

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re:

Fuel and Purchased Power Cost
Recovery Clause and Generating
Performance Incentive Factor

030001-EI
Docket No. ~~010001-EI~~

Intervenor Testimony and Exhibits of

Brian C. Collins

On behalf of

Florida Industrial Power Users Group

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Project 7555



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In Re:	)	
	)	
Fuel and Purchased Power Cost	)	Docket No. 010001-EI
Recovery Clause and Generating	)	
Performance Incentive Factor	)	
	)	
_____	)	

Intervenor Testimony of Brian C. Collins

Q PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

A Brian C. Collins; 1215 Fern Ridge Parkway, Suite 208; St. Louis, MO 63141-2000.

Q WHAT IS YOUR OCCUPATION AND BY WHOM ARE YOU EMPLOYED?

A I am a consultant in the field of public utility regulation with the firm of Brubaker & Associates, Inc. (BAI), energy, economic and regulatory consultants.

Q PLEASE STATE YOUR EDUCATIONAL BACKGROUND AND EXPERIENCE.

A I graduated from Southern Illinois University with a Bachelor of Science degree in Electrical Engineering. I also graduated from the University of Illinois with a Master of Business Administration degree. Prior to joining BAI, I was employed by the Illinois Commerce Commission and City Water Light & Power (CWLP) in Springfield, IL.

1 My responsibilities at the Illinois Commerce Commission included the review
2 of the prudence of utilities' fuel costs in fuel adjustment reconciliation cases before
3 the Commission. My responsibilities at CWLP included generation and
4 transmission system planning. I also performed duties for CWLP's Operations
5 Department. These duties included calculating CWLP's allocation of fuel and
6 wholesale purchased power costs to retail and wholesale customers for use in the
7 monthly fuel adjustment.

8 BAI was formed in April 1995. In the last five years, BAI and its predecessor
9 firm has participated in more than 700 regulatory proceeding in forty states and
10 Canada.

11 BAI provides consulting services in the economic, technical, accounting, and
12 financial aspects of public utility rates and in the acquisition of utility and energy
13 services through RFPs and negotiations, in both regulated and unregulated
14 markets. Our clients include large industrial and institutional customers, some
15 utilities and, on occasion, state regulatory agencies. We also prepare special
16 studies and reports, forecasts, surveys and siting studies, and present seminars on
17 utility-related issues.

18 In general, we are engaged in energy and regulatory consulting, economic
19 analysis and contract negotiation. In addition to our main office in St. Louis, the firm
20 also has branch offices in Kerrville, Texas; Plano, Texas; Denver, Colorado; and
21 Chicago, Illinois.

22 **Q ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS PROCEEDING?**

23 **A**I am testifying on behalf of the Florida Industrial Power Users Group (FIPUG). The
24 participating FIPUG members are customers of Tampa Electric Company (TECO).

1 They purchase substantial quantities of electricity from TECO under a variety of firm
2 and non-firm tariffs.

3
4 **Q WHAT ISSUES ARE YOU ADDRESSING IN YOUR DIRECT TESTIMONY?**

5 A I will present the results of the audit I conducted regarding how TECO has been
6 managing various long-term wholesale power contracts. I will also address how
7 TECO's generating unit performance has affected the management of its long-term
8 wholesale power contracts.

9
10 **Q HOW ARE YOU SPECIFICALLY QUALIFIED TO ADDRESS THESE SPECIFIC**
11 **ISSUES?**

12 A I was formerly an engineer for City Water Light & Power (CWLP), a municipally
13 owned utility serving Springfield, Illinois. In this role, I have gained knowledge
14 regarding the management of wholesale operations. As part of my duties with
15 CWLP, I was responsible for assigning CWLP's fuel cost and purchased power cost
16 to retail and wholesale customers.

17
18 **Q WOULD YOU PLEASE SUMMARIZE THE FINDINGS OF YOUR AUDIT OF**
19 **TECO'S MANAGEMENT OF ITS LONG-TERM WHOLESALE POWER**
20 **CONTRACTS?**

21 A Yes. My findings include:

- 22 1. Wholesale customers receive the benefit of TECO's lowest cost power
23 generation and low cost purchases.
- 24 2. Retail customers are inappropriately bearing 100% of the excessive cost of
25 power that TECO must purchase to replace unreliable internal generation.

1 3. TECO has purchased low-cost power on the wholesale market and resold it
2 to wholesale customers rather than using the low cost power to reduce fuel
3 costs paid by retail customers.

4
5 **Q WHAT WHOLESALE SALES CONTRACTS HAVE BENEFITED FROM LOW-**
6 **COST POWER THAT TECO HAS BEEN PROVIDING?**

7 **A**Exhibit ____ (BCC-1) is a summary of TECO's long-term wholesale sales contracts
8 that were in effect from 1998 through 2001. It also identifies the purchaser (Column
9 1), the applicable years of the contract (Column 2), the maximum contract demand
10 (Column 3-6) and whether each contract is for a separated or non-separated sale
11 (Column 7). As can be seen, TECO has had eleven wholesale contracts in effect.

12
13 **Q WHAT DO YOU MEAN BY SEPARATED VERSUS NON-SEPARATED**
14 **WHOLESALE CONTRACTS?**

15 **A**A separated wholesale contract means that a portion of TECO's system cost-of-
16 service (e.g. rate base and operating expenses) is being allocated to these
17 wholesale customers. It is my understanding that the jurisdictional separation is
18 based on the demands of the wholesale customers coincident with TECO's monthly
19 system peak demands. Thus, wholesale customers are being allocated a slice of
20 TECO's system resources at average embedded cost. In theory, this means that
21 retail customers are not paying any of the fixed costs associated with separated
22 wholesale sales.

23 This is in contrast to non-separated wholesale contracts, where retail
24 customers are fully supporting the cost of production plant, other investments and
25 related expenses associated with these sales. The only benefit that retail

1 customers receive from non-separated sales is a reduced fuel cost and 80% of any
2 margins derived from these sales. However, as I shall demonstrate, the benefit of
3 lower fuel costs is minimal because TECO has been allocating only its lowest cost
4 energy resources to wholesale customers.

5

6 **Q HOW MUCH CAPACITY DID TECO HAVE UNDER LONG-TERM WHOLESALE**
7 **CONTRACTS DURING THE 1998 TO 2000 TIMEFRAME?**

8 **A** The amount of power that TECO was committed to sell under the long-term
9 wholesale contracts was 442 MW in 1999. For 2000, the amount TECO could sell
10 was 472 MW. These numbers include an estimate for the Fort Meade and
11 Wauchula partial requirements contracts. The maximum demand experienced for
12 these contracts was used as the estimate.

13

14 **Q WHAT IS THE LEVEL OF FIRMNESS OF EACH CONTRACT IN EXHIBIT ____**
15 **(BCC-1)?**

16 **A** All contracts in Exhibit ____ (BCC-1) are for firm power.

17

18 **Q DOES EXHIBIT ____ (BCC-1) IDENTIFY WHICH GENERATING UNITS ARE**
19 **DEDICATED TO SERVING EACH CONTRACT?**

20 **A** Yes. Exhibit ____ (BCC-1) identifies specific TECO generating units that are used to
21 price the service that TECO is providing under each contract. Page 2 of Exhibit ____
22 (BCC-1) also identifies the level of generating capacity associated with each
23 contract.

24

1 **Q ARE WHOLESALE CUSTOMERS ALLOCATED ANY OF THE FIXED COSTS**
2 **ASSOCIATED WITH THESE SPECIFIC UNITS?**

3 A No. As previously stated, separated sales are allocated a slice of TECO's system
4 average costs, including production investment and related rate base and operating
5 expenses. No costs are allocated to non-separated sales.

6
7 **Q WHAT WERE THE FUEL COSTS ASSOCIATED WITH TECO'S WHOLESALE**
8 **SALES IN 1999 AND 2000?**

9 A Exhibit ____ (BCC-2) identifies the average fuel costs associated with TECO's
10 wholesale sales in 1999 and 2000. TECO's average fuel cost for wholesale sales
11 in 1999 was 2.15 ¢/kWh and was 2.17 ¢/kWh in 2000.

12
13 **Q HOW DOES THIS COMPARE WITH THE AVERAGE FUEL COSTS PAID BY**
14 **RETAIL CUSTOMERS IN 1999 AND 2000?**

15 A Exhibit ____ (BCC-2) also shows the average fuel cost paid by retail customers in
16 1999 and 2000. TECO's retail customers paid average fuel costs of 2.33¢/kWh in
17 1999 and 2.83¢/kWh in 2000.

1 **Q HAVE YOU ESTIMATED THE IMPACT ON RETAIL CUSTOMERS OF TECO'S**
2 **WHOLESALE PRACTICE OF ALLOCATING MORE EXPENSIVE PURCHASED**
3 **POWER ENTIRELY TO RETAIL CUSTOMERS?**

4 A Yes. As a result of TECO's wholesale practices, retail customers are subsidizing
5 fuel costs for TECO's wholesale sales in the range of \$45 million to \$108 million for
6 the period 1999 through 2001. TECO's shareholders and wholesale customers are
7 directly benefiting from this subsidy.

8
9 **Q HOW WAS THE SUBSIDY IS ESTIMATE DERIVED?**

10 A I analyzed the cost of purchased power charged to retail customers on days when
11 non-firm load was curtailed. On these days, wholesale customers were charged for
12 energy as though it had been entirely generated from TECO's low cost coal fired
13 resources. On the days I analyzed, retail customers were subsidizing low cost
14 energy sales to wholesale contract customers because they solely were forced to
15 bear higher costs incurred by TECO to meet its wholesale sales and maintain
16 system integrity.

17
18 **Q WHY IS THIS SUBSIDY OF WHOLESALE CONTRACTS BY RETAIL**
19 **CUSTOMERS UNREASONABLE?**

20 A TECO has been giving preference to wholesale customers over its retail customers
21 in how it allocates the costs of its low-cost energy resources. TECO allocates only
22 its low energy cost resources to wholesale operations, irrespective of whether these
23 resources are fully operable. TECO has also purchased low-cost energy at
24 wholesale and wheeled it through its system for the benefit of wholesale customers.

1 **Q WHAT EVIDENCE DEMONSTRATES THAT TECO HAS CONTINUED TO SELL**
2 **LOW-COST ENERGY FROM ITS SYSTEM DESPITE THE LACK OF UNIT**
3 **AVAILABILITY?**

4 **A I** was supplied copies of TECO's system status reports for some days when TECO
5 curtailed non-firm customers. Among other things, these reports indicate what
6 internal generation was operating and the status of units that were either forced out
7 of service or not fully operational due to deratings. I was also supplied TECO's
8 monthly Schedules A-6 (Power Sold) and Schedules A-7 (Power Purchased) for
9 1999 and 2000 showing the amount of power that TECO sold and purchased on
10 the wholesale markets, including the power sales under the long-term contracts in
11 question. In addition, I reviewed TECO's responses to interrogatories regarding
12 generating unit deratings.

13 Based on my review, I observed that during outages and deratings of the
14 TECO generating units providing power for wholesale sales contracts, TECO
15 continues to sell the full contract entitlements to its wholesale customers. In other
16 words, TECO is giving higher priority for its generation to its wholesale customers
17 than to its retail customers. As a result of giving higher priority for generation to its
18 wholesale customers, there is less remaining native load generation to serve retail
19 customers. In order to meet retail electricity needs, TECO must then purchase
20 more expensive replacement energy. 100% of the cost of this replacement energy
21 is allocated to TECO retail customers.

22

23 **Q HOW DID YOU DETERMINE THAT ALL REPLACEMENT ENERGY COSTS ARE**
24 **ALLOCATED TO THE RETAIL CUSTOMERS?**

1 A I analyzed TECO's monthly Schedules A-6 and A-7 for the years 1999 and 2000.
2 Upon inspection of these Schedules, it is obvious that all power sold by TECO to its
3 wholesale customers was provided by TECO generation and that all replacement
4 power was allocated to its retail customers.

5 As examples, I have attached several Schedule A-6's and A-7's in Exhibit
6 ____ (BCC-3) to my testimony.

7 The allocation of generation to wholesale sales is shown on Column 5 of
8 each Schedule A-6. Except for purchased power wheeled to FMPA in 1999 and to
9 Seminole Electric in 1999-2000, all wholesale sales entitlements are provided by
10 TECO native generation.

11 The allocation of purchased power to retail native load and non-firm
12 customers is shown in Columns 5 and 6 in each Schedule A-7. With the exception
13 of low-cost wholesale purchases from Florida Power Corporation, Florida Power
14 and Light, and PECO for the benefit of FMPA in 1999, as well as purchased power
15 allocated to Seminole Electric in 1999 and 2000, none of the costs of power
16 purchases was allocated to wholesale customers.

17
18 **Q WHAT DOES YOUR ANALYSIS REVEAL?**

19 A The results of my analysis are presented in Exhibit ____ (BCC-4) and Exhibit ____
20 (BCC-5). Exhibit ____ (BCC-4) was derived from TECO's Schedules A-6, which
21 summarizes the amount of power purchases allocated to wholesale operations and
22 the source of this power for both 1999 and 2000. Excluding the FMPA sale in 1999
23 and a non-firm contract to Seminole Electric Cooperative in 1999 and 2000, all
24 wholesale sales were supplied from TECO's internal generation. This Exhibit also
25 provides TECO's forecast for 2001.

Exhibit ____ (BCC-5) was derived from TECO's Schedule A-7 for 1999 and 2000. Exhibit ____ (BCC-5) identifies the amount of power purchased by TECO and how much of that purchased power was allocated to TECO's retail customers in 1999 and 2000. Excluding power bought for FMPA and Seminole Electric Cooperative, 100% of replacement power purchased in 1999 and 2000 was allocated to TECO's retail customers. Again, this Exhibit provides TECO's forecast for 2001.

Q DO YOU HAVE SPECIFIC EXAMPLES OF DAYS WHEN TECO ALLOCATED 100% OF ITS REPLACEMENT POWER COST TO RETAIL CUSTOMERS?

A Yes. Exhibit ____ (BCC-6) provides examples on selected days. The days that I examined were the 21 days when TECO curtailed system service to its non-firm customers in 1998-2000. During these curtailments, TECO physically curtailed non-firm customers since there was insufficient capacity to purchase in the wholesale market to cover all non-firm customers requirements. Replacement power was purchased on the wholesale market during the curtailment. That replacement power was allocated to firm retail customers and some non-firm retail customers. From my review of TECO's responses to FIPUG's data requests, it appears that some non-firm retail load was not interrupted.

Column 2 of Exhibit ____ (BCC-6) shows the amount of MWh purchased by TECO, while Column 4 shows the average price per MWh TECO paid for that power during the economic curtailment.

1 **Q WHAT WERE THE AVERAGE COSTS PER MWH CHARGED TO RETAIL**
2 **CUSTOMERS DURING THE CURTAILMENT OF NON-FIRM CUSTOMERS WHEN**
3 **TECO PURCHASED REPLACEMENT POWER?**

4 A Since all purchased power costs were allocated to retail customers, retail customers
5 were charged an average cost as high as \$542/MWh during curtailment of non-firm
6 customers .

7
8 **Q DOES TECO ONLY PURCHASE REPLACEMENT ENERGY FOR NON-FIRM**
9 **CUSTOMERS?**

10 A No. These purchases are also made for the benefit of all other retail customers.
11 As I have previously stated, 100% of replacement power costs are allocated to retail
12 customers. TECO allocated zero costs of replacement power to wholesale
13 customers. Consequently, captive retail customers are paying unregulated prices
14 for purchased power.

15
16 **Q WHY DID TECO CURTAIL SYSTEM SERVICE TO NON-FIRM CUSTOMERS ON**
17 **THOSE 21 DAYS?**

18 A As previously stated, non-firm customers will no longer receive system service when
19 there are insufficient resources (i.e. internal generation) to meet their needs. On
20 the particular days in question, TECO experienced significant outages of its internal
21 generation. These outages were a combination of units that were forced out of
22 service and units that sustained partial outages or capacity deratings. There was
23 also not enough purchased power available on the wholesale market to cover all
24 the requirements of the non-firm customers. Thus, TECO physically curtailed its
25 non-firm customers.

1 **Q WHAT IS A CAPACITY DERATING?**

2 A A capacity derating is a reduction in a generating unit's ability to provide its full
3 generating output.

4

5 **Q WHAT WAS THE EXTENT OF THE SYSTEM OUTAGES AND CAPACITY**
6 **DERATINGS FOR TECO'S GENERATING UNITS ON THE FOUR DAYS**
7 **EXAMINED IN DETAIL WHEN SYSTEM SERVICE TO NON-FIRM CUSTOMERS**
8 **WAS CURTAILED BY TECO?**

9 A This is shown in Exhibit ____ (BCC-7), Exhibit ____ (BCC-8), Exhibit ____ (BCC-9) and
10 Exhibit ____ (BCC-10) for each of the four days that I examined in detail in order to
11 better provide examples of TECO's wholesale operations. These Exhibits
12 summarize total unit outages and capacity deratings on each day. For reference, I
13 have also shown the actual demand and the corresponding contract capacity of
14 TECO's long-term wholesale contract customers for the hour before, during and
15 after each economic curtailment of the non-firm customers. I have also included
16 graphs in these Exhibits for each day to visually demonstrate TECO's wholesale
17 operations, curtailments of non-firm customers, and level of generating capacity
18 available on each day.

19

20 **Q PLEASE DESCRIBE TECO'S OPERATIONS ON JANUARY 6, 1999?**

21 A As can be seen in Exhibit ____ (BCC-7), on January 6, 1999, TECO experienced up
22 to 187 gross MW of capacity deratings and up to 732 gross MW of other outages.
23 In total, 23.45% of TECO's gross internal generation was unavailable.

Q HAVE ANY OF TECO'S UNIT DERATINGS INCLUDED ANY OF THE COAL-FIRED UNITS USED BY TECO TO PRICE THE SERVICE UNDER ITS VARIOUS LONG-TERM WHOLESALE CONTRACTS?

A Yes. This can be seen in Exhibit ____ (BCC-11) to this testimony, which is a detailed summary of TECO's unit deratings in response to FIPUG Interrogatory No. 36. One example is on August 2, 1999. TECO had a gross unit derating of 83 MW on Big Bend Unit 4. TECO provides 145 MW of power to Hardee Power Partners, a TECO affiliate, from this unit. Big Bend Unit 4 has a total gross dependable capacity of 486 MW. Despite an 83 gross MW derating on Big Bend 4, TECO continued serving its full contract demand to Hardee, while interrupting non-firm customers. In fact, TECO provided the full amount of power to all of its wholesale contracts.

Q DID THE UNIT OUTAGES AND DERATINGS AFFECT THE LEVEL OF WHOLESALE CONTRACT DEMAND THAT TECO SERVED ON AUGUST 2 1999?

A No. As shown in Exhibit ____ (BCC-8), wholesale demand did not change materially before, during, and after the non-firm customers were curtailed. Thus, TECO continued serving its wholesale customers to the fullest extent as defined in their respective long-term contracts.

Q DID YOU MAKE SIMILAR OBSERVATIONS BASED ON YOUR ANALYSIS OF SYSTEM OPERATIONS ON JULY 6 2000?

A Yes. In fact, as can be seen in Exhibit ____ (BCC-9), which examines TECO's outages and wholesale operations on July 6, 2000, TECO sold more power to its long-term wholesale customers than the required contract demand. TECO provided 711 MW to wholesale customers while its maximum wholesale contract demand is

1 472 MW. Further, despite the continuity of the low-cost energy being sold to
2 wholesale customers on July 6, TECO's retail customers were bearing higher
3 replacement costs. The curtailment of non-firm customers was prompted by 71 MW
4 of gross unit outages. In addition, TECO experienced as much as 328 MW of
5 capacity deratings on this day. Further, as was the case on August 2, some of
6 these outages and deratings occurred on units specifically dedicated to serving
7 wholesale contract demand.

8
9 **Q DID SIMILAR OPERATIONAL PROBLEMS ARISE ON OCTOBER 5 2000?**

10 A Yes. This is shown in Exhibit ____ (BCC-10). Despite 209 MW of gross unit
11 deratings during the curtailment of non-firm customers, wholesale customers
12 continued to receive uninterrupted amounts of low cost energy. What is even more
13 compelling, TECO had 1,219 gross MW unavailable due to unit outages. Some of
14 those units were on planned maintenance. TECO had 35% of its generation
15 unavailable, yet TECO continued to provide full entitlements to wholesale
16 customers and curtail its non-firm customers while also passing on replacement
17 purchased power costs to retail customers which reached as high as \$1,500/MWh.

18
19 **Q PLEASE SUMMARIZE YOUR ANALYSIS OF SYSTEM OPERATIONS ON**
20 **JANUARY 6, 1999, AUGUST 2, 1999, JULY 6, 2000 AND OCTOBER 5, 2000.**

21 A The substantial unit outages and capacity deratings that occurred on these days
22 had no impact on TECO's long-term wholesale contract customers, but it materially
23 and adversely impacted retail native load customers. The resulting capacity
24 shortages forced TECO to purchase replacement power in order to meet retail

1 customers' needs as well as interrupt non-firm customers. Further, the entire cost
2 of the replacement power was allocated entirely to retail customers.

3 Based on my analysis, I have concluded that TECO's retail customers are
4 subsidizing TECO's wholesale customers.

5
6 **Q DID YOU DRAW THE SAME CONCLUSION THAT RETAIL CUSTOMERS HAVE**
7 **BEEN SUBSIDIZING WHOLESALE CUSTOMERS ON THE OTHER DAYS THAT**
8 **YOU AUDITED?**

9 A Yes. I observed similar problems on the other days that I was able to review. In the
10 interests of brevity and time/resource limitations I did not present a complete
11 analysis. However, it is my opinion that TECO's management of its long-term
12 wholesale contracts has resulted in the retail customers subsidizing the wholesale
13 customers.

14
15 **Q WHAT IS THE MAGNITUDE OF THE SUBSIDY THAT RETAIL CUSTOMERS**
16 **HAVE BEEN FORCED TO BEAR IN UNDERWRITING TECO'S LONG-TERM**
17 **WHOLESALE CONTRACTS?**

18 A This is difficult to quantify because of the amount of the data required to conduct a
19 thorough analysis. Also, since TECO was not very cooperative in providing the
20 requested information in a timely fashion, it was not possible to conduct a detailed
21 analysis for the entire 1999 to 2000 timeframe. However, I have estimated the
22 subsidy that the retail customers have provided to the wholesale operations during
23 the curtailment of non-firm loads for the 21 days that were examined. This is shown
24 in Exhibit ____ (BCC-12).

1 During the physical curtailment of non-firm customers on the 21 days
2 analyzed, I have estimated that retail customers have provided a subsidy of
3 \$31.18/MWh for every MWh sold to wholesale customers. If this subsidy is applied
4 to generation diverted to the wholesale market during the 1999 to 2001 study
5 period, the gross impact on retail customers is between \$45 million and \$108
6 million. This is shown in Exhibit ____ (BCC-13).

7 The lower range of the subsidy estimate is determined by applying the
8 \$31.18/MWh to only power sold by TECO under separated contracts in 1999-2001.
9 The upper limit of this range is calculated by applying the \$31.18/MWh to all
10 wholesale power sold by TECO in 1999-2001.

11 Calculating the exact subsidy to wholesale customers is complicated since it
12 requires knowledge of TECO's wholesale operations, system resources and costs
13 for every hour during the period 1999-2001. A more precise calculation of the
14 subsidy could not be made because it would require considerably more data, time
15 and resources than could be devoted. Also, most of the required data was not
16 provided in a timely manner.

17
18 **Q WHY DID YOU INCLUDE AN ESTIMATE FOR THE YEAR 2001?**

19 **A** Since most of the contracts in place from 1999-2000 were also in effect in 2001, the
20 level of power sold to wholesale customers can be expected to be comparable to
21 the levels in 1999 and 2000. Assuming that TECO continues its practice of
22 allocating low-cost purchased power to its wholesale customers to the detriment of
23 its retail ratepayers, retail customers will again experience a subsidy in the year
24 2001. This could be exacerbated by TECO's generating unit performance in the
25 year 2001 as well.

1 **Q IN SEVERAL PLACES, YOU STATED THAT TECO HAD SUSTAINED**
2 **SIGNIFICANT UNIT OUTAGES AND CAPACITY DERATINGS. HAVE YOU**
3 **REVIEWED THE PERFORMANCE OF TECO'S GENERATION?**

4 **A Yes. My analysis is shown in Exhibit ____ (BCC-14) and Exhibit ____ (BCC-15).**
5 Exhibit ____ (BCC-14) compares the Equivalent Forced Outage Rates (EFORs) of
6 TECO's coal-fired generating units with similar units around the nation, as reported
7 in NERC's Generating Availability Data System (GADS) for 1995 through 1999. An
8 EFOR measures the amount of hours a generating unit was unavailable to provide
9 power due to forced outages and deratings. It is expressed as a percent of the sum
10 of the forced outage hours, equivalent forced derated hours and the service hours
11 of the unit.

12 As can be seen, TECO's units have above-average EFORs. Even more
13 disturbing is that the reliability of TECO's units has decreased over time.

14 Exhibit ____ (BCC-15) compares the year 2000 Equivalent Availability
15 Factors (EAF) between TECO's generation with the industry average EAFs
16 developed by NERC in its GADS data for 1995 through 1999. With the exception
17 of Big Bend 2 and Big Bend 4, TECO's units EAFs are below the typical EAFs
18 found in the NERC's GADS data.

19
20 **Q IS THERE ANY CORRELATION BETWEEN THE INCREASE IN BUY-THROUGH**
21 **POWER PURCHASES BY TECO AND TECO'S GENERATING UNIT**
22 **RELIABILITY?**

23 **A Yes. Mr. Pollock has shown that TECO's retail non-firm customers have**
24 experienced more frequent and longer duration interruptions since 1997. This is
25 also when TECO began entering into the long-term wholesale contracts. At the

1 same time, Exhibit ____ (BCC-14) demonstrates that TECO's generating unit
2 reliability has decreased. I believe this, coupled with the over 400 MW of long-term
3 wholesale sales, has caused an increase in buy-through power purchases for non-
4 firm customers.

5
6 **Q ARE WHOLESALE CUSTOMER IMPACTED BY THE POOR RELIABILITY OF**
7 **TECO'S GENERATION?**

8 A No. They are not affected. Wholesale customers continue to receive virtually their
9 entire allocation of power from specific generators despite capacity shortages on
10 the system overall and the unavailability or lesser availability of specific generators.
11 This means that retail customers are bearing all of the risks of TECO's unreliable
12 system. These risks result in retail customers paying exorbitantly high costs for
13 purchased power in unregulated wholesale markets. The irony is that captive retail
14 customers who cannot choose a more reliable and less expensive supplier are not
15 being adequately protected against these higher costs through the regulatory
16 process.

