 49.06 | 45.84 | -2.6% | 15.8% | -6.6% |
| 32 NUCLEAR | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% | 0.0% | 0.0% |
| 33 OTHER | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% | 0.0% | 0.0% |
| 34 TOTAL ( % ) | 100.00 | 100.00 | 100.00 | 100.00 | 0.0% | 0.0% | 0.0% |
| **FUEL COST PER UNIT** | | | | | | | |
| 35 HEAVY OIL ($/BBL) [1] | 65.42 | 95.62 | 76.11 | 73.65 | 46.2% | -20.4% | -3.2% |
| 36 LIGHT OIL ($/BBL) [1] | 87.69 | 119.79 | 60.86 | 40.21 | 36.6% | -49.2% | -33.9% |
| 37 COAL ($/TON) | 59.93 | 68.43 | 71.62 | 75.65 | 14.2% | 4.7% | 5.6% |
| 38 NATURAL GAS ($/MCF) | 9.81 | 10.91 | 8.04 | 7.69 | 11.2% | -26.3% | -4.4% |
| 39 NUCLEAR ($/MMBTU) | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% | 0.0% | 0.0% |
| 40 OTHER | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% | 0.0% | 0.0% |
| **FUEL COST PER MMBTU ($/MMBTU)** | | | | | | | |
| 41 HEAVY OIL [1] | 10.43 | 15.24 | 12.11 | 11.73 | 46.1% | -20.5% | -3.1% |
| 42 LIGHT OIL [1] | 16.08 | 22.21 | 16.71 | 15.10 | 38.1% | -24.8% | -9.6% |
| 43 COAL | 2.54 | 2.88 | 3.06 | 3.23 | 13.4% | 6.3% | 5.6% |
| 44 NATURAL GAS | 9.50 | 10.60 | 7.83 | 7.48 | 11.6% | -26.1% | -4.5% |
| 45 NUCLEAR | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% | 0.0% | 0.0% |
| 46 OTHER | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% | 0.0% | 0.0% |
| 47 TOTAL ($/MMBTU) | 5.02 | 5.53 | 5.03 | 4.85 | 10.2% | -9.0% | -3.6% |
| **BTU BURNED PER KWH (BTU/KWH)** | | | | | | | |
| 48 HEAVY OIL [1] | 10,147 | 10,783 | 10,052 | 9,787 | 6.3% | -6.8% | -2.6% |
| 49 LIGHT OIL [1] | 10,380 | 9,863 | 10,202 | 10,517 | -5.0% | 3.4% | 3.1% |
| 50 COAL | 10,780 | 10,771 | 10,697 | 10,626 | -0.1% | -0.7% | -0.7% |
| 51 NATURAL GAS | 7,517 | 7,432 | 7,514 | 7,486 | -1.1% | 1.1% | -0.4% |
| 52 NUCLEAR | 0 | 0 | 0 | 0 | 0.0% | 0.0% | 0.0% |
| 53 OTHER | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% | 0.0% | 0.0% |
| 54 TOTAL (BTU/KWH) | 9,359 | 9,354 | 9,133 | 9,186 | -0.1% | -2.4% | 0.6% |
| **GENERATED FUEL COST PER KWH (cents/KWH)** | | | | | | | |
| 55 HEAVY OIL [1] | 10.58 | 16.44 | 12.17 | 11.48 | 55.4% | -26.0% | -5.7% |
| 56 LIGHT OIL [1] | 16.69 | 21.91 | 17.05 | 15.88 | 31.3% | -22.2% | -6.9% |
| 57 COAL | 2.74 | 3.10 | 3.27 | 3.43 | 13.1% | 5.5% | 4.9% |
| 58 NATURAL GAS | 7.15 | 7.88 | 5.88 | 5.60 | 10.2% | -25.4% | -4.8% |
| 59 NUCLEAR | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% | 0.0% | 0.0% |
| 60 OTHER | 0.00 | 0.00 | 0.00 | 0.00 | 0.0% | 0.0% | 0.0% |
| 61 TOTAL (cents/KWH) | 4.70 | 5.18 | 4.60 | 4.45 | 10.2% | -11.2% | -3.3% |

[1] DISTILLATE (BBLS, MWH & $) USED FOR FIRING, HOT STANDBY, ETC. IS INCLUDED IN FOSSIL STEAM PLANTS.

# EXHIBIT TO THE TESTIMONY OF

# CARLOS ALDAZABAL

## DOCUMENT NO. 3

## LEVELIZED AND TIERED FUEL RATE

## JANUARY 2010 - DECEMBER 2010

## Tampa Electric Company
## Comparison of Levelized and Tiered Fuel Revenues
## For the Period Janury 2010 through December 2010

| | Annual Units MWH | Levelized Fuel Rate Cents/kWh | Annual Fuel Revenues $ | Tiered Fuel Rates Cents/kWh | Annual Fuel Revenues $ |
|---|---|---|---|---|---|
| Residential Excluding TOU: | | | | | |
| TIER I (Up to 1,000) kWh | 5,711,111 | 4.517 | 257,970,866 | 4.167 | 237,981,979 |
| TIER II (Over 1,000) kWh | 3,075,213 | 4.517 | 138,907,389 | 5.167 | 158,896,276 |
| Total | 8,786,324 | | 396,878,255 | | 396,878,255 |

TECO
TAMPA ELECTRIC

BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 090001-EI
IN RE: TAMPA ELECTRIC'S
FUEL & PURCHASED POWER COST RECOVERY
AND CAPACITY COST RECOVERY PROJECTIONS
JANUARY 2010 THROUGH DECEMBER 2010

TESTIMONY AND EXHIBIT
OF
BRIAN S. BUCKLEY

TAMPA ELECTRIC COMPANY
DOCKET NO. 090001-EI
FILED: 9/1/2009

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

**PREPARED DIRECT TESTIMONY**

**OF**

**BRIAN S. BUCKLEY**

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

**A.** My name is Brian S. Buckley. 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, Operations and Performance Planning.

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

**A.** I received a Bachelor of Science degree in Mechanical Engineering in 1997 from the Georgia Institute of Technology and a Master of Business Administration from the University of South Florida in 2003. I began my career with Tampa Electric in 1999 as an Engineer in Plant Technical Services. I have held a number of different engineering positions at Tampa Electric's power generating stations including Operations Engineer

DOCUMENT NUMBER-DATE
09089 SEP-1 8
FPSC-COMMISSION CLERK

at Gannon Station, Instrumentation and Controls Engineer at Big Bend Station, Senior Engineer in Asset Management and Supervisor of Performance Planning and Analysis. In October 2008, I was promoted to Manager, Operations and Performance Planning, where I am currently responsible for unit commitment and reporting of generation statistics.

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

**A.** My testimony describes Tampa Electric's maintenance planning processes and presents Tampa Electric's methodology for determining the various factors required to compute the Generating Performance Incentive Factor ("GPIF") as ordered by the Commission.

**Q.** Have you prepared any exhibits to support your testimony?

**A.** Yes, Exhibit No. ____ (BSB-2), consisting of two documents, was prepared under my direction and supervision. Document No. 1 contains the GPIF schedules. Document No. 2 is a summary of the GPIF targets for the 2010 period.

**Q.** Which generating units on Tampa Electric's system are included in the determination of the GPIF?

**A.** Four of the company's coal-fired units, one integrated gasification combined cycle unit and two natural gas combined cycle units are included. These are Big Bend Units 1 through 4, Polk Unit 1 and Bayside Units 1 and 2.

**Q.** Do the exhibits you prepared comply with Commission-approved GPIF methodology?

**A.** Yes, the documents are consistent with the GPIF Implementation Manual previously approved by the Commission. To account for the concerns presented in the testimony of Commission Staff witness Sidney W. Matlock during the 2005 fuel hearing, Tampa Electric removes outliers from the calculation of the GPIF targets. Section 3.3 of the GPIF Implementation Manual allows for removal of outliers, and the methodology was approved by the Commission in Order No. PSC-06-1057-FOF-EI issued in Docket No. 060001-EI on December 22, 2006.

**Q.** Did Tampa Electric identify any outages as outliers?

A. Yes. One outage from Big Bend Unit 2, one outage from Big Bend Unit 3 and one outage from Big Bend Unit 4 were identified as outlying outages; therefore, the associated forced outage hours were removed from the study.

Q. Please describe how Tampa Electric developed the various factors associated with the GPIF.

A. Targets were established for equivalent availability and heat rate for each unit considered for the 2010 period. A range of potential improvements and degradations were determined for each of these metrics.

Q. How were the target values for unit availability determined?

A. The Planned Outage Factor ("POF") and the Equivalent Unplanned Outage Factor ("EUOF") were subtracted from 100 percent to determine the target Equivalent Availability Factor ("EAF"). The factors for each of the seven units included within the GPIF are shown on page 5 of Document No. 1.

To give an example for the 2010 period, the projected

EUOF for Big Bend Unit 3 is 14.5 percent, and the POF is 8.5 percent. Therefore, the target EAF for Big Bend Unit 3 equals 77.0 percent or:

$$100\% - (14.5\% + 8.5\%) = 77.0\%$$

This is shown on page 4, column 3 of Document No. 1.

**Q.** How was the potential for unit availability improvement determined?

**A.** Maximum equivalent availability is derived by using the following formula:

$$EAF_{MAX} = 1 - [0.8\ (EUOF_T) + 0.95\ (POF_T)]$$

The factors included in the above equations are the same factors that determine the target equivalent availability. To determine the maximum incentive points, a 20 percent reduction in EUOF and Equivalent Maintenance Outage Factor ("EMOF"), plus a five percent reduction in the POF are necessary. Continuing with the Big Bend Unit 3 example:

$$EAF_{MAX} = 1 - [0.8\ (14.5\%) + 0.95\ (8.5\%)] = 80.3\%$$

This is shown on page 4, column 4 of Document No. 1.

**Q.** How was the potential for unit availability degradation determined?

**A.** The potential for unit availability degradation is significantly greater than the potential for unit availability improvement. This concept was discussed extensively during the development of the incentive. To incorporate this biased effect into the unit availability tables, Tampa Electric uses a potential degradation range equal to twice the potential improvement. Consequently, minimum equivalent availability is calculated using the following formula:

$$EAF_{MIN} = 1 - [1.40 \ (EUOF_T) + 1.10 \ (POF_T)]$$

Again, continuing with the Big Bend Unit 3 example,

$$EAF_{MIN} = 1 - [1.40 \ (14.5\%) + 1.10 \ (8.5\%)] = 70.3\%$$

The equivalent availability maximum and minimum for the other six units are computed in a similar manner.

**Q.** How did Tampa Electric determine the Planned Outage, Maintenance Outage, and Forced Outage Factors?

**A.** The company's planned outages for January through December 2010 are shown on page 21 of Document No. 1. Two GPIF units have a major outage of 28 days or greater in 2010; therefore, two Critical Path Method diagrams are provided. Planned Outage Factors are calculated for each unit. For example, Big Bend Unit 2 is scheduled for a planned outage from February 13, 2010 to February 28, 2010. There are 384 planned outage hours scheduled for the 2010 period, and a total of 8,760 hours during this 12-month period. Consequently, the POF for Big Bend Unit 2 is 4.4 percent or:

$$\frac{384}{8,760} \times 100\% = 4.4\%$$

The factor for each unit is shown on pages 5 and 14 through 20 of Document No. 1. Big Bend Unit 1 has a POF of 26.8 percent. Big Bend Unit 2 has a POF of 4.4 percent. Big Bend Unit 3 has a POF of 8.5 percent. Big Bend Unit 4 has a POF of 15.3 percent. Polk Unit 1 has a POF of 3.8 percent. Bayside Unit 1 has a POF of 3.8 percent, and Bayside Unit 2 has a POF of 3.8 percent.

**Q.** How did you determine the Forced Outage and Maintenance Outage Factors for each unit?

**A.** For each unit the most current 12-month ending value, June 2009, was used as a basis for the projection. All projected factors are based upon historical unit performance unless adjusted for outlying forced outages. These target factors are additive and result in a EUOF of 14.5 percent for Big Bend Unit 3. The EUOF for Big Bend Unit 3 is verified by the data shown on page 16, lines 3, 5, 10 and 11 of Document No. 1 and calculated using the following formula:

$$EUOF = \frac{(EFOH + EMOH)}{PH} \times 100\%$$

Or

$$EUOF = \frac{(1{,}007 + 266)}{8{,}760} \times 100\% = 14.5\%$$

Relative to Big Bend Unit 3, the EUOF of 14.5 percent forms the basis of the equivalent availability target development as shown on pages 4 and 5 of Document No. 1.

**Big Bend Unit 1**

The projected EUOF for this unit is 18.7 percent. The unit will have a planned outage in 2010, and the POF is 26.8 percent. Therefore, the target equivalent availability for this unit is 54.4 percent.

**Big Bend Unit 2**

The projected EUOF for this unit is 28.1 percent. The unit will have a planned outage in 2010, and the POF is 4.4 percent. Therefore, the target equivalent availability for this unit is 67.6 percent.

**Big Bend Unit 3**

The projected EUOF for this unit is 14.5 percent. The unit will have a planned outage in 2010, and the POF is 8.5 percent. Therefore, the target equivalent availability for this unit is 77.0 percent.

**Big Bend Unit 4**

The projected EUOF for this unit is 15.4 percent. The unit will have a planned outage in 2010, and the POF is 15.3 percent. Therefore, the target equivalent availability for this unit is 69.2 percent.

**Polk Unit 1**

The projected EUOF for this unit is 11.3 percent. The unit will have a planned outage in 2010, and the POF is 3.8 percent. Therefore, the target equivalent availability for this unit is 84.9 percent.

**Bayside Unit 1**

The projected EUOF for this unit is 0.6 percent. The unit will have a planned outage in 2010, and the POF is 3.8 percent. Therefore, the target equivalent availability for this unit is 95.6 percent.

**Bayside Unit 2**

The projected EUOF for this unit is 0.5 percent. The unit will have a planned outage in 2010, and the POF is 3.8 percent. Therefore, the target equivalent availability for this unit is 95.6 percent.

**Q.** Please summarize your testimony regarding EAF.

**A.** The GPIF system weighted EAF of 67.5 percent is shown on Page 5 of Document No. 1. This target is comparable to the 2007 and 2008 January through December actual performance.

**Q.** Why are Forced and Maintenance Outage Factors adjusted for planned outage hours?

**A.** The adjustment makes the factors more accurate and comparable. A unit in a planned outage stage or reserve shutdown stage will not incur a forced or maintenance outage. To demonstrate the effects of a planned outage, note the Equivalent Unplanned Outage Rate and Equivalent

Unplanned Outage Factor for Big Bend Unit 3 on page 16 of Document No. 1. Except for the months of March and October, the Equivalent Unplanned Outage Rate and the EUOF are equal. This is because no planned outages are scheduled during these months. During the months of March and October, the Equivalent Unplanned Outage Rate exceeds the EUOF due to scheduled planned outages. Therefore, the adjusted factors apply to the period hours after the planned outage hours have been extracted.

**Q.** Does this mean that both rate and factor data are used in calculated data?

**A.** Yes. Rates provide a proper and accurate method of determining the unit metrics, which are subsequently converted to factors. Therefore,

$$EFOF + EMOF + POF + EAF = 100\%$$

Since factors are additive, they are easier to work with and to understand.

**Q.** Has Tampa Electric prepared the necessary heat rate data required for the determination of the GPIF?

**A.** Yes. Target heat rates and ranges of potential operation have been developed as required and have been adjusted to reflect the aforementioned agreed upon GPIF methodology.

**Q.** How were these targets determined?

**A.** Net heat rate data for the three most recent July through June annual periods formed the basis of the target development. The historical data and the target values are analyzed to assure applicability to current conditions of operation. This provides assurance that any periods of abnormal operations or equipment modifications having material effect on heat rate can be taken into consideration.

**Q.** How were the ranges of heat rate improvement and heat rate degradation determined?

**A.** The ranges were determined through analysis of historical net heat rate and net output factor data. This is the same data from which the net heat rate versus net output factor curves have been developed for each unit. This information is shown on pages 31 through 37 of Document No. 1.

**Q.** Please elaborate on the analysis used in the determination of the ranges.

**A.** The net heat rate versus net output factor curves are the result of a first order curve fit to historical data. The standard error of the estimate of this data was determined, and a factor was applied to produce a band of potential improvement and degradation. Both the curve fit and the standard error of the estimate were performed by computer program for each unit. These curves are also used in post-period adjustments to actual heat rates to account for unanticipated changes in unit dispatch.

**Q.** Please summarize your heat rate projection (Btu/Net·kWh) and the range about each target to allow for potential improvement or degradation for the 2010 period.

**A.** The heat rate target for Big Bend Unit 1 is 10,785 Btu/Net kWh. The range about this value, to allow for potential improvement or degradation, is ±360 Btu/Net kWh. The heat rate target for Big Bend Unit 2 is 10,481 Btu/Net kWh with a range of ±305 Btu/Net kWh. The heat rate target for Big Bend Unit 3 is 10,627 Btu/Net kWh, with a range of ±262 Btu/Net kWh. The heat rate target for Big Bend Unit 4 is 10,661 Btu/Net kWh with a range of ±431 Btu/Net kWh. The heat rate target for Polk Unit 1 is 10,375 Btu/Net kWh with a range of ±727 Btu/Net kWh. The heat rate target for Bayside Unit 1 is 7,250 Btu/Net kWh with a range of ±125 Btu/Net kWh. The heat rate target for Bayside Unit 2 is 7,409 Btu/Net kWh with a range of ±83 Btu/Net kWh. A zone of tolerance of ±75 Btu/Net kWh is included within the range for each target. This is shown on page 4, and pages 7 through 13 of Document No. 1.

**Q.** Do the heat rate targets and ranges in Tampa Electric's projection meet the criteria of the GPIF and the philosophy of the Commission?

**A.** Yes.

**Q.** After determining the target values and ranges for average net operating heat rate and equivalent availability, what is the next step in the GPIF?

**A.** The next step is to calculate the savings and weighting factor to be used for both average net operating heat rate and equivalent availability. This is shown on pages 7 through 13. The baseline production costing analysis was performed to calculate the total system fuel cost if all units operated at target heat rate and target availability for the period. This total system fuel cost of $936,879,400 is shown on page 6, column 2. Multiple production cost simulations were performed to calculate total system fuel cost with each unit individually operating at maximum improvement in equivalent availability and each station operating at maximum improvement in average net operating heat rate. The respective savings are shown on page 6, column 4 of Document No. 1.

After all of the individual savings are calculated, column 4 totals $33,641,218 which reflects the savings if all of the units operated at maximum improvement. A weighting factor for each metric is then calculated by dividing individual savings by the total. For Big Bend Unit 3, the weighting factor for equivalent availability is 5.6 percent as shown in the right-hand column on page 6. Pages 7 through 13 of Document No. 1 show the point table, the Fuel Savings/(Loss) and the equivalent availability or heat rate value. The individual weighting factor is also shown. For example, on Big Bend Unit 3, page 9, if the unit operates at 80.3 percent equivalent availability, fuel savings would equal $1,872,300, and 10 equivalent availability points would be awarded.

The GPIF Reward/Penalty table on page 2 is a summary of the tables on pages 7 through 13. The left-hand column of this document shows the incentive points for Tampa Electric. The center column shows the total fuel savings and is the same amount as shown on page 6, column 4, or $33,641,218. The right hand column of page 2 is the estimated reward or penalty based upon performance.

**Q.** How was the maximum allowed incentive determined?

**A.** Referring to page 3, line 14, the estimated average common equity for the period January through December 2010 is $1,949,226,994. This produces the maximum allowed jurisdictional incentive of $7,726,902 shown on line 21.

**Q.** Are there any other constraints set forth by the Commission regarding the magnitude of incentive dollars?

**A.** Yes. Incentive dollars are not to exceed 50 percent of fuel savings. Page 2 of Document No. 1 demonstrates that this constraint is met.

**Q.** Please summarize your testimony.

**A.** Tampa Electric has complied with the Commission's directions, philosophy, and methodology in its determination of the GPIF. The GPIF is determined by the following formula for calculating Generating Performance Incentive Points (GPIP):

$$\begin{aligned} GPIP: = ( & 0.1106\ EAP_{BB1} + 0.1496\ EAP_{BB2} \\ & + 0.0557\ EAP_{BB3} + 0.0999\ EAP_{BB4} \\ & + 0.0349\ EAP_{PK1} + 0.0017\ EAP_{BAY1} \\ & + 0.0036\ EAP_{BAY2} + 0.0558\ HRP_{BB1} \\ & + 0.0598\ HRP_{BB2} + 0.0542\ HRP_{BB3} \\ & + 0.0910\ HRP_{BB4} + 0.1079\ HRP_{PK1} \\ & + 0.1117\ HRP_{BAY1} + 0.0636\ HRP_{BAY2}) \end{aligned}$$

Where:

GPIP = Generating Performance Incentive Points.

EAP = Equivalent Availability Points awarded/deducted for Big Bend Units 1, 2, 3, and 4, Polk Unit 1 and Bayside Units 1 and 2.

HRP = Average Net Heat Rate Points awarded/deducted for Big Bend Units 1, 2, 3, and 4, Polk Unit 1 and Bayside Units 1 and 2.

**Q.** Have you prepared a document summarizing the GPIF targets for the January through December 2010 period?

**A.** Yes. Document No. 2 entitled "Summary of GPIF Targets" provides the availability and heat rate targets for each unit.