17
18 **Q DID YOU OBSERVE ANY OTHER QUESTIONABLE PRACTICES AS A RESULT**
19 **OF YOUR AUDIT OF AUGUST 2, 1999?**

20 A Yes. TECO was purchasing 80 MW from PECO at an average cost of
21 \$27.35/MWh. The purchase price was considerably below the cost of purchased
22 power that TECO has bought for retail customers. However, the PECO purchase
23 was not made for the benefit of retail customers. All of this power was sold to
24 FMPA. In fact, on that same day, TECO bought power as high as \$500/MWh.

- 1 Please refer to Exhibit ____ (BCC-16). All of this high-cost power was allocated to
- 2 retail customers.

Q WHY WOULD YOU CHARACTERIZE THIS PRACTICE AS QUESTIONABLE?

A It is ironic that TECO can procure and allocate lower cost purchased power to its wholesale sales contracts, but not for its retail customers. Instead of using lower cost power purchased on the wholesale market to reduce retail customers' fuel costs, TECO allocated that power to wholesale sales contracts.

Q PLEASE SUMMARIZE THE RESULTS OF YOUR AUDIT OF TECO'S WHOLESALE OPERATIONS.

A The results of my audit can be summarized as follows:

1. TECO has been inappropriately allocating more expensive replacement power solely to retail customers while simultaneously providing low-cost native generation to wholesale customers.
2. TECO has been purchasing low cost power on the wholesale market and reselling it to wholesale customers, rather than using it to reduce fuel costs paid by retail customers.
3. Wholesale customers have continued to receive their full entitlement of low-cost, native load generation, despite extensive outages and deratings of native generation, including specific generators dedicated to wholesale sales.

Q AS A RESULT OF YOUR FINDINGS IN THE AUDIT OF TECO'S WHOLESALE OPERATIONS, WHAT ARE YOUR RECOMMENDATIONS?

A My colleague Mr. Jeffry Pollock details the recommendations for TECO as a result of my audit.

1 Q DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

2 A Yes.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing Intervenor Testimony and Exhibits of Brian C. Collins on behalf of Florida Industrial Power Users Group has been furnished by (*) hand delivery, or U.S. Mail this 12th day of October, 2001, to the following:

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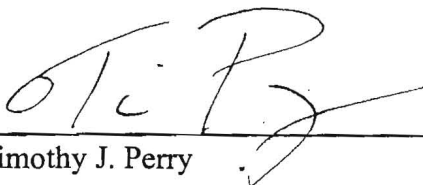
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Timothy J. Perry

Tampa Electric Company
Summary of Wholesale Sales Contracts
1998-2001

Line	Purchaser (1)	Applicable Years (2)	Maximum Contract Demand				Separated or Non-Separated (7)	Level of Firmness (8)	Units Used In Pricing (9)
			1998 (3)	1999 (4)	2000 (5)	2001 (6)			
1	Florida Municipal Power Agency	1998-2001	85	105	150	150	Separated 1998-1999 Non-Separated 2000-2001	Firm	Big Bend 2 and 3; Gannon 5 and 6
2	Florida Power Corporation	1998-2001	50	60	60	60	Separated	Firm	System Average
3	City of Fort Meade	1998	5	0	0	0	Separated	Firm	Big Bend 1,2,3,4
4	City of Fort Meade *	1998-2001	5	12	12	13	Separated	Firm	System Average
5	City of St. Cloud	1998-2001	10	15	15	15	Separated	Firm	System Average
6	City of Wauchula	1998	5	0	0	0	Separated	Firm	Big Bend 1,2,3,4
7	City of Wauchula *	1998-2001	8	15	15	15	Separated	Firm	System Average
8	Reedy Creek Improvement District	1998-1999	20	15	0	0	Separated	Firm	Big Bend 1,2,3,4
9	Reedy Creek Improvement District	1998	15	0	0	0	Non-Separated	Firm	Big Bend 1 and 3 Gannon 5 and 6
10	Reedy Creek Improvement District	1998-2001	75	75	75	75	Separated	Firm	System Average
11	TECO Power Services	1998-2001	<u>145</u>	<u>145</u>	<u>145</u>	<u>145</u>	Separated	Firm	Big Bend 4
12	TOTAL		423	442	472	473			

* These sales are load following.
Greatest actual demands are shown.

Sources: TECO Response to FIPUG's 1st Set of Interrogatories, Interrogatory No. 15, Pages 1-4.
TECO Response to FIPUG's 3rd Set of Interrogatories, Interrogatory No. 65, Pages 1-2; No. 66; No. 67, Page 1.

Docket No. 010001-EI
Witness: Brian C. Collins
Exhibit (BCC-1)
Page 1 of 2

TAMPA ELECTRIC COMPANY
DOCKET NO. 010001-EI
FIPUG'S 3rd SET OF INTERROGATORIES
INTERROGATORY NO. 67
PAGE 1 OF 1
FILED: SEPTEMBER 27, 2001

67. For each separated contract identified in TECo's response to the previous request, identify by each generating unit the amount in net MW separated from the retail rate base and used to cover the wholesale sale contract.
- A. See the response to Interrogatory No. 64 for the MW separated from the retail rate base, by contract. As stated in the response the Interrogatory No. 64, Tampa Electric is neither required to nor able to separate sales by each generating unit. For those wholesale sales that are unit- or station-specific, however, the unit(s) and amount of MW committed to serve the sale are shown below.

Units and MW Committed to Unit- or Station-Sales

1998

Reedy Creek D	Up to 20 MW from the Big Bend Station
New Smyrna D	Up to 12 MW January to May and up to 13 MW June to December from Big Bend Unit 2 and Big Bend Unit 3. During the months of June, July, August and September an additional 5 MW was supplied from the same units.
Wauchula D	Up to 5 MW from the Big Bend Station
Fort Meade D	Up to 5 MW from the Big Bend Station
FMPA D	Up to 85 MW in January and February, 25 MW in March and 15 MW in April, from Big Bend Unit 2, Big Bend Unit 3, Gannon Unit 5 and Gannon Unit 6. Served entirely with purchase beginning May 1998.
Hardee Power Partners	Up to 145 MW from Big Bend Unit 4

1999

Reedy Creek D	Up to 15 MW from the Big Bend Station
New Smyrna D	Up to 13 MW January to May and up to 14 MW June to December from Big Bend Unit 2 and Big Bend Unit 3. During the months of June, July, August and September an additional 5 MW was supplied from the same units.
FMPA D	Served entirely with purchase
Hardee Power Partners	Up to 145 MW from Big Bend Unit 4

2000

New Smyrna D	Up to 14 MW from Big Bend Unit 2 and Big Bend Unit 3
Hardee Power Partners	Up to 145 MW from Big Bend Unit 4

2001

Hardee Power Partners	Up to 145 MW from Big Bend Unit 4
-----------------------	-----------------------------------

NOTE: All PR sales and the Lakeland D contract are system sales.

Tampa Electric Company

Average Fuel Costs Charged to Wholesale and Retail Customers

<u>Line</u>	<u>Year</u> (1)	Wholesale Sales <u>(¢/kWh)</u> (2)	Paid by Retail Customers <u>(¢/kWh)</u> (3)
1	1999	2.15	2.33
2	2000	2.17	2.83
3	2001E	2.47	3.07

Sources: TECO Schedule A-1, Period to Date, December 1999
TECO Schedule A-1, Period to Date, December 2000
J. Denise Jordan Testimony, Actual/Estimated True-up,
January 2001 through December 2001, Sch. E2 and E6

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: JANUARY 1998									
SCHEDULE A6 PAGE 1 OF 3									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	—cents/KWH— (A) FUEL COST	(B) TOTAL COST	TOTAL \$ FOR FUEL ADJUSTMENT (5)X(6)(A)	TOTAL \$ FOR TOTAL COST (5)X(6)(B)	80% GAIN ON ECONOMY ENERGY SALES
ESTIMATED:									
VARIOUS	ECON.	321,000.0	0.0	321,000.0	1.843	2.384	5,930,000.00	7,998,700.00	1,390,900.00
VARIOUS JURISDICTIONAL	SCH.-D	8,025.0	0.0	8,025.0	1.836	1.836	108,900.00	108,900.00	
VARIOUS SEPARATED	SCH.-D	20,364.0	0.0	20,364.0	1.781	2.024	366,400.00	412,000.00	
VARIOUS	CONTRACT	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
HARDEE POWER PARTNERS SEPARATED	CONTRACT	18,100.0	0.0	18,100.0	2.466	3.353	450,400.00	606,900.00	
VARIOUS	SCH.-D	78,120.0	78,120.0	0.0	0.000	0.000	0.00	0.00	
VARIOUS JURISDICTIONAL	SCH.-J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
TOTAL INCLUDING VARIABLE O & M COSTS	-	443,887.0	78,120.0	385,777.0	1.872	2.406	6,846,700.00	8,796,500.00	1,390,900.00
LESS TRANSMISSION COSTS	-						(16,800.00)		
LESS VARIABLE O & M COSTS	-						(563,300.00)		
PLUS 80% OF ECON. ENERGY SALES PROFIT	-						1,390,900.00		
TOTAL EXCL. VARIABLE O & M COSTS AND INCL. 80% OF ECON. ENERGY SALES PROFITS	-	443,887.0	78,120.0	385,777.0	2.098	2.406	7,888,500.00	8,796,500.00	1,390,900.00
ACTUAL:									
FLA. PWR. CORP.	ECON.-C	108.0	0.0	108.0	1.785	2.003	2,898.44	3,395.22	293.42
FLA. PWR. & LIGHT	ECON.-C	180.0	0.0	180.0	1.741	1.733	2,785.70	2,772.21	(10.80)
CITY OF LAKELAND	ECON.-C	844.0	0.0	844.0	1.880	1.848	15,868.88	15,583.47	(92.31)
FT. PIERCE UTIL. AUTH.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
CITY OF GAINESVILLE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
CITY OF HOMESTEAD	ECON.-C	12.0	0.0	12.0	1.772	2.048	212.84	246.70	28.45
JACKSONVILLE ELEC. AUTH.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
KISSIMEE ELEC. UTIL.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
LAKE WORTH UTILITIES	ECON.-C	145.0	0.0	145.0	1.728	2.248	2,505.17	3,280.17	604.00
CITY OF NEW SMYRNA SCH.	ECON.-C	8.0	0.0	8.0	1.878	4.188	150.08	336.04	147.97
ORLANDO UTIL. COMM.	ECON.-C	884.0	0.0	884.0	1.704	1.785	15,083.78	15,588.00	428.19
SEMINOLE ELECTRIC CO-OP	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
CITY OF ST. CLOUD	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
CITY OF STARKE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
TALLAHASSEE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
CITY OF VERO BEACH	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
FMPA	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
KEY WEST	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
REEDY CREEK	ECON.-C	3,801.0	0.0	3,801.0	1.643	1.821	68,174.38	85,675.18	5,120.82
SONAT	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
THE ENERGY AUTHORITY, INC.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
NP ENERGY, INC.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
OOLETHORPE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
KOCH	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
TENN. VALLEY AUTH.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
FLA. PWR. & LIGHT SEPAR.	SCH.-D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
FMPA SEPAR.	SCH.-D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
KISSIMEE ELEC. UTIL. SEPAR.	SCH.-D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF NEW SMYRNA S. SEPAR.	SCH.-D	8,852.0	0.0	8,852.0	1.753	1.804	156,888.63	170,417.27	
REEDY CREEK SEPAR.	SCH.-D	11,180.0	0.0	11,180.0	1.578	1.866	153,888.40	184,888.00	
WALCHULA SEPAR.	SCH.-D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
FT. MEADE SEPAR.	SCH.-D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF ST. CLOUD SEPAR.	SCH.-D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
HARDEE POWER PARTN. SEP. CONTRACT		9,312.0	0.0	9,312.0	2.182	2.624	204,118.04	282,970.88	
SEMINOLE ELECTRIC CO JURISD.	SCH.-D	4,537.0	9.8	4,527.1	1.800	1.800	72,432.41	72,432.41	
SEMINOLE ELECTRIC CO JURISD.	SCH.-D	769.0	0.0	769.0	1.538	1.538	11,832.16	11,832.16	

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: JANUARY 1988									
SCHEDULE A6 PAGE 2 OF 3									
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	—cents/KWH— (A) FUEL (B) TOTAL COST COST		TOTAL \$ FOR FUEL ADJUSTMENT (9)X(8)/(A)	TOTAL \$ FOR TOTAL COST (9)X(8)/(B)	80% GAIN ON ECONOMY ENERGY SALES
FLA. PWL. CORP. JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
FLA. PWL. & LIGHT JURISD.	SCH. J	80.0	0.0	80.0	1.988	1.988	998.20	998.20	
CITY OF HOMESTEAD JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
KEY WEST JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
KISSIMMEE ELEC. UTIL. JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF LAKELAND JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
ORLANDO UTIL. COMM. JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
REEDY CREEK JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
SEMINOLE ELECTRIC CO. JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF NEW SMYRNA B. JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
WAUCHULA JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF VERO BEACH JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
LAKE WORTH UTILITIES JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
OGLETHORPE JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
FMPA	SCH. J	78,120.0	78,120.0	0.0	0.000	0.000	0.00	0.00	
HARDEE POWER PART. TO FLA. PWL. CORP.	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO FLA. PWL. & LT.	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO REEDY CREEK	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO GAINESVILLE	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO JACKSONVILLE	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO KISSIMMEE	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO NEW SMYRNA SCH.	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO ORLANDO	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO STARKE	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO FMPA	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO HOMESTEAD	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO SEMINOLE	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO FT. PIERCE	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO TALLAHASSEE	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO LAKELAND	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO LK. WORTH	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO KEY WEST	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO VERO BEACH	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO ENERGY AUTH	ECOM-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00 *
HARDEE POWER PART. TO FPC	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
SEMINOLE ELECTRIC CO-OP	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
OGLETHORPE	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: JANUARY 1999									
SCHEDULE A6 PAGE 3 OF 3									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	—cents/MWH— (A) (B) FUEL TOTAL COST COST	TOTAL \$ FOR FUEL ADJUSTMENT (5)X(6)/(A)	TOTAL \$ FOR TOTAL COST (5)X(8)/(5)	80% GAIN ON ECONOMY ENERGY SALES	
ADJUSTMENTS TO PREV MONYR TYPE									
	SCHED.								
HARDEE POWER PARTN 12/98 SEPAR.	CONTRACT	(4,804.0)	0.0	(4,804.0)	2.531	3.325	(121,548.24)	(186,733.00)	
HARDEE POWER PARTN 12/98 SEPAR.	CONTRACT	4,804.0	0.0	4,804.0	2.138	2.824	102,757.86	135,864.86	
SUB-TOTAL ECONOMY POWER SALES		5,922.0	0.0	5,922.0	1.884	1.802	96,558.04	108,705.87	8,517.54
SUB-TOTAL SCHEDULE D POWER SALES-SEPAR.		20,112.0	0.0	20,112.0	1.546	1.788	310,786.03	365,115.27	
SUB-TOTAL SCHEDULE D POWER SALES-JURISD.		5,308.0	9.8	5,298.1	1.881	1.881	84,284.57	84,284.57	
SUB-TOTAL SCHEDULE J POWER SALES-JURISD.		80.0	0.0	80.0	1.888	1.888	988.2	988.2	
SUB-TOTAL HARDEE PWRL PART-CONTRACT SALES-SEPAR.		8,312.0	0.0	8,312.0	1.888	2.888	185,267.36	238,802.84	
SUB-TOTAL OTHER D POWER SALES		78,120.0	78,120.0	0.0	0.000	0.000	0.00	0.00	
SUB-TOTAL SCHEDULE G POWER SALES-JURISD.		0.0	0.0	0.0	0.000	0.000	0.00	0.00	
TOTAL INCLUDING VARIABLE O & M COSTS		118,822.0	78,128.8	40,882.1	1.871	1.832	679,884.20	785,988.85	8,517.54
LESS VARIABLE O & M COSTS							(9,888.74)		
LESS VARIABLE O & M COSTS - HARDEE							0.00		
LESS TRANSMISSION COSTS SCH. D (SEP.)							(18,782.00)		
PLUS 80% OF ECON. ENERGY SALES PROFITS -							8,517.54		
TOTAL EXCL. VARIABLE O & M COSTS AND INCL.									
80% OF ECON. ENERGY SALES PROFITS		118,822.0	78,128.8	40,882.1	1.821	1.832	659,730.00	785,988.85	8,517.54
CURRENT MONTH:									
DIFFERENCE	-	(325,075.0)	9.8	(325,084.8)	(0.478)	(0.478)	(7,008,830.00)	(8,010,513.15)	(1,384,442.46)
DIFFERENCE %	-	(73.2)	0.0	(84.8)	(22.7)	(18.7)	(81.40)	(81.10)	(88.5)
PERIOD TO DATE:									
ACTUAL	-	118,822.0	78,128.8	40,882.1	1.821	1.832	659,730.00	785,988.85	8,517.54
ESTIMATED	-	443,887.0	78,120.0	385,777.0	2.098	2.405	7,888,580.00	8,796,800.00	1,390,980.00
DIFFERENCE	-	(325,075.0)	9.8	(325,084.8)	(0.478)	(0.478)	(7,008,830.00)	(8,010,513.15)	(1,384,442.46)
DIFFERENCE %	-	(73.2)	0.0	(84.8)	(22.7)	(18.7)	(81.40)	(81.10)	(88.5)

* No Economy Sales to Hardee Power Partners for Others in the month of January 1999.

PURCHASED POWER
 (EXCLUSIVE OF ECONOMY & COGENERATION PURCH.)
 TAMPA ELECTRIC COMPANY
 FOR THE MONTH JANUARY 1999

SCHEDULE A7

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
PURCHASED FROM	TYPE & SCHEDULE	TOTAL MWH PURCHASED	MWH FOR OTHER UTILITIES	MWH FOR INTERRUPTIBLE	MWH FOR FIRM	—CENTS/KWH— (A) FUEL COST (B) TOTAL COST	TOTAL \$ FOR FUEL ADJUSTMENT (B) x (7A)
ESTIMATED:							
VARIOUS	EMER.	2,521.0	0.0	1,210.0	1,311.0	9.779	128,200.00
HARDEE POWER PARTNERS	IPP	7,838.0	0.0	0.0	7,838.0	5.078	398,000.00
PECO	OTHER	54,085.0	54,085.0	0.0	0.0	0.000	0.00
FPC	OTHER	24,025.0	24,025.0	0.0	0.0	0.000	0.00
TOTAL		88,479.0	78,120.0	1,210.0	9,149.0	5.751	526,200.00
ACTUAL:							
HARDEE PWR. PART.-NATIVE	IPP	23,200.0	0.0	0.0	23,200.0	3.428	795,272.47
HARDEE PWR. PART.-OTHERS	IPP				0.0	0.000	0.000
FLA. POWER CORP.	SCH-Je				0.0	0.000	0.000
FLA. POWER CORP.	SCH-Je	12,852.0	0.0	0.0	12,852.0	1.908	244,908.50
FLA. POWER & LIGHT	SCH-Je	382.0	0.0	278.4	113.6	7.082	8,044.73
FLA. POWER & LIGHT	SCH-Je	4,921.0	0.0	0.0	4,921.0	3.282	161,515.50
CITY OF LAKELAND	SCH-Je	132.0	0.0	132.0	0.0	0.000	0.00
CITY OF LAKELAND	SCH-Je	158.0	0.0	0.0	158.0	3.358	5,336.00
ORLANDO	SCH-Je	790.0	0.0	402.2	387.8	20.457	78,332.10
ORLANDO	SCH-Je	1,559.0	0.0	0.0	1,559.0	2.935	45,782.00
KISSIMMEE ELEC. AUTH.	SCH-Je				0.0	0.000	0.000
KISSIMMEE ELEC. AUTH.	SCH-Je				0.0	0.000	0.000
THE ENERGY AUTH.	SCH-Je	370.0	0.0	33.0	337.0	8.393	28,283.26
THE ENERGY AUTH.	SCH-Je	71.0	0.0	0.0	71.0	3.014	2,139.75
REEDY CREEK	SCH-Je				0.0	0.000	0.000
PECO	SCH-Je				0.0	0.000	0.000
PECO	SCH-Je	200.0	0.0	0.0	200.0	4.100	8,200.00
KOCH ENERGY TRAD.	SCH-Je				0.0	0.000	0.000
PECO	OTHER	54,084.0	54,084.0	0.0	0.0	0.000	0.00
FPC	OTHER	24,028.0	24,028.0	0.0	0.0	0.000	0.00
KEY WEST	SCH-Je	383.0	0.0	0.0	383.0	7.311	28,000.00
ADJUSTMENTS TO PRIOR MONTHS:							
HARDEE PWR. PART.-NATIVE Dec-98	IPP	(29,329.0)	0.0	0.0	(29,329.0)	3.147	(922,933.22)
HARDEE PWR. PART.-NATIVE Dec-98	IPP	29,329.0	0.0	0.0	29,329.0	4.024	1,180,082.09
TOTAL		123,152.0	78,123.0	845.6	44,183.4	3.786	1,663,944.18
CURRENT MONTH:							
DIFFERENCE		34,673.0	3.0	(364.4)	35,034.4	(1.985)	1,137,744.18
DIFFERENCE %		39.2	0.0	(30.1)	382.9	(34.5)	216.2
PERIOD TO DATE:							
ACTUAL		123,152.0	78,123.0	845.6	44,183.4	3.786	1,663,944.2
ESTIMATED		88,479.0	78,120.0	1,210.0	9,149.0	5.751	526,200.00
DIFFERENCE		34,673.0	3.0	(364.4)	35,034.4	(1.985)	1,137,744.18
DIFFERENCE %		39.2	0.0	(30.1)	382.9	(34.5)	216.2

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: JULY 2000									
SCHEDULE A6 PAGE 1 OF 3									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	---centerown--- (A) FUEL (B) TOTAL COST COST	TOTAL \$ FOR FUEL ADJUSTMENT (SPRGS)(A)	TOTAL \$ FOR TOTAL COST (SPRGS)(B)	80% GAIN ON ECONOMY ENERGY SALES	
ESTIMATED:									
VARIOUS	SCON.	64,480.0	0.0	64,480.0	4.183 7.575	2,704,000.00	4,996,100.00	1,744,800.00	
VARIOUS JURISDICTIONAL	SCH. -D	5,790.0	0.0	5,790.0	2.388 2.388	137,388.00	137,388.00		
VARIOUS SEPARATED	SCH. -D	0.0	0.0	0.0	0.000 0.000	0.00	0.00		
HARDSEE POWER PARTNERS SEPARATED	CONTRACT	48,915.0	0.0	48,915.0	2.316 3.268	1,186,806.00	1,536,408.00		
PMPA	SCH. -D	111,800.0	0.0	111,800.0	1.805 1.805	2,014,884.00	2,014,884.00		
VARIOUS JURISDICTIONAL	SCH. -J	0.0	0.0	0.0	0.000 0.000	0.00	0.00		
TOTAL INCLUDING VARIABLE O & M COSTS	-	231,785.0	0.0	231,785.0	2.884 3.738	6,011,764.00	8,683,364.00	1,744,800.00	
LESS TRANSMISSION COSTS	-					0.00			
LESS VARIABLE O & M COSTS	-					(136,486.00)			
PLUS 80% OF SCON. ENERGY SALES PROFIT	-					1,744,800.00			
TOTAL EXCL. VARIABLE O & M COSTS AND INC	-								
80% OF SCON. ENERGY SALES PROFITS	-	231,785.0	0.0	231,785.0	3.288 3.738	7,821,264.00	8,683,364.00	1,744,800.00	
ACTUAL:									
FLA. PWL. CORP.	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
FLA. PWL. & LIGHT	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
CITY OF LAKELAND	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
FT. PIERCE UTIL. AUTH.	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
CITY OF GAINESVILLE	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
CITY OF HOMESTEAD	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
JACKSONVILLE ELIC. AUTH.	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
KEESWEE ELIC. UTIL.	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
LAKE WORTH UTILITIES	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
CITY OF NEW SMYRNA SCH.	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
ORLANDO UTIL. COMM.	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
SEMINOLE ELECTRIC CO-OP	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
CITY OF ST. CLOUD	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
CITY OF STARKE	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
TALLAHASSEE	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
CITY OF VERO BEACH	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
PMPA	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
KEY WEST	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
NEEDY CREEK	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
SONAT	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
THE ENERGY AUTHORITY, INC.	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
HF ENERGY, INC.	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
OGLETHORPE	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
KOCH	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
TENN. VALLEY AUTH.	SCON.-C	0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
FLA. PWL. & LIGHT	SEPAR. SCH. -D	0.0	0.0	0.0	0.000 0.000	0.00	0.00		
PMPA	SEPAR. SCH. -D	0.0	0.0	0.0	0.000 0.000	0.00	0.00		
KEESWEE ELIC. UTIL.	SEPAR. SCH. -D	0.0	0.0	0.0	0.000 0.000	0.00	0.00		
CITY OF NEW SMYRNA SCH.	SEPAR. SCH. -D	0.0	0.0	0.0	0.000 0.000	0.00	0.00		
NEEDY CREEK	SEPAR. SCH. -D	0.0	0.0	0.0	0.000 0.000	0.00	0.00		
WAUCHULA	SEPAR. SCH. -D	0.0	0.0	0.0	0.000 0.000	0.00	0.00		
FT. MEADE	SEPAR. SCH. -D	0.0	0.0	0.0	0.000 0.000	0.00	0.00		
CITY OF ST. CLOUD	SEPAR. SCH. -D	0.0	0.0	0.0	0.000 0.000	0.00	0.00		
HARDSEE POWER PARTNERS	SEPAR. CONTRACT	60,886.0	0.0	60,886.0	2.388 3.231	1,454,262.20	1,961,066.45		
SEMINOLE ELECTRIC CO-OP PWR JURISD.	SCH. -D	3,843.0	310.6	3,232.4	2.342 2.342	75,706.48	75,706.48		
SEMINOLE ELECTRIC CO-OP HAR JURISD.	SCH. -D	963.0	0.0	963.0	2.176 2.176	20,741.83	20,741.83		

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: JULY 2000									
SCHEDULE AS PAGE 2 OF 3									
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	—GENERATION— (A) FUEL (B) TOTAL COST COST		TOTAL \$ FOR FUEL ADJUSTMENT (5)X(6)(A)	TOTAL \$ FOR TOTAL COST (5)X(6)(B)	80% GAIN ON ECONOMY ENERGY SALES
FLA. PWR. CORP.	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
FLA. PWR. & LIGHT	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF HOMESTEAD	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
KEY WEST	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
KISSIMEE ELSC. UTIL.	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF LAKELAND	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
ORLANDO UTIL. COMM.	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
REEDY CREEK	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
SEMINOLE ELECTRIC CO-OP	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF NEW SMYRNA BCH.	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
WAUCHULA	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF VERO BEACH	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
LAKE WORTH UTILITIES	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
OGLETHORPE	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
AQUILLA	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
THE ENERGY AUTH.	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
MORGAN STANLEY	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
PMPA	SCH. D	102,066.0	0.0	102,066.0	1.896	1.896	1,834,827.04	1,834,827.04	
HARDIE POWER PART. TO FLA. PWR. CORP.	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO FLA. PWR. & LT.	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO REEDY CREEK	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO GAINESVILLE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO JACKSONVILLE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO KISSIMEE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO NEW SMYRNA BCH.	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO ORLANDO	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO STARKE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO PMPA	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO HOMESTEAD	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO SEMINOLE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO FT. PIERCE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO TALLAHASSEE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO LAKELAND	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO LK. WORTH	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO KEY WEST	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO VERO BEACH	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO ENERGY AUTHORITY	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDIE POWER PART. TO AQUILLA	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
HARDIE POWER PART. TO ORLANDO	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
HARDIE POWER PART. TO FLA. PWR. CORP.	SCH. -MS	263.0	0.0	263.0	5.218	5.218	18,418.20	18,418.20	
HARDIE POWER PART. TO FLA. PWR. & LT.	SCH. -MS	286.0	0.0	286.0	3.789	3.789	10,787.86	10,787.86	
SEMINOLE ELECTRIC CO-OP	SCH. -G	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
OGLETHORPE	SCH. -G	0.0	0.0	0.0	0.000	0.000	0.00	0.00	

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: JULY 2000									
SCHEDULE A8 PAGE 3 OF 3									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	—cents/KWH— FUEL COST (A) TOTAL COST (B)	TOTAL \$ FOR FUEL ADJUSTMENT (B)(X)(A)	TOTAL \$ FOR TOTAL COST (B)(X)(B)	80% GAIN ON ECONOMY ENERGY SALES	
FLA. PWR. CORP.	JURSD. SCH. -48	2,897.0	0.0	2,897.0	6.142 6.142	186,812.63	186,812.63		
FLA. PWR. & LIGHT	JURSD. SCH. -48	13,788.0	0.0	13,788.0	3.280 3.280	447,403.86	447,403.86		
CITY OF LAKELAND	JURSD. SCH. -48	800.0	0.0	800.0	2.808 2.808	12,542.82	12,542.82		
ORLANDO UTIL. COMM.	JURSD. SCH. -48	236.0	0.0	236.0	4.983 4.983	11,882.94	11,882.94		
CITY OF NEW SMYRNA BCH.	JURSD. SCH. -48	82.0	0.0	82.0	9.772 9.772	8,989.36	8,989.36		
CARGILL ALLIANT	JURSD. SCH. -48	204.0	0.0	204.0	8.966 8.966	14,184.86	14,184.86		
CITY OF HOMESTEAD	JURSD. SCH. -48	10.0	0.0	10.0	17.380 17.380	1,736.03	1,736.03		
ORLANDO UTIL. COMM.	JURSD. STEAM-A	373.0	0.0	373.0	36.861 36.861	136,818.36	136,818.36		
ADJ. TO PREVIOUS MONTHS	MON/YR TYP SCHED.								
HARDEE POWER PARTNERS ES	800 SEPAR. CONTRACT	(57,080.0)	0.0	(57,080.0)	2.304 3.123	(1,316,894.00)	(1,782,808.40)		
HARDEE POWER PARTNERS ACT	800 SEPAR. CONTRACT	57,080.0	0.0	57,080.0	2.304 3.231	1,367,838.88	1,844,254.80		
SUB-TOTAL ECONOMY POWER SALES		0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
SUB-TOTAL SCHEDULE D POWER SALES-SEPAR.		0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
SUB-TOTAL SCHEDULE D POWER SALES-JURSD.		4,486.0	310.6	4,186.4	2.304 2.304	96,448.32	96,448.32		
SUB-TOTAL SCHEDULE J POWER SALES-JURSD.		0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
SUB-TOTAL HARDEE PWR. PART. CONTRACT SALES-SEPAR.		80,886.0	0.0	80,886.0	2.482 3.333	1,806,186.00	2,022,701.86		
SUB-TOTAL OTHER D POWER SALES		102,056.0	0.0	102,056.0	1.886 1.886	1,834,827.04	1,834,827.04		
SUB-TOTAL SCHEDULE G POWER SALES-JURSD.		0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
SUB-TOTAL SCHEDULE MS POWER SALES-JURSD.		18,047.0	0.0	18,047.0	3.798 3.798	686,478.78	686,478.78		
SUB-TOTAL OTHER POWER SALES		373.0	0.0	373.0	36.861 36.861	136,818.36	136,818.36		
TOTAL INCLUDING VARIABLE O & M COSTS		186,886.0	310.6	186,355.4	2.362 2.631	4,368,867.80	4,878,074.36	0.00	
LESS VARIABLE O & M COSTS						0.00			
LESS VARIABLE O & M COSTS - HARDEE						0.00			
LESS TRANSMISSION COSTS SCH. D (SEPAR.)						0.00			
PLUS 80% OF ECON. ENERGY SALES PROFITS -						0.00			
TOTAL EXCL. VARIABLE O & M COSTS AND INCL. 80% OF ECON. ENERGY SALES PROFITS		186,886.0	310.6	186,355.4	2.362 2.631	4,368,867.80	4,878,074.36	0.00	
CURRENT MONTH:									
DIFFERENCE	-	(46,086.0)	310.6	(46,396.6)	(0.837) (1.167)	(3,261,896.80)	(3,767,288.86)	(1,744,900.00)	
DIFFERENCE %	-	(19.8)	0.0	(20.0)	(26.6) (28.6)	(42.6)	(43.7)	(100.0)	
PERIOD TO DATE:									
ACTUAL	-	1,064,146.0	4,731.2	1,069,413.8	2.181 2.346	22,896,423.16	24,870,804.48	0.00	
ESTIMATED	-	1,116,802.0	0.0	1,116,802.0	2.240 2.486	25,088,888.00	27,486,188.00	2,217,320.00	
DIFFERENCE	-	(54,367.0)	4,731.2	(58,088.2)	(0.079) (0.108)	(2,194,264.82)	(2,596,863.61)	(2,217,320.00)	
DIFFERENCE %	-	(4.9)	0.0	(5.3)	(3.5) (4.4)	(8.6)	(9.5)	(100.0)	

* THE PROFITS REFLECTED ARE ONLY ON TEC 40%. SEC 80% OR \$8,436.85 HAS BEEN EXCLUDED.

PURCHASED POWER
 (EXCLUSIVE OF ECONOMY & COGENERATION PURCH.)
 TAMPA ELECTRIC COMPANY
 FOR THE MONTH JULY 2000

SCHEDULE A7

(1)	(2)	(3)	(4)	(5)	(6)	(7)		(8)
PURCHASED FROM	TYPE & SCHEDULE	TOTAL MWH PURCHASED	MWH FOR OTHER UTILITIES	MWH FOR INTERRUPTIBLE	MWH FOR FIRM	CENTS/KWH		TOTAL \$ FOR FUEL ADJUSTMENT (8) x (7A)
						(A) FUEL COST	(B) TOTAL COST	
ESTIMATED:								
VARIOUS	EMER.	57,625.0	0.0	27,875.0	29,960.0	16.059	16.059	4,809,700.00
HARDEE POWER PARTNERS	IPP	146,970.0	0.0	0.0	146,970.0	3.555	3.555	5,225,400.00
VARIOUS	OTHER	57,878.0	0.0	0.0	57,878.0	4.512	4.512	2,611,100.00
TOTAL		262,471.0	0.0	27,875.0	234,798.0	5.386	5.386	12,646,200.00
ACTUAL:								
HARDEE PWR. PART.-NATIVE	IPP	116,390.0	0.0	0.0	116,390.0	5.188	5.188	6,036,298.74
HARDEE PWR. PART.-OTHERS	IPP	638.0	0.0	0.0	638.0	3.696	3.696	23,692.49
FLA. POWER CORP.	SCH.-Ja	742.0	0.0	455.0	287.0	11.521	11.521	33,083.00
FLA. POWER CORP.	SCH.-Jc	8,985.0	0.0	0.0	8,985.0	4.850	4.850	417,772.00
FLA. POWER & LIGHT	SCH.-Ja	2,981.0	0.0	1,544.2	1,436.8	10.772	10.772	154,788.35
FLA. POWER & LIGHT	SCH.-Jc	12,734.0	0.0	0.0	12,734.0	5.485	5.485	696,461.00
CITY OF LAKELAND	SCH.-Ja	10,230.0	0.0	6,018.2	4,211.8	21.400	21.400	901,318.51
CITY OF LAKELAND	SCH.-Jc	8,934.0	0.0	0.0	8,934.0	7.178	7.178	641,117.50
ORLANDO	SCH.-Ja	3,801.0	0.0	1,679.0	2,122.0	11.131	11.131	236,202.88
ORLANDO	SCH.-Jc	15,849.0	0.0	0.0	15,849.0	6.915	6.915	1,095,097.50
ENERGY MARKETING	SCH.-Jc	273.0	0.0	0.0	273.0	6.314	6.314	17,238.00
THE ENERGY AUTH.	SCH.-Ja	4,553.0	0.0	2,306.9	2,246.1	12.506	12.506	280,897.22
THE ENERGY AUTH.	SCH.-Jc	3,770.0	0.0	0.0	3,770.0	9.191	9.191	346,487.32
RELIANT	SCH.-Ja	30.0	0.0	30.0	0.0	0.000	0.000	0.00
RELIANT	SCH.-Jc	75.0	0.0	0.0	75.0	5.000	5.000	3,750.00
REEDY CREEK	SCH.-Ja	6.0	0.0	0.0	6.0	6.200	6.200	372.00
REEDY CREEK	SCH.-Jc	84.0	0.0	0.0	84.0	4.117	4.117	3,458.00
TALLAHASSEE	SCH.-Ja	610.0	0.0	472.4	337.6	15.137	15.137	51,102.53
TALLAHASSEE	SCH.-Jc	3,484.0	0.0	0.0	3,484.0	6.866	6.866	237,853.74
AQUILLA	SCH.-Ja	205.0	0.0	60.0	145.0	9.087	9.087	13,190.74
AQUILLA	SCH.-Jc	1,508.0	0.0	0.0	1,508.0	7.215	7.215	108,803.87
MORGAN STANLEY	SCH.-Ja	670.0	0.0	50.0	620.0	9.925	9.925	61,534.28
MORGAN STANLEY	SCH.-Jc	2,165.0	0.0	0.0	2,165.0	9.894	9.894	214,200.28
CARGILL FERTILIZER	SCH.-Ja	174.0	0.0	94.0	80.0	16.375	16.375	13,100.00
CARGILL FERTILIZER	SCH.-Jc	223.0	0.0	0.0	223.0	9.000	9.000	20,070.00
CORAL ENERGY	SCH.-Jc	281.0	0.0	0.0	281.0	6.435	6.435	18,081.00
FARMLAND HYDRO LP	SCH.-Jc	302.0	0.0	0.0	302.0	3.496	3.496	10,558.80
RINGHAVER	SCH.-Jc	258.0	0.0	0.0	258.0	6.415	6.415	21,710.79
OKEELANTA	SCH.-O	23,816.0	0.0	0.0	23,816.0	5.485	5.485	1,308,311.80
AUBURNDALE POWER PARTNERS	SCH.-O	4,029.0	0.0	0.0	4,029.0	2.625	2.625	105,798.91
FLA. POWER & LIGHT	STEAM-A	25.0	0.0	0.0	25.0	11.544	11.544	2,886.00
ADJUSTMENTS TO PRIOR MONTHS:								
HARDEE PWR. PART.-NATIVE	Jun-00 IPP	(94,031.0)	0.0	0.0	(94,031.0)	5.118	5.118	(4,810,892.84)
HARDEE PWR. PART.-NATIVE	Jun-00 IPP	94,031.0	0.0	0.0	94,031.0	5.271	5.271	4,956,144.36
CARGILL FERTILIZER	Jan-00 SCH.-Jc	(33.0)	0.0	0.0	(33.0)	4.870	4.870	(1,541.16)
CARGILL FERTILIZER	Jan-00 SCH.-Jc	33.0	0.0	0.0	33.0	5.098	5.098	1,682.32
TOTAL		227,805.0	0.0	12,709.7	215,095.3	6.287	6.287	13,522,489.89
CURRENT MONTH:								
DIFFERENCE	-	(34,666.0)	0.0	(14,965.3)	(18,700.7)	-4.448	-4.448	678,289.69
DIFFERENCE %	-	(13.2)	0.0	(54.1)	(8.4)	(62.6)	(62.6)	6.9
PERIOD TO DATE:								
ACTUAL	-	1,193,955.00	0.00	131,847.50	1,062,107.5	4.804	4.804	51,028,880.21
ESTIMATED	-	847,802.0	0.0	104,873.0	743,129.0	4.791	4.791	35,600,300.0
DIFFERENCE	-	346,153.0	0.0	27,174.5	318,978.5	0.013	0.013	15,428,580.21
DIFFERENCE %	-	40.8	0.0	26.0	42.9	0.3	0.3	43.3

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: AUGUST 1988								
SCHEDULE A6 PAGE 1 OF 3								
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELBO OTHER SYSTEM	MWH FROM OWN GENERATION	—combined— (A) FUEL COST (B) TOTAL COST	TOTAL \$ FOR FUEL ADJUSTMENT (5)(2)(5)(A)	TOTAL \$ FOR TOTAL COST (5)(2)(5)(B)	80% GAIN N ECONOMY ENERGY SALES
ESTIMATED:								
VARIOUS		8,318.8	0.0	8,318.8	1,940	2,382	103,200.00	126,700.00
VARIOUS JURISDICTIONAL	SCH -O	8,724.8	0.0	8,724.8	2,100	2,100	120,200.00	120,200.00
VARIOUS SEPARATED	SCH -O	24,773.8	0.0	24,773.8	1,743	1,988	431,800.00	406,800.00
VARIOUS	CONTRAC	0.0	0.0	0.0	0.000	0.000	0.00	0.00
HARDEE POWER PARTNERS SEPARATED	CONTRAC	48,800.8	0.0	48,800.8	2,348	3,210	1,144,200.00	1,808,400.00
VARIOUS	SCH -O	78,120.8	78,120.8	0.0	0.000	0.000	0.00	0.00
VARIOUS JURISDICTIONAL	SCH -J	8,861.8	0.0	8,861.8	2,384	2,384	141,800.00	141,800.00
TOTAL INCLUDING VARIABLE O & M COSTS	-	108,867.8	78,120.8	90,867.8	2,143	2,706	1,841,200.00	2,480,200.00
LESS TRANSMISSION COSTS	-	-	-	-	-	-	(24,800.00)	-
LESS VARIABLE O & M COSTS	-	-	-	-	-	-	(8,100.00)	-
PLUS 80% OF BCOON ENERGY SALES PROFITS	-	-	-	-	-	-	18,800.00	-
TOTAL EXCL. VARIABLE O & M COSTS AND INCL. 80% OF BCOON ENERGY SALES PROFITS	-	108,867.8	78,120.8	90,867.8	2,127	2,706	1,826,800.00	2,480,200.00
ACTUAL:								
FLA. PWR. CORP.	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
FLA. PWR. & LIGHT	BCOON-C	837.8	0.0	837.8	2,178	2,383	20,416.87	21,208.88
CITY OF LAKELAND	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
FT. PIERCE UTIL. AUTH.	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
CITY OF GAINESVILLE	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
CITY OF HOMESTEAD	BCOON-C	138.8	0.0	138.8	2,318	2,820	3,128.72	3,942.48
JACKSONVILLE ELEC. AUTH.	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
KISSIMEE ELEC. UTIL.	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
LAKE WORTH UTILITIES	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
CITY OF NEW SMYRNA SCH.	BCOON-C	88.0	0.0	88.0	2,404	3,880	1,364.48	2,238.88
ORLANDO UTIL. COMM.	BCOON-C	12.0	0.0	12.0	2,418	3,907	288.18	488.88
SEMINOLE ELECTRIC CO-OP	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
CITY OF ST. CLOUD	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
CITY OF STARK	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
TALLAHASSEE	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
CITY OF VERO BEACH	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
PMMA	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
KEY WEST	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
REEDY CREEK	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
SOMAT	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
THE ENERGY AUTHORITY, INC.	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
NP ENERGY, INC.	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
OGLETHORPE	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
KOCH	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
TENN. VALLEY AUTH.	BCOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00
FLA. PWR. & LIGHT	SCH -O	0.0	0.0	0.0	0.000	0.000	0.00	0.00
PMMA	SCH -O	0.0	0.0	0.0	0.000	0.000	0.00	0.00
KISSIMEE ELEC. UTIL.	SCH -O	0.0	0.0	0.0	0.000	0.000	0.00	0.00
CITY OF NEW SMYRNA SCH.	SCH -O	13,208.0	0.0	13,208.0	1,702	1,878	224,784.80	247,743.84
REEDY CREEK	SCH -O	8,288.0	0.0	8,288.0	1,871	1,885	130,187.36	184,172.25
WALCHULA	SCH -O	0.0	0.0	0.0	0.000	0.000	0.00	0.00
FT. MEADE	SCH -O	0.0	0.0	0.0	0.000	0.000	0.00	0.00
CITY OF ST. CLOUD	SCH -O	0.0	0.0	0.0	0.000	0.000	0.00	0.00
HARDEE POWER PARTNERS	SCH -O	47,867.8	0.0	47,867.8	2,228	2,880	1,068,867.40	1,308,828.80
SEMINOLE ELECTRIC CO-OP PRECO JURISD.	SCH -O	8,188.0	1,808.8	4,280.2	(1,233)	(1,233)	(32,403.48)	(32,403.45)
SEMINOLE ELECTRIC CO-OP HARDEE JURISD.	SCH -O	823.0	0.0	823.0	1,811	1,811	8,470.80	9,470.80

		POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: AUGUST 1999						SCHEDULE AS PAGE 2 OF 3		
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
SOLD TO		TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	—GENERATION— (A) FUEL COST (B) TOTAL COST	TOTAL \$ FOR FUEL ADJUSTMENT (5)(A)(B)	TOTAL \$ FOR TOTAL COST (5)(A)(B)	80% GAIN ON ECONOMIC ENERGY SALES	
FLA. PWL. CORP.	JURISD.	SCH. J	462.0	0.0	462.0	3.198	3.198	15,222.00	15,222.00	
FLA. PWL. & LIGHT	JURISD.	SCH. J	477.0	0.0	477.0	3.246	3.246	15,463.00	15,463.00	
CITY OF HOMESTEAD	JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
KEY WEST	JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
KEESBEE ELEC. UTIL.	JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF LAKELAND	JURISD.	SCH. J	408.0	0.0	408.0	3.741	3.741	14,963.28	14,963.28	
ORLANDO UTIL. COMM.	JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
REEDY CREEK	JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
SEMINOLE ELECTRIC CO-OP	JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF NEW SMYRNA SCH.	JURISD.	SCH. J	4,000.0	0.0	4,000.0	2.314	2.314	107,806.47	107,806.47	
WAUCHULA	JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF VERO BEACH	JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
LAKE WORTH UTILITIES	JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
OGLETHORPE	JURISD.	SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
THE ENERGY AUTHORITY	JURISD.	SCH. J	1,522.0	0.0	1,522.0	6.123	6.123	63,190.86	63,190.86	
PMPA		SCH. D	70,120.0	70,120.0	0.0	0.000	0.000	0.00	0.00	
HARDSE POWER PART. TO FLA. PWL. CORP.		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO FLA. PWL. LT.		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO REEDY CREEK		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO GAINESVILLE		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO JACKSONVILLE		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO KEESBEE		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO NEW SMYRNA SCH.		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO ORLANDO		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO STARKE		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO PMPA		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO HOMESTEAD		BOOK-C	31.0	0.0	31.0	3.672	3.516	962.34	1,000.64	116.00
HARDSE POWER PART. TO SEMINOLE		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO FT. PIERCE		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO TALLAHASSEE		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO LAKELAND		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO LK. WORTH		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO KEY WEST		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO VERO BEACH		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO ENERGY AUTHORITY		BOOK-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDSE POWER PART. TO FLA. PWL. CORP.		SCH. J	36.0	0.0	36.0	2.991	2.991	908.91	908.91	
HARDSE POWER PART. TO FLA. PWL. LT.		SCH. J	364.0	0.0	364.0	3.011	3.011	11,000.40	11,000.40	
SEMINOLE ELECTRIC CO-OP		SCH. G	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
OGLETHORPE		SCH. G	0.0	0.0	0.0	0.000	0.000	0.00	0.00	

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: AUGUST 1999										SCHEDULE A4 PAGE 3 OF 3	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)			
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	—cents/MWH— (A) FUEL COST	(B) TOTAL COST	TOTAL \$ FOR FUEL ADJUSTMENT (B)(A)	TOTAL \$ FOR TOTAL COST (B)(B)	80% GAIN IN ECONOMY ENERGY SALES		
ADJUSTMENTS TO PREVIOUS MONTH	MON/YR TYPE	SCHED.									
HARDEE POWER PARTNERS EST.	7/99 SEPAR.	CONTRAC	(48,208.0)	0.0	(48,208.0)	2.080	2.732	(1,823,836.40)	(1,344,362.58)		
HARDEE POWER PARTNERS ACT.	7/99 SEPAR.	CONTRAC	48,208.0	0.0	48,208.0	2.230	2.880	1,101,787.12	1,417,190.40		
FLA. PWR. CORP.	7/99	BOOK-C	(808.0)	0.0	(808.0)	2.828	3.818	(17,821.84)	(23,251.00)	(4,343.48)	
FLA. PWR. CORP.	7/99	BOOK-C	874.0	0.0	874.0	3.166	4.061	17,821.84	23,251.00	4,343.48	
THE ENERGY AUTHORITY	7/99 JURISD.	SCHL-J	(288.8)	0.0	(288.8)	23.344	23.344	(66,118.83)	(88,118.83)		
THE ENERGY AUTHORITY	7/99 JURISD.	SCHL-J	361.0	0.0	361.0	16.886	16.886	66,118.83	88,118.83		
AQUILA	7/99 JURISD.	SCHL-J	(121.9)	0.0	(121.9)	16.828	16.828	(18,778.40)	(18,778.40)		
AQUILA	7/99 JURISD.	SCHL-J	198.8	0.0	198.8	13.408	13.408	26,278.40	26,278.40		
CITY OF NEW SMYRNA SCH.	7/99 JURISD.	SCHL-J	(4,528.0)	0.0	(4,528.0)	2.312	2.312	(104,704.82)	(104,704.82)		
CITY OF NEW SMYRNA SCH.	7/99 JURISD.	SCHL-J	4,530.0	0.0	4,530.0	2.312	2.312	104,708.48	104,708.48		
SUB-TOTAL ECONOMY POWER SALES			1,138.0	0.0	1,138.0	2.301	2.844	26,181.87	28,946.88	2,211.22	
SUB-TOTAL SCHEDULE D POWER SALES-SEPAR.			21,481.0	0.0	21,481.0	1.861	1.879	364,911.86	403,916.11		
SUB-TOTAL SCHEDULE D POWER SALES-JURISD.			8,863.8	1,808.8	4,773.2	(0.888)	(0.888)	(42,832.78)	(42,832.78)		
SUB-TOTAL SCHEDULE J POWER SALES-JURISD.			8,128.0	0.0	8,128.0	3.279	3.279	268,896.78	288,896.78		
SUB-TOTAL HARDEE PWR. PART. CONTRACT SALES-SEPAR.			47,567.8	0.0	47,567.8	2.384	3.833	1,134,238.12	1,442,787.44		
SUB-TOTAL OTHER D POWER SALES			78,120.0	78,120.0	0.0	0.000	0.000	0.00	0.00		
SUB-TOTAL SCHEDULE G POWER SALES-JURISD.			0.0	0.0	0.0	0.000	0.000	0.00	0.00		
TOTAL INCLUDING VARIABLE O & M COSTS			163,127.0	80,028.8	83,087.2	2.083	2.826	1,738,886.88	2,088,183.16	2,211.22	
LESS VARIABLE O & M COSTS								(2,362.82)			
LESS VARIABLE O & M COSTS - HARDEE								(4.34)			
LESS TRANSMISSION COSTS SCH. D (SEP.)								(18,063.80)			
PLUS 80% OF BOOK. ENERGY SALES PROFITS -								2,211.22			
TOTAL EXCL. VARIABLE O & M COSTS AND INCL.											
80% OF BOOK. ENERGY SALES PROFITS			163,127.0	80,028.8	83,087.2	2.071	2.826	1,738,886.12	2,088,183.16	2,211.22	
CURRENT MONTH:											
DIFFERENCE	-		(5,580.0)	1,908.8	(7,488.8)	(0.088)	(0.178)	(205,833.88)	(361,008.84)	(18,588.78)	
DIFFERENCE %	-		(3.3)	2.4	(8.2)	(2.6)	(8.8)	(19.7)	(14.3)	(88.2)	
PERIOD TO DATE:											
ACTUAL	-		1,047,368.0	618,178.7	429,178.3	1.887	2.326	8,100,173.82	8,882,480.01	43,310.20	
ESTIMATED	-		2,027,408.0	612,380.0	1,415,048.0	2.258	2.618	31,848,448.88	37,048,800.00	4,430,840.00	
DIFFERENCE	-		(980,040.0)	5,818.7	(985,869.7)	(0.371)	(0.292)	(23,848,286.36)	(27,063,136.99)	(4,387,329.80)	
DIFFERENCE %	-		(48.3)	1.0	(68.7)	(18.4)	(11.2)	(74.8)	(73.1)	(99.0)	

* THE PROFITS REFLECTED ARE ONLY ON TEC 40%. SEC 80% OR \$2,914.38 HAS BEEN EXCLUDED.