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

**A.** Yes.

EXHIBIT TO THE TESTIMONY OF

BRIAN S. BUCKLEY

DOCUMENT NO. 1

GPIF SCHEDULES

JANUARY 2010 - DECEMBER 2010

# TAMPA ELECTRIC COMPANY
# GENERATING PERFORMANCE INCENTIVE FACTOR
# JANUARY 2010 - DECEMBER 2010
# TARGETS
# TABLE OF CONTENTS

**TAMPA ELECTRIC COMPANY**
**GENERATING PERFORMANCE INCENTIVE FACTOR**
**REWARD / PENALTY TABLE**
**JANUARY 2010 - DECEMBER 2010**

| GENERATING PERFORMANCE INCENTIVE POINTS (GPIP) | FUEL SAVINGS / (LOSS) ($000) | GENERATING PERFORMANCE INCENTIVE FACTOR ($000) |
|---|---|---|
| +10 | 33,641.2 | 7,726.9 |
| +9 | 30,277.1 | 6,954.2 |
| +8 | 26,913.0 | 6,181.5 |
| +7 | 23,548.9 | 5,408.8 |
| +6 | 20,184.7 | 4,636.1 |
| +5 | 16,820.6 | 3,863.5 |
| +4 | 13,456.5 | 3,090.8 |
| +3 | 10,092.4 | 2,318.1 |
| +2 | 6,728.2 | 1,545.4 |
| +1 | 3,364.1 | 772.7 |
| 0 | 0.0 | 0.0 |
| -1 | (5,054.0) | (772.7) |
| -2 | (10,108.0) | (1,545.4) |
| -3 | (15,161.9) | (2,318.1) |
| -4 | (20,215.9) | (3,090.8) |
| -5 | (25,269.9) | (3,863.5) |
| -6 | (30,323.9) | (4,636.1) |
| -7 | (35,377.9) | (5,408.8) |
| -8 | (40,431.9) | (6,181.5) |
| -9 | (45,485.8) | (6,954.2) |
| -10 | (50,539.8) | (7,726.9) |

**TAMPA ELECTRIC COMPANY**
**GENERATING PERFORMANCE INCENTIVE FACTOR**
**CALCULATION OF MAXIMUM ALLOWED INCENTIVE DOLLARS**
**JANUARY 2010 - DECEMBER 2010**

| | | | | | |
|---|---|---|---|---|---|
| Line 1 | Beginning of period balance of common equity:<br>End of month common equity: | | $ | 1,916,489,000 | |
| Line 2 | Month of January | 2010 | $ | 1,878,721,000 | |
| Line 3 | Month of February | 2010 | $ | 1,896,334,009 | |
| Line 4 | Month of March | 2010 | $ | 1,914,112,141 | |
| Line 5 | Month of April | 2010 | $ | 1,934,433,801 | |
| Line 6 | Month of May | 2010 | $ | 1,952,569,118 | |
| Line 7 | Month of June | 2010 | $ | 1,970,874,454 | |
| Line 8 | Month of July | 2010 | $ | 1,932,589,089 | |
| Line 9 | Month of August | 2010 | $ | 1,950,707,111 | |
| Line 10 | Month of September | 2010 | $ | 1,968,994,991 | |
| Line 11 | Month of October | 2010 | $ | 1,989,333,782 | |
| Line 12 | Month of November | 2010 | $ | 2,007,983,786 | |
| Line 13 | Month of December | 2010 | $ | 2,026,808,634 | |
| Line 14 | (Summation of line 1 through line 13 divided by 13) | | $ | 1,949,226,994 | |
| Line 15 | 25 Basis points | | | 0.0025 | |
| Line 16 | Revenue Expansion Factor | | | 61.17% | |
| Line 17 | Maximum Allowed Incentive Dollars<br>(line 14 times line 15 divided by line 16) | | $ | 7,966,902 | |
| Line 18 | Jurisdictional Sales | | | 19,174,072 | MWH |
| Line 19 | Total Sales | | | 19,769,625 | MWH |
| Line 20 | Jurisdictional Separation Factor<br>(line 18 divided by line 19) | | | 96.99% | |
| **Line 21** | **Maximum Allowed Jurisdictional Incentive Dollars<br>(line 17 times line 20)** | | **$** | **7,726,902** | |

**TAMPA ELECTRIC COMPANY**
**GPIF TARGET AND RANGE SUMMARY**
**JANUARY 2010 - DECEMBER 2010**

**EQUIVALENT AVAILABILITY**

| PLANT / UNIT | WEIGHTING FACTOR (%) | EAF TARGET (%) | EAF RANGE MAX. (%) | EAF RANGE MIN. (%) | MAX. FUEL SAVINGS ($000) | MAX. FUEL LOSS ($000) |
|---|---|---|---|---|---|---|
| BIG BEND 1 | 11.06% | 54.4 | 59.5 | 44.2 | 3,719.8 | (7,408.0) |
| BIG BEND 2 | 14.96% | 67.6 | 73.4 | 55.9 | 5,031.6 | (10,517.0) |
| BIG BEND 3 | 5.57% | 77.0 | 80.3 | 70.3 | 1,872.3 | (5,522.4) |
| BIG BEND 4 | 9.99% | 69.2 | 73.1 | 61.5 | 3,361.3 | (6,152.1) |
| POLK 1 | 3.49% | 84.9 | 87.4 | 80.0 | 1,173.9 | (2,349.5) |
| BAYSIDE 1 | 0.17% | 95.6 | 95.9 | 94.9 | 58.2 | (54.0) |
| BAYSIDE 2 | 0.36% | 95.6 | 95.9 | 95.0 | 122.6 | (235.3) |
| **GPIF SYSTEM** | **45.60%** | | | | | |

**AVERAGE NET OPERATING HEAT RATE**

| PLANT / UNIT | WEIGHTING FACTOR (%) | ANOHR Btu/kwh | TARGET NOF | ANOHR RANGE MIN. | ANOHR RANGE MAX. | MAX. FUEL SAVINGS ($000) | MAX. FUEL LOSS ($000) |
|---|---|---|---|---|---|---|---|
| BIG BEND 1 | 5.58% | 10,785 | 89.9 | 10,426 | 11,145 | 1,877.3 | (1,877.3) |
| BIG BEND 2 | 5.98% | 10,481 | 92.5 | 10,176 | 10,787 | 2,011.5 | (2,011.5) |
| BIG BEND 3 | 5.42% | 10,627 | 88.2 | 10,365 | 10,889 | 1,824.5 | (1,824.5) |
| BIG BEND 4 | 9.10% | 10,661 | 88.5 | 10,230 | 11,092 | 3,060.1 | (3,060.1) |
| POLK 1 | 10.79% | 10,375 | 89.4 | 9,648 | 11,102 | 3,631.3 | (3,631.3) |
| BAYSIDE 1 | 11.17% | 7,250 | 79.9 | 7,125 | 7,376 | 3,758.6 | (3,758.6) |
| BAYSIDE 2 | 6.36% | 7,409 | 70.0 | 7,326 | 7,493 | 2,138.2 | (2,138.2) |
| **GPIF SYSTEM** | **54.40%** | | | | | | |

24

## TAMPA ELECTRIC COMPANY
## COMPARISON OF GPIF TARGETS VS PRIOR PERIOD ACTUAL PERFORMANCE

### EQUIVALENT AVAILABILITY (%)

| PLANT / UNIT | WEIGHTING FACTOR (%) | NORMALIZED WEIGHTING FACTOR | TARGET PERIOD JAN 10 - DEC 10 POF | EUOF | EUOR | ACTUAL PERFORMANCE JAN 08 - DEC 08 POF | EUOF | EUOR | ACTUAL PERFORMANCE JAN 07 - DEC 07 POF | EUOF | EUOR | ACTUAL PERFORMANCE JAN 06 - DEC 06 POF | EUOF | EUOR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BIG BEND 1 | 11.06% | 24.2% | 26.8 | 18.7 | 25.6 | 4.9 | 19.4 | 20.4 | 0.0 | 23.7 | 23.7 | 18.5 | 26.3 | 32.2 |
| BIG BEND 2 | 14.96% | 32.8% | 4.4 | 28.1 | 29.3 | 10.2 | 18.8 | 20.8 | 2.5 | 18.0 | 18.4 | 0.0 | 17.2 | 17.2 |
| BIG BEND 3 | 5.57% | 12.2% | 8.5 | 14.5 | 15.9 | 32.4 | 23.1 | 34.2 | 11.8 | 41.7 | 47.3 | 7.9 | 30.2 | 32.8 |
| BIG BEND 4 | 9.99% | 21.9% | 15.3 | 15.4 | 18.2 | 5.8 | 21.4 | 22.7 | 27.0 | 19.8 | 27.0 | 8.3 | 17.0 | 18.6 |
| POLK 1 | 3.49% | 7.7% | 3.8 | 11.3 | 11.7 | 3.0 | 13.8 | 16.9 | 4.1 | 11.0 | 12.8 | 12.0 | 0.0 | 0.0 |
| BAYSIDE 1 | 0.17% | 0.4% | 3.8 | 0.6 | 0.6 | 2.4 | 2.8 | 3.1 | 11.5 | 3.3 | 3.9 | 2.5 | 10.3 | 11.1 |
| BAYSIDE 2 | 0.36% | 0.8% | 3.8 | 0.5 | 0.6 | 14.5 | 1.9 | 2.4 | 2.0 | 1.7 | 1.7 | 10.0 | 1.4 | 1.6 |
| **GPIF SYSTEM** | **45.60%** | **100.0%** | **12.7** | **19.8** | **22.7** | **10.1** | **19.5** | **22.2** | **8.6** | **21.9** | **24.5** | **8.3** | **19.5** | **21.6** |
| **GPIF SYSTEM WEIGHTED EQUIVALENT AVAILABILITY (%)** | | | | **67.5** | | | **70.4** | | | **69.5** | | | **72.2** | |

| 3 PERIOD AVERAGE POF | EUOF | EUOR | 3 PERIOD AVERAGE EAF |
|---|---|---|---|
| 9.0 | 20.3 | 22.8 | 70.7 |

### AVERAGE NET OPERATING HEAT RATE (Btu/kWh)

| PLANT / UNIT | WEIGHTING FACTOR (%) | NORMALIZED WEIGHTING FACTOR | TARGET HEAT RATE JAN 10 - DEC 10 | ADJUSTED ACTUAL PERFORMANCE HEAT RATE JAN 08 - DEC 08 | ADJUSTED ACTUAL PERFORMANCE HEAT RATE JAN 07 - DEC 07 | ADJUSTED ACTUAL PERFORMANCE HEAT RATE JAN 06 - DEC 06 |
|---|---|---|---|---|---|---|
| BIG BEND 1 | 5.58% | 10.3% | 10,785 | 10,865 | 10,721 | 10,867 |
| BIG BEND 2 | 5.98% | 11.0% | 10,481 | 10,614 | 10,374 | 10,365 |
| BIG BEND 3 | 5.42% | 10.0% | 10,627 | 10,712 | 10,546 | 10,655 |
| BIG BEND 4 | 9.10% | 16.7% | 10,661 | 10,730 | 10,693 | 10,663 |
| POLK 1 | 10.79% | 19.8% | 10,375 | 10,140 | 10,404 | 10,156 |
| BAYSIDE 1 | 11.17% | 20.5% | 7,250 | 7,250 | 7,310 | 7,329 |
| BAYSIDE 2 | 6.36% | 11.7% | 7,409 | 7,373 | 7,378 | 7,428 |
| **GPIF SYSTEM** | **54.40%** | **100.0%** | | | | |
| **GPIF SYSTEM WEIGHTED AVERAGE HEAT RATE (Btu/kWh)** | | | **9,514** | **9,505** | **9,507** | **9,487** |

**TAMPA ELECTRIC COMPANY**
**DERIVATION OF WEIGHTING FACTORS**
**JANUARY 2010 - DECEMBER 2010**
**PRODUCTION COSTING SIMULATION**
**FUEL COST ($000)**

| UNIT PERFORMANCE INDICATOR | AT TARGET (1) | AT MAXIMUM IMPROVEMENT (2) | SAVINGS (3) | WEIGHTING FACTOR (% OF SAVINGS) |
|---|---|---|---|---|
| **EQUIVALENT AVAILABILITY** | | | | |
| $EA_1$ BIG BEND 1 | 936,879.4 | 933,159.6 | 3,719.8 | 11.06% |
| $EA_2$ BIG BEND 2 | 936,879.4 | 931,847.8 | 5,031.6 | 14.96% |
| $EA_3$ BIG BEND 3 | 936,879.4 | 935,007.1 | 1,872.3 | 5.57% |
| $EA_4$ BIG BEND 4 | 936,879.4 | 933,518.1 | 3,361.3 | 9.99% |
| $EA_7$ POLK 1 | 936,879.4 | 935,705.5 | 1,173.9 | 3.49% |
| $EA_8$ BAYSIDE 1 | 936,879.4 | 936,821.2 | 58.2 | 0.17% |
| $EA_9$ BAYSIDE 2 | 936,879.4 | 936,756.8 | 122.6 | 0.36% |
| **AVERAGE HEAT RATE** | | | | |
| $AHR_1$ BIG BEND 1 | 936,879.4 | 935,002.1 | 1,877.3 | 5.58% |
| $AHR_2$ BIG BEND 2 | 936,879.4 | 934,867.9 | 2,011.5 | 5.98% |
| $AHR_3$ BIG BEND 3 | 936,879.4 | 935,054.9 | 1,824.5 | 5.42% |
| $AHR_4$ BIG BEND 4 | 936,879.4 | 933,819.3 | 3,060.1 | 9.10% |
| $AHR_7$ POLK 1 | 936,879.4 | 933,248.1 | 3,631.3 | 10.79% |
| $AHR_8$ BAYSIDE 1 | 936,879.4 | 933,120.8 | 3,758.6 | 11.17% |
| $AHR_9$ BAYSIDE 2 | 936,879.4 | 934,741.2 | 2,138.2 | 6.36% |
| **TOTAL SAVINGS** | | | **33,641.218** | **100.00%** |

**(1) Fuel Adjustment Base Case - All unit performance indicators at target.**
**(2) All other units performance indicators at target.**
**(3) Expressed in replacement energy cost.**

**TAMPA ELECTRIC COMPANY**

**GPIF TARGET AND RANGE SUMMARY**

**JANUARY 2010 - DECEMBER 2010**

**BIG BEND 1**

| EQUIVALENT AVAILABILITY POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL EQUIVALENT AVAILABILITY | AVERAGE HEAT RATE POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL AVERAGE HEAT RATE |
|---|---|---|---|---|---|
| +10 | 3,719.8 | 59.5 | +10 | 1,877.3 | 10,426 |
| +9 | 3,347.8 | 59.0 | +9 | 1,689.6 | 10,454 |
| +8 | 2,975.8 | 58.5 | +8 | 1,501.8 | 10,483 |
| +7 | 2,603.9 | 58.0 | +7 | 1,314.1 | 10,511 |
| +6 | 2,231.9 | 57.5 | +6 | 1,126.4 | 10,540 |
| +5 | 1,859.9 | 57.0 | +5 | 938.7 | 10,568 |
| +4 | 1,487.9 | 56.5 | +4 | 750.9 | 10,596 |
| +3 | 1,115.9 | 55.9 | +3 | 563.2 | 10,625 |
| +2 | 744.0 | 55.4 | +2 | 375.5 | 10,653 |
| +1 | 372.0 | 54.9 | +1 | 187.7 | 10,682 |
| | | | | | 10,710 |
| 0 | 0.0 | 54.4 | 0 | 0.0 | 10,785 |
| | | | | | 10,860 |
| -1 | (740.8) | 53.4 | -1 | (187.7) | 10,889 |
| -2 | (1,481.6) | 52.4 | -2 | (375.5) | 10,917 |
| -3 | (2,222.4) | 51.4 | -3 | (563.2) | 10,946 |
| -4 | (2,963.2) | 50.3 | -4 | (750.9) | 10,974 |
| -5 | (3,704.0) | 49.3 | -5 | (938.7) | 11,003 |
| -6 | (4,444.8) | 48.3 | -6 | (1,126.4) | 11,031 |
| -7 | (5,185.6) | 47.3 | -7 | (1,314.1) | 11,060 |
| -8 | (5,926.4) | 46.3 | -8 | (1,501.8) | 11,088 |
| -9 | (6,667.2) | 45.2 | -9 | (1,689.6) | 11,117 |
| -10 | (7,408.0) | 44.2 | -10 | (1,877.3) | 11,145 |
| | Weighting Factor = | 11.06% | | Weighting Factor = | 5.58% |

**TAMPA ELECTRIC COMPANY**

**GPIF TARGET AND RANGE SUMMARY**

**JANUARY 2010 - DECEMBER 2010**

**BIG BEND 2**

| EQUIVALENT AVAILABILITY POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL EQUIVALENT AVAILABILITY | AVERAGE HEAT RATE POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL AVERAGE HEAT RATE |
|---|---|---|---|---|---|
| +10 | 5,031.6 | 73.4 | +10 | 2,011.5 | 10,176 |
| +9 | 4,528.4 | 72.8 | +9 | 1,810.3 | 10,199 |
| +8 | 4,025.3 | 72.2 | +8 | 1,609.2 | 10,222 |
| +7 | 3,522.1 | 71.6 | +7 | 1,408.0 | 10,245 |
| +6 | 3,019.0 | 71.1 | +6 | 1,206.9 | 10,268 |
| +5 | 2,515.8 | 70.5 | +5 | 1,005.7 | 10,291 |
| +4 | 2,012.6 | 69.9 | +4 | 804.6 | 10,314 |
| +3 | 1,509.5 | 69.3 | +3 | 603.4 | 10,337 |
| +2 | 1,006.3 | 68.7 | +2 | 402.3 | 10,360 |
| +1 | 503.2 | 68.1 | +1 | 201.1 | 10,383 |
| | | | | | 10,406 |
| 0 | 0.0 | 67.6 | 0 | 0.0 | 10,481 |
| | | | | | 10,556 |
| -1 | (1,051.7) | 66.4 | -1 | (201.1) | 10,579 |
| -2 | (2,103.4) | 65.2 | -2 | (402.3) | 10,602 |
| -3 | (3,155.1) | 64.1 | -3 | (603.4) | 10,625 |
| -4 | (4,206.8) | 62.9 | -4 | (804.6) | 10,648 |
| -5 | (5,258.5) | 61.7 | -5 | (1,005.7) | 10,671 |
| -6 | (6,310.2) | 60.6 | -6 | (1,206.9) | 10,694 |
| -7 | (7,361.9) | 59.4 | -7 | (1,408.0) | 10,717 |
| -8 | (8,413.6) | 58.2 | -8 | (1,609.2) | 10,740 |
| -9 | (9,465.3) | 57.1 | -9 | (1,810.3) | 10,764 |
| -10 | (10,517.0) | 55.9 | -10 | (2,011.5) | 10,787 |
| | Weighting Factor = | 14.96% | | Weighting Factor = | 5.98% |

**TAMPA ELECTRIC COMPANY**

**GPIF TARGET AND RANGE SUMMARY**

**JANUARY 2010 - DECEMBER 2010**

**BIG BEND 3**

| EQUIVALENT AVAILABILITY POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL EQUIVALENT AVAILABILITY | AVERAGE HEAT RATE POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL AVERAGE HEAT RATE |
|---|---|---|---|---|---|
| +10 | 1,872.3 | 80.3 | +10 | 1,824.5 | 10,365 |
| +9 | 1,685.1 | 80.0 | +9 | 1,642.0 | 10,384 |
| +8 | 1,497.8 | 79.6 | +8 | 1,459.6 | 10,402 |
| +7 | 1,310.6 | 79.3 | +7 | 1,277.1 | 10,421 |
| +6 | 1,123.4 | 79.0 | +6 | 1,094.7 | 10,440 |
| +5 | 936.2 | 78.6 | +5 | 912.2 | 10,459 |
| +4 | 748.9 | 78.3 | +4 | 729.8 | 10,477 |
| +3 | 561.7 | 78.0 | +3 | 547.3 | 10,496 |
| +2 | 374.5 | 77.6 | +2 | 364.9 | 10,515 |
| +1 | 187.2 | 77.3 | +1 | 182.4 | 10,533 |
| | | | | | 10,552 |
| 0 | 0.0 | 77.0 | 0 | 0.0 | 10,627 |
| | | | | | 10,702 |
| -1 | (552.2) | 76.3 | -1 | (182.4) | 10,721 |
| -2 | (1,104.5) | 75.7 | -2 | (364.9) | 10,740 |
| -3 | (1,656.7) | 75.0 | -3 | (547.3) | 10,758 |
| -4 | (2,209.0) | 74.3 | -4 | (729.8) | 10,777 |
| -5 | (2,761.2) | 73.7 | -5 | (912.2) | 10,796 |
| -6 | (3,313.4) | 73.0 | -6 | (1,094.7) | 10,814 |
| -7 | (3,865.7) | 72.3 | -7 | (1,277.1) | 10,833 |
| -8 | (4,417.9) | 71.7 | -8 | (1,459.6) | 10,852 |
| -9 | (4,970.2) | 71.0 | -9 | (1,642.0) | 10,871 |
| -10 | (5,522.4) | 70.3 | -10 | (1,824.5) | 10,889 |
| | Weighting Factor = | 5.57% | | Weighting Factor = | 5.42% |