PURCHASED POWER (EXCLUSIVE OF ECONOMY & COGENERATION PURCH.) TAMPA ELECTRIC COMPANY FOR THE MONTH AUGUST 1999							SCHEDULE A7
(1) PURCHASED FROM	(2) TYPE & SCHEDULE	(3) TOTAL MMH PURCHASED	(4) MMH FOR OTHER UTILITIES	(5) MMH FOR INTERUP- TABLE	(6) MMH FOR FIRM	(7) CENTSKWH (A) FUEL COST TOTAL COST	(8) TOTAL \$ FOR FUEL ADJUSTMENT (6) x (7A)
ESTIMATED:							
VARIOUS	EMER.	28,325.0	0.0	16,388.0	12,827.0	9.779	1,264,100.00
HARDEE POWER PARTNERS	IPP	71,131.0	0.0	0.0	71,131.0	2.904	2,065,400.00
PSCO	OTHER	54,086.0	54,086.0	0.0	0.0	0.000	8.00
FPC	OTHER	24,025.0	24,025.0	0.0	0.0	0.000	0.00
TOTAL		177,578.0	78,120.0	16,388.0	84,088.0	3.961	3,328,500.00
ACTUAL:							
HARDEE PWR. PART.-NATIVE	IPP	122,363.0	0.0	0.0	122,363.0	3.286	4,020,962.82
HARDEE PWR. PART.-OTHERS	IPP	451.0	0.0	0.0	451.0	2.436	10,962.71
FLA. POWER CORP.	SCH-Jc	4,386.0	0.0	1,942.1	2,443.9	10.808	266,686.29
FLA. POWER CORP.	SCH-Jc	20,463.0	0.0	0.0	20,463.0	2.828	586,636.29
FLA. POWER & LIGHT	SCH-Jc	9,998.0	0.0	2,878.3	7,119.7	9.246	668,346.51
FLA. POWER & LIGHT	SCH-Jc	13,388.0	0.0	0.0	13,388.0	4.108	552,026.70
CITY OF LAKELAND	SCH-Jc	16,880.0	0.0	11,281.2	5,598.8	13.788	768,726.24
CITY OF LAKELAND	SCH-Jc	10,363.0	0.0	0.0	10,363.0	6.862	708,111.80
ORLANDO	SCH-Jc	1,670.0	0.0	1,601.0	69.0	12.440	8,663.68
ORLANDO	SCH-Jc	2,767.0	0.0	0.0	2,767.0	4.575	126,980.00
OKELANTA	SCH-Jc	2,848.0	0.0	280.4	2,567.6	4.866	120,968.76
OKELANTA	SCH-Jc	360.0	0.0	0.0	360.0	4.800	1,728.00
THE ENERGY AUTH.	SCH-Jc	14,908.0	0.0	12,678.9	2,229.1	16.833	346,036.67
THE ENERGY AUTH.	SCH-Jc	1,941.0	0.0	0.0	1,941.0	6.562	12,738.36
REEDY CREEK	SCH-Jc	334.0	0.0	136.5	197.5	6.710	1,326.42
REEDY CREEK	SCH-Jc	863.0	0.0	0.0	863.0	4.398	3,752.00
AQUILLA	SCH-Jc	3,304.0	0.0	1,886.4	1,417.6	6.364	104,816.45
AQUILLA	SCH-Jc	222.0	0.0	0.0	222.0	3.290	7,322.82
TALLAHASSEE	SCH-Jc	3,913.0	0.0	2,433.5	1,479.5	10.261	161,804.10
TALLAHASSEE	SCH-Jc	1,886.0	0.0	0.0	1,886.0	6.428	108,968.62
MORGAN STANLEY	SCH-Jc	13,324.0	0.0	4,888.8	8,435.2	9.748	820,623.63
MORGAN STANLEY	SCH-Jc	1,780.0	0.0	0.0	1,780.0	8.821	15,612.12
KOCH	SCH-Jc	7,264.0	0.0	6,788.5	475.5	23.064	116,836.64
KOCH	SCH-Jc	2,286.0	0.0	0.0	2,286.0	6.404	14,658.10
FAIRLAND HYDRO LP	SCH-Jc	988.0	0.0	0.0	988.0	3.900	3,853.20
AUBURNDALE POWER PARTNERS	SCH-Jc	4,088.0	0.0	0.0	4,088.0	2.780	11,272.80
PSCO	OTHER	54,086.0	54,086.0	0.0	0.0	0.000	0.00
FPC	OTHER	24,025.0	24,025.0	0.0	0.0	0.000	0.00
ADJUSTMENTS TO PRIOR MONTHS:							
HARDEE PWR. PART.-NATV	7/99 IPP	(96,334.0)	0.0	0.0	(96,334.0)	3.282	(3,227,362.75)
HARDEE PWR. PART.-NATV	7/99 IPP	108,110.0	0.0	0.0	108,110.0	2.966	3,206,917.22
FLA. POWER & LIGHT	7/99 STEAM-A	(736.0)	0.0	(34.0)	(702.0)	7.047	(4,946.36)
FLA. POWER & LIGHT	7/99 STEAM-A	736.0	0.0	34.0	702.0	115.136	80,816.76
JACKSONVILLE ELEC. AUTH.	7/99 STEAM-A	(400.0)	0.0	(2.0)	(398.0)	8.898	(3,528.87)
JACKSONVILLE ELEC. AUTH.	7/99 STEAM-A	400.0	0.0	2.0	398.0	132.071	52,561.48
FLA. POWER & LIGHT	7/99 SCH-Jc	(13,882.0)	0.0	0.0	(13,882.0)	3.629	(50,416.80)
FLA. POWER & LIGHT	7/99 SCH-Jc	13,882.0	0.0	0.0	13,882.0	4.060	562,673.81
THE ENERGY AUTH.	7/99 SCH-Jc	(4,516.0)	0.0	(4,248.6)	(267.4)	16.112	(4,308.88)
THE ENERGY AUTH.	7/99 SCH-Jc	4,516.0	0.0	4,248.6	267.4	19.345	51,536.12
THE ENERGY AUTH.	7/99 SCH-Jc	(385.0)	0.0	0.0	(385.0)	6.820	(2,625.70)
THE ENERGY AUTH.	7/99 SCH-Jc	385.0	0.0	0.0	385.0	6.645	2,558.66
TALLAHASSEE	7/99 SCH-Jc	(2,230.0)	0.0	(1,425.5)	(804.5)	16.279	(13,066.06)
TALLAHASSEE	7/99 SCH-Jc	2,230.0	0.0	1,425.5	804.5	16.140	12,947.00
TALLAHASSEE	7/99 SCH-Jc	(980.0)	0.0	0.0	(980.0)	4.686	(4,596.36)
TALLAHASSEE	7/99 SCH-Jc	980.0	0.0	0.0	980.0	4.636	4,548.00
AQUILLA	7/99 SCH-Jc	(2,562.0)	0.0	0.0	(2,562.0)	3.773	(9,666.37)
AQUILLA	7/99 SCH-Jc	2,562.0	0.0	0.0	2,562.0	3.716	9,531.30
OKELANTA	7/99 SCH-Jc	(366.0)	0.0	0.0	(366.0)	24.822	(9,082.12)
OKELANTA	7/99 SCH-Jc	366.0	0.0	0.0	366.0	4.076	1,492.12
AUBURNDALE PWR. PARTN	7/99 SCH-Jc	(4,398.0)	0.0	0.0	(4,398.0)	4.144	(18,216.00)
AUBURNDALE PWR. PARTN	7/99 SCH-Jc	4,224.0	0.0	0.0	4,224.0	3.815	16,100.00
CUTRALE CITRUS	7/99 SCH-Jc	(25.0)	0.0	0.0	(25.0)	32.000	(800.00)
CUTRALE CITRUS	7/99 SCH-Jc	25.0	0.0	0.0	25.0	38.000	950.00
TOTAL		390,637.0	78,120.0	46,906.6	226,907.4	6.003	11,362,740.79
CURRENT MONTH:							
DIFFERENCE	-	173,381.0	0.0	30,511.8	142,846.4	6.917	8,023,240.79
DIFFERENCE %	-	97.6	0.0	186.2	169.9	141.6	241.0
PERIOD TO DATE:							
ACTUAL	-	1,972,846.00	612,256.00	146,828.20	1,214,769.8	3.701	44,967,506.96
ESTIMATED	-	1,084,277.0	612,380.0	88,463.8	415,464.0	3.609	14,996,800.0
DIFFERENCE	-	888,569.0	(102.0)	58,364.4	799,305.8	0.092	29,970,706.96
DIFFERENCE %	-	82.0	0.0	166.4	192.4	2.6	198.6

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: DECEMBER 1999										SCHEDULE A6 PAGE 1 OF 3
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)	
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	—cents/kwh— (A) (B) FUEL TOTAL COST COST		TOTAL \$ FOR FUEL ADJUSTMENT (5)(6)(A)	TOTAL \$ FOR TOTAL COST (5)(6)(B)	80% GAIN ON ECONOMY ENERGY SALES	
ESTIMATED:										
VARIOUS	ECON.	74,589.0	0.0	74,589.0	1.846	2.264	1,377,200.00	1,688,900.00	249,380.00	
VARIOUS JURISDICTIONAL	SCH. -D	5,875.0	0.0	5,875.0	1.981	1.981	112,400.00	112,400.00		
VARIOUS SEPARATED	SCH. -D	21,060.0	0.0	21,060.0	1.778	2.063	374,200.00	432,100.00		
VARIOUS	CONTRACT	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
HARDEE POWER PARTNERS SEPARATED	CONTRACT	18,700.0	0.0	18,700.0	2.336	3.200	389,900.00	634,400.00		
VARIOUS	SCH. -D	95,400.0	95,400.0	0.0	0.000	0.000	0.00	0.00		
VARIOUS JURISDICTIONAL	SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
TOTAL INCLUDING VARIABLE O & M COSTS	-	213,414.0	95,400.0	118,014.0	1.910	2.345	2,253,700.00	2,787,800.00	249,380.00	
LESS TRANSMISSION COSTS	-						(16,100.00)			
LESS VARIABLE O & M COSTS	-						(126,300.00)			
PLUS 80% OF ECON. ENERGY SALES PROFITS	-						249,380.00			
TOTAL EXCL. VARIABLE O & M COSTS AND INCL. 80% OF ECON. ENERGY SALES PROFITS	-	213,414.0	95,400.0	118,014.0	1.997	2.346	2,356,680.00	2,787,800.00	249,380.00	
ACTUAL:										
FLA. PWR. CORP.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
FLA. PWR. & LIGHT	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
CITY OF LAKELAND	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
FT. PIERCE UTIL. AUTH.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
CITY OF GAINESVILLE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
CITY OF HOMESTEAD	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
JACKSONVILLE ELEC. AUTH.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
KISSIMMEE ELEC. UTIL.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
LAKE WORTH UTILITIES	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
CITY OF NEW SMYRNA BCH.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
ORLANDO UTIL. COMM.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
SEMINOLE ELECTRIC CO-OP	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
CITY OF ST. CLOUD	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
CITY OF STARKE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
TALLAHASSEE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
CITY OF VERO BEACH	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
FMPA	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
KEY WEST	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
REEDY CREEK	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
SONAT	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
THE ENERGY AUTHORITY, INC.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
NP ENERGY, INC.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
OGLETHORPE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
KOCH	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
TENN. VALLEY AUTH.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
FLA. PWR. & LIGHT	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
FMPA	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
KISSIMMEE ELEC. UTIL.	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
CITY OF NEW SMYRNA BCH.	SEPAR. SCH. -D	9,566.0	0.0	9,566.0	1.565	1.903	151,270.56	183,962.03		
REEDY CREEK	SEPAR. SCH. -D	7,880.0	0.0	7,880.0	1.818	1.907	143,278.75	150,271.80		
WAUCHULA	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
FT. MEADE	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
CITY OF ST. CLOUD	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
HARDEE POWER PARTNERS	SEP. CONTRACT	4,321.0	0.0	4,321.0	2.304	3.019	99,555.84	130,450.99		
SEMINOLE ELECTRIC CO-OP P	JURISO. SCH. -D	4,718.0	62.1	4,656.9	2.073	2.073	96,522.31	96,522.31		
SEMINOLE ELECTRIC CO-OP H	JURISO. SCH. -D	593.0	0.0	593.0	2.023	2.023	11,998.77	11,998.77		

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: DECEMBER 1999									
SCHEDULE A6 PAGE 2 OF 3									
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	—cents/KWH— (A) FUEL TOTAL (B) COST		TOTAL \$ FOR FUEL ADJUSTMENT (5)X(6)X(A)	TOTAL \$ FOR TOTAL COST (5)X(6)X(B)	80% GAIN ON ECONOMY ENERGY SALES
FLA. PWR. CORP.	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
FLA. PWR. & LIGHT	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF HOMESTEAD	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
KEY WEST	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
KISSIMMEE ELEC. UTIL.	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF LAKELAND	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
ORLANDO UTIL. COMM.	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
REEDY CREEK	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
SEMINOLE ELECTRIC CO-OP	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF NEW SMYRNA BCH.	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
WAUCHULA	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF VERO BEACH	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
LAKE WORTH UTILITIES	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
OGLETHORPE	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
THE ENERGY AUTHORITY	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
PMPA	SCH. -D	95,394.0	95,394.0	0.0	0.000	0.000	0.00	0.00	
HARDEE POWER PART. TO FLA. PWR. CORP.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO FLA. PWR. & LT.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO REEDY CREEK	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO GAINESVILLE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO JACKSONVILLE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO KISSIMMEE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO NEW SMYRNA BCH.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO ORLANDO	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO STARKE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO PMPA	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO HOMESTEAD	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO SEMINOLE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO FT. PIERCE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO TALLAHASSEE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO LAKELAND	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO LK. WORTH	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO KEY WEST	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO VERO BEACH	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO ENERGY AUTHORITY	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
SEMINOLE ELECTRIC CO-OP	SCH. -G	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
OGLETHORPE	SCH. -G	0.0	0.0	0.0	0.000	0.000	0.00	0.00	

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: DECEMBER 1999									
SCHEDULE A6 PAGE 3 OF 3									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	—cents/KWH— (A) (B) FUEL TOTAL COST COST	TOTAL \$ FOR FUEL ADJUSTMENT (\$)(X)(B)(A)	TOTAL \$ FOR TOTAL COST (\$)(X)(B)	80% GAIN ON ECONOMY ENERGY SALES	
FLA. PWL. CORP.	JURISO. SCH. -M	6,014.0	0.0	6,014.0	3.118 3.118	187,619.93	187,619.93		
FLA. PWL. & LIGHT	JURISO. SCH. -M	17,821.0	0.0	17,821.0	2.484 2.484	442,616.06	442,616.06		
CITY OF LAKELAND	JURISO. SCH. -M	2,738.0	0.0	2,738.0	2.480 2.480	67,365.47	67,365.47		
ORLANDO UTIL. COMM.	JURISO. SCH. -M	350.0	0.0	350.0	2.796 2.796	9,784.43	9,784.43		
SEMINOLE ELECTRIC CO-OP	JURISO. SCH. -M	1,348.0	0.0	1,348.0	6.283 6.283	84,862.78	84,862.78		
REEDY CREEK	JURISO. SCH. -M	348.0	0.0	348.0	2.563 2.563	8,946.62	8,946.62		
THE ENERGY AUTHORITY	JURISO. SCH. -M	632.0	0.0	632.0	3.132 3.132	19,864.83	19,864.83		
TALLAHASSEE	JURISO. SCH. -M	50.0	0.0	50.0	2.742 2.742	1,370.85	1,370.85		
ADJUSTMENTS TO PREVIOUS	MONYR TYPE SCHED.								
NONE									
SUB-TOTAL ECONOMY POWER SALES		0.0	0.0	0.0	0.000 0.000	0.00	0.00	0.00	
SUB-TOTAL SCHEDULE D POWER SALES-SEPAR.		17,548.0	0.0	17,548.0	1.679 1.605	294,549.31	334,233.63		
SUB-TOTAL SCHEDULE D POWER SALES-JURISO.		8,311.0	62.1	8,248.9	2.067 2.067	168,519.08	168,519.08		
SUB-TOTAL SCHEDULE J POWER SALES-JURISO.		0.0	0.0	0.0	0.000 0.000	0.00	0.00		
SUB-TOTAL HARDEE PWL. PART CONTRACT SALES-SEPAR.		4,321.0	0.0	4,321.0	2.304 3.019	99,565.84	130,450.99		
SUB-TOTAL OTHER D POWER SALES		95,394.0	95,394.0	0.0	0.000 0.000	0.00	0.00		
SUB-TOTAL SCHEDULE G POWER SALES-JURISO.		0.0	0.0	0.0	0.000 0.000	0.00	0.00		
SUB-TOTAL SCHEDULE M POWER SALES-JURISO.		29,198.0	0.0	29,198.0	2.805 2.805	818,949.66	818,949.66		
TOTAL INCLUDING VARIABLE O & M COSTS		151,770.0	95,456.1	95,313.9	2.347 2.472	1,321,573.89	1,362,153.36	0.00	
LESS VARIABLE O & M COSTS						0.00			
LESS VARIABLE O & M COSTS - HARDEE						0.00			
LESS TRANSMISSION COSTS SCH. D (SEP.)						(16,083.80)			
PLUS 80% OF ECON. ENERGY SALES PROFITS						0.00			
TOTAL EXCL. VARIABLE O & M COSTS AND INCL. 80% OF ECON. ENERGY SALES PROFITS		151,770.0	95,456.1	95,313.9	2.315 2.472	1,303,490.09	1,362,153.36	0.00	
CURRENT MONTH:									
DIFFERENCE	-	(61,644.0)	66.1	(61,700.1)	0.318 0.127	(1,053,169.91)	(1,375,646.64)	(249,380.00)	
DIFFERENCE %	-	(28.9)	0.1	(52.3)	15.9 5.4	(44.7)	(49.7)	(100.0)	
PERIOD TO DATE:									
ACTUAL	-	1,720,783.0	944,856.0	775,927.0	2.151 2.490	16,887,763.63	19,320,796.17	50,070.40	
ESTIMATED	-	2,723,311.0	937,080.0	1,786,231.0	2.211 2.571	39,491,680.00	45,931,000.00	5,068,980.00	
DIFFERENCE	-	(1,002,528.0)	7,776.0	(1,010,304.0)	(0.060) (0.081)	(22,603,916.37)	(26,610,203.83)	(5,038,889.60)	
DIFFERENCE %	-	(36.8)	0.8	(56.6)	(2.7) (3.2)	(57.7)	(57.9)	(99.0)	

* THERE WERE NO SALES TO HARDEE POWER PARTNERS FOR OTHERS FOR THE MONTH OF DECEMBER 1999.

SCHEDULE A7

PURCHASED POWER
 (EXCLUSIVE OF ECONOMY & COGENERATION PURCH.)
 TAMPA ELECTRIC COMPANY
 FOR THE MONTH OF DECEMBER 1999

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
PURCHASED FROM	TYPE & SCHEDULE	TOTAL MWH PURCHASED	MWH FOR OTHER UTILITIES	MWH FOR INTERRUPT- TABLE	MWH FOR FIRM	—CENTS/KWH— (A) FUEL COST	TOTAL \$ FOR FUEL ADJUSTMENT (6) x (7A)	
ESTIMATED:								
VARIOUS	EMER.	1,814.0	0.0	929.0	685.0	9.761	9.761	67,000.00
HARDEE POWER PARTNERS	IPP	11,591.0	0.0	0.0	11,591.0	4.764	4.764	552,200.00
PECO	OTHER	54,095.0	54,095.0	0.0	0.0	0.000	0.000	0.00
FPC	OTHER	24,025.0	24,025.0	0.0	0.0	0.000	0.000	0.00
VARIOUS	OTHER	17,280.0	17,280.0	0.0	0.0	0.000	0.000	0.00
TOTAL	-	108,605.0	95,400.0	929.0	12,276.0	5.044	5.044	619,200.00
ACTUAL:								
HARDEE PWRL PART.-NATIVE	IPP	574.0	0.0	0.0	574.0	37.021	37.021	212,500.90
HARDEE PWRL PART.-OTHERS	IPP	0.0	0.0	0.0	0.0	0.000	0.000	0.00
FLA. POWER CORP.	SCH.-Ja	519.0	0.0	502.3	16.7	5.491	5.491	916.96
FLA. POWER CORP.	SCH.-Jc	6,069.0	0.0	0.0	6,069.0	3.028	3.028	183,742.25
FLA. POWER & LIGHT	SCH.-Ja	625.0	0.0	625.0	0.0	0.000	0.000	0.00
FLA. POWER & LIGHT	SCH.-Jc	5,322.0	0.0	0.0	5,322.0	3.492	3.492	185,847.65
CITY OF LAKELAND	SCH.-Jc	1,731.0	0.0	0.0	1,731.0	3.695	3.695	63,957.50
THE ENERGY AUTH.	SCH.-Jc	1,040.0	0.0	0.0	1,040.0	3.847	3.847	40,012.80
TALLAHASSEE	SCH.-Jc	59.0	0.0	0.0	59.0	3.038	3.038	1,792.28
AQUILLA	SCH.-Ja	89.0	0.0	50.9	18.1	4.174	4.174	756.48
AQUILLA	SCH.-Jc	526.0	0.0	0.0	526.0	4.281	4.281	22,520.00
AUBURNDALE POWER PARTNERS	SCH.-Jc	4,349.0	0.0	0.0	4,349.0	2.334	2.334	101,499.12
OKEELANTA	SCH.-O	5,553.0	0.0	0.0	5,553.0	4.186	4.186	232,471.00
FLA. POWER & LIGHT	SCH.-O	2.0	0.0	0.0	2.0	3.125	3.125	62.50
PECO	OTHER	54,095.0	54,095.0	0.0	0.0	0.000	0.000	0.00
FLA. POWER CORP.	OTHER	24,025.0	24,025.0	0.0	0.0	0.000	0.000	0.00
FLA. POWER & LIGHT	OTHER	17,274.0	17,274.0	0.0	0.0	0.000	0.000	0.00
ADJUSTMENTS TO PRIOR MONTHS:								
HARDEE PWRL PART.-NATIVE 11/99	IPP	(7,515.0)	0.0	0.0	(7,515.0)	4.818	4.818	(362,104.53)
HARDEE PWRL PART.-NATIVE 11/99	IPP	7,515.0	0.0	0.0	7,515.0	9.826	9.826	738,426.86
OKEELANTA 11/99	SCH.-O	(6,017.0)	0.0	0.0	(6,017.0)	4.097	4.097	(246,516.00)
OKEELANTA 11/99	SCH.-O	6,017.0	0.0	0.0	6,017.0	4.057	4.057	244,086.00
FLA. POWER CORP. 10/99	SCH.-Ja	(14,942.0)	0.0	(7,477.7)	(7,464.3)	6.998	6.998	(522,378.16)
FLA. POWER CORP. 10/99	SCH.-Ja	14,942.0	0.0	7,477.7	7,464.3	6.733	6.733	502,587.79
FLA. POWER CORP. 10/99	SCH.-Jc	(18,462.0)	0.0	0.0	(18,462.0)	3.855	3.855	(711,713.79)
FLA. POWER CORP. 10/99	SCH.-Jc	18,462.0	0.0	0.0	18,462.0	3.590	3.590	662,764.79
THE ENERGY AUTH. 10/99	SCH.-Ja	(7,415.0)	0.0	(3,287.5)	(4,127.5)	7.293	7.293	(301,024.94)
THE ENERGY AUTH. 10/99	SCH.-Ja	7,415.0	0.0	3,287.5	4,127.5	7.066	7.066	291,850.86
THE ENERGY AUTH. 10/99	SCH.-Jc	(7,876.0)	0.0	0.0	(7,876.0)	5.492	5.492	(432,565.23)
THE ENERGY AUTH. 10/99	SCH.-Jc	7,876.0	0.0	0.0	7,876.0	5.265	5.265	414,833.34
TALLAHASSEE 10/99	SCH.-Ja	(2,327.0)	0.0	(1,352.3)	(974.7)	5.540	5.540	(53,997.67)
TALLAHASSEE 10/99	SCH.-Ja	2,327.0	0.0	1,352.3	974.7	5.275	5.275	51,412.98
TALLAHASSEE 10/99	SCH.-Jc	(2,214.0)	0.0	0.0	(2,214.0)	4.296	4.296	(95,106.52)
TALLAHASSEE 10/99	SCH.-Jc	2,214.0	0.0	0.0	2,214.0	4.031	4.031	89,239.48
AQUILLA 10/99	SCH.-Ja	(872.0)	0.0	(421.0)	(451.0)	5.143	5.143	(23,194.59)
AQUILLA 10/99	SCH.-Ja	872.0	0.0	421.0	451.0	4.881	4.881	22,012.89
AQUILLA 10/99	SCH.-Jc	(1,217.0)	0.0	0.0	(1,217.0)	4.217	4.217	(51,316.57)
AQUILLA 10/99	SCH.-Jc	1,217.0	0.0	0.0	1,217.0	3.949	3.949	48,064.72
MORGAN STANLEY 10/99	SCH.-Jc	(3,596.0)	0.0	0.0	(3,596.0)	4.174	4.174	(150,106.34)
MORGAN STANLEY 10/99	SCH.-Jc	3,596.0	0.0	0.0	3,596.0	4.028	4.028	144,840.13
TOTAL	-	121,832.0	95,394.0	1,178.2	25,259.8	5.169	5.169	1,305,767.73
CURRENT MONTH:								
DIFFERENCE	-	13,227.0	(8.0)	249.2	12,983.8	5.288	5.288	686,567.73
DIFFERENCE %	-	12.2	(0.0)	26.8	105.8	104.8	104.8	110.9
PERIOD TO DATE:								
ACTUAL	-	2,835,012.00	937,077.00	106,240.50	1,511,694.5	3.769	3.769	56,981,714.57
ESTIMATED	-	1,544,363.0	937,080.0	89,901.0	537,382.0	3.649	3.649	19,810,500.0
DIFFERENCE	-	1,090,649.0	(3.0)	116,339.5	974,312.5	0.120	0.120	37,371,214.57
DIFFERENCE %	-	70.6	0.0	166.4	181.3	3.3	3.3	190.8

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: OCTOBER 2000									
SCHEDULE A8 PAGE 1 OF 3									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	---combined--- (A) FUEL (B) TOTAL COST	TOTAL \$ FOR FUEL ADJUSTMENT (B)(9)(A)	TOTAL \$ FOR TOTAL COST (B)(9)(B)	80% GAIN N ECONOMY ENERGY SALES	
ESTIMATED:									
VARIOUS	ECOM.	182.0	0.0	182.0	2.284	2.840	3,700.00	4,800.00	700.00
VARIOUS	JURISD. SCH. -D	6,864.0	0.0	6,864.0	2.088	2.088	122,800.00	122,800.00	
VARIOUS	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
HARDEE POWER PARTNERS	SEPAR. CONTRACT	18,486.0	0.0	18,486.0	2.313	3.256	480,108.00	633,400.00	
FWPA	SCH. -D	111,800.0	0.0	111,800.0	1.806	1.806	2,014,864.00	2,014,864.00	
VARIOUS	JURISD. SCH. -J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
TOTAL INCLUDING VARIABLE O & M COSTS	-	137,072.0	0.0	137,072.0	1.880	2.025	2,581,164.00	2,775,364.00	700.00
LESS TRANSMISSION COSTS	-	-	-	-	-	-	0.00	-	-
LESS VARIABLE O & M COSTS	-	-	-	-	-	-	(300.00)	-	-
PLUS 80% OF ECOM. ENERGY SALES PROFITS	-	-	-	-	-	-	700.00	-	-
TOTAL EXCL. VARIABLE O & M COSTS AND INCL. 80% OF ECOM. ENERGY SALES PROFITS	-	137,072.0	0.0	137,072.0	1.881	2.026	2,581,564.00	2,775,364.00	700.00
ACTUAL:									
FLA. PWR. CORP.	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
FLA. PWR. & LIGHT	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
CITY OF LAKELAND	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
FT. PIERCE UTIL. AUTH.	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
CITY OF GAINESVILLE	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
CITY OF HOMESTEAD	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
JACKSONVILLE ELEC. AUTH.	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
KISSIMEE ELEC. UTIL.	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
LAKE WORTH UTILITIES	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
CITY OF NEW SMYRNA BCH.	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
ORLANDO UTIL. COMM.	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
SEMINOLE ELECTRIC CO-OP	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
CITY OF ST. CLOUD	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
CITY OF STARKIE	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
TALLAHASSEE	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
CITY OF VERO BEACH	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
FWPA	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
KEY WEST	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
REEDY CREEK	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
SONAT	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
THE ENERGY AUTHORITY, INC.	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
NP ENERGY, INC.	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
OGLETHORPE	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
KOCH	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
TENN. VALLEY AUTH.	ECOM.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
FLA. PWR. & LIGHT	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
FWPA	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
KISSIMEE ELEC. UTIL.	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF NEW SMYRNA BCH.	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
REEDY CREEK	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
WAUCHULA	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
FT. MEADE	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF ST. CLOUD	SEPAR. SCH. -D	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
HARDEE POWER PARTNERS	SEP. CONTRACT	73,186.0	0.0	73,186.0	2.382	3.194	1,742,780.30	2,338,890.10	
SEMINOLE ELECTRIC CO-OP PRECO-1	JURISD. SCH. -D	6,802.0	278.1	6,223.9	3.136	3.136	163,803.67	163,803.67	
SEMINOLE ELECTRIC CO-OP HARDEE	JURISD. SCH. -D	936.0	0.0	936.0	2.272	2.272	21,238.88	21,238.88	

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: OCTOBER 2000									
SCHEDULE A6 PAGE 2 OF 3									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	CONVERSION (A) FUEL COST	TOTAL COST (B)	TOTAL \$ FOR FUEL ADJUSTMENT (5)(A)	TOTAL \$ FOR TOTAL COST (5)(B)	SO% GAIN IN ECONOMY ENERGY SALES
FLA. PWR. CORP.	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
FLA. PWR. & LIGHT	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF HOMESTEAD	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
KEY WEST	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
KISSIMEE ELSC. UTIL.	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF LAKELAND	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
ORLANDO UTIL. COMM.	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
REEDY CREEK	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
SEMINOLE ELECTRIC CO-OP	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF NEW SMYRNA SCH.	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
WALUCHULA	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
CITY OF VERO BEACH	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
LAKE WORTH UTILITIES	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
OGLETHORPE	JURSD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
FMPA	SCH. J	84,916.0	0.0	84,916.0	1.876	1.876	1,894,888.86	1,894,888.86	
HARDEE POWER PART. TO FLA. PWR. CORP.	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO FLA. PWR. & LT.	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO REEDY CREEK	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO GAINESVILLE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO JACKSONVILLE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO KISSIMEE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO NEW SMYRNA SCH.	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO ORLANDO	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO STARKE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO FMPA	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO HOMESTEAD	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO SEMINOLE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO FT. PIERCE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO TALLAHASSEE	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO LAKELAND	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO LK. WORTH	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO KEY WEST	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO VERO BEACH	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO ENERGY AUTHORITY	SOON-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
HARDEE POWER PART. TO FLA. PWR. & LT.	SCH. -AA	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
SEMINOLE ELECTRIC CO-OP	SCH. -G	0.0	0.0	0.0	0.000	0.000	0.00	0.00	
OGLETHORPE	SCH. -G	0.0	0.0	0.0	0.000	0.000	0.00	0.00	

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: OCTOBER 2000										SCHEDULE AII PAGE 3 OF 3
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)	
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	—CONSUMPTION— (A) (B) FUEL TOTAL COST COST		TOTAL \$ FOR FUEL ADJUSTMENT (5)/(6)(A)	TOTAL \$ FOR TOTAL COST (5)/(6)(B)	80% GAIN N ECONOMY ENERGY SALES	
FLORIDA POWER & LIGHT	SCH -MA	6,286.8	0.0	6,286.8	3.370	3.370	177,443.01	177,443.81		
FLORIDA POWER CORP.	SCH -MA	80.0	0.0	80.0	4.887	4.887	2,298.86	2,298.86		
HOMESTEAD	SCH -MA	10.0	0.0	10.0	3.780	3.780	378.03	378.03		
CARGILL ALLIANT	SCH -MA	171.0	0.0	171.0	8.748	8.748	1,278.99	1,278.99		
ORLANDO	SCH -MA	80.0	0.0	80.0	3.147	3.147	1,573.86	1,573.86		
ADJUSTMENTS TO PREVIOUS MONTHS MOYR TYP SCHED.										
HARDEE POWER PART. EST.	900 SEPAR. CONTRACT	(54,080.0)	0.0	(54,080.0)	2.635	3.363	(1,371,181.50)	(1,813,837.70)		
HARDEE POWER PART. ACT.	900 SEPAR. CONTRACT	54,080.0	0.0	54,080.0	2.382	3.194	1,288,423.80	1,727,834.80		
CARGILL ALLIANT EST.	900 SCH -MA	(108.0)	0.0	(108.0)	8.514	8.514	(9,194.78)	(9,194.78)		
CARGILL ALLIANT ACT.	900 SCH -MA	108.0	0.0	108.0	8.310	8.310	8,974.76	8,974.76		
SUB-TOTAL ECONOMY POWER SALES		0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
SUB-TOTAL SCHEDULE D POWER SALES-SEPAR.		0.0	0.0	0.0	0.000	0.000	0.00	0.00		
SUB-TOTAL SCHEDULE D POWER SALES-JURISD.		6,437.0	278.1	6,158.9	3.004	3.004	186,043.66	186,043.66		
SUB-TOTAL SCHEDULE J POWER SALES-JURISD.		0.0	0.0	0.0	0.000	0.000	0.00	0.00		
SUB-TOTAL HARDEE PWR. PART. CONTRACT SALES-SEPAR.		73,186.0	0.0	73,186.0	2.299	3.078	1,680,032.00	2,230,887.00		
SUB-TOTAL OTHER D POWER SALES		84,918.0	0.0	84,918.0	1.878	1.878	1,594,888.86	1,594,888.86		
SUB-TOTAL SCHEDULE G POWER SALES-JURISD.		0.0	0.0	0.0	0.000	0.000	0.00	0.00		
SUB-TOTAL SCHEDULE MA POWER SALES-JURISD.		5,546.0	0.0	5,546.0	3.286	3.286	182,748.31	182,748.31		
TOTAL INCLUDING VARIABLE O & M COSTS		170,063.0	278.1	169,784.9	2.134	2.482	3,822,496.41	4,213,348.81	0.00	
LESS VARIABLE O & M COSTS							0.00			
LESS VARIABLE O & M COSTS - HARDEE							0.00			
LESS TRANSMISSION COSTS SCH. D (BSP.)							0.00			
PLUS 80% OF ECON. ENERGY SALES PROFITS							0.00			
TOTAL EXCL. VARIABLE O & M COSTS AND INCL. 80% OF ECON. ENERGY SALES PROFITS		170,063.0	278.1	169,784.9	2.134	2.482	3,822,496.41	4,213,348.81	0.00	
CURRENT MONTH:										
DIFFERENCE		32,901.0	278.1	32,712.9	0.243	0.487	1,030,831.41	1,437,986.81	(708.00)	
DIFFERENCE %		24.1	0.0	23.9	12.9	22.6	38.8	61.8	(100.0)	
PERIOD TO DATE:										
ACTUAL		1,548,818.0	6,186.5	1,540,848.5	2.182	2.387	33,308,382.68	36,778,844.94	0.00	
ESTIMATED		1,813,864.0	0.0	1,813,864.0	2.298	2.808	38,862,880.00	40,488,040.00	3,367,820.00	
DIFFERENCE		(265,046.0)	6,186.5	(73,204.5)	(0.124)	(0.122)	(3,553,477.42)	(3,705,195.06)	(3,367,820.00)	
DIFFERENCE %		(4.8)	0.0	(4.6)	(5.4)	(4.8)	(8.7)	(8.2)	(100.0)	

* THERE WERE NO SALES TO HARDEE POWER PARTNERS FOR OTHERS IN OCTOBER.

PURCHASED POWER (EXCLUSIVE OF ECONOMY & COGENERATION PURCH.) TAMPA ELECTRIC COMPANY FOR THE MONTH OF OCTOBER 2000								SCHEDULE A7 PAGE 1 OF 2
(1) PURCHASED FROM	(2) TYPE & SCHEDULE	(3) TOTAL MWH PURCHASED	(4) MWH FOR OTHER UTILITIES	(5) MWH FOR INTERRUPTIBLE	(6) MWH FOR FIRM	(7) CENTS/KWH (A) FUEL COST (B) TOTAL COST		(8) TOTAL \$ FOR FUEL ADJUSTMENT (B) x (7A)
ESTIMATED:								
VARIOUS	EMER.	24,166.0	0.0	13,693.0	10,473.0	6.395	6.395	669,700.00
HARDEE POWER PARTNERS	IPP	10,700.0	0.0	0.0	10,700.0	4.400	4.400	470,800.00
VARIOUS	OTHER	13,904.0	0.0	0.0	13,904.0	2.589	2.589	360,000.00
TOTAL		48,770.0	0.0	13,693.0	35,077.0	4.278	4.278	1,500,500.00
ACTUAL:								
HARDEE PWR. PART.-NATIVE	IPP	50,448.0	0.0	0.0	50,448.0	7.131	7.131	3,597,588.06
HARDEE PWR. PART.-OTHERS	IPP	0.0	0.0	0.0	0.0	0.000	0.000	0.00
FLA. POWER CORP.	SCH.-Ja	2,930.0	0.0	1,403.1	1,526.9	8.138	8.138	124,253.54
FLA. POWER CORP.	SCH.-Jc	34,890.0	0.0	0.0	34,890.0	4.679	4.679	1,632,393.75
FLA. POWER & LIGHT	SCH.-Ja	1,951.0	0.0	1,024.1	926.9	6.424	6.424	59,546.99
FLA. POWER & LIGHT	SCH.-Jc	19,879.0	0.0	0.0	19,879.0	6.301	6.301	1,252,582.50
CITY OF LAKE LAND	SCH.-Ja	6,431.0	0.0	2,579.8	3,851.2	16.898	16.898	611,878.59
CITY OF LAKE LAND	SCH.-Jc	21,365.0	0.0	0.0	21,365.0	6.247	6.247	1,335,958.40
ORLANDO	SCH.-Ja	3,153.0	0.0	1,708.3	1,444.7	8.470	8.470	122,373.12
ORLANDO	SCH.-Jc	2,247.0	0.0	0.0	2,247.0	7.233	7.233	162,518.00
ENTERGY MARKETING	SCH.-Ja	670.0	0.0	208.7	461.3	9.496	9.496	43,807.26
ENTERGY MARKETING	SCH.-Jc	880.0	0.0	0.0	880.0	5.172	5.172	44,481.25
THE ENERGY AUTH.	SCH.-Ja	418.0	0.0	387.2	30.8	7.415	7.415	2,283.93
THE ENERGY AUTH.	SCH.-Jc	3,969.0	0.0	0.0	3,969.0	6.058	6.058	240,450.89
REEDY CREEK	SCH.-Jc	175.0	0.0	0.0	175.0	5.017	5.017	8,780.00
OKEELANTA	SCH.-Jc	616.0	0.0	0.0	616.0	7.000	7.000	43,121.48
TALLAHASSEE	SCH.-Ja	727.0	0.0	389.0	338.0	7.429	7.429	25,110.32
TALLAHASSEE	SCH.-Jc	8,587.0	0.0	0.0	8,587.0	5.879	5.879	504,848.68
AQUILA	SCH.-Ja	46.0	0.0	0.0	46.0	6.583	6.583	3,048.00
OGLETHORPE	SCH.-Jc	98.0	0.0	0.0	98.0	3.210	3.210	3,148.00
MORGAN STANLEY	SCH.-Ja	2,914.0	0.0	442.9	2,471.1	8.935	8.935	220,781.34
MORGAN STANLEY	SCH.-Jc	53,660.0	0.0	0.0	53,660.0	5.324	5.324	2,856,091.21
CARGILL ALLIANT	SCH.-Jc	649.0	0.0	0.0	649.0	5.183	5.183	33,640.00
ENRON	SCH.-Jc	637.0	0.0	0.0	637.0	5.104	5.104	32,513.25
KOCH	SCH.-Jc	99.0	0.0	0.0	99.0	6.121	6.121	6,080.00
RELIANT	SCH.-Ja	344.0	0.0	100.0	244.0	5.707	5.707	13,928.00
RELIANT	SCH.-Jc	1,969.0	0.0	0.0	1,969.0	5.659	5.659	111,428.00
SOUTHERN COMPANY	SCH.-Jc	1,131.0	0.0	0.0	1,131.0	2.637	2.637	29,821.00
OKEELANTA	SCH.-D	7,937.0	0.0	0.0	7,937.0	3.380	3.380	268,291.22
AUBURNDALE	SCH.-D	1,918.0	0.0	0.0	1,918.0	2.334	2.334	44,783.32
ADJUSTMENTS TO PRIOR MONTHS:								
SEE PAGE 2 FOR DETAILS		(416.0)	0.0	0.0	(416.0)	(92.574)	(92.574)	385,109.27
TOTAL		230,312.0	0.0	5,243.1	222,068.9	5.224	5.224	13,821,491.37
CURRENT MONTH:								
DIFFERENCE	-	181,542.0	0.0	(5,449.9)	186,991.9	8.599	54.887	12,320,991.37
DIFFERENCE %	-	372.2	0.0	(39.8)	533.1	154.0	1,283.0	821.1
PERIOD TO DATE:								
ACTUAL	-	2,159,127.00	0.00	226,006.96	1,934,118.0	5.307	5.307	102,634,829.35
ESTIMATED	-	1,273,812.0	0.0	150,293.0	1,123,519.0	4.728	4.728	53,125,000.00
DIFFERENCE	-	885,315.0	0.0	74,718.0	810,599.0	0.579	0.579	49,509,829.35
DIFFERENCE %	-	69.5	0.0	49.7	72.1	12.2	12.2	93.2

PURCHASED POWER
 (EXCLUSIVE OF ECONOMY & COGENERATION PURCH.)
 TAMPA ELECTRIC COMPANY
 FOR THE MONTH OF OCTOBER 2000

SCHEDULE A7
 PAGE 2 OF 2

(1)		(2)	(3)	(4)	(5)	(6)	(7)		(8)
PURCHASED FROM		TYPE & SCHEDULE	TOTAL MWH PURCHASED	MWH FOR OTHER UTILITIES	MWH FOR INTERRUPTIBLE	MWH FOR FIRM	—CENTS/KWH— (A) FUEL COST	(B) TOTAL COST	TOTAL \$ FOR FUEL ADJUSTMENT (8) x (7A)
ADJUSTMENTS (SEP. 2000):									
HARDEE PWR. PART.-NATI (EST)		IPP	(122,729.0)	0.0	0.0	(122,729.0)	6.021	6.021	(7,389,582.72)
HARDEE PWR. PART.-NATI (ACT)		IPP	122,729.0	0.0	0.0	122,729.0	6.327	6.327	7,765,254.23
OKEELANTA (EST)		SCH-D	(9,657.0)	0.0	0.0	(9,657.0)	3.059	3.059	(295,392.20)
OKEELANTA (ACT)		SCH-D	9,247.0	0.0	0.0	9,247.0	3.194	3.194	295,392.20
RINGHAVER (EST)		SCH-Jc	(6,289.0)	0.0	0.0	(6,289.0)	1.691	1.691	(106,370.59)
RINGHAVER (ACT)		SCH-Jc	6,289.0	0.0	0.0	6,289.0	2.094	2.094	131,687.90
ENERGY AUTHORITY (EST)		SCH-Ja	(8,923.0)	0.0	(3,420.8)	(5,502.2)	8.098	8.098	(445,550.12)
ENERGY AUTHORITY (ACT)		SCH-Ja	8,923.0	0.0	3,420.8	5,502.2	8.105	8.105	445,928.04
ENERGY AUTHORITY (EST)		SCH-Jc	(11,518.0)	0.0	0.0	(11,518.0)	5.162	5.162	(594,503.47)
ENERGY AUTHORITY (ACT)		SCH-Jc	11,512.0	0.0	0.0	11,512.0	5.017	5.017	577,566.22
ENRON (EST)		SCH-Ja	(272.0)	0.0	0.0	(272.0)	7.317	7.317	(19,903.58)
ENRON (ACT)		SCH-Ja	272.0	0.0	0.0	272.0	7.438	7.438	20,230.00
ENRON (EST)		SCH-Jc	(2,993.0)	0.0	0.0	(2,993.0)	3.959	3.959	(118,486.32)
ENRON (ACT)		SCH-Jc	2,993.0	0.0	0.0	2,993.0	4.017	4.017	120,236.70
AQUILA (EST)		SCH-Ja	(480.0)	0.0	(89.0)	(411.0)	8.451	8.451	(34,731.80)
AQUILA (ACT)		SCH-Ja	480.0	0.0	89.0	411.0	8.425	8.425	34,624.90
AQUILA (EST)		SCH-Jc	(166.0)	0.0	0.0	(166.0)	8.866	8.866	(11,397.86)
AQUILA (ACT)		SCH-Jc	166.0	0.0	0.0	166.0	8.418	8.418	10,664.70
TALLAHASSEE (EST)		SCH-Ja	(2,499.0)	0.0	(557.4)	(1,941.6)	7.244	7.244	(140,641.16)
TALLAHASSEE (ACT)		SCH-Ja	2,489.0	0.0	557.4	1,931.6	7.418	7.418	143,290.80
TALLAHASSEE (EST)		SCH-Jc	(7,713.0)	0.0	0.0	(7,713.0)	4.983	4.983	(384,340.75)
TALLAHASSEE (ACT)		SCH-Jc	7,723.0	0.0	0.0	7,723.0	5.020	5.020	387,674.42
ENTERGY (EST)		SCH-Ja	(333.0)	0.0	(277.4)	(55.6)	15.810	15.810	(8,790.56)
ENTERGY (ACT)		SCH-Ja	333.0	0.0	277.4	55.6	9.395	9.395	5,223.68
ENTERGY (EST)		SCH-Jc	(60.0)	0.0	0.0	(60.0)	26.574	26.574	(15,944.58)
ENTERGY (ACT)		SCH-Jc	60.0	0.0	0.0	60.0	8.804	8.804	5,282.60
MORGAN STANLEY (EST)		SCH-Ja	(244.0)	0.0	(117.2)	(126.8)	11.570	11.570	(14,670.41)
MORGAN STANLEY (ACT)		SCH-Ja	244.0	0.0	117.2	126.8	8.771	8.771	11,122.02
MORGAN STANLEY (EST)		SCH-Jc	(1,104.0)	0.0	0.0	(1,104.0)	3.406	3.406	(37,603.37)
MORGAN STANLEY (ACT)		SCH-Jc	1,104.0	0.0	0.0	1,104.0	3.157	3.157	34,852.80
KOCH (EST)		SCH-Ja	(7,897.0)	0.0	(1,847.9)	(6,249.1)	7.795	7.795	(487,099.32)
KOCH (ACT)		SCH-Ja	7,894.0	0.0	1,847.9	6,246.1	7.841	7.841	489,771.59
KOCH (EST)		SCH-Jc	(8,834.0)	0.0	0.0	(8,834.0)	6.934	6.934	(612,509.15)
KOCH (ACT)		SCH-Jc	8,837.0	0.0	0.0	8,837.0	7.069	7.069	623,844.52
SUB-TOTAL (ADJUSTMENTS)			(416.0)	0.0	0.0	(416.0)	(92.574)	(92.574)	385,109.27

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: DECEMBER 2000										SCHEDULE A4 PAGE 1 OF 3	
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)		
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	---COMBINED--- (A) FUEL COST (B) TOTAL COST		TOTAL \$ FOR FUEL ADJUSTMENT (B)(X)(A)	TOTAL \$ FOR TOTAL COST (B)(X)(B)	80% GAIN ON ECONOMY ENERGY SALES		
ESTIMATED:											
VARIOUS JURISDICTIONAL	ECON.	256.0	0.0	256.0	3.711	4.287	9,500.00	11,000.00	1,200.00		
VARIOUS SEPARATED	SCH.-D	5,756.8	0.0	5,756.8	2.081	2.081	118,800.00	119,800.00			
HARDSEE POWER PARTNERS SEPARATED	CONTRACT	12,880.0	0.0	12,880.0	2.241	3.184	284,400.00	404,000.00			
FWPA	SCH.-D	111,800.8	0.0	111,800.8	1.808	1.808	2,014,864.00	2,014,864.00			
VARIOUS JURISDICTIONAL	SCH.-J	0.8	0.0	0.8	0.000	0.000	0.00	0.00			
TOTAL INCLUDING VARIABLE O & M COSTS	-	130,304.8	0.0	130,304.8	1.864	1.864	2,428,264.00	2,548,364.00	1,200.00		
LESS TRANSMISSION COSTS	-	-	-	-	-	-	0.00				
LESS VARIABLE O & M COSTS	-	-	-	-	-	-	(500.00)				
PLUS 80% OF ECON. ENERGY SALES PROFITS	-	-	-	-	-	-	1,200.00				
TOTAL EXCL. VARIABLE O & M COSTS AND INCL. 80% OF ECON. ENERGY SALES PROFITS	-	130,304.8	0.0	130,304.8	1.864	1.864	2,428,864.00	2,549,364.00	1,200.00		
ACTUAL:											
FLA. PWR. CORP.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
FLA. PWR. & LIGHT	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
CITY OF LAKELAND	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
FT. PIERCE UTIL. AUTH.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
CITY OF GAINESVILLE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
CITY OF HOMESTEAD	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
JACKSONVILLE ELEC. AUTH.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
KISSIMEE ELEC. UTIL.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
LAKE WORTH UTILITIES	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
CITY OF NEW SMYRNA SCH.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
ORLANDO UTIL. COMM.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
SEMINOLE ELECTRIC CO-OP	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
CITY OF ST. CLOUD	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
CITY OF STANGE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
TALLAHASSEE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
CITY OF VERO BEACH	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
FWPA	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
KEY WEST	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
REEDY CREEK	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
SONAT	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
THE ENERGY AUTHORITY, INC.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
NP ENERGY, INC.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
OGLETHORPE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
KOCH	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
TECH. VALLEY AUTH.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00		
FLA. PWR. & LIGHT	SEPAR. SCH.-D	0.8	0.0	0.0	0.000	0.000	0.00	0.00			
FWPA	SEPAR. SCH.-D	0.8	0.0	0.0	0.000	0.000	0.00	0.00			
KISSIMEE ELEC. UTIL.	SEPAR. SCH.-D	0.8	0.0	0.0	0.000	0.000	0.00	0.00			
CITY OF NEW SMYRNA SCH.	SEPAR. SCH.-D	0.8	0.0	0.0	0.000	0.000	0.00	0.00			
REEDY CREEK	SEPAR. SCH.-D	0.8	0.0	0.0	0.000	0.000	0.00	0.00			
WAUCHULA	SEPAR. SCH.-D	0.8	0.0	0.0	0.000	0.000	0.00	0.00			
FT. MEADE	SEPAR. SCH.-D	0.8	0.0	0.0	0.000	0.000	0.00	0.00			
CITY OF ST. CLOUD	SEPAR. SCH.-D	0.8	0.0	0.0	0.000	0.000	0.00	0.00			
HARDSEE POWER PARTNERS	SEP. CONTRACT	2,185.8	0.0	2,185.8	2.246	3.048	48,075.10	66,830.88			
SEMINOLE ELECTRIC CO-OP PRISCO-1	JURISD. SCH.-D	2,122.8	26.3	2,096.7	2.891	2.891	54,518.41	54,518.41			
SEMINOLE ELECTRIC CO-OP HARDSEE	JURISD. SCH.-D	864.8	0.0	864.8	2.082	2.082	17,728.88	17,728.88			

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: DECEMBER 2000										SCHEDULE 46 PAGE 2 OF 3
(1)	(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)	
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	—GENERATION— (A) FUEL COST	(B) TOTAL COST	TOTAL \$ FOR FUEL ADJUSTMENT (5)(A)	TOTAL \$ FOR TOTAL COST (5)(A)(B)	80% GAIN ON ECONOMY ENERGY SALES	
FLA. PWR. CORP.	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
FLA. PWR. & LIGHT	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
CITY OF HOMESTEAD	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
KEY WEST	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
KISSIMMEE ELEC. UTIL.	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
CITY OF LAKELAND	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
ORLANDO UTIL. COMM.	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
REEDY CREEK	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
SEMINOLE ELECTRIC CO-OP	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
CITY OF NEW SMYRNA SCH.	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
WAUCHULA	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
CITY OF VERO BEACH	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
LAKE WORTH UTILITIES	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
OGLETHORPE	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
THE ENERGY AUTHORITY	JURISD. SCH. J	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
FMFA	SCH. -G	101,585.0	0.0	101,585.0	1.934	1.934	1,985,354.83	1,985,354.83		
HARDIE POWER PART. TO FLA. PWR. CORP.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO FLA. PWR.& LT.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO REEDY CREEK	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO GAINESVILLE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO JACKSONVILLE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO KISSIMMEE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO NEW SMYRNA SCH.	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO ORLANDO	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO STARKE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO FMFA	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO HOMESTEAD	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO SEMINOLE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO FT. PIERCE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO TALLAHASSEE	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO LAKELAND	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO LA. WORTH	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO KEY WEST	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO VERO BEACH	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
HARDIE POWER PART. TO ENERGY AUTHORITY	ECON.-C	0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00	
SEMINOLE ELECTRIC CO-OP	SCH. -G	0.0	0.0	0.0	0.000	0.000	0.00	0.00		
OGLETHORPE	SCH. -G	0.0	0.0	0.0	0.000	0.000	0.00	0.00		