**TAMPA ELECTRIC COMPANY**

**GPIF TARGET AND RANGE SUMMARY**

**JANUARY 2010 - DECEMBER 2010**

**BIG BEND 4**

| EQUIVALENT AVAILABILITY POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL EQUIVALENT AVAILABILITY | AVERAGE HEAT RATE POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL AVERAGE HEAT RATE |
|---|---|---|---|---|---|
| +10 | 3,361.3 | 73.1 | +10 | 3,060.1 | 10,230 |
| +9 | 3,025.2 | 72.7 | +9 | 2,754.1 | 10,266 |
| +8 | 2,689.0 | 72.3 | +8 | 2,448.1 | 10,301 |
| +7 | 2,352.9 | 71.9 | +7 | 2,142.1 | 10,337 |
| +6 | 2,016.8 | 71.5 | +6 | 1,836.1 | 10,372 |
| +5 | 1,680.7 | 71.2 | +5 | 1,530.1 | 10,408 |
| +4 | 1,344.5 | 70.8 | +4 | 1,224.0 | 10,444 |
| +3 | 1,008.4 | 70.4 | +3 | 918.0 | 10,479 |
| +2 | 672.3 | 70.0 | +2 | 612.0 | 10,515 |
| +1 | 336.1 | 69.6 | +1 | 306.0 | 10,551 |
| | | | | | 10,586 |
| 0 | 0.0 | 69.2 | 0 | 0.0 | 10,661 |
| | | | | | 10,736 |
| -1 | (615.2) | 68.5 | -1 | (306.0) | 10,772 |
| -2 | (1,230.4) | 67.7 | -2 | (612.0) | 10,807 |
| -3 | (1,845.6) | 66.9 | -3 | (918.0) | 10,843 |
| -4 | (2,460.8) | 66.1 | -4 | (1,224.0) | 10,879 |
| -5 | (3,076.0) | 65.4 | -5 | (1,530.1) | 10,914 |
| -6 | (3,691.3) | 64.6 | -6 | (1,836.1) | 10,950 |
| -7 | (4,306.5) | 63.8 | -7 | (2,142.1) | 10,986 |
| -8 | (4,921.7) | 63.1 | -8 | (2,448.1) | 11,021 |
| -9 | (5,536.9) | 62.3 | -9 | (2,754.1) | 11,057 |
| -10 | (6,152.1) | 61.5 | -10 | (3,060.1) | 11,092 |
| | Weighting Factor = | 9.99% | | Weighting Factor = | 9.10% |

**TAMPA ELECTRIC COMPANY**

**GPIF TARGET AND RANGE SUMMARY**

**JANUARY 2010 - DECEMBER 2010**

**POLK 1**

| EQUIVALENT AVAILABILITY POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL EQUIVALENT AVAILABILITY | AVERAGE HEAT RATE POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL AVERAGE HEAT RATE |
|---|---|---|---|---|---|
| +10 | 1,173.9 | 87.4 | +10 | 3,631.3 | 9,648 |
| +9 | 1,056.5 | 87.1 | +9 | 3,268.2 | 9,713 |
| +8 | 939.1 | 86.9 | +8 | 2,905.1 | 9,779 |
| +7 | 821.7 | 86.6 | +7 | 2,541.9 | 9,844 |
| +6 | 704.3 | 86.4 | +6 | 2,178.8 | 9,909 |
| +5 | 587.0 | 86.1 | +5 | 1,815.7 | 9,974 |
| +4 | 469.6 | 85.9 | +4 | 1,452.5 | 10,039 |
| +3 | 352.2 | 85.6 | +3 | 1,089.4 | 10,105 |
| +2 | 234.8 | 85.4 | +2 | 726.3 | 10,170 |
| +1 | 117.4 | 85.2 | +1 | 363.1 | 10,235 |
| | | | | | 10,300 |
| 0 | 0.0 | 84.9 | 0 | 0.0 | 10,375 |
| | | | | | 10,450 |
| -1 | (235.0) | 84.4 | -1 | (363.1) | 10,515 |
| -2 | (469.9) | 83.9 | -2 | (726.3) | 10,580 |
| -3 | (704.9) | 83.4 | -3 | (1,089.4) | 10,646 |
| -4 | (939.8) | 83.0 | -4 | (1,452.5) | 10,711 |
| -5 | (1,174.8) | 82.5 | -5 | (1,815.7) | 10,776 |
| -6 | (1,409.7) | 82.0 | -6 | (2,178.8) | 10,841 |
| -7 | (1,644.7) | 81.5 | -7 | (2,541.9) | 10,906 |
| -8 | (1,879.6) | 81.0 | -8 | (2,905.1) | 10,972 |
| -9 | (2,114.6) | 80.5 | -9 | (3,268.2) | 11,037 |
| -10 | (2,349.5) | 80.0 | -10 | (3,631.3) | 11,102 |
| | Weighting Factor = | 3.49% | | Weighting Factor = | 10.79% |

**TAMPA ELECTRIC COMPANY**

**GPIF TARGET AND RANGE SUMMARY**

**JANUARY 2010 - DECEMBER 2010**

**BAYSIDE 1**

| EQUIVALENT AVAILABILITY POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL EQUIVALENT AVAILABILITY | AVERAGE HEAT RATE POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL AVERAGE HEAT RATE |
|---|---|---|---|---|---|
| +10 | 58.2 | 95.9 | +10 | 3,758.6 | 7,125 |
| +9 | 52.4 | 95.8 | +9 | 3,382.7 | 7,130 |
| +8 | 46.6 | 95.8 | +8 | 3,006.9 | 7,135 |
| +7 | 40.7 | 95.8 | +7 | 2,631.0 | 7,140 |
| +6 | 34.9 | 95.8 | +6 | 2,255.1 | 7,145 |
| +5 | 29.1 | 95.7 | +5 | 1,879.3 | 7,150 |
| +4 | 23.3 | 95.7 | +4 | 1,503.4 | 7,155 |
| +3 | 17.5 | 95.7 | +3 | 1,127.6 | 7,160 |
| +2 | 11.6 | 95.6 | +2 | 751.7 | 7,165 |
| +1 | 5.8 | 95.6 | +1 | 375.9 | 7,170 |
| | | | | | 7,175 |
| 0 | 0.0 | 95.6 | 0 | 0.0 | 7,250 |
| | | | | | 7,325 |
| -1 | (5.4) | 95.5 | -1 | (375.9) | 7,330 |
| -2 | (10.8) | 95.4 | -2 | (751.7) | 7,335 |
| -3 | (16.2) | 95.4 | -3 | (1,127.6) | 7,340 |
| -4 | (21.6) | 95.3 | -4 | (1,503.4) | 7,346 |
| -5 | (27.0) | 95.3 | -5 | (1,879.3) | 7,351 |
| -6 | (32.4) | 95.2 | -6 | (2,255.1) | 7,356 |
| -7 | (37.8) | 95.1 | -7 | (2,631.0) | 7,361 |
| -8 | (43.2) | 95.1 | -8 | (3,006.9) | 7,366 |
| -9 | (48.6) | 95.0 | -9 | (3,382.7) | 7,371 |
| -10 | (54.0) | 94.9 | -10 | (3,758.6) | 7,376 |
| | Weighting Factor = | 0.17% | | Weighting Factor = | 11.17% |

**TAMPA ELECTRIC COMPANY**

**GPIF TARGET AND RANGE SUMMARY**

**JANUARY 2010 - DECEMBER 2010**

**BAYSIDE 2**

| EQUIVALENT AVAILABILITY POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL EQUIVALENT AVAILABILITY | AVERAGE HEAT RATE POINTS | FUEL SAVINGS / (LOSS) ($000) | ADJUSTED ACTUAL AVERAGE HEAT RATE |
|---|---|---|---|---|---|
| +10 | 122.6 | 95.9 | +10 | 2,138.2 | 7,326 |
| +9 | 110.3 | 95.9 | +9 | 1,924.4 | 7,327 |
| +8 | 98.1 | 95.9 | +8 | 1,710.6 | 7,328 |
| +7 | 85.8 | 95.8 | +7 | 1,496.7 | 7,329 |
| +6 | 73.6 | 95.8 | +6 | 1,282.9 | 7,329 |
| +5 | 61.3 | 95.8 | +5 | 1,069.1 | 7,330 |
| +4 | 49.0 | 95.7 | +4 | 855.3 | 7,331 |
| +3 | 36.8 | 95.7 | +3 | 641.5 | 7,332 |
| +2 | 24.5 | 95.7 | +2 | 427.6 | 7,333 |
| +1 | 12.3 | 95.6 | +1 | 213.8 | 7,334 |
| | | | | | 7,334 |
| 0 | 0.0 | 95.6 | 0 | 0.0 | 7,409 |
| | | | | | 7,484 |
| -1 | (23.5) | 95.6 | -1 | (213.8) | 7,485 |
| -2 | (47.1) | 95.5 | -2 | (427.6) | 7,486 |
| -3 | (70.6) | 95.4 | -3 | (641.5) | 7,487 |
| -4 | (94.1) | 95.4 | -4 | (855.3) | 7,488 |
| -5 | (117.6) | 95.3 | -5 | (1,069.1) | 7,488 |
| -6 | (141.2) | 95.3 | -6 | (1,282.9) | 7,489 |
| -7 | (164.7) | 95.2 | -7 | (1,496.7) | 7,490 |
| -8 | (188.2) | 95.1 | -8 | (1,710.6) | 7,491 |
| -9 | (211.8) | 95.1 | -9 | (1,924.4) | 7,492 |
| -10 | (235.3) | 95.0 | -10 | (2,138.2) | 7,493 |
| | Weighting Factor = | 0.36% | | Weighting Factor = | 6.36% |

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

| PLANT/UNIT | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | PERIOD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BIG BEND 1 | Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 | Jul-10 | Aug-10 | Sep-10 | Oct-10 | Nov-10 | Dec-10 | 2010 |
| 1. EAF (%) | 0.0 | 0.0 | 0.0 | 54.5 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 74.4 | 54.4 |
| 2. POF | 100.0 | 100.0 | 100.0 | 26.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 26.8 |
| 3. EUOF | 0.0 | 0.0 | 0.0 | 18.8 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 18.7 |
| 4. EUOR | 0.0 | 0.0 | 0.0 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 | 25.6 |
| 5. PH | 744 | 672 | 743 | 720 | 744 | 720 | 744 | 744 | 720 | 744 | 721 | 744 | 8,760 |
| 6. SH | 0 | 0 | 0 | 424 | 599 | 579 | 599 | 599 | 579 | 599 | 579 | 599 | 5,154 |
| 7. RSH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8. UH | 744 | 672 | 743 | 296 | 145 | 141 | 145 | 145 | 141 | 145 | 142 | 145 | 3,606 |
| 9. POH | 744 | 672 | 743 | 192 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,351 |
| 10. EFOH | 0 | 0 | 0 | 77 | 108 | 105 | 108 | 108 | 105 | 108 | 105 | 108 | 933 |
| 11. EMOH | 0 | 0 | 0 | 58 | 82 | 80 | 82 | 82 | 80 | 82 | 80 | 82 | 709 |
| 12. OPER BTU (GBTU) | 0 | 0 | 0 | 1,597 | 2,244 | 2,169 | 2,244 | 2,248 | 2,173 | 2,245 | 2,175 | 2,292 | 19,400 |
| 13. NET GEN (MWH) | 0 | 0 | 0 | 148,238 | 208,146 | 201,245 | 208,218 | 208,619 | 201,629 | 208,266 | 201,864 | 212,521 | 1,798,746 |
| 14. ANOHR (Btu/kwh) | 0 | 0 | 0 | 10,772 | 10,779 | 10,780 | 10,779 | 10,776 | 10,778 | 10,778 | 10,776 | 10,785 | 10,785 |
| 15. NOF (%) | 0.0 | 0.0 | 0.0 | 90.8 | 90.3 | 90.2 | 90.4 | 90.5 | 90.4 | 90.4 | 90.5 | 89.9 | 89.9 |
| 16. NPC (MW) | 395 | 395 | 395 | 385 | 385 | 385 | 385 | 385 | 385 | 385 | 385 | 395 | 388 |

17. ANOHR EQUATION ANOHR = NOF( -13.958 ) + 12,040

33

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

| PLANT/UNIT | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | PERIOD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BIG BEND 2 | Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 | Jul-10 | Aug-10 | Sep-10 | Oct-10 | Nov-10 | Dec-10 | 2010 |
| 1. EAF (%) | 70.7 | 30.3 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 70.7 | 67.6 |
| 2. POF | 0.0 | 57.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 |
| 3. EUOF | 29.3 | 12.6 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 28.1 |
| 4. EUOR | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 | 29.3 |
| 5. PH | 744 | 672 | 743 | 720 | 744 | 720 | 744 | 744 | 720 | 744 | 721 | 744 | 8,760 |
| 6. SH | 554 | 216 | 554 | 536 | 554 | 536 | 554 | 554 | 536 | 554 | 536 | 554 | 6,240 |
| 7. RSH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8. UH | 190 | 456 | 189 | 184 | 190 | 184 | 190 | 190 | 184 | 190 | 185 | 190 | 2,520 |
| 9. POH | 0 | 384 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 384 |
| 10. EFOH | 177 | 69 | 177 | 172 | 177 | 172 | 177 | 177 | 172 | 177 | 172 | 177 | 1,997 |
| 11. EMOH | 41 | 16 | 41 | 40 | 41 | 40 | 41 | 41 | 40 | 41 | 40 | 41 | 461 |
| 12. OPER BTU (GBTU) | 2,106 | 828 | 2,108 | 2,015 | 2,077 | 2,009 | 2,078 | 2,080 | 2,011 | 2,072 | 2,006 | 2,114 | 23,506 |
| 13. NET GEN (MWH) | 200,882 | 79,010 | 201,078 | 192,324 | 198,237 | 191,731 | 198,253 | 198,485 | 191,929 | 197,698 | 191,377 | 201,694 | 2,242,698 |
| 14. ANOHR (Btu/kwh) | 10,486 | 10,482 | 10,485 | 10,478 | 10,479 | 10,480 | 10,479 | 10,479 | 10,479 | 10,481 | 10,481 | 10,484 | 10,481 |
| 15. NOF (%) | 91.8 | 92.5 | 91.9 | 93.2 | 92.9 | 92.9 | 92.9 | 93.0 | 93.0 | 92.7 | 92.7 | 92.1 | 92.5 |
| 16. NPC (MW) | 395 | 395 | 395 | 385 | 385 | 385 | 385 | 385 | 385 | 385 | 385 | 395 | 388 |

17. ANOHR EQUATION ANOHR = NOF( -5.508 ) + 10,991

34

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

| PLANT/UNIT | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | PERIOD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BIG BEND 3 | Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 | Jul-10 | Aug-10 | Sep-10 | Oct-10 | Nov-10 | Dec-10 | 2010 |
| 1. EAF (%) | 84.1 | 84.1 | 57.0 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 84.1 | 27.1 | 84.1 | 84.1 | 77.0 |
| 2. POF | 0.0 | 0.0 | 32.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 67.7 | 0.0 | 0.0 | 8.5 |
| 3. EUOF | 15.9 | 15.9 | 10.7 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 5.1 | 15.9 | 15.9 | 14.5 |
| 4. EUOR | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 |
| 5. PH | 744 | 672 | 743 | 720 | 744 | 720 | 744 | 744 | 720 | 744 | 721 | 744 | 8,760 |
| 6. SH | 688 | 621 | 466 | 666 | 688 | 666 | 688 | 688 | 666 | 222 | 666 | 688 | 7,411 |
| 7. RSH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8. UH | 56 | 51 | 277 | 54 | 56 | 54 | 56 | 56 | 54 | 522 | 55 | 56 | 1,349 |
| 9. POH | 0 | 0 | 240 | 0 | 0 | 0 | 0 | 0 | 0 | 504 | 0 | 0 | 744 |
| 10. EFOH | 93 | 84 | 63 | 90 | 93 | 90 | 93 | 93 | 90 | 30 | 91 | 93 | 1,007 |
| 11. EMOH | 25 | 22 | 17 | 24 | 25 | 24 | 25 | 25 | 24 | 8 | 24 | 25 | 266 |
| 12. OPER BTU (GBTU) | 2,460 | 2,274 | 1,658 | 2,381 | 2,413 | 2,318 | 2,407 | 2,428 | 2,336 | 777 | 2,361 | 2,468 | 26,281 |
| 13. NET GEN (MWH) | 231,310 | 214,343 | 155,798 | 224,509 | 226,968 | 217,952 | 226,352 | 228,541 | 219,743 | 73,093 | 222,333 | 232,080 | 2,473,022 |
| 14. ANOHR (Btu/kwh) | 10,637 | 10,611 | 10,643 | 10,607 | 10,630 | 10,637 | 10,632 | 10,623 | 10,629 | 10,631 | 10,617 | 10,634 | 10,627 |
| 15. NOF (%) | 87.3 | 89.6 | 86.8 | 89.9 | 88.0 | 87.3 | 87.7 | 88.6 | 88.0 | 87.8 | 89.1 | 87.6 | 88.2 |
| 16. NPC (MW) | 385 | 385 | 385 | 375 | 375 | 375 | 375 | 375 | 375 | 375 | 375 | 385 | 378 |
| 17. ANOHR EQUATION | ANOHR = NOF( | -11.562 | ) + | | 11,647 | | | | | | | | |

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

| PLANT/UNIT | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | PERIOD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BIG BEND 4 | Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 | Jul-10 | Aug-10 | Sep-10 | Oct-10 | Nov-10 | Dec-10 | 2010 |
| 1. EAF (%) | 81.8 | 81.8 | 68.6 | 0.0 | 26.4 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8 | 81.8 | 69.2 |
| 2. POF | 0.0 | 0.0 | 16.2 | 100.0 | 67.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.3 |
| 3. EUOF | 18.2 | 18.2 | 15.3 | 0.0 | 5.9 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 15.4 |
| 4. EUOR | 18.2 | 18.2 | 18.2 | 0.0 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 | 18.2 |
| 5. PH | 744 | 672 | 743 | 720 | 744 | 720 | 744 | 744 | 720 | 744 | 721 | 744 | 8,760 |
| 6. SH | 654 | 591 | 550 | 0 | 211 | 633 | 654 | 654 | 633 | 654 | 633 | 654 | 6,525 |
| 7. RSH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8. UH | 90 | 81 | 193 | 720 | 533 | 87 | 90 | 90 | 87 | 90 | 88 | 90 | 2,235 |
| 9. POH | 0 | 0 | 120 | 720 | 504 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,344 |
| 10. EFOH | 85 | 77 | 71 | 0 | 27 | 82 | 85 | 85 | 82 | 85 | 82 | 85 | 848 |
| 11. EMOH | 51 | 46 | 42 | 0 | 16 | 49 | 51 | 51 | 49 | 51 | 49 | 51 | 504 |
| 12. OPER BTU (GBTU) | 2,669 | 2,426 | 2,243 | 0 | 856 | 2,563 | 2,653 | 2,659 | 2,572 | 2,641 | 2,576 | 2,711 | 26,572 |
| 13. NET GEN (MWH) | 252,600 | 230,602 | 212,213 | 0 | 79,983 | 239,272 | 247,944 | 248,838 | 240,624 | 246,057 | 241,286 | 253,012 | 2,492,431 |
| 14. ANOHR (Btu/kwh) | 10,567 | 10,518 | 10,570 | 0 | 10,701 | 10,714 | 10,701 | 10,686 | 10,689 | 10,735 | 10,677 | 10,713 | 10,661 |
| 15. NOF (%) | 90.4 | 91.4 | 90.3 | 0.0 | 87.7 | 87.4 | 87.7 | 88.0 | 87.9 | 87.0 | 88.2 | 87.5 | 88.5 |
| 16. NPC (MW) | 427 | 427 | 427 | 432 | 432 | 432 | 432 | 432 | 432 | 432 | 432 | 442 | 432 |
| 17. ANOHR EQUATION | ANOHR = NOF( | | -49.970 | ) + | 15,084 | | | | | | | | |

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

| PLANT/UNIT | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | PERIOD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| POLK 1 | Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 | Jul-10 | Aug-10 | Sep-10 | Oct-10 | Nov-10 | Dec-10 | 2010 |
| 1. EAF (%) | 88.3 | 44.1 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 88.3 | 84.9 |
| 2. POF | 0.0 | 50.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 |
| 3. EUOF | 11.7 | 5.9 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.3 |
| 4. EUOR | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 | 11.7 |
| 5. PH | 744 | 672 | 743 | 720 | 744 | 720 | 744 | 744 | 720 | 744 | 721 | 744 | 8,760 |
| 6. SH | 734 | 331 | 734 | 710 | 734 | 710 | 734 | 734 | 710 | 734 | 592 | 734 | 8,189 |
| 7. RSH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 119 | 0 | 119 |
| 8. UH | 10 | 341 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 452 |
| 9. POH | 0 | 336 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 336 |
| 10. EFOH | 67 | 30 | 67 | 65 | 67 | 65 | 67 | 67 | 65 | 67 | 65 | 67 | 755 |
| 11. EMOH | 20 | 9 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 231 |
| 12. OPER BTU (GBTU) | 1,599 | 722 | 1,599 | 1,547 | 1,599 | 1,547 | 1,599 | 1,599 | 1,547 | 1,599 | 1,289 | 1,599 | 17,844 |
| 13. NET GEN (MWH) | 154,124 | 69,618 | 154,074 | 149,180 | 154,078 | 149,096 | 154,084 | 154,112 | 149,155 | 153,995 | 124,297 | 154,089 | 1,719,902 |
| 14. ANOHR (Btu/kwh) | 10,373 | 10,371 | 10,377 | 10,371 | 10,376 | 10,377 | 10,376 | 10,374 | 10,373 | 10,382 | 10,372 | 10,376 | 10,375 |
| 15. NOF (%) | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.4 | 89.3 | 89.4 | 89.4 | 89.4 |
| 16. NPC (MW) | 235 | 235 | 235 | 235 | 235 | 235 | 235 | 235 | 235 | 235 | 235 | 235 | 235 |
| 17. ANOHR EQUATION | ANOHR = NOF( | -117.876 | ) + | | 20,910 | | | | | | | | |