POWER SOLD TAMPA ELECTRIC COMPANY FOR THE MONTH OF: DECEMBER 2009									
SCHEDULE 4E PAGE 3 OF 3									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
SOLD TO	TYPE & SCHEDULE	TOTAL MWH SOLD	MWH WHEELED OTHER SYSTEM	MWH FROM OWN GENERATION	—cents/KWH— (A) FUEL COST (B) TOTAL COST	TOTAL \$ FOR FUEL ADJUSTMENT (3)X(6)(A)	TOTAL \$ FOR TOTAL COST (3)X(6)(B)	80% GAIN ON ECONOMY ENERGY SALES	
FLA. PWR. CORP.	JURISO. SCH. -MA	3,440.0	0.0	3,440.0	12.356	12.356	425,130.32	425,130.32	
FLA. PWR. & LIGHT	JURISO. SCH. -MA	4,490.0	0.0	4,490.0	3.036	3.036	136,203.35	136,203.35	
LAKELAND	JURISO. SCH. -MA	1,885.0	0.0	1,885.0	3.980	3.980	67,227.56	67,227.56	
TALLAHASSEE	JURISO. SCH. -MA	30.0	0.0	30.0	2.850	2.850	1,325.15	1,325.15	
REEDY CREEK	JURISO. SCH. -MA	885.0	0.0	885.0	0.088	0.088	546.03	546.03	
ENRON	JURISO. SCH. -MA	10.0	0.0	10.0	277.940	277.940	27,704.00	27,704.00	
THE ENERGY AUTHORITY	JURISO. SCH. -MA	4,940.0	0.0	4,940.0	4.080	4.080	202,065.32	202,065.32	
OGLETHORPE	JURISO. SCH. -MA	208.0	0.0	208.0	12.880	12.880	25,708.60	25,708.60	
CORAL ENERGY	JURISO. SCH. -MA	134.0	0.0	134.0	2.930	2.930	3,853.40	3,853.40	
DUKE ENERGY	JURISO. SCH. -MA	352.0	0.0	352.0	4.853	4.853	16,413.06	16,413.06	
MORGAN STANLEY	JURISO. SCH. -MA	330.0	0.0	330.0	7.886	7.886	24,985.96	24,985.96	
CARGILL ALLIANT	JURISO. SCH. -MA	91.0	0.0	91.0	2.816	2.816	2,380.72	2,380.72	
HARDEE POWER PART. TO ENERGY AUTH.	JURISO. SCH. -MA	73.0	0.0	73.0	7.808	7.808	5,563.75	5,563.75	
ADJUSTMENTS TO PREVIOUS MONTHS	MON/YR TY SCHED.								
HARDEE POWER PARTNERS	11/00 SEPAR CONTRACT	(51,975.0)	0.0	(51,975.0)	2.236	3.085	(1,162,161.00)	(1,567,836.25)	
HARDEE POWER PARTNERS	11/00 SEPAR CONTRACT	51,975.0	0.0	51,975.0	2.246	3.048	1,167,356.90	1,564,717.75	
FMPA	01/00 SEPAR SCH. - D	(110,850.0)	0.0	(110,850.0)	1.942	1.942	(2,152,867.46)	(2,152,867.45)	
FMPA	01/00 SEPAR SCH. - D	110,850.0	0.0	110,850.0	1.942	1.942	2,153,012.45	2,153,012.46	
SUB-TOTAL ECONOMY POWER SALES		0.0	0.0	0.0	0.000	0.000	0.00	0.00	0.00
SUB-TOTAL SCHEDULE D POWER SALES-SEPAR.		0.0	0.0	0.0	0.000	0.000	0.00	0.00	
SUB-TOTAL SCHEDULE D POWER SALES-JURISO.		2,986.0	26.3	2,986.7	2.441	2.441	72,246.30	72,246.30	
SUB-TOTAL SCHEDULE J POWER SALES-JURISO.		0.0	0.0	0.0	0.000	0.000	0.00	0.00	
SUB-TOTAL HARDEE PWR. PART. CONTRACT SALES-SEPAR.		2,185.0	0.0	2,185.0	2.464	2.808	54,272.6	63,502.1	
SUB-TOTAL OTHER D POWER SALES		101,385.0	0.0	101,385.0	1.936	1.936	1,965,679.8	1,965,679.8	
SUB-TOTAL SCHEDULE G POWER SALES-JURISO.		0.0	0.0	0.0	0.000	0.000	0.00	0.00	
SUB-TOTAL SCHEDULE MA POWER SALES-JURISO.		16,410.0	0.0	16,410.0	5.715	5.715	937,636.2	937,636.2	
TOTAL INCLUDING VARIABLE O & M COSTS		123,176.0	26.3	123,146.7	2.480	2.480	3,030,027.05	3,030,256.60	0.00
LESS VARIABLE O & M COSTS							0.00		
LESS VARIABLE O & M COSTS - HARDEE							0.00		
LESS TRANSMISSION COSTS SCH. D (SEP.)							0.00		
PLUS 80% OF ECON. ENERGY SALES PROFITS -							0.00		
TOTAL EXCL. VARIABLE O & M COSTS AND INCL. 80% OF ECON. ENERGY SALES PROFITS		123,176.0	26.3	123,146.7	2.480	2.480	3,030,027.05	3,030,256.60	0.00
CURRENT MONTH:									
DIFFERENCE	-	(7,126.0)	26.3	(7,164.3)	0.566	0.512	621,963.05	498,882.60	(1,200.00)
DIFFERENCE %	-	(5.5)	0.0	(5.5)	32.0	26.2	24.7	19.2	(100.0)
PERIOD TO DATE:									
ACTUAL	-	1,814,302.0	8,275.8	1,806,026.4	2.167	2.363	38,135,566.38	43,046,085.10	0.00
ESTIMATED	-	1,679,180.0	0.0	1,679,180.0	2.228	2.432	41,688,706.00	46,488,546.00	3,370,420.00
DIFFERENCE	-	(56,678.0)	8,275.8	(84,153.6)	(0.061)	(0.049)	(2,534,201.61)	(2,442,462.90)	(3,370,420.00)
DIFFERENCE %	-	(3.0)	0.0	(3.4)	(2.7)	(2.0)	(6.1)	(5.4)	(100.0)

* THE PROFITS REFLECTED ARE ONLY ON TBC 40%, SEC 80% OR \$886.87 HAVE BEEN EXCLUDED.

PURCHASED POWER
(EXCLUSIVE OF ECONOMY & COGENERATION PURCH.)
TAMPA ELECTRIC COMPANY
FOR THE MONTH OF : DECEMBER 2000

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
PURCHASED FROM	TYPE & SCHEDULE	TOTAL MWH PURCHASED	MWH FOR OTHER UTILITIES	MWH FOR INTERRUPTIBLE	MWH FOR FIRM	—CENTS/KWH— (A) FUEL COST (B) TOTAL COST	TOTAL \$ FOR FUEL ADJUSTMENT (6) x (7A)	
ESTIMATED:								
VARIOUS	EMERL	2,855.0	0.0	1,506.0	1,149.0	7.372	7.372	84,700.00
HARDEE POWER PARTNERS	IPP	27,177.0	0.0	0.0	27,177.0	5.530	5.530	1,503,000.00
VARIOUS	OTHER	14,272.0	0.0	0.0	14,272.0	2.597	2.597	370,800.00
TOTAL		44,104.0	0.0	1,506.0	42,596.0	4.597	4.597	1,958,300.00
ACTUAL:								
HARDEE PWR. PART.-NATIVE	IPP	68,648.0	0.0	0.0	68,648.0	7.894	7.894	5,419,039.82
HARDEE PWR. PART.-OTHERS	IPP	73.0	0.0	0.0	73.0	6.795	6.795	4,980.43
FLA. POWER CORP.	SCH.-Ja	1,547.0	0.0	144.2	1,402.8	11.046	11.046	154,953.45
FLA. POWER CORP.	SCH.-Jc	33,344.0	0.0	0.0	33,344.0	4.943	4.943	1,648,269.00
FLA. POWER & LIGHT	SCH.-Ja	2,856.0	0.0	472.4	2,183.6	7.433	7.433	162,305.86
FLA. POWER & LIGHT	SCH.-Jc	38,049.0	0.0	0.0	38,049.0	7.148	7.148	2,719,900.00
LAKELAND	SCH.-Ja	775.0	0.0	177.0	598.0	56.204	56.204	336,100.00
LAKELAND	SCH.-Jc	4,066.0	0.0	0.0	4,066.0	11.622	11.622	472,551.50
ORLANDO	SCH.-Ja	747.0	0.0	100.0	647.0	8.818	8.818	55,760.00
ORLANDO	SCH.-Jc	953.0	0.0	0.0	953.0	9.154	9.154	87,240.00
TALLAHASSEE	SCH.-Ja	613.0	0.0	0.0	613.0	27.438	27.438	168,197.31
TALLAHASSEE	SCH.-Jc	1,683.0	0.0	0.0	1,683.0	12.324	12.324	204,947.81
THE ENERGY AUTHORITY	SCH.-Ja	708.0	0.0	0.0	708.0	11.829	11.829	84,456.86
THE ENERGY AUTHORITY	SCH.-Jc	7,388.0	0.0	0.0	7,388.0	6.757	6.757	499,228.03
AQUILA	SCH.-Ja	83.0	0.0	83.0	0.0	0.000	0.000	235.00
AQUILA	SCH.-Jc	1,468.0	0.0	0.0	1,468.0	7.739	7.739	113,612.80
OKEELANTA	SCH.-Ja	139.0	0.0	0.0	139.0	5.940	5.940	8,256.11
OKEELANTA	SCH.-Jc	3,082.0	0.0	0.0	3,082.0	5.858	5.858	180,539.89
DUKE ENERGY TRADING	SCH.-Ja	98.0	0.0	44.1	53.9	21.265	21.265	11,487.38
DUKE ENERGY TRADING	SCH.-Jc	2,621.0	0.0	0.0	2,621.0	9.288	9.288	243,448.94
REEDY CREEK	SCH.-Jc	1,805.0	0.0	0.0	1,805.0	4.383	4.383	79,295.00
LAKE WORTH	SCH.-Jc	24.0	0.0	0.0	24.0	11.663	11.663	2,799.07
ENRON	SCH.-Jc	384.0	0.0	0.0	384.0	6.465	6.465	24,824.00
SOUTHERN COMPANY	SCH.-Ja	887.0	0.0	489.0	398.0	14.871	14.871	58,391.48
SOUTHERN COMPANY	SCH.-Jc	4,008.0	0.0	0.0	4,008.0	4.849	4.849	194,347.85
KOCH	SCH.-Ja	88.0	0.0	0.0	88.0	30.898	30.898	26,400.00
KOCH	SCH.-Jc	282.0	0.0	0.0	282.0	9.151	9.151	25,806.00
ENTERGY MARKETING	SCH.-Jc	141.0	0.0	0.0	141.0	9.787	9.787	13,800.00
OKEELANTA	SCH.-D	5,917.0	0.0	0.0	5,917.0	3.581	3.581	211,863.00
AUBURNDALE	SCH.-D	3,582.0	0.0	0.0	3,582.0	2.334	2.334	83,612.75
ADJUSTMENTS TO PRIOR MONTHS:								
HARDEE PWR. PART.-NATV	11/00 IPP	(49,806.0)	0.0	0.0	(49,806.0)	9.232	9.232	(4,598,164.46)
HARDEE PWR. PART.-NATV	11/00 IPP	49,806.0	0.0	0.0	49,806.0	6.033	6.033	3,004,750.78
ENERGY AUTHORITY	11/00 SCH.-Ja	(530.0)	0.0	(157.0)	(373.0)	6.986	6.986	(26,087.00)
ENERGY AUTHORITY	11/00 SCH.-Ja	531.0	0.0	157.0	374.0	6.970	6.970	26,087.00
ENERGY AUTHORITY	11/00 SCH.-Jc	(4,728.0)	0.0	0.0	(4,728.0)	6.976	6.976	(329,813.74)
ENERGY AUTHORITY	11/00 SCH.-Jc	4,728.0	0.0	0.0	4,728.0	7.005	7.005	331,195.71
TALLAHASSEE	11/00 SCH.-Jc	(5,030.0)	0.0	0.0	(5,030.0)	6.201	6.201	(311,891.90)
TALLAHASSEE	11/00 SCH.-Jc	5,030.0	0.0	0.0	5,030.0	6.289	6.289	315,326.02
ENRON	11/00 SCH.-Jc	(7,326.0)	0.0	0.0	(7,326.0)	3.668	3.668	(267,857.24)
ENRON	11/00 SCH.-Jc	7,326.0	0.0	0.0	7,326.0	3.862	3.862	283,259.18
KOCH	11/00 SCH.-Ja	(688.0)	0.0	(27.8)	(658.4)	6.468	6.468	(42,584.29)
KOCH	11/00 SCH.-Ja	688.0	0.0	27.8	680.4	6.448	6.448	42,584.29
KOCH	11/00 SCH.-Jc	(5,898.0)	0.0	0.0	(5,898.0)	6.328	6.328	(373,216.08)
KOCH	11/00 SCH.-Jc	5,897.0	0.0	0.0	5,897.0	6.329	6.329	373,216.08
MORGAN STANLEY	11/00 SCH.-Jc	(7,901.0)	0.0	0.0	(7,901.0)	5.893	5.893	(449,771.14)
MORGAN STANLEY	11/00 SCH.-Jc	7,901.0	0.0	0.0	7,901.0	5.895	5.895	449,836.77
CORAL POWER LLC	11/00 SCH.-Jc	(3,038.0)	0.0	0.0	(3,038.0)	3.889	3.889	(118,136.78)
CORAL POWER LLC	11/00 SCH.-Jc	3,038.0	0.0	0.0	3,038.0	3.889	3.889	118,136.78
TOTAL		185,839.0	0.0	1,506.6	184,329.4	6.352	6.352	11,708,494.96
CURRENT MONTH:								
DIFFERENCE	-	141,735.0	0.0	3.6	141,731.4	6.879	6.879	9,750,194.96
DIFFERENCE %	-	321.4	0.0	0.2	332.7	149.6	149.6	497.9
PERIOD TO DATE:								
ACTUAL	-	2,527,082.0	0.0	226,763.9	2,296,318.1	5.487	5.487	126,110,089.58
ESTIMATED	-	1,354,856.0	0.0	156,319.0	1,198,539.0	4.703	4.703	56,276,800.00
DIFFERENCE	-	1,172,124.0	0.0	70,444.9	1,101,679.1	0.784	0.784	69,833,289.58
DIFFERENCE %	-	86.5	0.0	44.5	92.1	16.7	16.7	124.1

Tampa Electric Company

Wholesale Power Sales 1999 - 2000

<u>Line</u>	<u>Year</u> (1)	<u>Total MWh Sold</u> (2)	<u>Total MWh From Generation</u> (3)	<u>Fuel Cost (¢/kWh)</u> (4)
1	1999	1,720,783	775,927 ¹	2.15
2	2000	1,814,302	1,806,026	2.17
3	2001E	896,375	895,489	2.47

Sources: TECO Schedule A-6, Period to Date, December 1999, Page 3
 TECO Schedule A-6, Period to Date, December 2000, Page 3
 J. Denise Jordan Testimony, Actual/Estimated True-up,
 January through December 2001, Sch E6

¹ This number reflects that the FMPA contract was served entirely by purchased power in 1999.

Tampa Electric Company

Power Purchased 1999 - 2000

<u>Line</u>	<u>Year</u> (1)	<u>Total MWh Purchased</u> (2)	<u>Allocated to Retail Customers</u>		<u>Fuel Costs (¢/kWh)</u> (5)
			<u>Total MWh for Firm Loads</u> (3)	<u>Total MWh for Non-Firm Loads</u> (4)	
1	1999	2,635,012	1,511,695	186,241	3.77
2	2000	2,527,082	2,298,318	228,764	5.49
3	2001E	2,546,560	2,440,602	105,958	6.10

Sources: TECO Schedule A-7, Period to Date, December 1999
 TECO Schedule A-7, Period to Date, December 2000
 J. Denise Jordan Testimony, Actual/Estimated True-up,
 January through December 2001, Sch E7

Tampa Electric Company

Purchased Power on Selected Days

<u>Line</u>	<u>Date</u>	<u>Purchased Energy (MWh)</u>	<u>Purchased Power Cost (\$)</u>	<u>Purchased Power Cost (\$/MWh)</u>
	(1)	(2)	(3)	(4)
1	January 6, 1999	589.0	\$59,363	\$100.79
2	April 3, 1999	965.8	\$63,089	\$65.32
3	April 5, 1999	407.6	\$33,620	\$82.48
4	April 6, 1999	1,482.2	\$208,498	\$140.67
5	April 15, 1999	190.4	\$11,191	\$58.78
6	April 23, 1999	1,955.2	\$281,801	\$144.13
7	April 24, 1999	2,553.8	\$693,918	\$271.72
8	April 26, 1999	2,262.5	\$123,443	\$54.56
9	May 6, 1999	1,324.0	\$58,699	\$44.33
11	July 29, 1999	3,044.9	\$1,650,493	\$542.05
12	July 30, 1999	1,330.8	\$129,273	\$97.14
13	July 31, 1999	2,029.1	\$246,122	\$121.30
14	August 2, 1999	1,491.0	\$315,975	\$211.92
10	September 4, 1999	869.7	\$60,014	\$69.01
15	September 28, 1999	1,140.1	\$58,999	\$51.75
16	October 20, 1999	1,498.6	\$161,189	\$107.56
17	January 24, 2000	876.6	\$29,964	\$34.18
18	July 6, 2000	418.0	\$20,524	\$49.10
19	July 19, 2000	572.1	\$59,521	\$104.04
20	July 20, 2000	2,007.5	\$639,593	\$318.60
21	October 5, 2000	1,636.7	\$452,820	\$276.67

Sources: TECO Response to FIPUG's 3rd Set of Interrogatories, Interrogatory Nos. 43 and 51

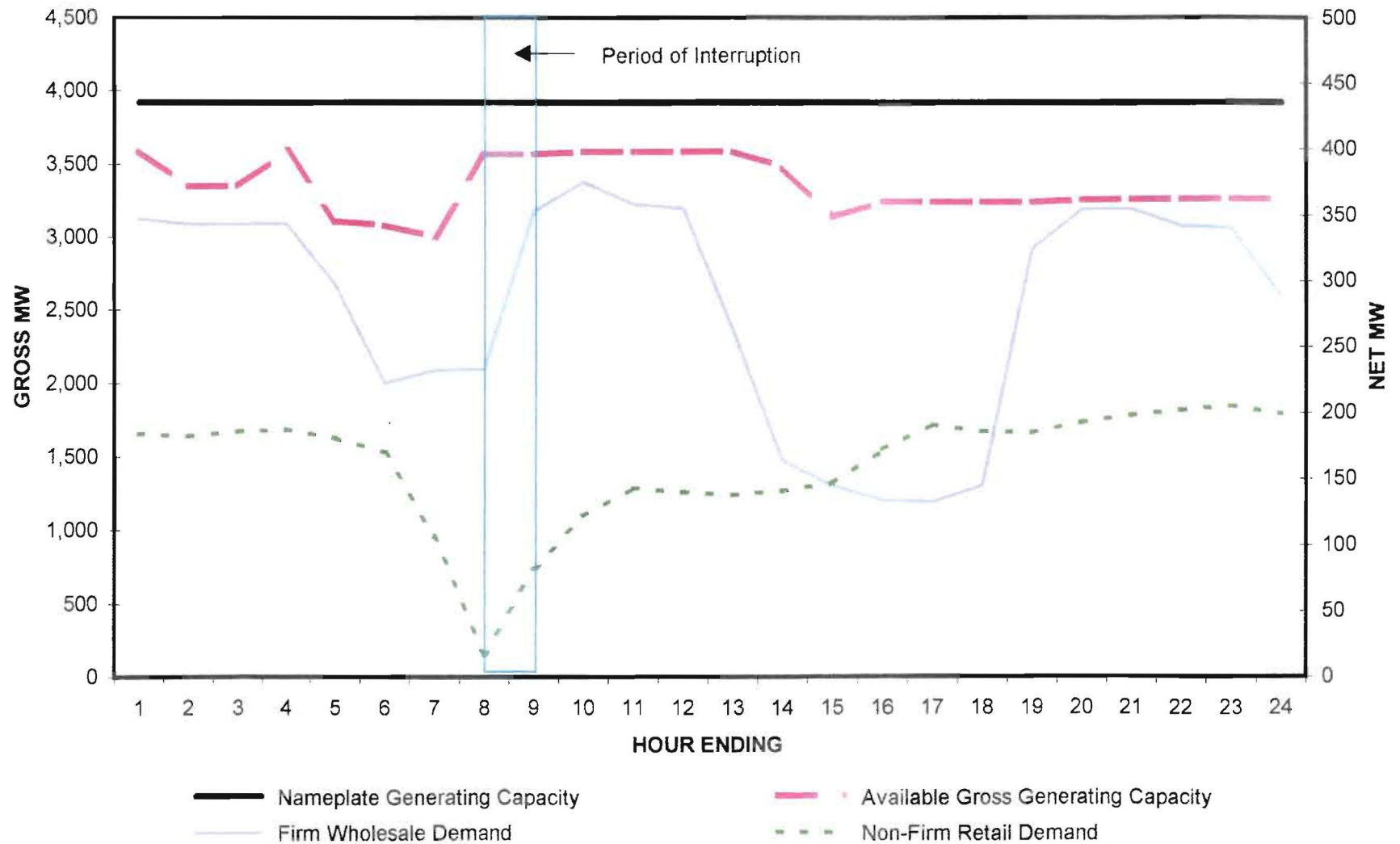
Tampa Electric Company

System Outages and Wholesale Sales on January 6, 1999

<u>Line</u>	<u>Hour Ending</u> (1)	<u>Outage Gross (MW)</u> (2)	<u>Derated Gross (MW)</u> (3)	<u>Total Unavailable Capacity (MW)</u> (4)	<u>Percent of Total Internal Generation Capacity</u> (5)	<u>Maximum Firm Wholesale Sales Contract Demand (MW)</u> (6)	<u>Actual Firm Wholesale Sales Demand (MW)</u> (7)
1	6:00 AM	654	187	841	21.46%	442	222
2	7:00 AM	732	187	919	23.45%	442	232
3	8:00 AM	171	187	358	9.13%	442	233
4	9:00 AM	171	187	358	9.13%	442	253
5	10:00 AM	171	167	338	8.62%	442	375

Sources: TECO Response to FIPUG's 3rd Set of Interrogatories, Interrogatory Nos. 36 and 65
 TECO Response to FIPUG's 1st Set of Interrogatories, Interrogatory No. 11
 TECO 10-Year Site Plan, January 2000 to December 2009

WHOLESALE DEMAND VS. RETAIL DEMAND **January 6, 1999**



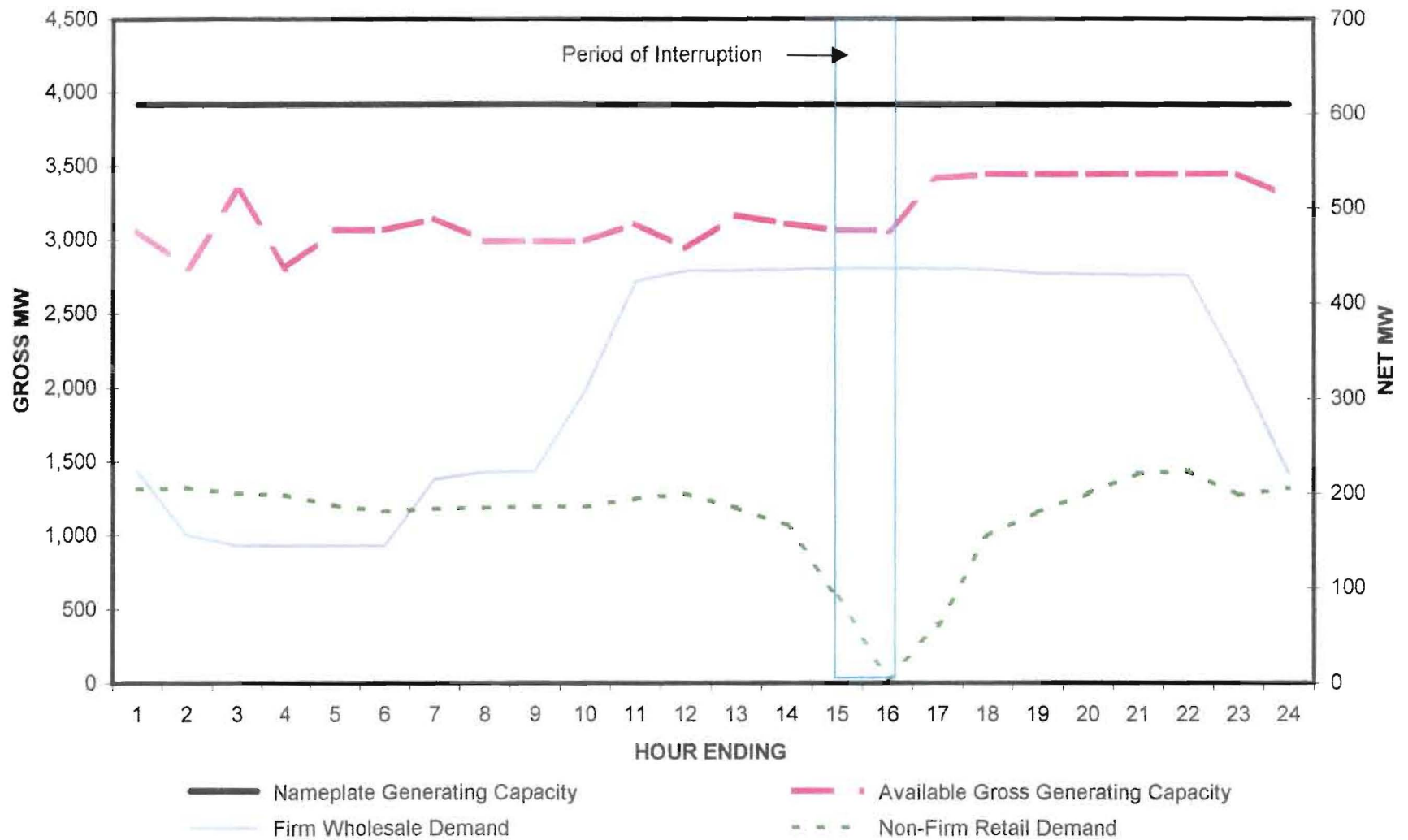
Tampa Electric Company

System Outages and Wholesale Sales on August 2, 1999

<u>Line</u>	<u>Hour Ending</u> (1)	<u>Outage Gross (MW)</u> (2)	<u>Derated Gross (MW)</u> (3)	<u>Total Unavailable Capacity (MW)</u> (4)	<u>Percent of Total Internal Generation Capacity</u> (5)	<u>Maximum Firm Wholesale Sales Contract Demand (MW)</u> (6)	<u>Actual Firm Wholesale Sales Demand (MW)</u> (7)
1	2:00 PM	760	47	807	20.59%	442	436
2	3:00 PM	760	90	850	21.69%	442	437
3	4:00 PM	760	90	850	21.69%	442	437
4	5:00 PM	315	185	500	12.76%	442	437
5	6:00 PM	278	190	468	11.94%	442	436

Sources: TECO Response to FIPUG's 3rd Set of Interrogatories, Interrogatory Nos. 36 and 65
 TECO Response to FIPUG's 1st Set of Interrogatories, Interrogatory No. 11
 TECO 10-Year Site Plan, January 2000 to December 2009

WHOLESALE DEMAND VS. RETAIL DEMAND **August 2, 1999**



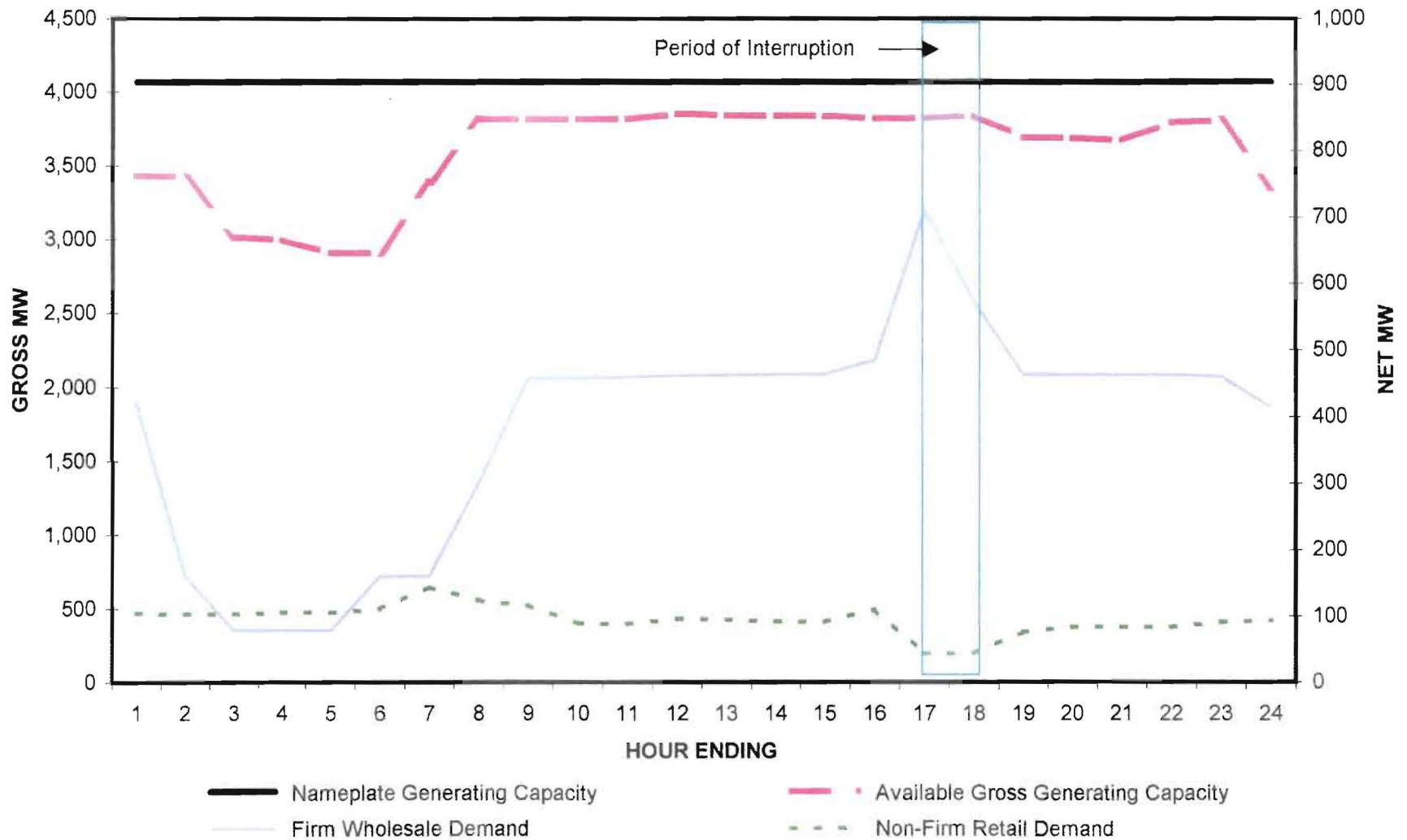
Tampa Electric Company

System Outages and Wholesale Sales on July 6, 2000

<u>Line</u>	<u>Hour Ending (1)</u>	<u>Outage Gross (MW) (2)</u>	<u>Derated Gross (MW) (3)</u>	<u>Total Unavailable Capacity (MW) (4)</u>	<u>Percent of Total Internal Generation Capacity (5)</u>	<u>Maximum Firm Wholesale Sales Contract Demand (MW) (6)</u>	<u>Actual Firm Wholesale Sales Demand (MW) (7)</u>
1	4:00 PM	71	178	249	6.12%	472	485
2	5:00 PM	71	178	249	6.12%	472	711
3	6:00 PM	53	178	231	5.68%	472	573
4	7:00 PM	53	328	381	9.36%	472	464

Sources: TECO Response to FIPUG's 3rd Set of Interrogatories, Interrogatory Nos. 36 and 65
 TECO Response to FIPUG's 1st Set of Interrogatories, Interrogatory No. 11
 TECO 10-Year Site Plan, January 2000 to December 2009

WHOLESALE DEMAND VS. RETAIL DEMAND **July 6, 2000**



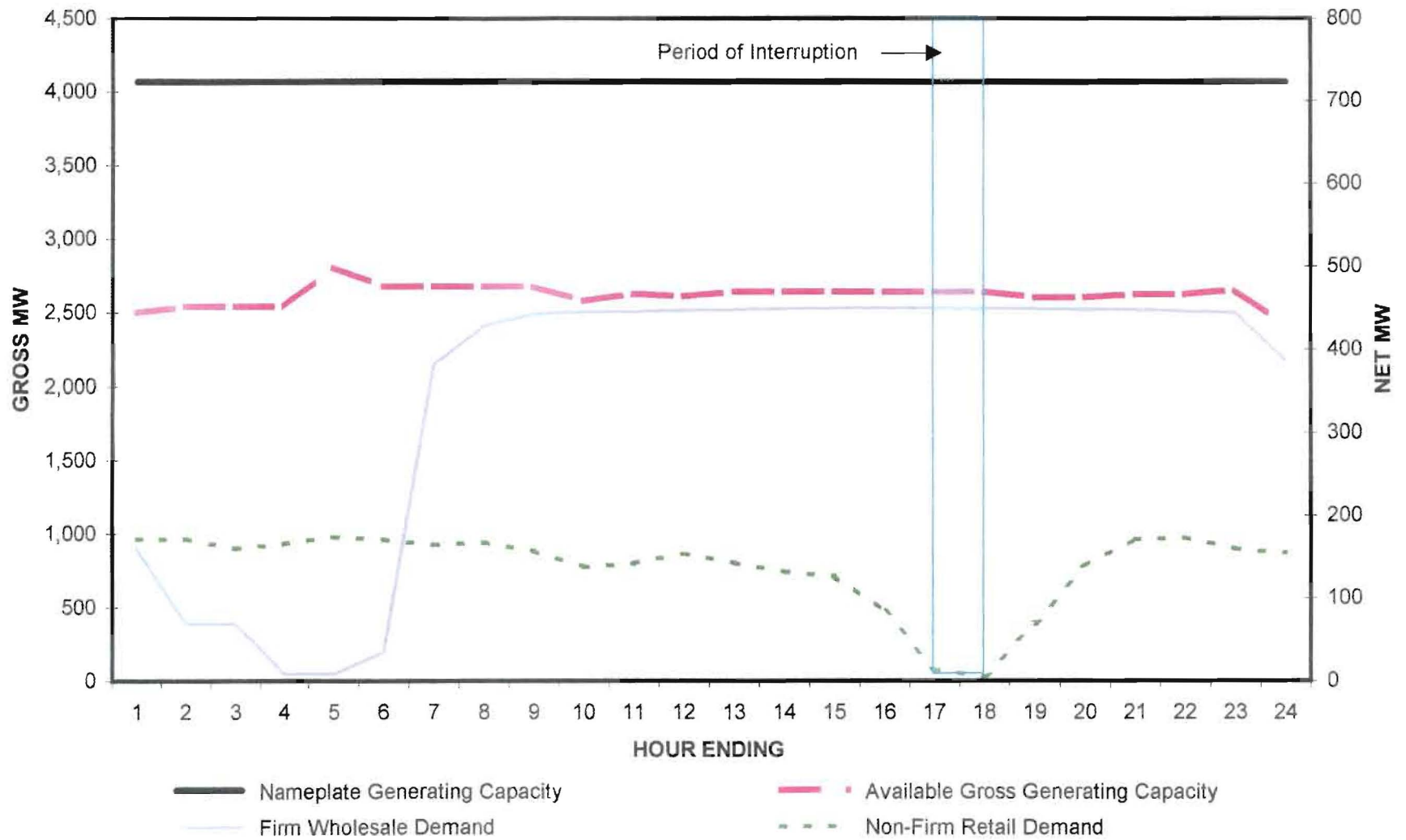
Tampa Electric Company

System Outages and Wholesale Sales on October 5, 2000

<u>Line</u>	<u>Hour Ending</u> (1)	<u>Outage Gross (MW)</u> (2)	<u>Derated Gross (MW)</u> (3)	<u>Total Unavailable Capacity (MW)</u> (4)	<u>Percent of Total Internal Generation Capacity</u> (5)	<u>Maximum Firm Wholesale Sales Contract Demand (MW)</u> (6)	<u>Actual Firm Wholesale Sales Demand (MW)</u> (7)
1	3:00 PM	1,219	209	1,428	35.09%	472	450
2	4:00 PM	1,219	209	1,428	35.09%	472	450
3	5:00 PM	1,219	209	1,428	35.09%	472	450
4	6:00 PM	1,219	209	1,428	35.09%	472	449
5	7:00 PM	1,219	209	1,428	35.09%	472	449

Sources: TECO Response to FIPUG's 3rd Set of Interrogatories, Interrogatory Nos. 36 and 65
 TECO Response to FIPUG's 1st Set of Interrogatories, Interrogatory No. 11
 TECO 10-Year Site Plan, January 2000 to December 2009

WHOLESALE DEMAND VS. RETAIL DEMAND **October 5, 2000**



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36. In the period 1998-2001, for the day before each curtailment of interruptible customers, the day of the curtailment of interruptible customers, and the day after the curtailment of interruptible customers, provide all unit deratings or unit limitations experienced by TECo generating units. For each derating or limitation include:
- a. The amount of the derating or limitation in MW
 - b. The start and end times of the derating or limitation.
 - c. The reason for the derating or limitation.
 - d. The remedy for the derating or limitation.
 - e. Has the problem causing the derating or limitation previously occurred on the unit or other units?
 - f. What action did TECo take to prevent the re-occurrence of the problem?
- A. See attached. Gross MW derated or limited are shown.

Deratings and Limitations the Day Before, Day of and Day After Interruption Periods
January 1998 - July 2001

Start Date	Start Time	End Date	End Time	Reason	Gross Derated MW	Remedy	Occurred Previously On Another Unit	Action Taken to Prevent Recurrence
From:	04/02/98	to:	04/04/98					
	BIG BEND 1							
04/03/98	07:48	04/04/98	08:44	LOW BTU FUEL	30	adjusted boiler combustion systems	yes	review fuel blend
	BIG BEND 3							
04/01/98	15:00	04/02/98	14:59	WINDBOX	8	monitor boiler operation	yes	repaired windbox next planned outage
04/02/98	15:00	04/02/98	23:39	SOOTBLOWER WALLBOX BURNTHROUGH	95	patched damaged area	yes	rebuilt wallbox during planned outage
04/02/98	23:40	04/03/98	00:49	S.SIDE COND CLEANED W/BRUSHES	305	cleaned fouled condenser	yes	routine work effort
04/03/98	10:30	04/04/98	01:39	LOW STEAM TEMPS	55	review boiler and sootblower operation, and fuel	yes	this is a boiler design phenomenon
04/04/98	01:40	04/04/98	03:30	"B" MILL-EAST INLET COAL LEAK	195	repaired leak	yes	preventative maintenance
04/04/98	03:31	04/04/98	07:00	LOW STEAM TEMPS	55	review boiler and sootblower operation, and fuel	yes	this is a boiler design phenomenon
04/04/98	07:01	04/05/98	23:49	WINDBOX	18	monitor boiler operation	yes	repaired windbox next planned outage
	BIG BEND 4							
04/01/98	23:05	04/02/98	04:40	A/C COND CLEANED W/BRUSHES	270	cleaned fouled condenser	yes	routine work effort
04/02/98	07:00	04/03/98	00:01	COND TUBES FOULING	3	schedule condenser cleaning at low load	yes	normal maintenance
04/03/98	23:45	04/04/98	04:20	A/C COND CLEANED W/BRUSHES	240	cleaned fouled condenser	yes	routine work effort
	GANNON 1							
04/01/98	00:01	04/04/98	22:54	LOW BTU FUEL	10	adjusted boiler combustion systems	yes	review fuel blend
04/04/98	22:55	04/05/98	01:04	CONDENSER PICK	80	picked condenser half	yes	normal maintenance
	GANNON 2							
04/01/98	00:01	04/05/98	01:09	LOW BTU FUEL	15	adjusted boiler combustion systems	yes	review fuel blend
	GANNON 3							
04/02/98	06:40	04/02/98	22:33	LOW BTU FUEL	5	adjusted boiler combustion systems	yes	review fuel blend
	GANNON 4							
04/02/98	13:00	04/02/98	15:14	4A BOILER FEED PUMP PROBLEMS	65	investigated pump & motor trips	yes	replaced pressure switch
	GANNON 5							
04/01/98	00:01	04/10/98	22:34	LOW BTU FUEL	5	adjusted boiler combustion systems	yes	review fuel blend
	GANNON 6							

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Start Date	Start Time	End Date	End Time	Reason	Gross Derated MW	Remedy	Occurred Previously On Another Unit	Action Taken to Prevent Recurrence
04/02/98	13:50	04/03/98	06:39	PRECIPITATOR FOULING	45	perform temporary repair to casing leaks	yes	changed stones on weekend outage & perform permanent repairs during major outage
04/03/98	12:30	04/03/98	12:44	PRECIPITATOR FOULING	10	perform temporary repair to casing leaks	yes	changed stones on weekend outage & perform permanent repairs during major outage
04/03/98	12:45	04/03/98	12:59	PRECIPITATOR FOULING	15	perform temporary repair to casing leaks	yes	changed stones on weekend outage & perform permanent repairs during major outage
04/03/98	13:00	04/03/98	13:29	PRECIPITATOR FOULING	25	perform temporary repair to casing leaks	yes	changed stones on weekend outage & perform permanent repairs during major outage
04/03/98	13:30	04/03/98	16:59	PRECIPITATOR FOULING	45	perform temporary repair to casing leaks	yes	changed stones on weekend outage & perform permanent repairs during major outage
04/03/98	17:00	04/04/98	00:21	PRECIPITATOR FOULING	25	perform temporary repair to casing leaks	yes	changed stones on weekend outage & perform permanent repairs during major outage
04/04/98	00:22	04/04/98	05:04	68 PULVERIZER AIR SEAL REPLACEMENT	165	replaced seal	yes	normal maintenance
04/04/98	05:05	04/05/98	09:19	PRECIPITATOR FOULING	25	perform temporary repair to casing leaks	yes	changed stones on weekend outage & perform permanent repairs during major outage
From: 06/18/98 to: 06/24/98								
BIG BEND 1								
06/17/98	23:13	06/18/98	00:09	HIGH OUTLET CANAL TEMP	35	restrict load to achieve allowable water temperature	yes	naturally occurring event
06/18/98	00:10	06/18/98	00:50	S.SIDE COND PICK	(180)	picked condenser half	yes	normal maintenance
06/18/98	01:05	06/18/98	01:50	N.SIDE COND PICK	255	picked condenser half	yes	normal maintenance
06/18/98	15:00	06/18/98	20:45	COND TUBES FOULING	(425)	schedule condenser cleaning	yes	normal maintenance
06/18/98	23:25	06/19/98	05:25	N.SIDE COND CLEANED W/BRUSHES	(180)	cleaned fouled condenser	yes	routine work effort
06/20/98	23:10	06/20/98	23:55	S.SIDE COND PICK	(200)	picked condenser half	yes	normal maintenance
06/21/98	00:15	06/21/98	02:25	N.SIDE COND PICK	(200)	picked condenser half	yes	normal maintenance
06/23/98	19:45	06/24/98	00:25	"B" MILL-ROCK IN FEEDER, FIRE	155	removed rock	yes	reviewed coal field operations
06/24/98	01:10	06/24/98	02:35	S.SIDE COND PICK	225	picked condenser half	yes	normal maintenance
06/24/98	02:55	06/24/98	03:40	N.SIDE COND PICK	210	picked condenser half	yes	normal maintenance
06/24/98	15:50	06/24/98	18:59	MAX AIR FLOW	5	no records available	yes	
06/24/98	19:00	06/24/98	21:38	MTLO HIGH TEMP	15	investigate cooling water system	yes	inspect system
06/24/98	21:39	06/26/98	12:00	MAX AIR FLOW	5	no records available	yes	
BIG BEND 2								
06/17/98	00:02	06/18/98	02:54	MILLS, FUEL CONTROLS	20	reviewed control system	yes	routine work effort
06/18/98	02:55	06/18/98	05:25	S.SIDE COND PICK	250	picked condenser half	yes	normal maintenance
06/18/98	05:28	06/19/98	13:40	FUEL	5	adjusted boiler combustion systems	yes	review fuel blend
06/19/98	13:41	06/19/98	23:24	OUTLET CANAL HIGH TEMP	5	restrict load to achieve allowable water temperature	yes	naturally occurring event
06/19/98	23:25	06/20/98	00:05	S.SIDE COND PICK	230	picked condenser half	yes	normal maintenance

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Start Date	Start Time	End Date	End Time	Reason	Gross Derated MW	Remedy	Occurred Previously On Another Unit	Action Taken to Prevent Recurrence
06/20/98	00:15	06/20/98	01:00	N.SIDE COND PICK	230	picked condenser half	yes	normal maintenance
06/20/98	19:00	06/21/98	03:30	OUTLET CANAL HIGH TEMP	20	restrict load to achieve allowable water temperature	yes	naturally occurring event
06/23/98	17:24	06/24/98	22:54	1ST PT HTR TUBE LEAK	13	repaired leak	yes	replaced heater next planned outage
06/24/98	22:55	06/25/98	00:27	S.SIDE COND PICK	230	picked condenser half	yes	normal maintenance
BIG BEND 3								
06/18/98	21:05	06/19/98	00:34	OUTLET CANAL HIGH TEMP	35	restrict load to achieve allowable water temperature	yes	naturally occurring event
06/19/98	00:35	06/19/98	05:35	S.SIDE COND CLEANED W/BRUSHES	280	cleaned fouled condenser	yes	routine work effort
06/19/98	05:36	06/19/98	07:50	OUTLET CANAL HIGH TEMP	35	restrict load to achieve allowable water temperature	yes	naturally occurring event
06/19/98	07:51	06/19/98	12:14	LOW STEAM TEMPS	5	review boiler and sootblower operation, and fuel	yes	this is a boiler design phenomenon
06/19/98	12:15	06/19/98	16:44	OUTLET CANAL HIGH TEMP	35	restrict load to achieve allowable water temperature	yes	naturally occurring event
06/19/98	16:45	06/19/98	20:19	LOW STEAM TEMPS	5	review boiler and sootblower operation, and fuel	yes	this is a boiler design phenomenon
06/19/98	20:20	06/20/98	01:30	"B" PAF-COOLING WATER LEAK	165	repaired leak	yes	routine maintenance
06/20/98	01:31	06/20/98	17:19	LOW STEAM TEMPS	5	review boiler and sootblower operation, and fuel	yes	this is a boiler design phenomenon
06/20/98	17:20	06/21/98	01:59	OUTLET CANAL HIGH TEMP	37	restrict load to achieve allowable water temperature	yes	naturally occurring event
06/21/98	02:00	06/21/98	02:35	N.SIDE COND PICK	245	picked condenser half	yes	normal maintenance
06/21/98	02:55	06/21/98	04:10	S.SIDE COND PICK	245	picked condenser half	yes	normal maintenance
06/21/98	04:11	06/23/98	00:44	LOW STEAM TEMPS	8	review boiler and sootblower operation, and fuel	yes	this is a boiler design phenomenon
06/23/98	00:45	06/23/98	04:55	N.SIDE COND CLEANED W/BRUSHES	275	cleaned fouled condenser	yes	routine work effort
06/23/98	04:56	06/23/98	16:34	LOW STEAM TEMPS	10	review boiler and sootblower operation, and fuel	yes	this is a boiler design phenomenon
06/23/98	16:35	06/23/98	19:29	A2 FEEDER-ROCK	35	cleared feeder & returned to service	yes	routine work effort
06/24/98	01:57	06/24/98	06:38	"C" PAF-OIL CHANGE	265	changed oil	yes	monitor oil condition
06/24/98	06:38	06/24/98	10:24	LOW STEAM TEMPS	10	review boiler and sootblower operation, and fuel	yes	this is a boiler design phenomenon
06/24/98	10:25	06/25/98	07:29	"B" COOLING TOWER FAN-GEAR BOX	112	replaced gear box	yes	preventative maintenance
BIG BEND 4								
06/17/98	23:10	06/18/98	05:45	B/D COND CLEANED W/BRUSHES	260	cleaned fouled condenser	yes	routine work effort
06/18/98	12:20	06/18/98	13:20	"D" MILL-COAL FEEDER BELT, "E" MILL-NOISY, TAGGED FOR INSP	(380)	cleared "D" feeder & returned to service	yes	routine work effort

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Start Date	Start Time	End Date	End Time	Reason	Gross Derated MW	Remedy	Occurred Previously On Another Unit	Action Taken to Prevent Recurrence
06/18/98	15:00	06/19/98	07:53	OUTLET CANAL HIGH TEMP	(437)	restrict load to achieve allowable water temperature	yes	naturally occurring event
06/19/98	12:18	06/19/98	16:45	OUTLET CANAL HIGH TEMP	(435)	restrict load to achieve allowable water temperature	yes	naturally occurring event
06/19/98	20:00	06/20/98	02:24	COND TUBES FOULING	45	schedule condenser cleaning at low load	yes	normal maintenance
06/20/98	02:25	06/20/98	03:15	A/C COND PICK	270	picked condenser half	yes	normal maintenance
06/20/98	03:35	06/20/98	04:25	B/D COND PICK	270	picked condenser half	yes	normal maintenance
06/20/98	15:30	06/21/98	05:45	OUTLET CANAL HIGH TEMP	57	restrict load to achieve allowable water temperature	yes	naturally occurring event
06/21/98	08:45	06/22/98	00:01	COND TUBES FOULING	65	schedule condenser cleaning at low load	yes	normal maintenance
06/22/98	00:02	06/22/98	05:15	A/C COND CLEANED W/BRUSHES	260	cleaned fouled condenser	yes	routine work effort
06/22/98	10:40	06/22/98	23:54	COND TUBES FOULING	37	schedule condenser cleaning at low load	yes	normal maintenance
06/22/98	23:55	06/23/98	07:00	B/D COND CLEANED W/BRUSHES	270	cleaned fouled condenser	yes	routine work effort
GANNON 1								
06/18/98	03:10	06/18/98	03:09	LOW BTU FUEL	15	adjusted boiler combustion systems	yes	review fuel blend
06/18/98	03:10	06/18/98	04:19	CONDENSER PICK	80	picked condenser half	yes	normal maintenance
06/18/98	04:20	06/22/98	02:24	LOW BTU FUEL	15	adjusted boiler combustion systems	yes	review fuel blend
06/22/98	02:25	06/22/98	03:59	CONDENSER PICK	80	picked condenser half	yes	normal maintenance
06/22/98	04:00	06/24/98	02:59	LOW BTU FUEL	15	adjusted boiler combustion systems	yes	review fuel blend
06/24/98	03:00	06/24/98	04:29	CONDENSER PICK	80	picked condenser half	yes	normal maintenance
06/24/98	04:30	06/25/98	20:19	LOW BTU FUEL	15	adjusted boiler combustion systems	yes	review fuel blend
GANNON 2								
06/18/98	09:16	06/18/98	23:24	HEADER RESTRICTION DUE TO BOILER TUBE CONDITION	25	minimized risk of tube failure	yes	maintain reduced pressure
06/18/98	23:25	06/19/98	04:49	CONDENSER BLOW	75	cleaned fouled condenser	yes	routine work effort
06/19/98	04:50	06/20/98	17:09	HEADER RESTRICTION DUE TO BOILER TUBE CONDITION	25	minimized risk of tube failure	yes	maintain reduced pressure
06/20/98	17:10	06/21/98	00:29	CONDENSER DIRTY	35	schedule condenser cleaning	yes	normal maintenance
06/21/98	00:30	06/21/98	02:59	CONDENSER PICK	75	picked condenser half	yes	normal maintenance
06/21/98	03:00	06/21/98	18:59	HEADER RESTRICTION DUE TO BOILER TUBE CONDITION	25	minimized risk of tube failure	yes	maintain reduced pressure
06/21/98	19:00	06/21/98	21:24	2A CYCLONE BURN THRU	55	ran at reduced load until after peak	yes	repaired damaged areas at time of low demand
06/22/98	03:45	06/22/98	10:45	HEADER RESTRICTION DUE TO BOILER TUBE CONDITION	25	minimized risk of tube failure	yes	maintain reduced pressure
06/22/98	12:33	06/22/98	14:39	HEADER RESTRICTION DUE TO BOILER TUBE CONDITION	25	minimized risk of tube failure	yes	maintain reduced pressure
06/24/98	05:57	06/26/98	01:09	HEADER RESTRICTION DUE TO BOILER TUBE CONDITION	25	minimized risk of tube failure	yes	maintain reduced pressure