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

| PLANT/UNIT | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | PERIOD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BAYSIDE 1 | Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 | Jul-10 | Aug-10 | Sep-10 | Oct-10 | Nov-10 | Dec-10 | 2010 |
| 1. EAF (%) | 99.4 | 99.4 | 99.4 | 76.2 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 93.0 | 82.8 | 99.4 | 95.6 |
| 2. POF | 0.0 | 0.0 | 0.0 | 23.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.5 | 16.6 | 0.0 | 3.8 |
| 3. EUOF | 0.6 | 0.6 | 0.6 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.5 | 0.6 | 0.6 |
| 4. EUOR | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 5. PH | 744 | 672 | 743 | 720 | 744 | 720 | 744 | 744 | 720 | 744 | 721 | 744 | 8,760 |
| 6. SH | 732 | 666 | 738 | 547 | 738 | 714 | 738 | 738 | 714 | 690 | 520 | 606 | 8,138 |
| 7. RSH | 7 | 2 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 78 | 134 | 233 |
| 8. UH | 5 | 4 | 5 | 171 | 5 | 4 | 5 | 5 | 4 | 52 | 124 | 5 | 388 |
| 9. POH | 0 | 0 | 0 | 168 | 0 | 0 | 0 | 0 | 0 | 48 | 120 | 0 | 336 |
| 10. EFOH | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 16 |
| 11. EMOH | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 36 |
| 12. OPER BTU (GBTU) | 2,776 | 2,894 | 3,163 | 2,451 | 3,253 | 3,081 | 3,229 | 3,271 | 3,085 | 2,974 | 2,030 | 2,238 | 34,465 |
| 13. NET GEN (MWH) | 379,143 | 397,871 | 434,591 | 340,071 | 450,921 | 426,511 | 447,339 | 453,660 | 427,055 | 411,703 | 279,340 | 305,311 | 4,753,516 |
| 14. ANOHR (Btu/kwh) | 7,323 | 7,273 | 7,278 | 7,207 | 7,214 | 7,224 | 7,217 | 7,211 | 7,223 | 7,224 | 7,266 | 7,331 | 7,250 |
| 15. NOF (%) | 65.4 | 75.4 | 74.4 | 88.7 | 87.2 | 85.2 | 86.5 | 87.7 | 85.4 | 85.1 | 76.7 | 63.7 | 79.9 |
| 16. NPC (MW) | 792 | 792 | 792 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 701 | 792 | 731 |

17. ANOHR EQUATION ANOHR = NOF( -4.988 ) + 7,649

38

TAMPA ELECTRIC COMPANY

ESTIMATED UNIT PERFORMANCE DATA

JANUARY 2010 - DECEMBER 2010

| PLANT/UNIT | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | MONTH OF: | PERIOD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BAYSIDE 2 | Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 | Jul-10 | Aug-10 | Sep-10 | Oct-10 | Nov-10 | Dec-10 | 2010 |
| 1. EAF (%) | 99.4 | 95.9 | 80.2 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 76.3 | 99.4 | 95.6 |
| 2. POF | 0.0 | 3.6 | 19.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 23.3 | 0.0 | 3.8 |
| 3. EUOF | 0.6 | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.4 | 0.6 | 0.5 |
| 4. EUOR | 0.6 | 0.6 | 0.6 | 0.6 | 0.0 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 5. PH | 744 | 672 | 743 | 720 | 744 | 720 | 744 | 744 | 720 | 744 | 721 | 744 | 8,760 |
| 6. SH | 402 | 523 | 426 | 610 | 568 | 529 | 568 | 596 | 543 | 561 | 284 | 292 | 5,902 |
| 7. RSH | 338 | 122 | 170 | 106 | 171 | 187 | 172 | 143 | 173 | 179 | 266 | 448 | 2,474 |
| 8. UH | 4 | 28 | 147 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 171 | 4 | 384 |
| 9. POH | 0 | 24 | 144 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 168 | 0 | 336 |
| 10. EFOH | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 26 |
| 11. EMOH | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 22 |
| 12. OPER BTU (GBTU) | 1,595 | 2,318 | 2,061 | 3,066 | 3,049 | 2,866 | 3,132 | 3,305 | 2,873 | 2,843 | 1,266 | 1,223 | 29,646 |
| 13. NET GEN (MWH) | 211,787 | 309,386 | 276,305 | 414,840 | 414,368 | 389,818 | 426,445 | 450,249 | 390,094 | 384,971 | 170,055 | 162,853 | 4,001,171 |
| 14. ANOHR (Btu/kwh) | 7,529 | 7,491 | 7,458 | 7,390 | 7,358 | 7,353 | 7,344 | 7,341 | 7,365 | 7,386 | 7,443 | 7,511 | 7,409 |
| 15. NOF (%) | 50.3 | 56.5 | 62.0 | 73.2 | 78.5 | 79.3 | 80.8 | 81.3 | 77.3 | 73.8 | 64.5 | 53.3 | 70.0 |
| 16. NPC (MW) | 1,047 | 1,047 | 1,047 | 929 | 929 | 929 | 929 | 929 | 929 | 929 | 929 | 1,047 | 968 |

17. ANOHR EQUATION ANOHR = NOF( -6.070 ) + 7,834

39

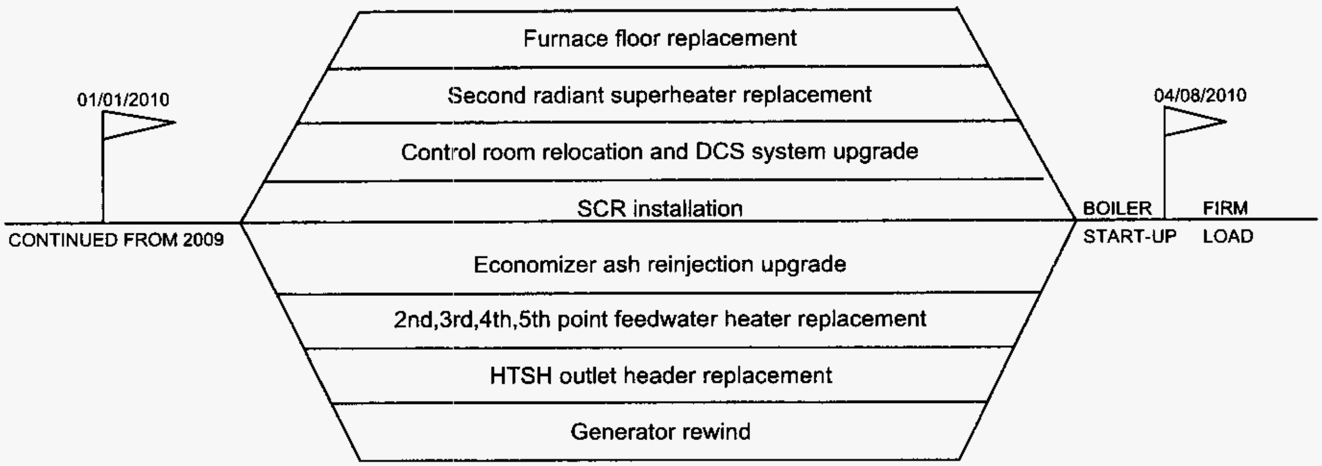
ORIGINAL SHEET NO. 8.401.10E
PAGE 20 OF 40

**TAMPA ELECTRIC COMPANY**
**ESTIMATED PLANNED OUTAGE SCHEDULE**
**GPIF UNITS**
**JANUARY 2010 - DECEMBER 2010**

| | PLANT / UNIT | PLANNED OUTAGE DATES | | | OUTAGE DESCRIPTION |
|---|---|---|---|---|---|
| + | BIG BEND 1 | Jan 01 | - | Apr 08 | SCR Outage, Furnace floor replacement, Second radiant superheater replacement, Control room relocation and DCS system upgrade, 2nd,3rd,4th,5th point feedwater heater replacement, Economizer ash reinjection upgrade, HTSH outlet header replacement and Generator rewind |
| | BIG BEND 2 | Feb 13 | - | Feb 28 | Fuel System Cleanup |
| | BIG BEND 3 | Mar 14 | - | Mar 23 | Fuel System Cleanup |
| | | Oct 09 | - | Oct 29 | Fuel System Cleanup and Scrubber work |
| + | BIG BEND 4 | Mar 27 | - | May 21 | DA tank replacement, Boiler superheater platen section replacement, Condenser tube bundle replacement, 1st & 2nd point feedwater replacement, Condenser ball cleaning system install, Scrubber work and Stack liner install |
| | POLK 1 | Feb 07 | - | Feb 20 | Gasifier / CT Outage |
| | | Nov 07 | - | Nov 11 | Gasifier Outage |
| | BAYSIDE 1 | Apr 10 | - | Apr 16 | Fuel System Cleanup |
| | | Oct 30 | - | Nov 05 | Fuel System Cleanup |
| | BAYSIDE 2 | Feb 28 | - | Mar 06 | Fuel System Cleanup |
| | | Nov 13 | - | Nov 19 | Fuel System Cleanup |

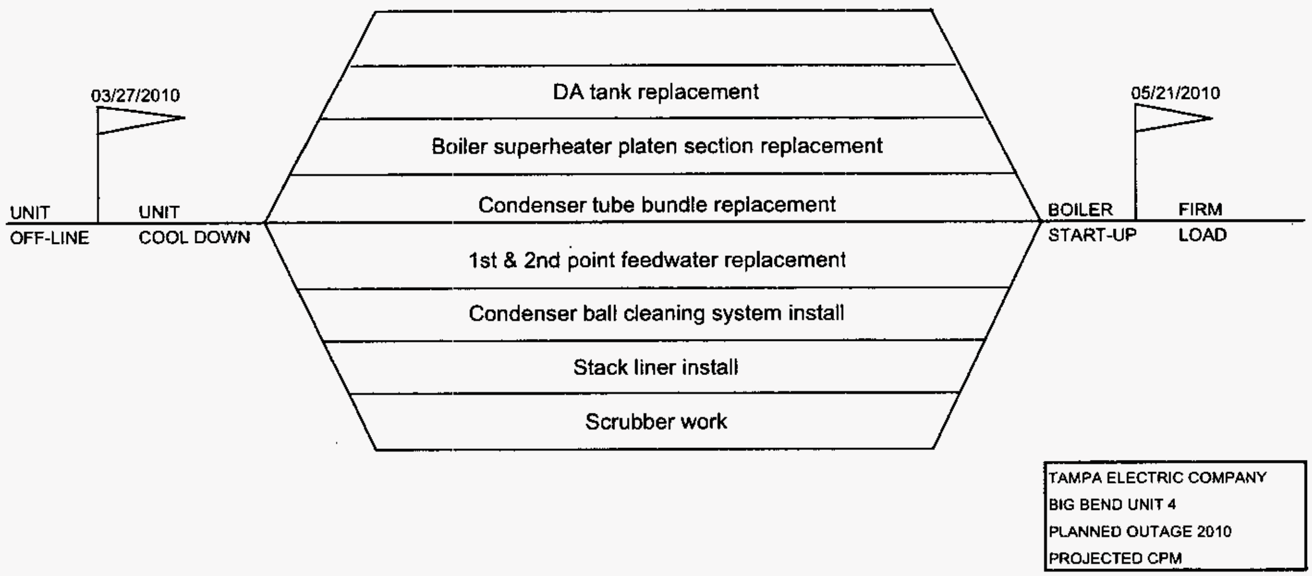
**+ CPM for units with planned outages greater than 4 weeks are included.**

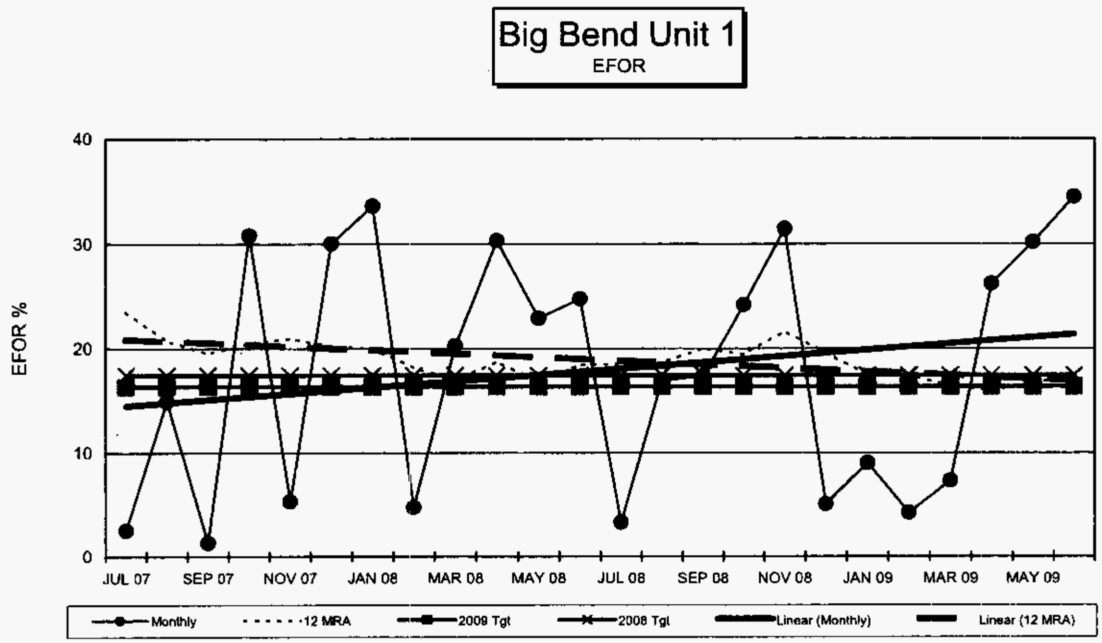
**TAMPA ELECTRIC COMPANY**
**CRITICAL PATH METHOD DIAGRAMS**
**GPIF UNITS > FOUR WEEKS**
**JANUARY 2010 - DECEMBER 2010**

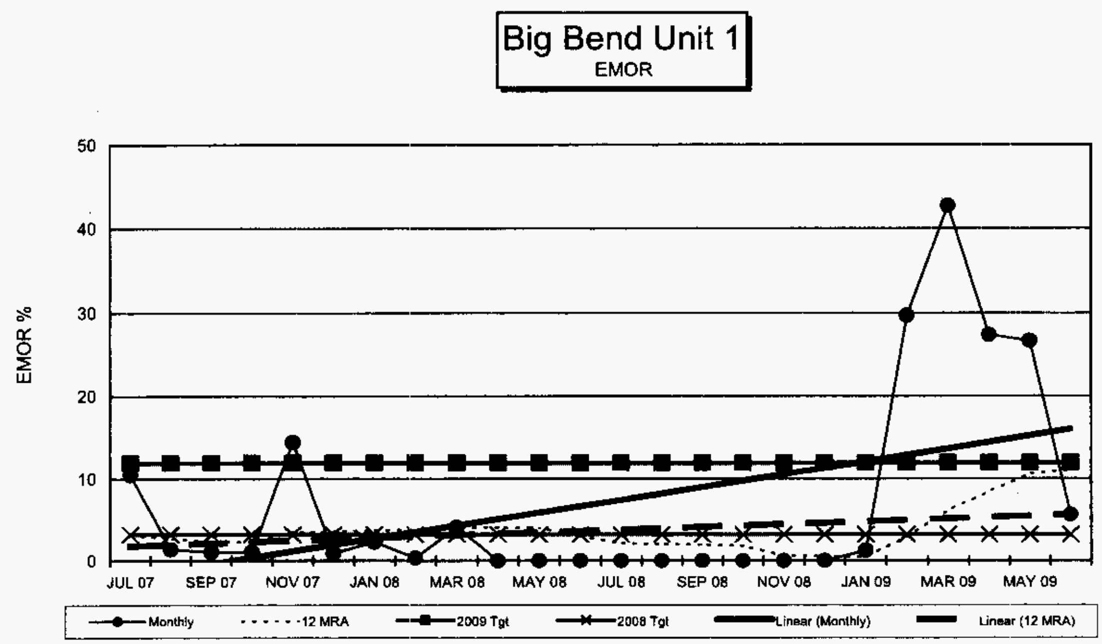



TAMPA ELECTRIC COMPANY
BIG BEND UNIT 1
PLANNED OUTAGE 2010
PROJECTED CPM

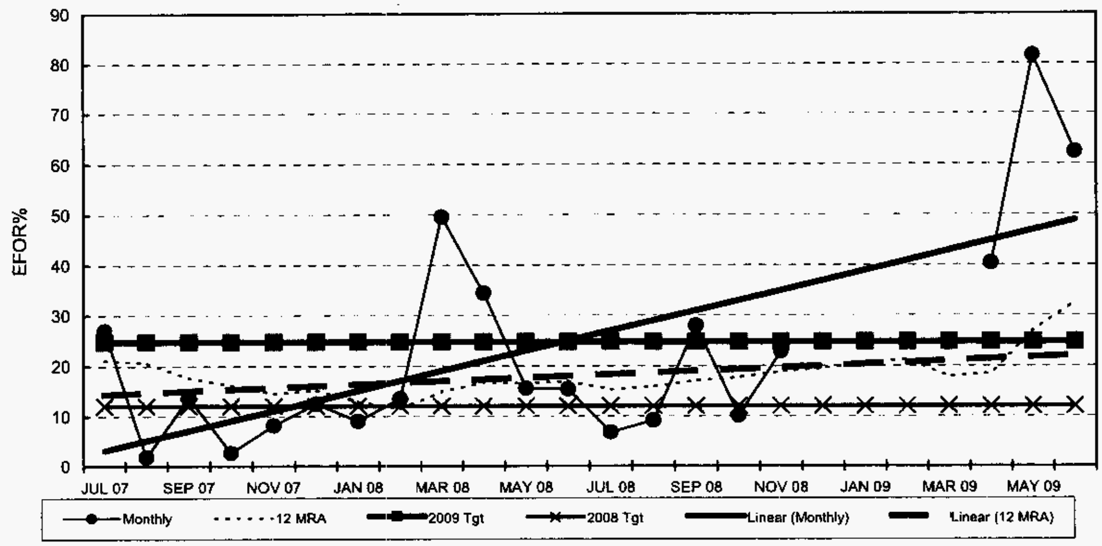
**TAMPA ELECTRIC COMPANY**
**CRITICAL PATH METHOD DIAGRAMS**
**GPIF UNITS > FOUR WEEKS**
**JANUARY 2010 - DECEMBER 2010**



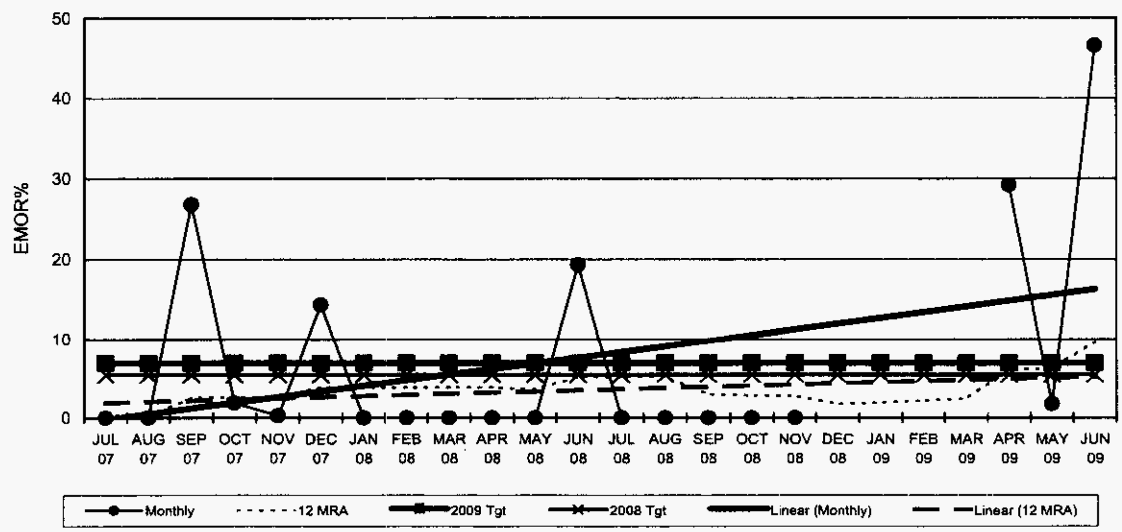

Big Bend Unit 1
EFOR
EFOR %
40
30
20
10
0
JUL 07
SEP 07
NOV 07
JAN 08
MAR 08
MAY 08
JUL 08
SEP 08
NOV 08
JAN 09
MAR 09
MAY 09
Monthly
12 MRA
2009 Tgt
2008 Tgt
Linear (Monthly)
Linear (12 MRA)


Big Bend Unit 1
EMOR
EMOR %
50
40
30
20
10
0
JUL 07
SEP 07
NOV 07
JAN 08
MAR 08
MAY 08
JUL 08
SEP 08
NOV 08
JAN 09
MAR 09
MAY 09
Monthly
12 MRA
2009 Tgt
2008 Tgt
Linear (Monthly)
Linear (12 MRA)

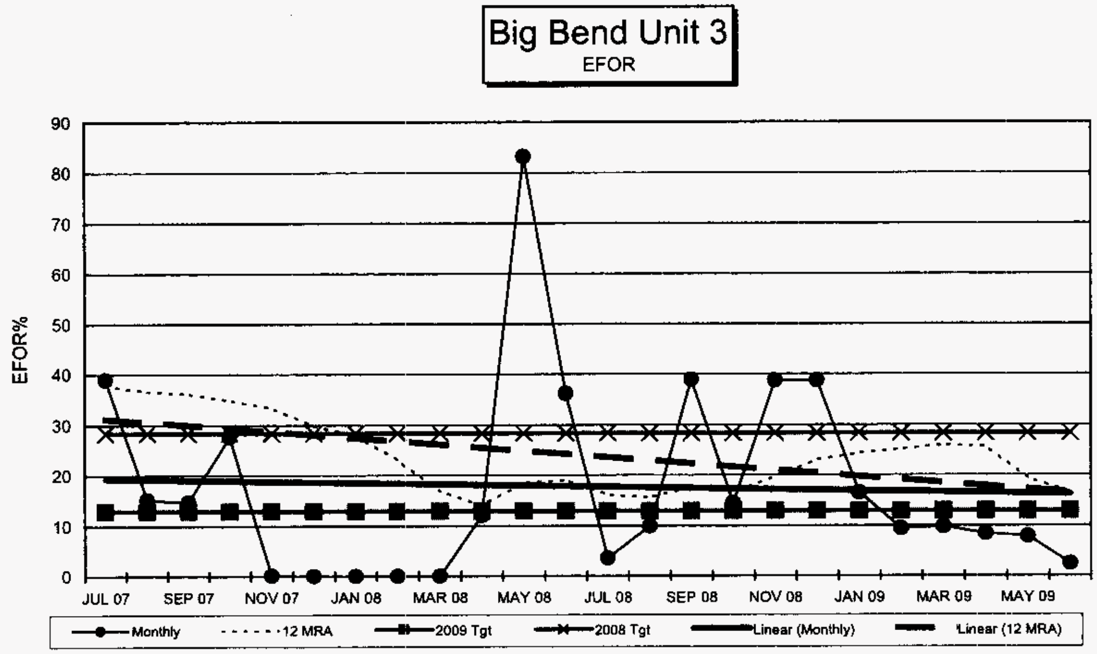
## Big Bend Unit 2
EFOR

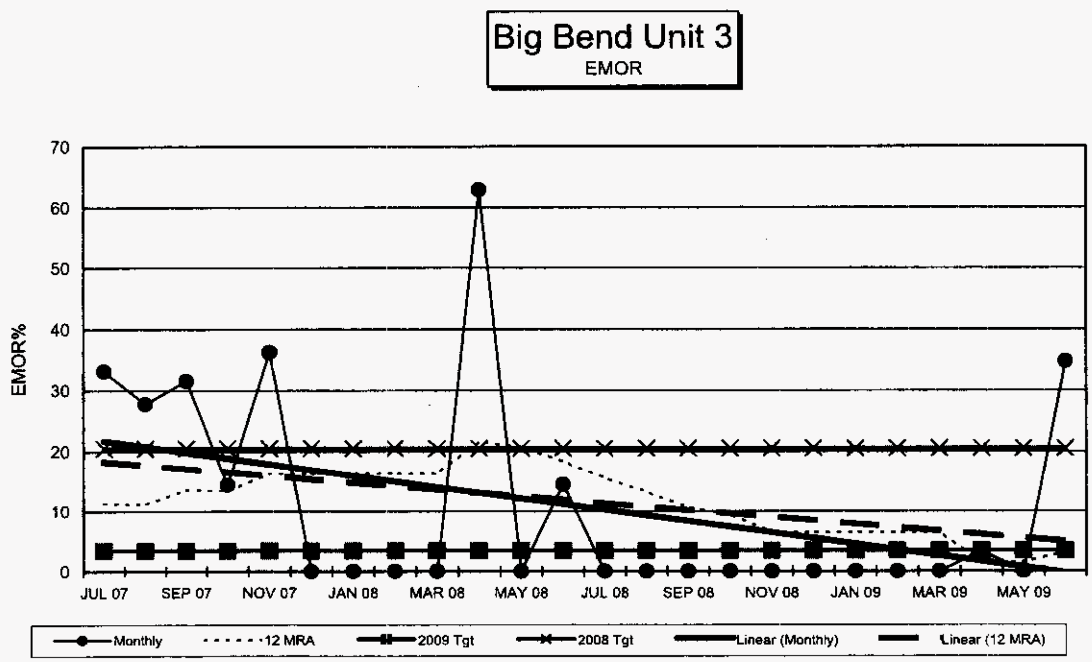



## Big Bend Unit 2
EMOR

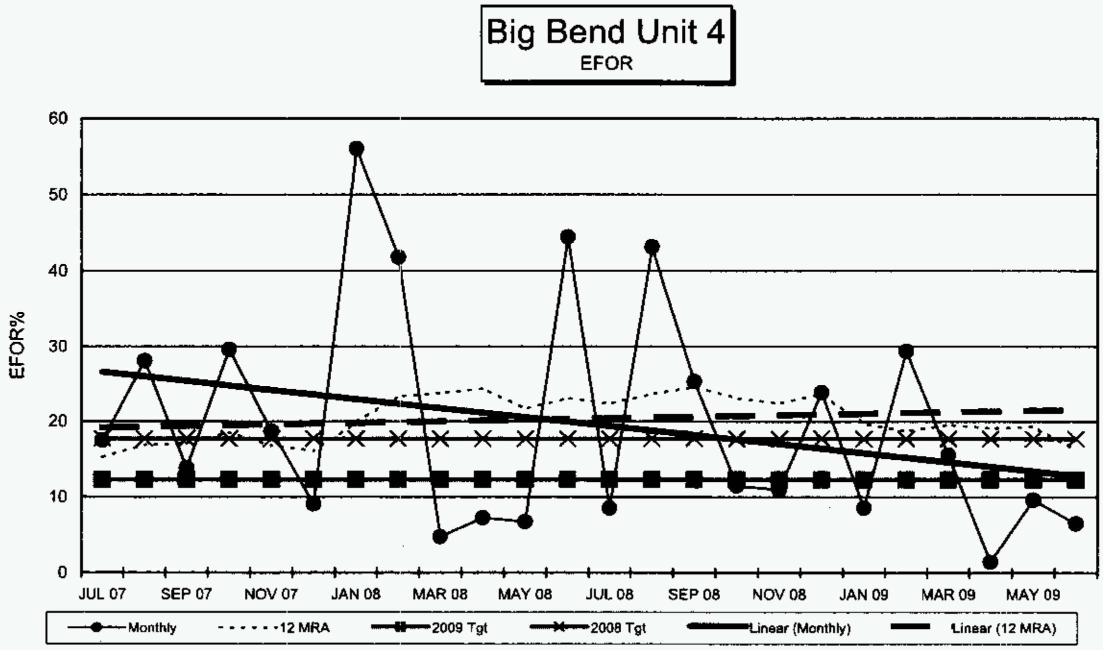


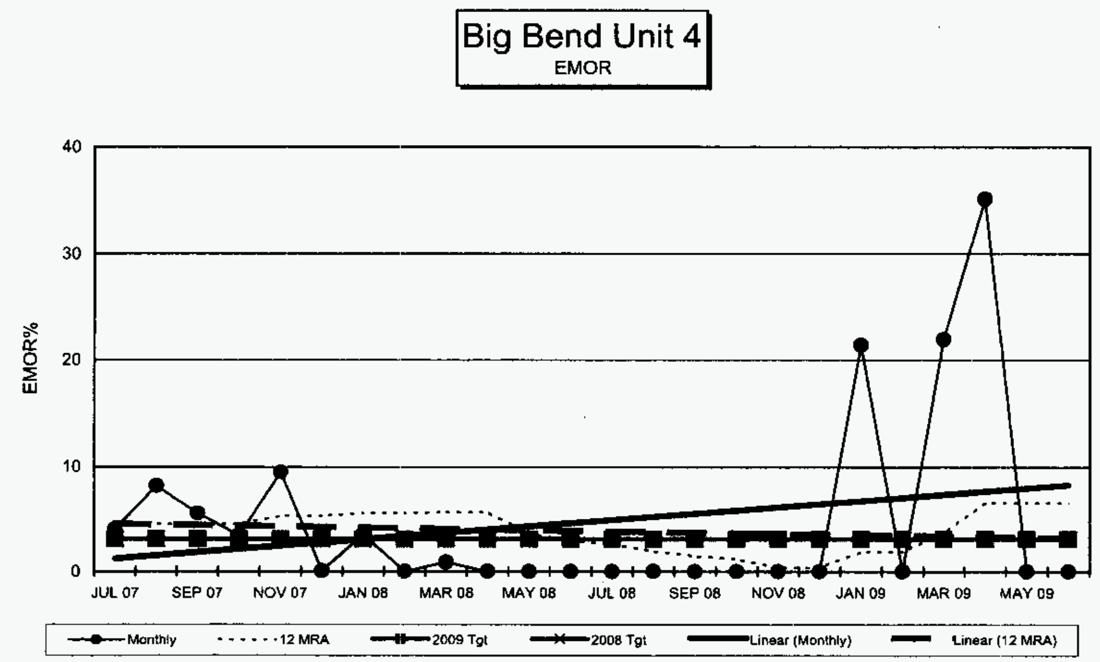

Note: Big Bend Unit 2 was offline for SCR installation from 11/24/2008 to 4/7/2009; therefore, data is not available for this time period.

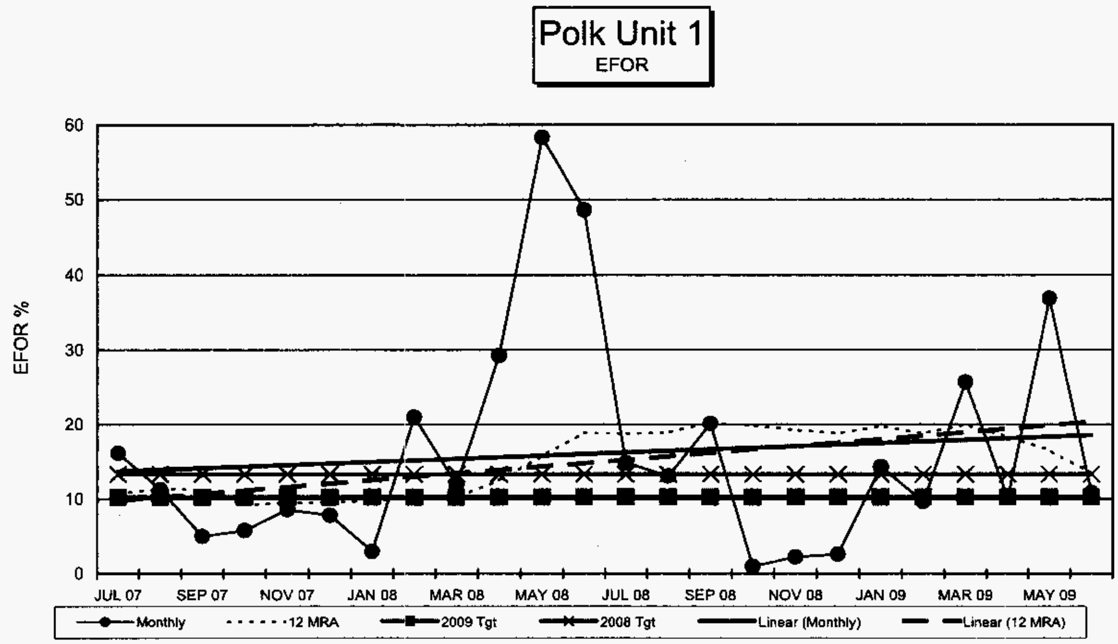


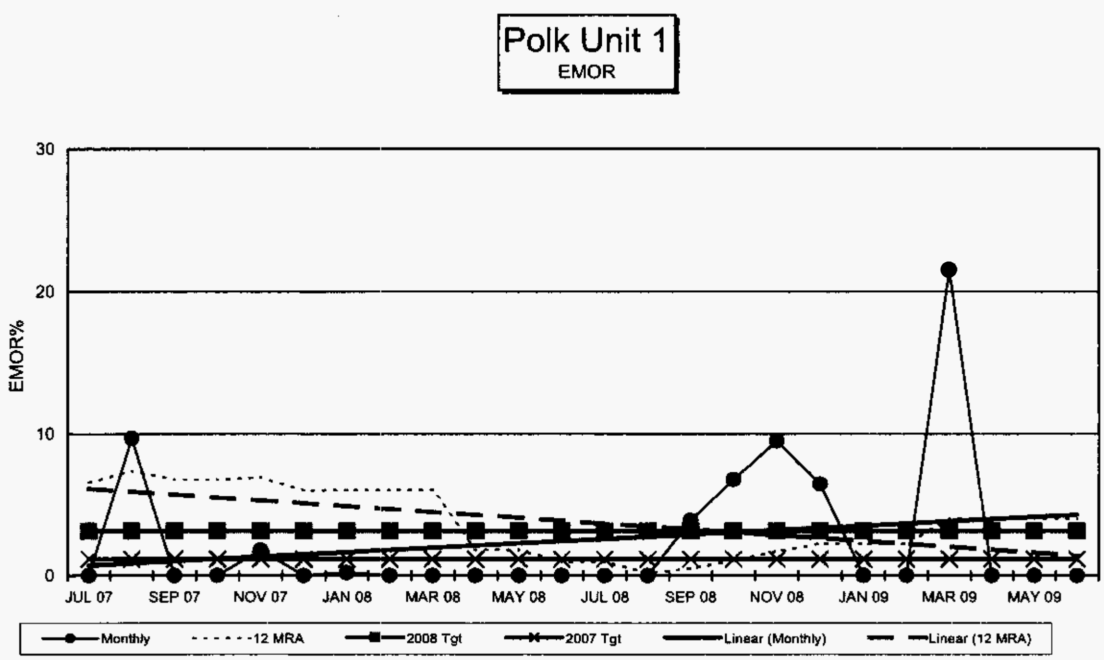




Note: Big Bend Unit 3 was offline for SCR installation from 11/18/2007 to 4/28/2008; therefore, data is not available for this time period.

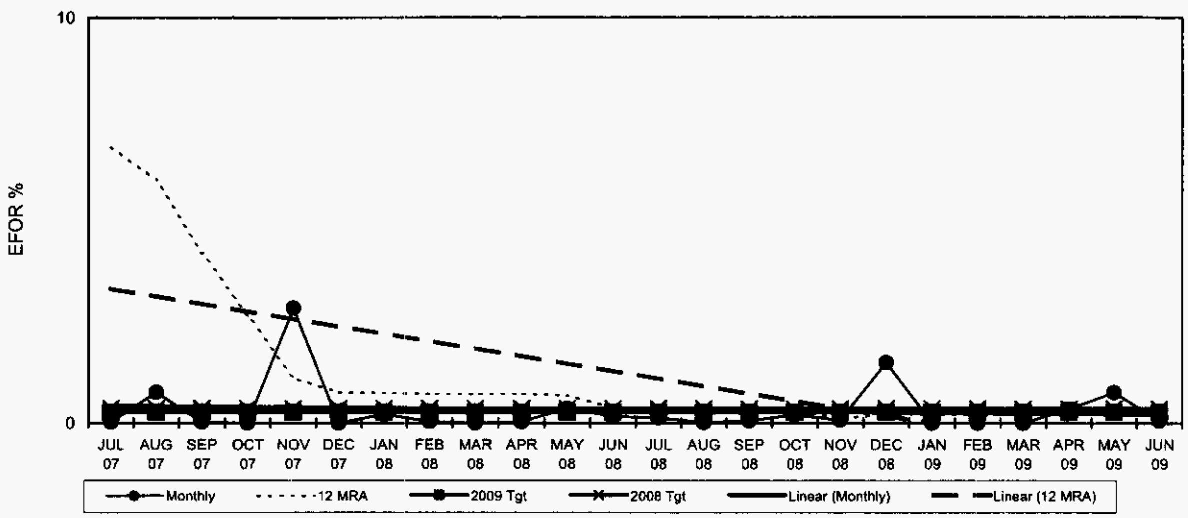

Big Bend Unit 4
EFOR
EFOR%
60
50
40
30
20
10
0
JUL 07
SEP 07
NOV 07
JAN 08
MAR 08
MAY 08
JUL 08
SEP 08
NOV 08
JAN 09
MAR 09
MAY 09
Monthly
12 MRA
2009 Tgt
2008 Tgt
Linear (Monthly)
Linear (12 MRA)


Big Bend Unit 4
EMOR
EMOR%
40
30
20
10
0
JUL 07
SEP 07
NOV 07
JAN 08
MAR 08
MAY 08
JUL 08
SEP 08
NOV 08
JAN 09
MAR 09
MAY 09
Monthly
12 MRA
2009 Tgt
2008 Tgt
Linear (Monthly)
Linear (12 MRA)

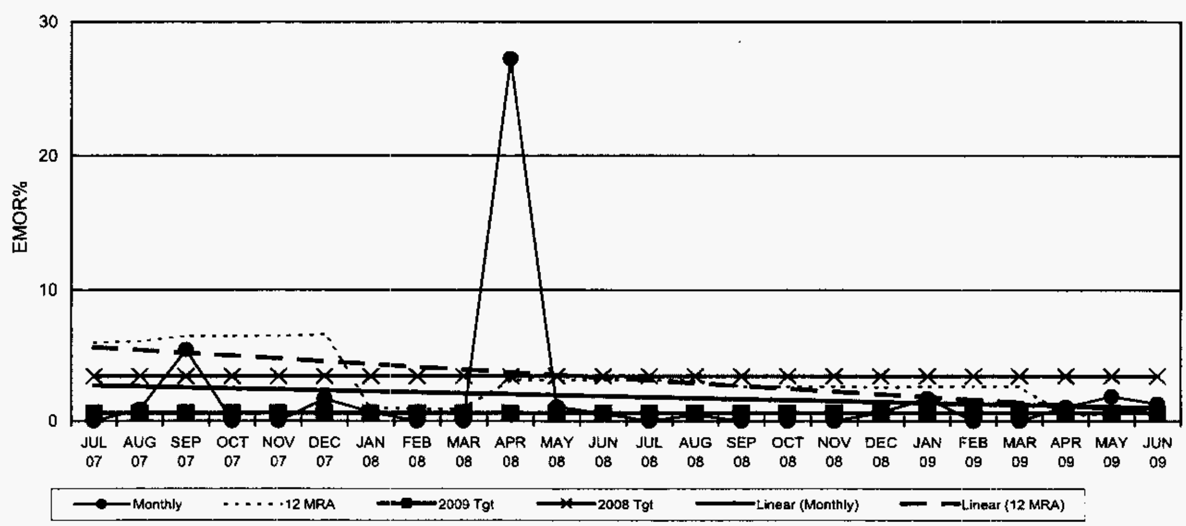

Polk Unit 1
EFOR
EFOR %
60
50
40
30
20
10
0
JUL 07
SEP 07
NOV 07
JAN 08
MAR 08
MAY 08
JUL 08
SEP 08
NOV 08
JAN 09
MAR 09
MAY 09
Monthly
12 MRA
2009 Tgt
2008 Tgt
Linear (Monthly)
Linear (12 MRA)

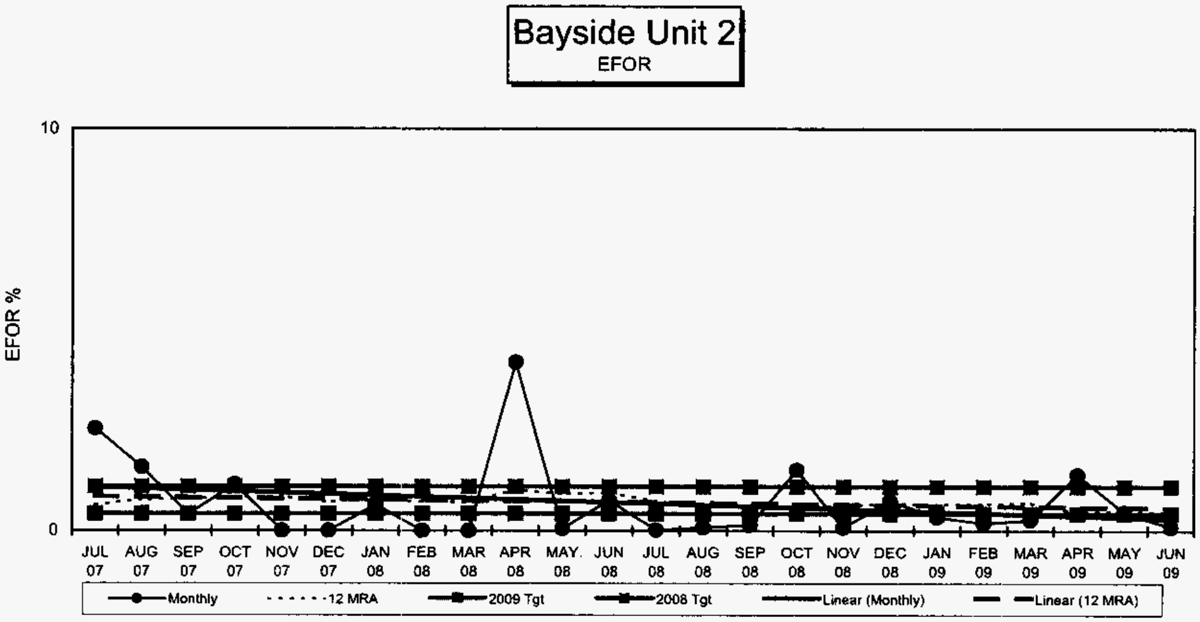

Polk Unit 1
EMOR
EMOR%
30
20
10
0
JUL 07
SEP 07
NOV 07
JAN 08
MAR 08
MAY 08
JUL 08
SEP 08
NOV 08
JAN 09
MAR 09
MAY 09
Monthly
12 MRA
2008 Tgt
2007 Tgt
Linear (Monthly)
Linear (12 MRA)

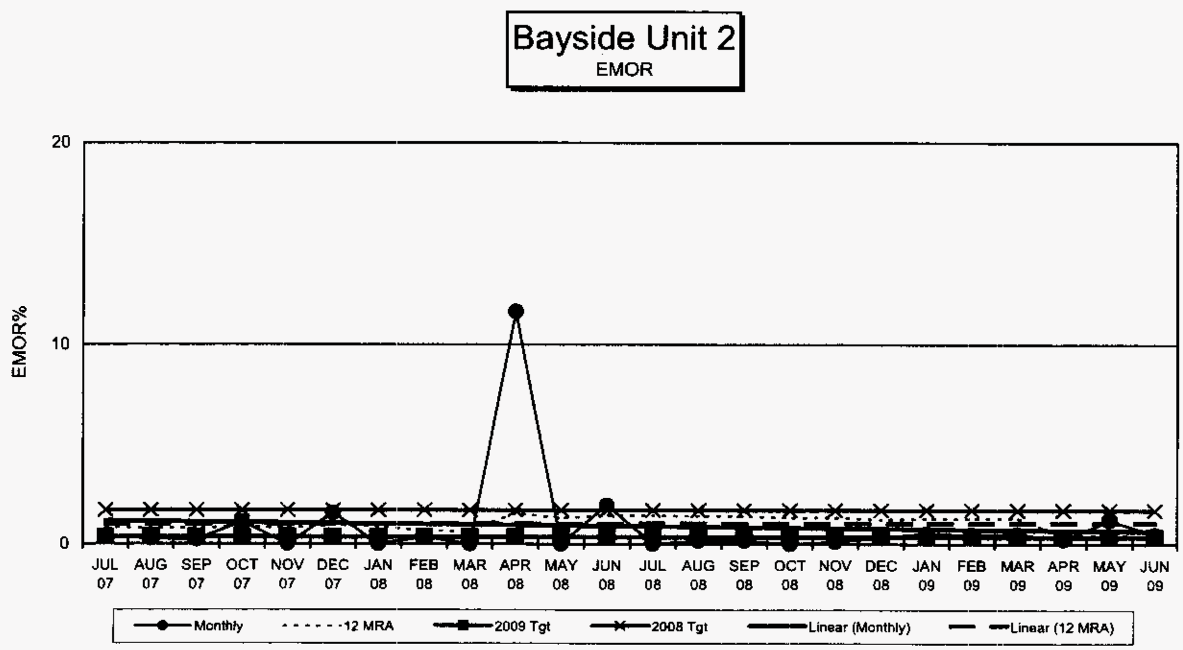
**Bayside Unit 1**
EFOR



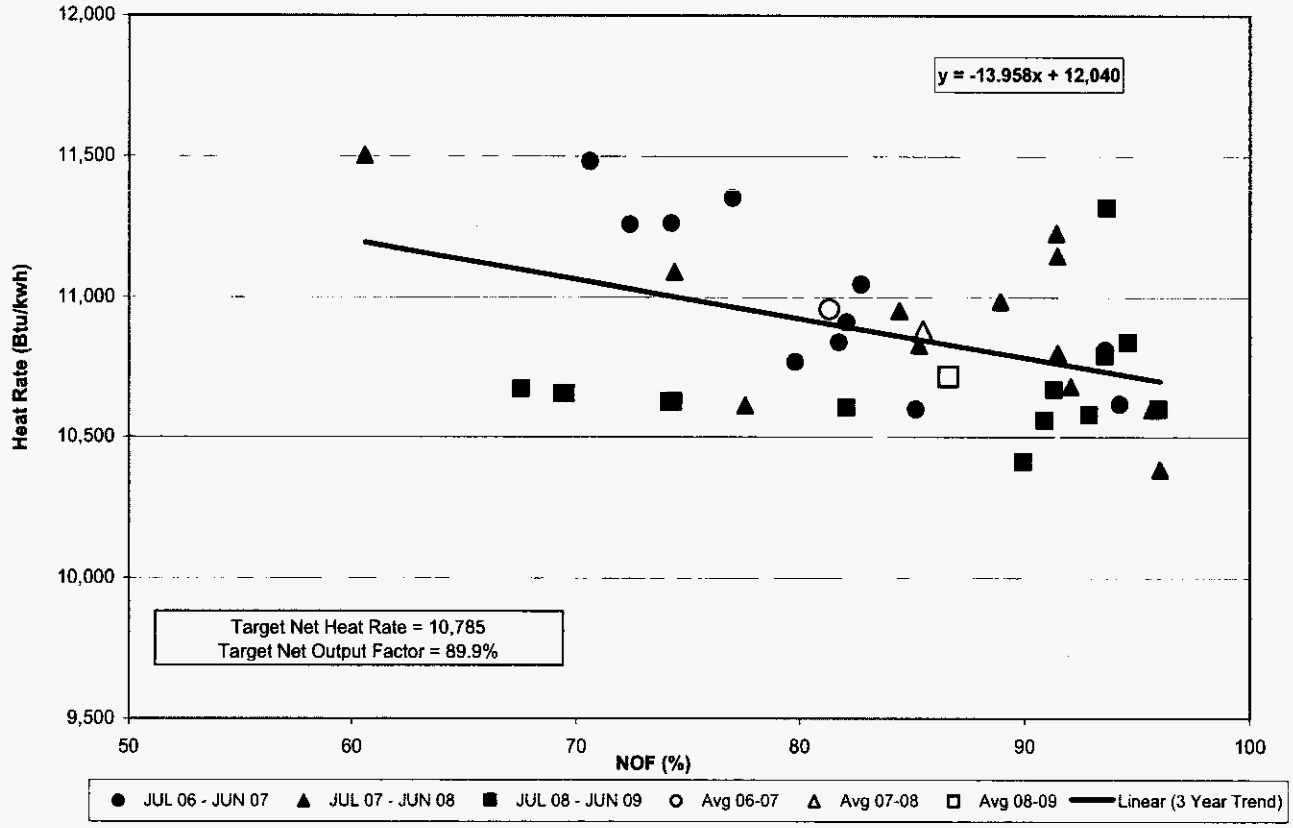

**Bayside Unit 1**
EMOR




Bayside Unit 2
EFOR
10
0
EFOR %
JUL 07
AUG 07
SEP 07
OCT 07
NOV 07
DEC 07
JAN 08
FEB 08
MAR 08
APR 08
MAY 08
JUN 08
JUL 08
AUG 08
SEP 08
OCT 08
NOV 08
DEC 08
JAN 09
FEB 09
MAR 09
APR 09
MAY 09
JUN 09
Monthly
12 MRA
2009 Tgt
2008 Tgt
Linear (Monthly)
Linear (12 MRA)

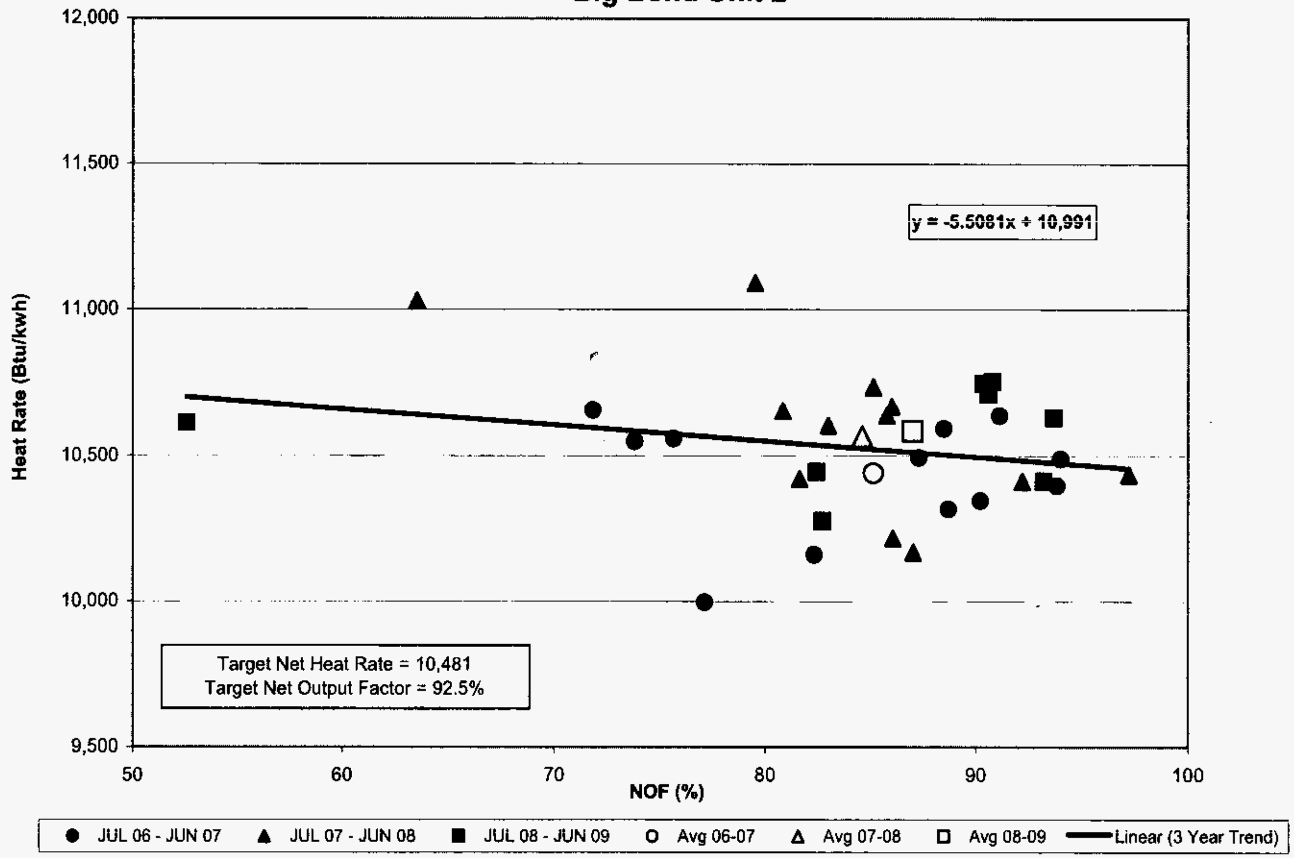

Bayside Unit 2
EMOR
20
10
0
EMOR%
JUL 07
AUG 07
SEP 07
OCT 07
NOV 07
DEC 07
JAN 08
FEB 08
MAR 08
APR 08
MAY 08
JUN 08
JUL 08
AUG 08
SEP 08
OCT 08
NOV 08
DEC 08
JAN 09
FEB 09
MAR 09
APR 09
MAY 09
JUN 09
Monthly
12 MRA
2009 Tgt
2008 Tgt
Linear (Monthly)
Linear (12 MRA)

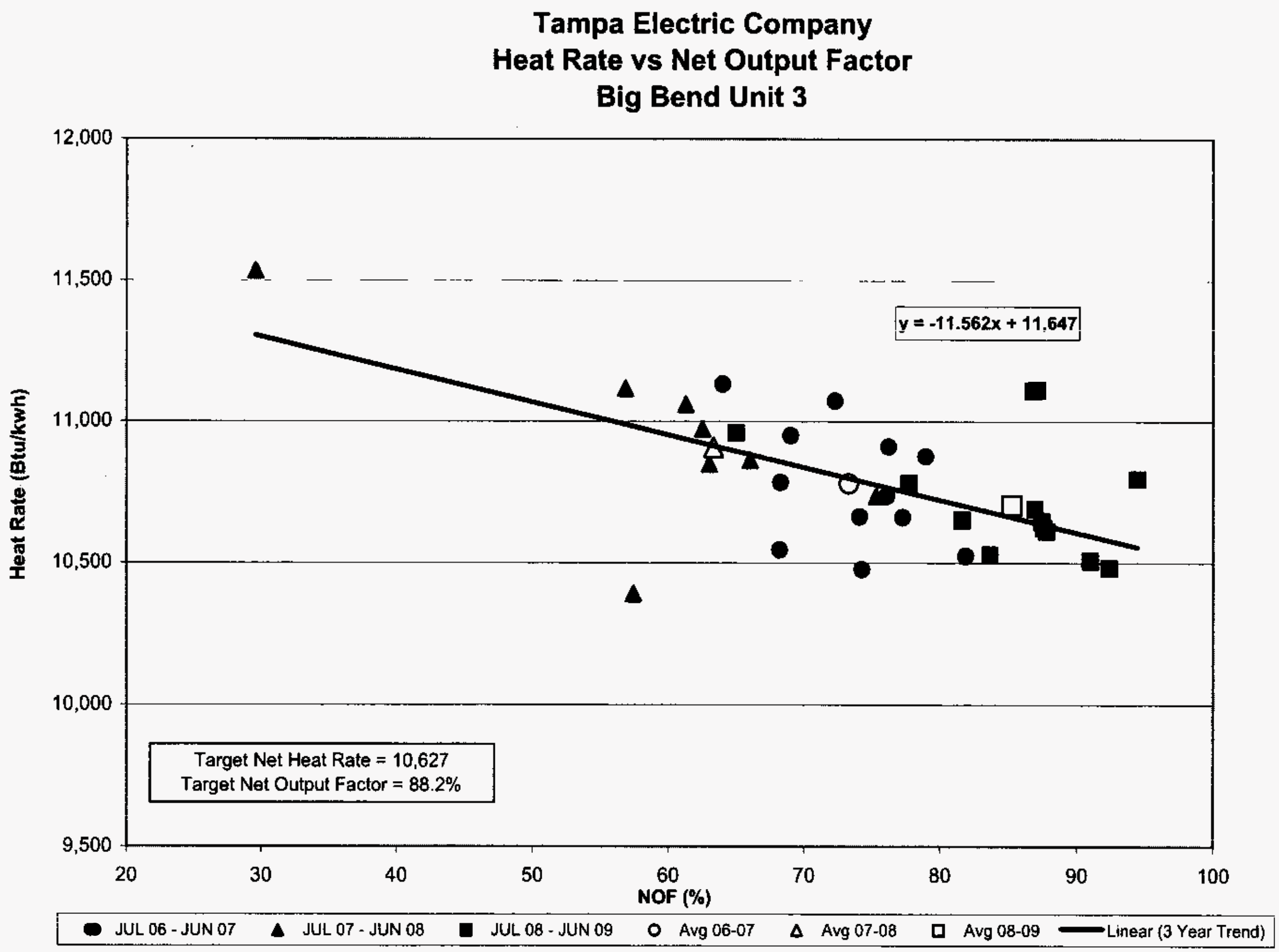
## Tampa Electric Company
## Heat Rate vs Net Output Factor
## Big Bend Unit 1

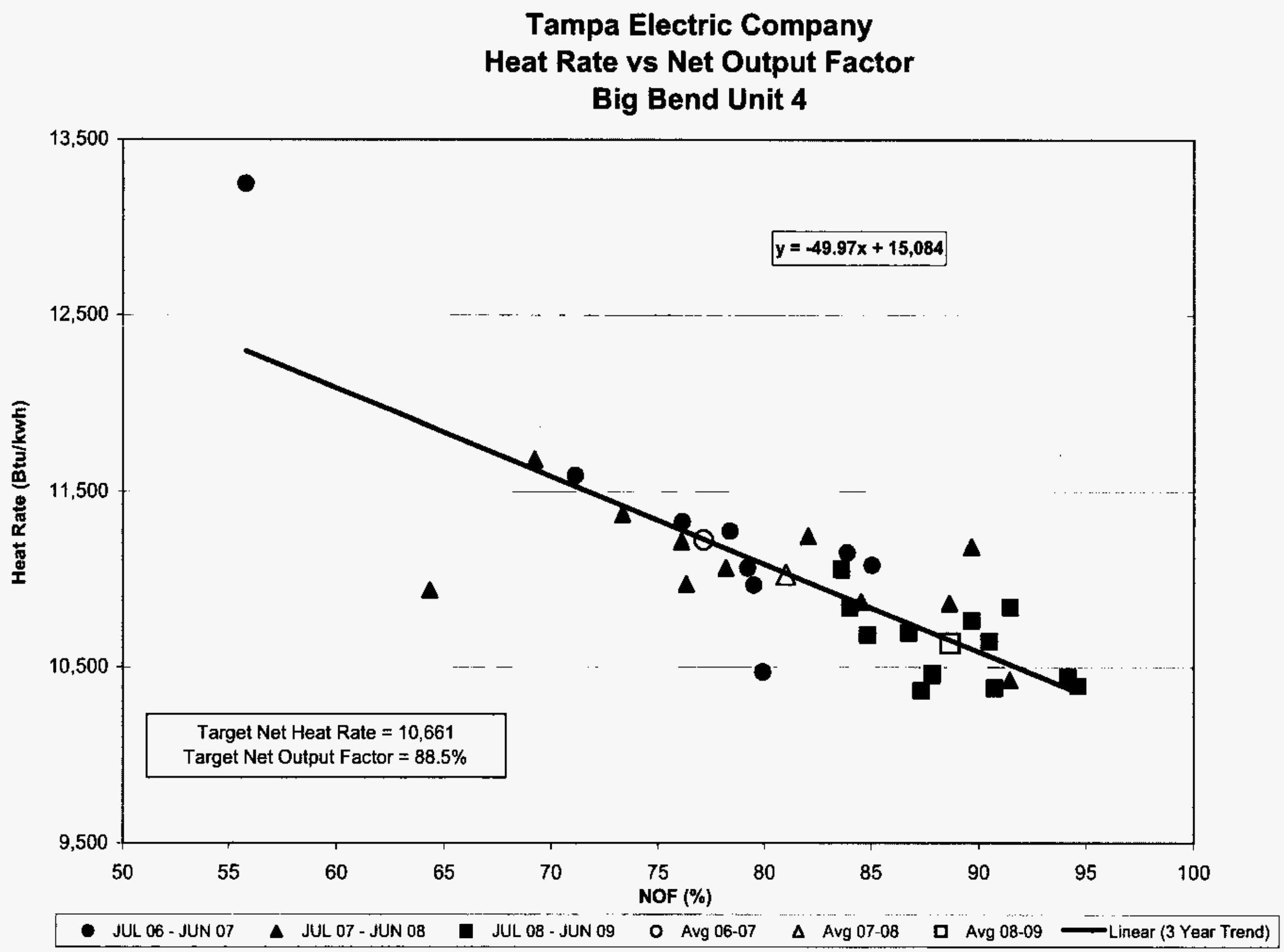



50

# Tampa Electric Company
# Heat Rate vs Net Output Factor
# Big Bend Unit 2

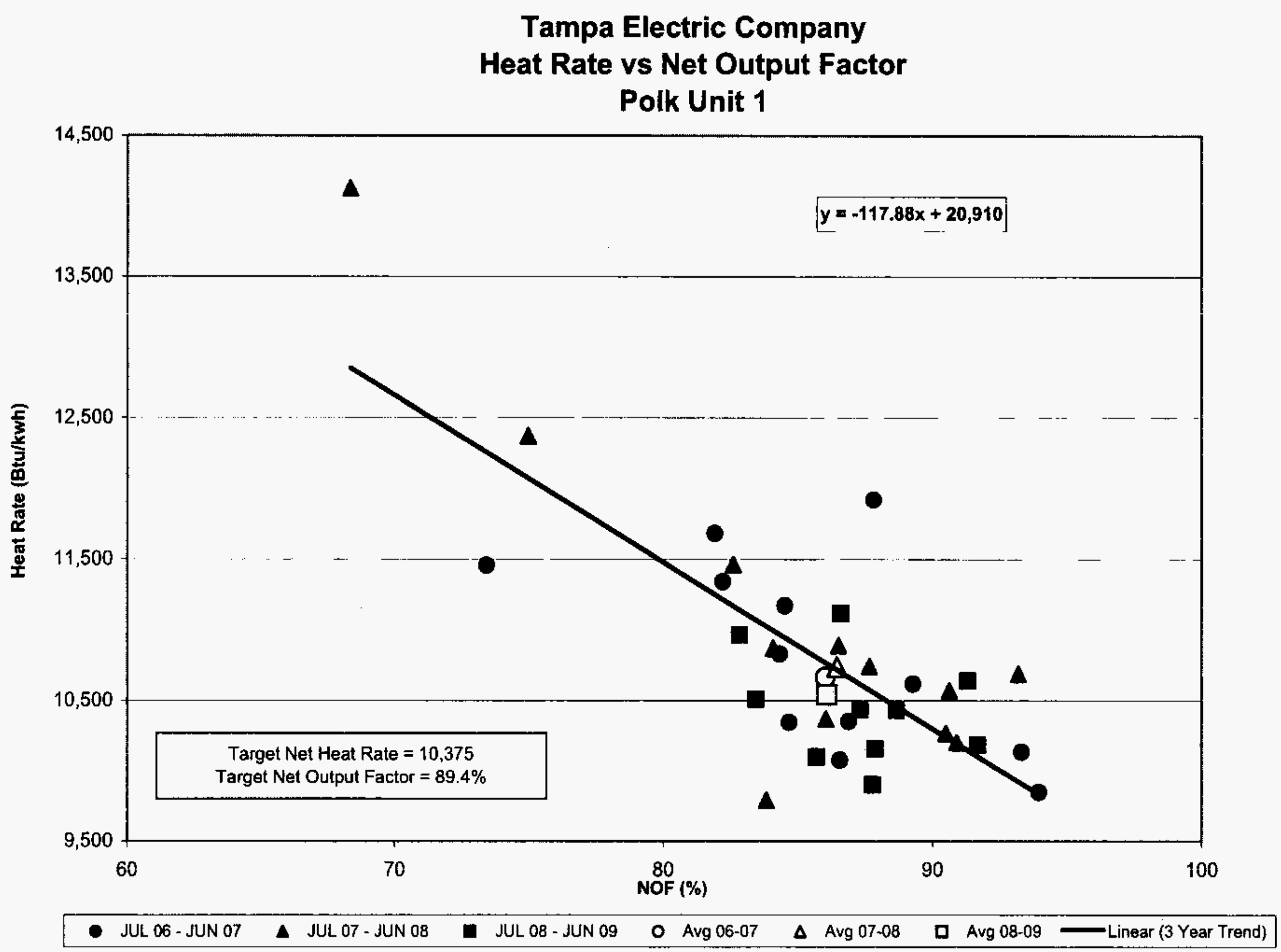


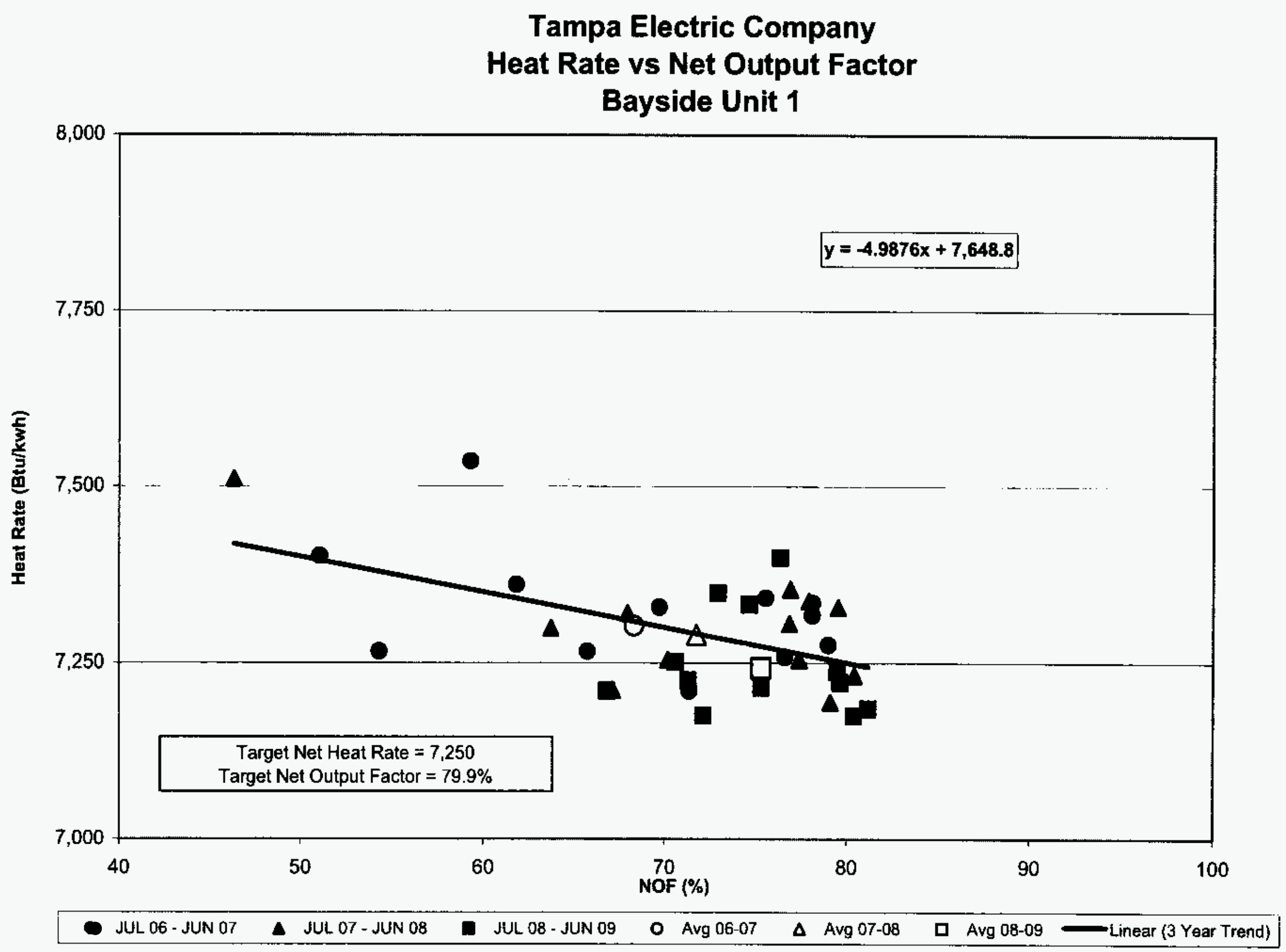

Tampa Electric Company
Heat Rate vs Net Output Factor
Big Bend Unit 3
Heat Rate (Btu/kwh)
12,000
11,500
11,000
10,500
10,000
9,500
y = -11.562x + 11,647
Target Net Heat Rate = 10,627
Target Net Output Factor = 88.2%
20
30
40
50
60
70
80
90
100
NOF (%)
JUL 06 - JUN 07
JUL 07 - JUN 08
JUL 08 - JUN 09
Avg 06-07
Avg 07-08
Avg 08-09
Linear (3 Year Trend)




53

ORIGINAL SHEET NO. 8.401.10E
PAGE 34 OF 40

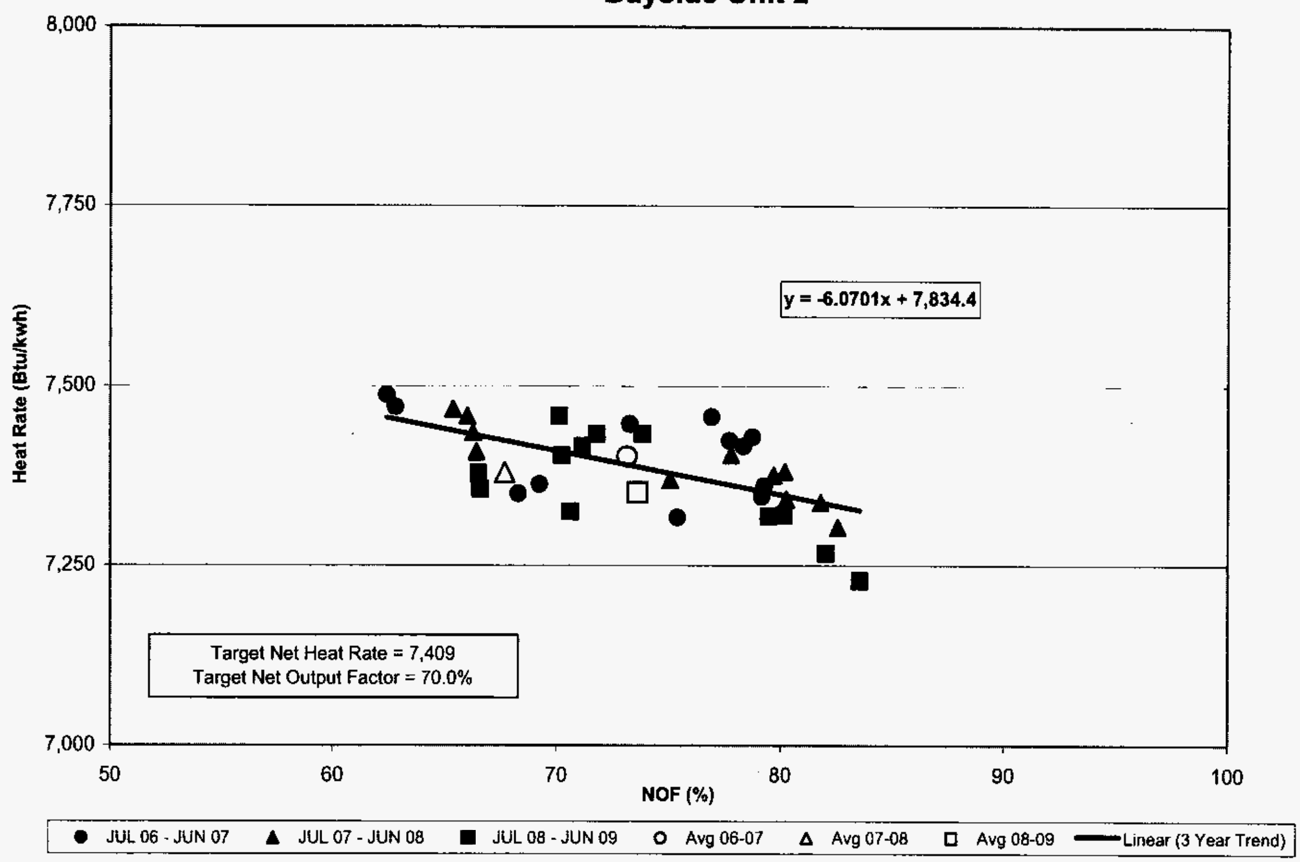

Tampa Electric Company
Heat Rate vs Net Output Factor
Polk Unit 1
y = -117.88x + 20,910
Target Net Heat Rate = 10,375
Target Net Output Factor = 89.4%
Heat Rate (Btu/kwh)
14,500
13,500
12,500
11,500
10,500
9,500
60
70
80
90
100
NOF (%)
JUL 06 - JUN 07
JUL 07 - JUN 08
JUL 08 - JUN 09
Avg 06-07
Avg 07-08
Avg 08-09
Linear (3 Year Trend)




55

ORIGINAL SHEET NO. 8.401.10E
PAGE 36 OF 40

Tampa Electric Company
Heat Rate vs Net Output Factor
Bayside Unit 2




56

**TAMPA ELECTRIC COMPANY**
**GENERATING UNITS IN GPIF**
**TABLE 4.2**
**JANUARY 2010 - DECEMBER 2010**

| PLANT / UNIT | | ANNUAL GROSS MDC (MW) | ANNUAL NET NDC (MW) |
|---|---|---|---|
| BIG BEND 1 | | 413 | 388 |
| BIG BEND 2 | | 413 | 388 |
| BIG BEND 3 | | 403 | 378 |
| BIG BEND 4 | | 465 | 432 |
| POLK 1 | | 305 | 235 |
| BAYSIDE 1 | | 740 | 731 |
| BAYSIDE 2 | | 979 | 968 |
| | GPIF TOTAL | 3,719 | 3,521 |
| | **SYSTEM TOTAL** | **4,706** | **4,498** |
| | **% OF SYSTEM TOTAL** | **79.0%** | **78.3%** |

**TAMPA ELECTRIC COMPANY**
**UNIT RATINGS**
**JANUARY 2010 - DECEMBER 2010**

| PLANT / UNIT | | ANNUAL GROSS MDC (MW) | ANNUAL NET NDC (MW) |
|---|---|---|---|
| BAYSIDE 1 | | 740 | 731 |
| BAYSIDE 2 | | 979 | 968 |
| BAYSIDE 3 | | 59 | 58 |
| BAYSIDE 4 | | 59 | 58 |
| BAYSIDE 5 | | 59 | 58 |
| BAYSIDE 6 | | 59 | 58 |
| | BAYSIDE TOTAL | 1,954 | 1,930 |
| BIG BEND 1 | | 413 | 388 |
| BIG BEND 2 | | 413 | 388 |
| BIG BEND 3 | | 403 | 378 |
| BIG BEND 4 | | 465 | 432 |
| | BIG BEND COAL TOTAL | 1,695 | 1,587 |
| BIG BEND CT4 | | 59 | 58 |
| | BIG BEND CT TOTAL | 59 | 58 |
| COT 1 | | 3 | 3 |
| COT 2 | | 3 | 3 |
| | COT TOTAL | 6 | 6 |
| PHILLIPS 1 | | 18 | 18 |
| PHILLIPS 2 | | 18 | 18 |
| | PHILLIPS TOTAL | 36 | 35 |
| POLK 1 | | 305 | 235 |
| POLK 2 | | 163 | 162 |
| POLK 3 | | 163 | 162 |
| POLK 4 | | 163 | 161 |
| POLK 5 | | 163 | 162 |
| | POLK TOTAL | 956 | 882 |
| | **SYSTEM TOTAL** | **4,706** | **4,498** |

**TAMPA ELECTRIC COMPANY**
**PERCENT GENERATION BY UNIT**
**JANUARY 2010 - DECEMBER 2010**

| PLANT | UNIT | NET OUTPUT MWH | PERCENT OF PROJECTED OUTPUT | PERCENT CUMULATIVE PROJECTED OUTPUT |
|---|---|---|---|---|
| BAYSIDE | 1 | 4,753,516 | 24.05% | 24.05% |
| BAYSIDE | 2 | 4,001,171 | 20.24% | 44.29% |
| BIG BEND | 4 | 2,492,431 | 12.61% | 56.89% |
| BIG BEND | 3 | 2,473,022 | 12.51% | 69.40% |
| BIG BEND | 2 | 2,242,698 | 11.34% | 80.75% |
| BIG BEND | 1 | 1,798,746 | 9.10% | 89.85% |
| POLK | 1 | 1,719,902 | 8.70% | 98.55% |
| BAYSIDE | 3 | 50,569 | 0.26% | 98.80% |
| POLK | 4 | 47,146 | 0.24% | 99.04% |
| POLK | 5 | 42,628 | 0.22% | 99.26% |
| BAYSIDE | 4 | 42,572 | 0.22% | 99.47% |
| BAYSIDE | 5 | 34,230 | 0.17% | 99.65% |
| BAYSIDE | 6 | 28,963 | 0.15% | 99.79% |
| BIG BEND CT | 4 | 19,248 | 0.10% | 99.89% |
| POLK | 2 | 13,310 | 0.07% | 99.96% |
| POLK | 3 | 7,515 | 0.04% | 100.00% |
| PHILLIPS | 1 | 388 | 0.00% | 100.00% |
| PHILLIPS | 2 | 378 | 0.00% | 100.00% |
| TOTAL GENERATION | | 19,768,433 | 100.00% | |

| | | | |
|---|---|---|---|
| GENERATION BY COAL UNITS: | 10,726,799 MWH | GENERATION BY NATURAL GAS UNITS: | 9,040,868 MWH |
| % GENERATION BY COAL UNITS: | 54.26% | % GENERATION BY NATURAL GAS UNITS: | 45.73% |
| GENERATION BY OIL UNITS: | 766 MWH | GENERATION BY GPIF UNITS: | 19,481,486 MWH |
| % GENERATION BY OIL UNITS: | 0.00% | % GENERATION BY GPIF UNITS: | 98.55% |

DOCKET NO. 090001-EI
GPIF 2010 PROJECTION FILING
EXHIBIT NO. ____ (BSB-2)
DOCUMENT NO. 2

EXHIBIT TO THE TESTIMONY OF

BRIAN S. BUCKLEY

DOCUMENT NO. 2

SUMMARY OF GPIF TARGETS

JANUARY 2010 - DECEMBER 2010

# TAMPA ELECTRIC COMPANY
# SUMMARY OF GPIF TARGETS
# JANUARY 2010 - DECEMBER 2010

| | Availability | | | Net |
|---|---|---|---|---|
| | **EAF** | **POF** | **EUOF** | **Heat Rate** |
| **Big Bend 1**[1] | 54.4 | 26.8 | 18.7 | 10,785 |
| **Big Bend 2**[2] | 67.6 | 4.4 | 28.1 | 10,481 |
| **Big Bend 3**[3] | 77.0 | 8.5 | 14.5 | 10,627 |
| **Big Bend 4**[4] | 69.2 | 15.3 | 15.4 | 10,661 |
| **Polk 1**[5] | 84.9 | 3.8 | 11.3 | 10,375 |
| **Bayside 1**[6] | 95.6 | 3.8 | 0.6 | 7,250 |
| **Bayside 2**[7] | 95.6 | 3.8 | 0.5 | 7,409 |

[1] Original Sheet 8.401.10E, Page 14

[2] Original Sheet 8.401.10E, Page 15

[3] Original Sheet 8.401.10E, Page 16

[4] Original Sheet 8.401.10E, Page 17

[5] Original Sheet 8.401.10E, Page 18

[6] Original Sheet 8.401.10E, Page 19

[7] Original Sheet 8.401.10E, Page 20

TECO
TAMPA ELECTRIC

BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 090001-EI
IN RE: FUEL & PURCHASED POWER COST RECOVERY
AND
CAPACITY COST RECOVERY

PROJECTIONS
JANUARY 2010 THROUGH DECEMBER 2010

TESTIMONY
OF
BENJAMIN F. SMITH, II

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

**PREPARED DIRECT TESTIMONY**

**OF**

**BENJAMIN F. SMITH, II**

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

**A.** My name is Benjamin F. Smith, II. My business address is 702 North Franklin Street, Tampa, Florida 33602. I am employed by Tampa Electric Company ("Tampa Electric" or "company") in the Fuel Services and Systems group within the Fuels Management Department.

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

**A.** I received a Bachelor of Science degree in Electric Engineering in 1991 from the University of South Florida in Tampa, Florida and am a registered Professional Engineer within the State of Florida. I joined Tampa Electric in 1990 as a cooperative education student. During my years with the company, I have worked in the areas of transmission engineering, distribution engineering, resource planning, retail marketing, and wholesale power marketing. I am currently the Manager of Strategic Fuels and Power Services in the Fuel Services and Systems group. My responsibilities are to evaluate short-term and long-term purchase and sale opportunities within the wholesale power market, assist in wholesale contract structure and help evaluate the processes used to value wholesale power opportunities. In this capacity, I interact with wholesale power market participants such as utilities, municipalities, electric cooperatives, power marketers and other wholesale generators.

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

**A.** Yes. I have submitted written testimony in the annual fuel docket since 2003, and I testified before this Commission in Docket Nos. 030001-EI, 040001-EI, and 080001-EI regarding the appropriateness and prudence of Tampa Electric's wholesale purchases and sales.

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

**A.** The purpose of my testimony is to provide a description of Tampa Electric's purchased power agreements that the company has entered into and for which it is seeking cost recovery through the Fuel and Purchased Power Cost Recovery Clause ("fuel clause") and the Capacity Cost Recovery Clause. I also describe Tampa Electric's purchased power strategy for mitigating price and supply-side risk, while providing customers with a reliable supply of economically priced purchased power.

**Q.** Please describe the efforts Tampa Electric makes to ensure that its wholesale purchases and sales activities are conducted in a reasonable and prudent manner.

**A.** Tampa Electric evaluates potential purchased power needs and sale opportunities by analyzing the expected available amounts of generation and the power required to meet the projected demand and energy of its customers. Purchases are made to achieve reserve margin requirements, to meet customers' demand and energy needs, to supplement generation during unit outages and for economical purposes. When there is a purchased power need, the company aggressively polls the marketplace for wholesale capacity or energy, searching for reliable supplies at the best possible price from creditworthy counterparties.

Conversely, when there is a sales opportunity, the company offers profitable wholesale capacity or energy products to creditworthy counterparties. The company has wholesale power purchase and sale transaction enabling agreements with numerous counterparties. This process helps to ensure that the company's wholesale purchase and sale activities are conducted in a reasonable and prudent manner.

**Q.** Has Tampa Electric reasonably managed its wholesale power purchases and sales for the benefit of its retail customers?

**A.** Yes, it has. Tampa Electric has fully complied with, and continues to fully comply with, the Commission's March 11, 1997 Order, No. PSC-97-0262-FOF-EI, issued in Docket No. 970001-EI, which governs the treatment of separated and non-separated wholesale sales. The company's wholesale purchase and sale activities and transactions are also reviewed and audited on a recurring basis by the Commission.

In addition, Tampa Electric actively manages its wholesale purchases and sales with the goal of capitalizing on opportunities to reduce customer costs.

The company monitors its contractual rights with purchased power suppliers as well as with entities to which wholesale power is sold to detect and prevent any breach of the company's contractual rights. Also, Tampa Electric continually strives to improve its knowledge of wholesale power markets and the available opportunities within the marketplace. The company uses this knowledge to minimize the costs of purchased power and to maximize the savings the company provides retail customers by making wholesale sales when excess power is available on Tampa Electric's system and market conditions allow.

**Q.** Please describe Tampa Electric's 2009 wholesale energy purchases.

**A.** Tampa Electric assessed the wholesale power market and entered into short-term and long-term purchases based on price and availability of supply. Approximately 10 percent of the expected energy needs for 2009 will be met using purchased power. This purchased power energy includes economy purchases and existing firm purchased power agreements with Hardee Power Partners, qualifying facilities, Calpine, RRI Energy Services (formally known as Reliant), Pasco Cogen, and Progress Energy Florida. With the exception of the Progress Energy Florida purchase, the testimony in previous years describe each existing firm purchase power agreement, which were subsequently approved by the Commission as being cost-effective for Tampa Electric customers.

The Progress Energy Florida purchase is for 100 MW that began September 2008 and continues through September 2009. This purchase is not an extension or amendment of the Progress Energy Florida agreements previously approved by the Commission, but it does have the same structure. Like the previously approved agreements, it is a firm purchase with the energy priced at system average fuel. Since this agreement had not been signed at the time Tampa Electric prepared its 2009 fuel projection for submission, it was not described in that filing. However, the Company included it in its 2009 Ten Year Site Plan ("TYSP") and provided information concerning this purchase in its responses to the TYSP Commission Staff Supplemental Data Request filed April 1, 2009. This purchase provides an estimated $786,000 savings to customers.

All of these purchases provide supply reliability and help reduce fuel price volatility.

Q. Has Tampa Electric entered into any other wholesale energy purchases?

A. Yes. Tampa Electric has two petitions for approval before the Commission for consideration, and each involves renewable energy. One is a 25 MW purchase from Energy 5.0, filed March 9, 2009, and the other is the extension of an existing 19 MW purchase from the City of Tampa, filed March 23, 2009. Both agreements, although signed, contain a provision requiring Commission approval as a condition precedent. Thus, Tampa Electric may terminate either agreement, without penalty, if the Commission determines they are not cost-effective.

For 2010, the company expects to meet approximately seven percent of its customers' energy needs through purchased power, which includes economy purchases and the existing firm purchased power agreements with Hardee Power Partners, qualifying facilities, Calpine, RRI Energy Services, and Pasco Cogen. All of these purchases provide supply reliability and help reduce price volatility.

Lastly, Tampa Electric will continue to evaluate economic combinations of forward and spot market energy purchases during its spring and fall generation maintenance periods and peak periods. This purchasing strategy provides a reasonable and diversified approach to serving customers.

**Q.** Does Tampa Electric plan to enter into any other new purchased power agreements during its upcoming Big Bend Unit 1 Selective Catalytic Reduction ("SCR") installation outage?

**A.** Currently, the company has no plans to make a purchase for the upcoming SCR installation outage on Big Bend Unit 1, which is scheduled to occur November 28, 2009 through April 8, 2010. However, the company continually monitors and engages the marketplace for power purchase opportunities and will evaluate the economics of potential forward purchases during the Big Bend Unit 1 outage to reduce the overall cost to customers.

**Q.** Does Tampa Electric engage in physical or financial hedging of its wholesale energy transactions to mitigate wholesale energy price volatility?

**A.** Physical and financial hedges can provide measurable market price volatility protection. Tampa Electric purchases physical wholesale products. The company has not engaged in financial hedging for wholesale transactions because the availability of financial instruments within the Florida market is limited. The Florida wholesale power market currently operates through bilateral contracts between various counterparties, and there is not a Florida trading hub where standard financial transactions can occur with enough volume to create a liquid market. Due to this lack of liquidity, the appropriate financial instruments to meet the company's needs do not currently exist. Tampa Electric has not purchased any wholesale energy derivatives, but the company does employ a diversified power supply strategy, which includes self-generation and short-term and long-term capacity and energy purchases. This strategy provides the company the opportunity to take advantage of favorable spot market pricing while maintaining reliable service to its customers.

**Q.** Does Tampa Electric's risk management strategy for power transactions adequately mitigate price risk for purchased power for 2009?

A. Yes, Tampa Electric expects its physical wholesale purchases to continue to reduce its customers' purchased power price risk. For example, the 170 MW Calpine purchase and the 158 MW purchase from Reliant in 2009 are reliable, cost-based call options on peaking power. These purchases serve as both a physical hedge and reliable source of economical power in 2009. The availability of these purchases is high, and their price structures provide some protection from rising market prices, which are largely influenced by supply and the volatility of natural gas prices.

Mitigating price risk is a dynamic process, and Tampa Electric continually evaluates its options in light of changing circumstances and new opportunities. Tampa Electric also strives to maintain an optimum level and mix of short- and long-term capacity and energy purchases to augment the company's own generation for the year 2009 and beyond.

Q. How does Tampa Electric mitigate the risk of disruptions to its purchased power supplies during major weather related events such a hurricane?

A. During hurricane season, Tampa Electric continues to utilize a purchased power risk management strategy to minimize potential power supply disruptions during major weather related events. The strategy includes monitoring storm activity; evaluating the impact of the storm on the wholesale power market; purchasing power on the forward market for reliability and economics; evaluating transmission availability and the geographic location of electric resources; reviewing the seller's fuel sources and dual fuel capabilities; and focusing on fuel-diversified purchases. Notably, both the RRI Energy Services and Pasco Cogen purchases are dual fuel resources, having both natural gas and oil capability, which enhances supply reliability during a potential hurricane-related disruption in natural gas supply. Absent the threat of a hurricane, and for all other months of the year, the company continues its strategy of evaluating economic combinations of short- and long-term purchase opportunities identified in the marketplace.

**Q.** Please describe Tampa Electric's wholesale energy sales for 2009 and 2010.

**A.** Tampa Electric entered into various non-firm, non-separated wholesale sales in 2009, and the company anticipates making additional non-separated sales during the balance of 2009 and in 2010. In accordance with Order No. PSC-01-2371-FOF-EI, issued on December 7, 2001 in Docket No. 010283-EI, all gains from non-separated sales are to be returned to customers through the fuel clause, up to the three-year rolling average threshold. For all gains above the three-year rolling average threshold, customers receive 80 percent and the company retains the remaining 20 percent. In 2009, the three-year rolling average threshold is $1,077,446, and the projected gains above this threshold are $1,986,383. In 2010, the projected three-year rolling average threshold is $1,846,336, and the projected gains above this threshold are $254,803.

**Q.** Please summarize your testimony.

**A.** Tampa Electric monitors and assesses the wholesale power market to identify and take advantage of opportunities in the marketplace, and those efforts benefit the company's customers. Tampa Electric's energy supply strategy includes self-generation and short-term and long-term power purchases. The company purchases in both the physical forward and spot wholesale power markets to provide customers with a reliable supply at the lowest possible cost. It also enters into wholesale sales that benefit customers. Tampa Electric does not purchase wholesale energy derivatives in the developing Florida wholesale power market due to a lack of financial instruments appropriate for the company's operations. It does, however, employ a diversified power supply strategy to mitigate price and supply risks.

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

**A.** Yes.

TECO
TAMPA ELECTRIC

BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 090001-EI
IN RE: FUEL & PURCHASED POWER COST RECOVERY
AND
CAPACITY COST RECOVERY

PROJECTIONS
JANUARY 2010 THROUGH DECEMBER 2010

TESTIMONY
OF
JOANN T. WEHLE

**BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION**

**PREPARED DIRECT TESTIMONY**

**OF**

**JOANN T. WEHLE**

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

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

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

**A.** I received a Bachelor of Business Administration Degree in Accounting in 1985 from St. Mary's College in Notre Dame, Indiana. I am a CPA in the State of Florida and worked in several accounting positions prior to joining Tampa Electric. I began my career with Tampa Electric in 1990 as an auditor in the Audit Services Department. I became Senior Contracts Administrator, Fuels in 1995. In 1999, I was promoted to Director, Audit Services and subsequently rejoined the Fuels Department as Director in April 2001. I became Director, Wholesale Marketing and Fuels in August 2002. I am responsible for managing Tampa Electric's wholesale energy marketing and fuel-related activities.

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

**A.** The purpose of my testimony is to discuss Tampa Electric's fuel mix, fuel price forecasts, potential impacts to fuel prices, and the company's fuel procurement strategies. I will address steps Tampa Electric takes to manage fuel supply reliability and price volatility and describe projected hedging activities. I also sponsor Tampa Electric's 2010 risk management plan submitted on August 4, 2009 in this docket.

**Q.** Have you previously testified before this Commission?

**A.** Yes. I have testified or filed testimony before this Commission in several dockets, including Docket No. 011605-EI, 031033-EI and 080317-EI as well as the annual fuel and purchased power cost recovery dockets from 2001 through 2008. My testimony in these dockets described the appropriateness and prudence of Tampa Electric's fuel procurement activities, fuel supply risk management, fuel price volatility hedging activities, and fuel transportation costs.

**2010 Fuel Mix and Procurement Strategies**

**Q.** What fuels will Tampa Electric's generating stations use in 2010?

**A.** In 2010, Tampa Electric expects its fuel mix to be comparable to 2009. In 2010, natural gas-fired and coal-fired generation is expected to be 49 percent and 50 percent of total generation, respectively. Generation from No. 2 oil and No. 6 oil is less than one percent of the total expected generation.

**Q.** Have Tampa Electric's generation facilities, and subsequent fuel requirements, changed recently?

**A.** Yes. Tampa Electric recently retired three oil-fired combustion turbines at Big Bend Station. In 2009, Tampa Electric added five 60 MW aero derivative combustion turbines to its generation portfolio. Four are natural gas fired units located at Bayside Power Station. The fifth unit located at Big Bend Station has dual fuel capability that can burn either natural gas or No. 2

oil. These units provide black start capability, improve the reliability of the system and provide economical dispatch alternatives.

**Q.** How does Tampa Electric's natural gas procurement and transportation strategy achieve competitive natural gas purchase prices for long and short term deliveries?

**A.** Tampa Electric uses a portfolio approach to natural gas procurement. The company's portfolio consists of a blend of pre-arranged base load, intermediate and swing supply complemented with daily spot purchases. The contracts have various time lengths to help secure needed supply at competitive prices and maintain the ability to take advantage of favorable natural gas price movements. Tampa Electric purchases its physical natural gas supply from many approved counterparties, enhancing liquidity and diversification of its natural gas supply portfolio. The natural gas prices are based on monthly and daily price indices, further increasing portfolio pricing diversification.

Tampa Electric has improved the reliability of the physical delivery of natural gas to its power plants by diversifying its pipeline transportation assets, including receipt points, and utilizing pipeline and storage tools to enhance access to natural gas supply during hurricanes or other events that constrain supply. On a daily basis, Tampa Electric strives to obtain reliable supplies of natural gas at favorable prices in order to mitigate costs to its customers. Additionally, Tampa Electric's risk management activities improve the company's natural gas procurement activities by reducing natural gas price volatility.

**Q.** Please describe Tampa Electric's diversified natural gas transportation arrangements.

**A.** Tampa Electric receives natural gas via the Florida Gas Transmission ("FGT") pipeline and Gulfstream Natural Gas System, LLC ("Gulfstream"). The ability to deliver natural gas directly from two pipelines enhances the fuel delivery reliability of the Bayside Power Station, the largest natural gas units on Tampa Electric's system. Natural gas can also be delivered to Big Bend Station directly from Gulfstream to support the new aero derivative combustion turbine.

**Q.** What actions does Tampa Electric take to enhance the reliability of its natural gas supply?

**A.** Tampa Electric has maintained natural gas storage capacity with Bay Gas Storage near Mobile, Alabama since 2005. Currently the company reserves 850,000 mmBtu of storage capacity, which enhances access to natural gas in the case of severe weather or other events that disrupt supply. Tampa Electric's storage capacity at Bay Gas Storage will increase to 1,250,000 mmBtu when the fourth cavern is completed in fall 2010.

In addition to storage, Tampa Electric maintains diversified natural gas supply receipt points in FGT Zones 1, 2 and 3. Diverse receipt points reduce the company's vulnerability to hurricane impacts in FGT Zone 3 and provide access to lower priced gas supply. Tampa Electric also participated in the Southeast Supply Header ("SESH") project. SESH connects the receipt points of FGT and other Mobile Bay area pipelines with natural gas supply in the mid-continent. Mid-continent natural gas production has grown and continues to increase through non-conventional shale gas and the Rockies Express. Thus, SESH gives Tampa Electric access to secure on-shore gas supply for a small portion of its portfolio. This is beneficial because mid-continent gas supply is typically priced lower than gas supply around Mobile Bay. Commitment to larger quantities would require firm pipeline capacity resulting in an additional fixed cost component.

Q. What is Tampa Electric's coal procurement strategy?

A. Tampa Electric's two coal-fired plants are Big Bend Station and Polk Station. Big Bend Station is a fully scrubbed plant whose design fuel is high-sulfur Illinois Basin coal. Polk Station is an integrated gasification combined cycle plant currently burning a mix of petroleum coke and low sulfur coal. The plants have varying operational and environmental restrictions and require fuel with custom quality characteristics such as ash, fusion temperature and sulfur, heat and chlorine content. Since coal is not a homogenous product, fuel selection is based on these unique characteristics, along with price, availability, and creditworthiness of the supplier.

Tampa Electric maintains a portfolio of bilateral contracts varying in term lengths of long, intermediate, and short for coal supply. Tampa Electric monitors the market to obtain the most favorable prices from sources that meet the needs of the generating stations. The use of daily and weekly publications, independent research analyses from industry experts, discussions with suppliers, and coal solicitations aid the company in monitoring the coal market and shaping the company's coal procurement strategy to reflect current market conditions. This allows for stable supply sources while providing flexibility to take advantage of favorable spot market opportunities. The company's efforts to obtain the most favorable coal prices directly benefit its customers.

**Q.** Has Tampa Electric entered into coal and natural gas supply transactions for 2010 delivery?

**A.** Yes, Tampa Electric has contracted its 2010 expected coal needs through bilateral agreements with coal suppliers to mitigate price volatility and ensure reliability of supply. Additionally, the majority of the company's 2010 expected natural gas requirements are already under contract.

**Q.** Has Tampa Electric reasonably managed its fuel procurement practices for the benefit of its retail customers?

**A.** Yes. Tampa Electric diligently manages its mix of long, intermediate, and short term purchases of fuel in a manner designed to reduce overall fuel costs while maintaining electric service reliability. The company's fuel activities and transactions are reviewed and audited on a recurring basis by the Commission. In addition, the company monitors its rights under contracts with fuel suppliers to detect and prevent any breach of those rights. Tampa Electric continually strives to improve its knowledge of fuel markets and to take advantage of opportunities to minimize the costs of fuel.

**Coal Transportation Costs**

**Q.** Are there any changes to Tampa Electric's coal transportation portfolio in 2010?

**A.** Yes. Tampa Electric is nearing completion of a rail delivery and unloading facility at Big Bend Station. Delivery of coal through this facility is expected to commence in December of 2009. In 2010, Tampa Electric expects to receive nearly 2 million tons of high quality coal for use at Big Bend Station through this rail facility.

Q. What benefits exist from rail transportation of coal for

Tampa Electric and its customers?

**A.** Bimodal solid fuel transportation to Big Bend Station affords the company and its customers 1) access to more potential coal suppliers providing a more competitive, overall delivered cost, 2) the flexibility to switch to either water or rail in the event of a transportation breakdown or interruption on the other mode, and 3) competition for solid fuel transportation contracts for future periods.

**Q.** Did the Commission agree that there are customer benefits associated with bi-modal waterborne and rail deliveries?

**A.** Yes, it did. In the 080001 Docket, the Commission determined that the company complied with all requirements of Order No. PSC-04-0999-FOF-EI in procuring its fuel transportation contracts, which required a fair and open competitive procurement process to ensure the lowest possible delivered costs through the use of a bimodal fuel delivery system.

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

**A.** The company has constructed extensive rail unloading facilities. The facilities must be built and tested in 2009 to begin taking delivery by January 1, 2010. The facilities include a double loop track, a large unloading pit, and several thousand feet of conveyors. These facilities will benefit customers over the five-year term of the rail contract and will continue to benefit customers in subsequent years through dual delivery capability and access to additional coal supplies.

**Q.** Are there any additional rail related costs required for the delivery of coal?

**A.** Yes. In conjunction with the construction of rail unloading facilities at Big Bend Station, the company conducted a bid solicitation for railcars in late January 2009. The objective was to solicit competitive bids and enter into either an agreement for approximately 440 aluminum, rapid-discharge railcars for the movement of solid fuel from the Illinois Basin and Northern Appalachian coal supply regions to Big Bend Station.

Tampa Electric sent the solicitation to 18 different railcar companies and received responses from seven and five railcar leasing companies and railcar builders, respectively. The evaluation was primarily based upon the following components: railcar rate, delivery location, and capacity. It was determined that leasing the railcars was the best option because of the high cost to purchase railcars, lack of experience owning or maintaining railcars, and uncertainty surrounding carbon legislation.

**Projected 2010 Fuel Prices**

**Q.** How does Tampa Electric project fuel prices?

**A.** Tampa Electric reviews fuel price forecasts from sources widely used in the industry, including Wood Mackenzie (who acquired the former Hill & Associates), the Energy Information Administration, the New York Mercantile Exchange ("NYMEX") and other energy market information sources. Futures prices for energy commodities as traded on the NYMEX, form the basis of the natural gas, No. 6 oil and No. 2 oil market commodity price forecasts. The commodity price projections are then adjusted to incorporate expected transportation costs and location differences.

Coal prices and coal transportation prices are projected using contracted pricing and information from industry-recognized consultants and published indexes and are specific to the particular quality and mined location of coal utilized by Tampa Electric's Big Bend Station and Polk Unit 1. Final as-burned prices are derived using expected commodity prices and associated transportation costs.

**Q.** How do the 2010 projected fuel prices compare to the fuel prices projected for 2009?

**A.** The entire industry, including Tampa Electric, has experienced lower than expected fuel prices in 2009. The global recession, financial crises, and credit constraints coupled with plentiful natural gas and coal supply caused 2009 prices to plummet from a high in the summer of 2008. Projected fuel prices for 2010 are expected to increase slightly in 2010 as the economy and financial crises is projected to improve.

**Q.** What are the market drivers of the expected 2010 price of natural gas?

**A.** The major market drivers for the expected 2010 pricing of natural gas are the protracted economic downturn, which has resulted in a decline in demand for natural gas from commercial and industrial consumers, and, the additional supply of natural gas from new wells and improved extraction methods. The current market forecasts are projecting a slight recovery of natural gas pricing in the first quarter of 2010.

**Q.** What are the market drivers of the change in the price of coal?

**A.** Coal prices dropped dramatically as the global economy deteriorated. Additionally, low natural gas prices have caused higher cost coal-fired generation to be displaced by lower cost natural gas combined cycle units. The reduced demand for coal has caused inventories to increase throughout the nation. While some mines have cut back on production to counterbalance the inventory increases, prices are projected to stay down until the stock piles decline.

**Q.** Did Tampa Electric consider the impact of higher than expected or lower than expected fuel prices?

**A.** Yes. Tampa Electric prepared a scenario in which the forecasted fuel prices were 30 percent higher for both natural gas and No. 2 oil. Similarly, Tampa Electric prepared a scenario in which the forecasted fuel prices were 30 percent lower for both natural gas and No. 2 oil.

**Risk Management Activities**

**Q.** Please describe Tampa Electric's risk management activities.

**A.** Tampa Electric complies with its risk management plan as approved by the company's Risk Authorizing Committee. Tampa Electric's plan is described in detail in the Risk Management plan filed August 4, 2009 in this docket.

**Q.** Has Tampa Electric used financial hedging in an effort to help mitigate the price volatility of its 2009 and 2010 natural gas requirements?

**A.** Yes. Tampa Electric hedged a significant portion of its 2009 natural gas supply needs and a portion of its expected 2010 natural gas supply needs. Tampa Electric will continue to take advantage of available natural gas hedging opportunities in an effort to benefit its customers, while complying with the company's approved Risk Management Plan. The current market position for natural gas hedges was provided in the Risk Management Plan submitted on August 4, 2009.

**Q.** Are the company's strategies adequate for mitigating price risk for Tampa Electric's 2009 and 2010 natural gas purchases?

**A.** Yes, the company's strategies are adequate for mitigating price risk for Tampa Electric's natural gas purchases. Tampa Electric's strategies balance the desire for reduced price volatility and reasonable cost with the uncertainty of natural gas volumes. These strategies are described in detail in Tampa Electric's Risk Management Plan filed August 4, 2009.

**Q.** How does Tampa Electric determine the volume of natural gas it plans to hedge?

**A.** Tampa Electric projects the quantity or volume of natural gas expected to be consumed in its power plants. The volume hedged is driven primarily by the projected total gas levels by month and the time until that natural gas is needed. Based on those two parameters, the amount hedged is maintained within a range authorized by the company's Risk Authorizing Committee.

The market price of natural gas does not affect the percentage of natural gas requirements that the company hedges since the objective is price volatility reduction, not price speculation.

**Q.** Were Tampa Electric's efforts through July 31, 2009 to mitigate price volatility through its non-speculative hedging program prudent?

**A.** Yes. Tampa Electric has executed hedges according to the risk management plan filed with this Commission, which was approved by the company's Risk Authorizing Committee. On April 3, 2009, the company filed its 2008 hedging results as part of the final true-up process. Additionally, Order No. PSC-08-0316-PAA-EI, issued May 14, 2008, requires the utilities to file a Hedging Information Report showing the results of hedging activities from January through July of the current year. The Hedging Information Report facilitates prudence reviews through July 31 of the current year and allows for the Commission's prudence determination at the annual fuel hearing. Tampa Electric filed its Hedging Information Report showing the results of its prudent hedging activities from January through July 2009 in this docket on August 14, 2009.

**Q.** Does Tampa Electric expect its hedging program to provide fuel savings?

**A.** No. The primary objective of the company's hedging program is to reduce fuel price volatility as approved by the Commission. Tampa Electric employs a well-disciplined hedging program. This discipline requires consistent hedging based on expected needs and avoidance of speculative hedging strategies aimed at out-guessing the market. This discipline insures hedges will be in place should prices spike and also means hedges are in place when prices decline. Using this disciplined approach means that much of the volatility and uncertainty in natural gas prices are removed from the fuel cost used to generate electricity for our customers.

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

**A.** Yes, it does.