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06/24/98	05:57	06/26/98	01:09	HEADER RESTRICTION DUE TO BOILER TUBE CONDITION	25	minimized risk of tube failure	yes	maintain reduced pressure
GANNON 3								
06/18/98	14:30	06/19/98	21:54	HIGH FURNACE PRESSURE	15	ensure sootblower operation	yes	review APH performance
06/20/98	06:11	06/24/98	00:14	HIGH FURNACE PRESSURE	15	ensure sootblower operation	yes	review APH performance
06/24/98	00:15	06/24/98	01:44	CONDENSER PICK	105	picked condenser half	yes	normal maintenance
06/24/98	01:45	06/25/98	06:29	HIGH FURNACE PRESSURE	15	ensure sootblower operation	yes	review APH performance
GANNON 4								
06/17/98	04:00	06/17/98	05:24	CONDENSER PICK	130	picked condenser half	yes	normal maintenance
06/17/98	05:25	06/19/98	01:09	LOW BTU FUEL	10	adjusted boiler combustion systems	yes	review fuel blend
06/19/98	01:10	06/19/98	02:24	CONDENSER PICK	120	picked condenser half	yes	normal maintenance
06/19/98	02:25	06/19/98	04:21	4C COAL FEEDER MAINT.	10	repaired feeder during low load period	yes	normal operational practice
06/19/98	04:22	06/19/98	23:14	LOW BTU FUEL	10	adjusted boiler combustion systems	yes	review fuel blend
06/19/98	23:15	06/20/98	00:29	CONDENSER PICK	120	picked condenser half	yes	normal maintenance
06/20/98	00:30	06/22/98	00:14	LOW BTU FUEL	10	adjusted boiler combustion systems	yes	review fuel blend
06/22/98	00:15	06/22/98	05:49	CONDENSER PICK	140	picked condenser half	yes	normal maintenance
06/22/98	05:50	06/23/98	00:29	LOW BTU FUEL	10	adjusted boiler combustion systems	yes	review fuel blend
06/23/98	00:30	06/23/98	05:29	CONDENSER BLOW	120	cleaned fouled condenser	yes	routine work effort
06/23/98	05:30	06/25/98	23:39	LOW BTU FUEL	10	adjusted boiler combustion systems	yes	review fuel blend
GANNON 5								
06/17/98	23:30	06/18/98	01:20	CONDENSER PICK	150	picked condenser half	yes	normal maintenance
06/18/98	01:20	06/18/98	06:29	HIGH FURNACE PRESSURE	20	ensure sootblower operation	yes	review APH performance & cleaned APH later in year
06/18/98	06:30	06/20/98	02:44	HIGH FURNACE PRESSURE	5	ensure sootblower operation	yes	review APH performance & cleaned APH later in year
06/20/98	02:45	06/20/98	03:54	CONDENSER PICK	160	picked condenser half	yes	normal maintenance
06/20/98	03:55	06/23/98	02:44	HIGH FURNACE PRESSURE	10	ensure sootblower operation	yes	review APH performance & cleaned APH later in year
06/23/98	02:45	06/23/98	04:29	CONDENSER PICK	150	picked condenser half	yes	normal maintenance
06/23/98	04:30	06/23/98	13:07	HIGH FURNACE PRESSURE	10	ensure sootblower operation	yes	review APH performance & cleaned APH later in year
06/23/98	13:08	06/24/98	13:59	HIGH FURNACE PRESSURE	15	ensure sootblower operation	yes	review APH performance & cleaned APH later in year
06/24/98	14:00	06/25/98	11:49	HIGH FURNACE PRESSURE	5	ensure sootblower operation	yes	review APH performance & cleaned APH later in year
GANNON 6								
06/17/98	18:40	06/18/98	08:29	LOW BTU FUEL	150	adjusted boiler combustion systems	yes	review fuel blend
06/18/98	08:30	06/18/98	14:44	LOW BTU FUEL	125	adjusted boiler combustion systems	yes	review fuel blend

Start Date	Start Time	End Date	End Time	Reason	Gross Derated MW	Remedy	Occurred Previously On Another Unit	Action Taken to Prevent Recurrence
06/18/98	14:45	06/18/98	18:14	BOILER CASING BURN THRU	275	patched damaged casing	yes	repair casing
06/18/98	18:15	06/18/98	19:09	6A PULVERIZER MAINT.	120	repair pulverizer	yes	replaced broken shaft
06/18/98	19:10	06/18/98	20:13	CASING BURN THRU	275	ran at reduced until after peak	yes	repaired casing
06/19/98	10:01	06/20/98	01:00	PRECIPITATOR FOULING	195	repaired rectifiers & perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/20/98	01:01	06/20/98	02:00	CONDENSER PICK	195	picked condenser half	yes	normal maintenance
06/20/98	02:01	06/21/98	03:28	6A PULVERIZER MAINT.	120	repair pulverizer	yes	replaced broken shaft
06/21/98	03:30	06/21/98	06:44	PRECIPITATOR FOULING	45	repaired rectifiers & perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/21/98	06:45	06/21/98	12:14	PRECIPITATOR FOULING	145	repaired rectifiers & perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/21/98	12:15	06/21/98	19:59	PRECIPITATOR FOULING	135	repaired rectifiers & perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/21/98	20:00	06/21/98	21:29	PRECIPITATOR FOULING	75	repaired rectifiers & perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/21/98	21:30	06/21/98	22:29	PRECIPITATOR FOULING	95	repaired rectifiers & perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/21/98	22:30	06/22/98	11:29	PRECIPITATOR FOULING	110	checked hoppers & perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/22/98	11:30	06/22/98	15:29	PRECIPITATOR FOULING	45	perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/22/98	15:30	06/22/98	18:44	PRECIPITATOR FOULING	75	perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/22/98	18:45	06/22/98	22:59	PRECIPITATOR FOULING	55	perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/22/98	23:00	06/23/98	00:44	PRECIPITATOR FOULING	100	perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/23/98	00:45	06/23/98	01:14	CONDENSER PICK	215	picked condenser half	yes	normal maintenance
06/23/98	01:15	06/23/98	06:59	PRECIPITATOR FOULING	100	perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/23/98	07:00	06/23/98	12:59	PRECIPITATOR FOULING	65	perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/23/98	13:00	06/24/98	11:44	PRECIPITATOR FOULING	80	perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/24/98	11:45	06/24/98	16:59	PRECIPITATOR FOULING	65	perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/24/98	17:00	06/24/98	22:49	PRECIPITATOR FOULING	50	perform temporary repair to casing leaks	yes	perform permanent repairs during major outage
06/24/98	22:50	06/25/98	06:59	PRECIPITATOR FOULING	175	perform temporary repair to casing leaks	yes	perform permanent repairs during major outage

From: 01/05/99 to: 01/07/99

BIG BEND 1

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01/04/99	17:31	01/05/99	01:59	MAX FUEL	25	adjusted boiler combustion systems	yes	review fuel blend
01/05/99	02:00	01/07/99	00:01	APH AMPS SWING-HIGH EXIT GAS TEMP	37	ensure sootblower operation	yes	monitor APH performance
01/07/99	00:02	01/07/99	12:00	OPACITY	82	technicians investigated causes	yes	optimize precipitator, ash removal, boiler combustion systems
01/07/99	12:01	01/10/99	15:59	MAX BFP-RECIR VV LEAKING THRU	25	monitor system	yes	repair valve next planned outage
BIG BEND 2								
01/05/99	00:30	01/05/99	01:40	N.SIDE PICK	250	picked condenser half	yes	normal maintenance
01/05/99	12:05	01/05/99	12:50	"C" PAF-HIGH VIBRATION	175	inspected fan & returned to service	yes	preventative maintenance
01/07/99	06:15	01/07/99	06:30	MAX AIR FLOW	15	ensure sootblower operation	yes	monitor APH performance
01/07/99	06:31	01/07/99	14:07	OPACITY	40	technicians investigated causes	yes	optimize precipitator, ash removal, boiler combustion systems
BIG BEND 3								
01/04/99	22:50	01/05/99	00:25	N.SIDE PICK	200	picked condenser half	yes	normal maintenance
01/05/99	00:40	01/05/99	01:35	S.SIDE PICK	200	picked condenser half	yes	normal maintenance
01/05/99	11:00	01/05/99	18:48	"C" PAF-VIBRATION	140	cleaned fan	yes	normal maintenance
01/06/99	23:53	01/07/99	03:12	"B" PAF-CLEAN WHEEL	120	cleaned wheel	yes	normal maintenance
BIG BEND 4								
01/04/99	12:18	01/05/99	23:21	"A" PAF MOTOR	237	sent motor for repair on rush basis	yes	normal maintenance
01/06/99	00:12	01/06/99	02:25	B/D COND PICK	245	picked condenser half	yes	normal maintenance
01/06/99	12:35	01/06/99	14:15	"D" MILL-BREAKER, "C" MILL TAGGED	95	meggered motor and returned to service	yes	routine work effort
01/07/99	21:26	01/08/99	02:00	"A" PAF TRIP-ELEC	205	meggered motor and returned to service	yes	routine work effort
GANNON 1								
01/04/99	12:25	01/08/99	11:55	1B B.F.P. BAD MOTOR BEARING	25	repaired motor bearing	yes	monitor oil/ vibration
GANNON 3								
01/04/99	23:50	01/05/99	02:59	CONDENSER PICK	95	picked condenser half	yes	normal maintenance
01/05/99	03:00	01/05/99	06:24	3C COAL FEEDER DRAG CHAIN CONV. MAINT.	25	repaired chain & belt	yes	preventative maintenance
GANNON 4								
01/04/99	20:15	01/08/99	09:09	HEADER RESTRICTION DUE TO BOILER TUBE CONDITION	20	minimized risk of tube failure	yes	maintain reduced pressure
01/06/99	09:10	01/10/99	22:59	HEADER RESTRICTION	10	minimized risk of tube failure	yes	maintain reduced pressure
GANNON 6								
01/04/99	22:00	01/05/99	18:34	PLUGGAGE IN EAST SUPERHEATER	55	operate at reduced load until system load permits outage	yes	cleared pluggage during next outage, repaired damper controls
01/05/99	18:35	01/06/99	05:19	PLUGGAGE IN EAST SUPERHEATER	75	operate at reduced load until system load permits outage	yes	cleared pluggage during next outage, repaired damper controls

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01/06/99	05:20	01/06/99	14:40	PLUGGAGE IN THE REHEATER	105	operate at reduced load until system load permits outage	yes	cleared pluggage during next outage, repaired damper controls
From: 04/02/99 to: 04/07/99								
BIG BEND 1								
04/02/99	00:12	04/02/99	23:30	FUEL	20	adjusted boiler combustion systems	yes	review fuel blend
04/03/99	15:21	04/06/99	07:00	FUEL	10	adjusted boiler combustion systems	yes	review fuel blend
04/07/99	03:20	04/07/99	04:55	S.SIDE PICK	235	picked condenser half	yes	normal maintenance
BIG BEND 2								
04/03/99	13:20	04/03/99	19:00	OPACITY	25	technicians investigated causes	yes	optimize preclotator, ash removal, boiler combustion systems
04/03/99	19:01	04/03/99	22:39	1ST PT HEATER	18	repair heater leak	yes	replaced heater beginning 04/17/99
04/03/99	22:40	04/04/99	00:45	S.SIDE PICK	235	picked half of condenser	yes	normal maintenance
04/04/99	01:30	04/04/99	04:05	N.SIDE PICK	235	picked half of condenser	yes	normal maintenance
04/04/99	04:06	04/05/99	11:24	1ST PT HEATER	18	repair heater leak	yes	replaced heater beginning 04/17/99
04/05/99	11:25	04/05/99	14:53	"B" MILL-B2 FEEDER	165	repaired coal feeder	yes	review maintenance history and preventive maintenance program
04/05/99	14:54	04/05/99	17:04	1ST PT HEATER	18	repair heater leak	yes	replaced heater beginning 04/17/99
04/05/99	17:05	04/07/99	17:30	"B" FD FAN WB BRG HOT-INLET VANE IMBALANCE	155	adjusted inlet vanes & repaired bearing thrust collar	yes	machined thrust collar during planned outage
04/07/99	17:31	04/07/99	22:49	1ST PT HTR	18	repair heater leak	yes	replaced heater beginning 04/17/99
04/07/99	22:50	04/08/99	05:07	"B" FD FAN WB BRG HOT-INLET VANE IMBALANCE	155	adjusted inlet vanes & repaired bearing thrust collar	yes	machined thrust collar during planned outage
BIG BEND 4								
04/01/99	23:55	04/02/99	00:48	B/D COND PICK	270	picked half of condenser	yes	normal maintenance
04/04/99	23:25	04/05/99	05:00	A/C W/BRUSHES	220	cleaned fouled condenser	yes	routine work effort
04/05/99	09:00	04/05/99	12:35	LOW STEAM TEMPS	3	review boiler and sootblower operation, and fuel	yes	review fuel quality and boiler operation
04/07/99	19:37	04/07/99	19:49	"A" MILL-NOISY/INSPECT	100	inspected, removed metal & returned to service	yes	normal operational procedure
04/07/99	19:50	04/07/99	22:40	"A" COAL FEEDER TRIP	100	inspected, repaired & returned to service	yes	normal operational procedure
04/07/99	23:55	04/08/99	05:00	B/D W/BRUSHES	270	cleaned fouled condenser	yes	routine work effort
GANNON 1								
04/06/99	00:30	04/06/99	02:45	PICK CONDENSER	65	picked half of condenser	yes	normal maintenance
GANNON 2								
04/04/99	23:50	04/05/99	06:20	BLOW PLUGS IN CONDENSER	55	cleaned fouled condenser	yes	routine work effort
GANNON 3								
04/04/99	23:30	04/05/99	01:10	CHANGE OIL IN 3B FORCE DRAFT FAN LUBE OIL SYSTEM	70	changed oil	yes	normal event based on oil analysis program
04/07/99	03:10	04/07/99	05:35	PICK CONDENSER	100	picked half of condenser	yes	normal maintenance

Start Date	Start Time	End Date	End Time	Reason	Gross Derated MW	Remedy	Occurred Previously On Another Unit	Action Taken to Prevent Recurrence
GANNON 4								
04/02/99	17:10	04/02/99	18:45	A BURN THROUGH ON 4C CYCLONE	40	temporarily repaired casing	yes	perform permanent repair during next major outage
04/03/99	23:30	04/04/99	1:14	PICK CONDENSER	90	picked half of condenser	yes	normal maintenance
GANNON 5								
03/31/99	22:30	04/02/99	08:44	5A PRIMARY AIR FAN INBOARD BEARING REPLACEMENT	125	replaced fan bearing	yes	review oil analysis records and alignment
04/02/99	08:45	04/02/99	12:00	HIGH TUBE METAL TEMPS	15	deslagged boiler	yes	review combustion
04/03/99	11:30	04/03/99	23:29	HIGH TUBE METAL TEMPS.	5	deslagged boiler	yes	review combustion
04/03/99	23:30	04/04/99	00:14	PICK CONDENSER	125	picked half of condenser	yes	normal maintenance
04/04/99	01:15	04/04/99	13:59	REPAIR 5A PULVERIZER AIR SEAL	155	repaired pulverizer air seal	yes	review installation
04/04/99	14:00	04/06/99	09:59	HIGH TUBE METAL TEMPS.	5	deslagged boiler	yes	review combustion
04/06/99	10:00	04/06/99	14:04	OBSTRUCTION IN 5A1 COAL FEEDER	65	removed obstruction	yes	review coal field foreign object removal systems
04/06/99	14:05	04/08/99	02:59	HIGH TUBE METAL TEMPS.	5	deslagged boiler	yes	review combustion
From:	04/14/99	to:	04/16/99					
BIG BEND 1								
04/14/99	16:00	04/14/99	23:29	FUEL	8	adjusted boiler combustion systems	yes	review fuel blend
04/14/99	23:30	04/15/99	03:20	"A" FD FAN-REPLACE VB FAN BRG SIGHT GLASS.	235	replaced sight glass	yes	normal maintenance
04/14/99	03:21	04/15/99	19:00	FUEL	2	adjusted boiler combustion systems	yes	review fuel blend
04/16/99	01:05	04/16/99	02:00	S.SIDE PICK	235	picked half of condenser	yes	normal maintenance
04/16/99	02:15	04/16/99	03:20	N.SIDE PICK	235	picked half of condenser	yes	normal maintenance
04/16/99	23:52	04/17/99	03:15	"C" PAF-CLEAN WHEEL	175	cleaned wheel	yes	normal maintenance
BIG BEND 2								
04/14/99	22:45	04/15/99	05:05	S.SIDE W/BRUSHES	235	cleaned fouled condenser	yes	routine work effort
04/15/99	05:25	04/17/99	22:42	"B" CWPP-REPLACE BEARINGS	172	replaced bearings	yes	performed alignment
BIG BEND 3								
04/13/99	23:10	04/14/99	01:50	S.SIDE PICK	245	picked half of condenser	yes	normal maintenance
04/14/99	02:00	04/14/99	03:10	N.SIDE PICK	245	picked half of condenser	yes	normal maintenance
04/15/99	23:20	04/16/99	00:38	"B" PAF-CLEAN WHEEL	145	cleaned wheel	yes	normal maintenance
04/16/99	02:03	04/16/99	03:50	"B" PAF-CLEAN WHEEL	145	cleaned wheel	yes	normal maintenance
BIG BEND 4								
04/14/99	17:40	04/15/99	02:34	COND TUBES FOULING	25	schedule condenser cleaning	yes	normal maintenance
04/15/99	02:35	04/15/99	03:50	A/C COND PICK	270	picked half of condenser	yes	normal maintenance
04/15/99	04:07	04/15/99	04:50	B/D COND PICK	270	picked half of condenser	yes	normal maintenance
04/16/99	01:50	04/16/99	08:36	"D" TOWER-QUENCHER LEAK; "A" TOWER TAGGED	110	repaired leak	yes	normal FGD maintenance
04/16/99	22:55	04/17/99	01:20	B/D PICK	225	picked half of condenser	yes	normal maintenance
GANNON 2								
04/15/99	17:00	04/16/99	03:20	SALT LEAK IN CONDENSER	55	plugged leak	yes	inspect condenser during planned outage

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GANNON 3								
04/16/99	00:10	04/16/99	01:30	PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
From:	04/22/99	to:	04/27/99					
BIG BEND 1								
04/21/99	23:45	04/22/99	04:25	S.SIDE W/BRUSHES	235	cleaned fouled condenser	yes	routine work effort
04/22/99	23:10	04/23/99	05:20	N.SIDE W/BRUSHES	255	cleaned fouled condenser	yes	routine work effort
04/23/99	21:58	04/23/99	22:43	N.SIDE COND LEAK	235	plugged leaking tube	yes	routine event, review location and history of leaks
04/23/99	22:45	04/24/99	02:25	S.SIDE COND LEAK	285	plugged leaking tube	yes	routine event, review location and history of leaks
04/24/99	02:28	04/25/99	15:30	BOILER WATER CHEMISTRY	135	reduce load until proper water chemistry is achieved	yes	routine event following startup or condenser leak
04/25/99	23:10	04/26/99	12:35	S.SIDE COND LEAK	235	plugged leaking tube	yes	routine event, review location and history of leaks
04/26/99	12:38	04/26/99	22:59	VWO	5	improve fuel quality	yes	review fuel blend
04/26/99	23:00	04/27/99	01:15	N.SIDE W/BRUSHES	235	cleaned fouled condenser	yes	routine work effort
04/27/99	01:16	04/27/99	14:59	VWO	5	improve fuel quality	yes	review fuel blend
04/27/99	15:00	04/27/99	16:00	OPACITY-F/A HOPPER HIGH LEVEL	20	cleaned precipitator hoppers	yes	optimize precipitator, ash removal, boiler combustion systems
04/27/99	18:01	04/27/99	18:00	VWO	5	improve fuel quality	yes	review fuel blend
04/27/99	18:01	04/27/99	24:00	COND TUBES FOULING	15	schedule condenser cleaning	yes	normal maintenance
BIG BEND 2								
04/25/99	08:10	04/26/99	17:55	"B" CWPP	197	rebuild circulator due to bearing failure	yes	review bearing material and shaft alignment
04/26/99	17:56	04/27/99	11:59	REPAIR 1ST AND 2ND PT HEATER EXTRACTION VALVES	18	repaired valves	yes	preventative maintenance
04/27/99	12:00	04/28/99	04:59	OPACITY-F/A HOPPER HIGH LEVEL	74	technicians investigated causes	yes	optimize precipitator, ash removal, boiler combustion systems
BIG BEND 3								
04/25/99	00:35	04/25/99	01:09	"B" MILL COAL LEAKS	170	performed temporary repair to coal chute	yes	plan for permanent repair/replace at next major outage
04/25/99	01:10	04/25/99	02:15	N.SIDE PICK	230	picked half of condenser	yes	normal maintenance
04/25/99	02:30	04/25/99	03:50	S.SIDE PICK	230	picked half of condenser	yes	normal maintenance
04/25/99	03:51	04/25/99	05:30	"B" MILL-COAL LEAKS	170	performed temporary repair to coal chute	yes	plan for permanent repair/replace at next major outage
04/25/99	07:50	04/25/99	09:20	"A" MILL MOTOR-OIL CHANGE	145	changed oil	yes	normal event , review oil analysis
BIG BEND 4								
04/23/99	16:45	04/24/99	01:44	COND TUBES FOULING	18	schedule condenser cleaning	yes	normal maintenance
04/24/99	01:45	04/24/99	02:40	A/C COND PICK	300	picked half of condenser	yes	normal maintenance
04/24/99	03:00	04/24/99	03:50	B/C COND PICK	300	picked half of condenser	yes	normal maintenance
04/26/99	15:00	04/28/99	22:15	"A" MILL-"A" FEEDER MOTOR	70	replaced motor with one from stock	yes	review preventive maintenance of feeder motors
04/27/99	23:30	04/28/99	05:00	B/D W/BRUSHES	270	cleaned fouled condenser	yes	routine work effort

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GANNON 1								
04/24/99	01:30	04/24/99	04:15	PICK CONDENSER	65	picked half of condenser	yes	normal maintenance
GANNON 2								
04/26/99	01:00	04/26/99	10:30	PICK CONDENSER & REPAIR SALT LEAK (IN CONDENSER)	55	picked half of condenser	yes	normal maintenance
GANNON 3								
04/24/99	04:30	04/24/99	06:45	PICK CONDENSER	90	picked half of condenser	yes	normal maintenance
04/27/99	01:00	04/27/99	03:30	PICK CONDENSER	100	picked half of condenser	yes	normal maintenance
GANNON 4								
04/22/99	01:30	04/22/99	03:55	PICK CONDENSER	120	picked half of condenser	yes	normal maintenance
From: 05/05/99 to: 05/07/99								
BIG BEND 1								
05/05/99	07:00	05/06/99	10:59	VWO	5	improve fuel quality	yes	review fuel blend
05/06/99	11:00	05/06/99	23:19	REDUCED HEADER-COND SALT LEAK	97	reduced load until condenser tube leak could be repaired	yes	review tube leak location and history
05/06/99	23:20	05/07/99	11:30	S SIDE COND LEAK	255	cleaned fouled condenser	yes	routine work effort
05/07/99	11:31	05/07/99	13:45	REDUCED HEADER-COND LEAK	110	cleaned fouled condenser	yes	routine work effort
05/07/99	13:46	05/08/99	06:59	VWO	5	cleaned fouled condenser	yes	routine work effort
BIG BEND 2								
05/04/99	08:56	05/05/99	23:54	HIGH EXIT GAS TEMP	20	tuned boiler	yes	monitor performance
05/05/99	23:55	05/06/99	05:04	N.SIDE W/BRUSHES	250	cleaned fouled condenser	yes	routine work effort
05/06/99	05:05	05/06/99	05:40	"A" MILL-CLEAN PAF WHEEL	155	cleaned wheel	yes	normal maintenance
05/06/99	05:41	05/06/99	07:00	HIGH EXIT GAS TEMP	20	tuned boiler	yes	monitor performance
05/07/99	07:00	05/07/99	11:30	HIGH EXIT GAS TEMP	20	tuned boiler	yes	monitor performance
BIG BEND 3								
05/04/99	23:55	05/05/99	03:33	"C" MILL-COAL LEAKS	145	performed temporary repair to coal chute	yes	performed permanent repair during next unit outage
05/06/99	03:10	05/06/99	06:45	"B" MILL-COAL LEAKS	145	performed temporary repair to coal chute	yes	performed permanent repair during next unit outage
BIG BEND 4								
05/05/99	08:00	05/06/99	14:09	COND TUBES FOULING	93	schedule condenser cleaning	yes	normal maintenance
05/06/99	14:10	05/07/99	00:29	MAX BFP	15	adjusted recirc. Vlv. Control	yes	review feedwater control system
05/07/99	00:30	05/07/99	02:30	B/D COND PICK	270	picked condenser half	yes	normal maintenance
05/07/99	02:55	05/07/99	04:00	A/C COND PICK	270	picked condenser half	yes	normal maintenance
05/07/99	07:20	05/12/99	17:19	3RD PT HEATER LEAK	25	repaired leak	yes	installed explosive plugs during next planned outage
GANNON 1								
05/06/99	23:00	05/07/99	04:00	PICK CONDENSER	65	picked condenser half	yes	normal maintenance
GANNON 2								
05/07/99	05:30	05/07/99	07:00	PICK CONDENSER	55	picked condenser half	yes	normal maintenance

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GANNON 3								
05/06/99	03:00	05/07/99	21:39	REHEAT STRAINERS PLUGGING UP	15	clean strainers	yes	monitor strainer performance
05/07/99	21:40	05/08/99	00:12	CONVEYOR FIRE (CONSERVE COAL FOR PEAK)	95	refurbished equipment & replaced belt	yes	conveyor system inspections
From: 07/28/99 to: 08/03/99								
BIG BEND 1								
07/27/99	23:40	07/28/99	00:40	S.SIDE COND PICK	235	picked condenser half	yes	normal maintenance
07/28/99	00:41	07/28/99	05:15	"A" MILL-COAL LEAK	165	performed temporary repair to coal chute	yes	performed permanent repair during next unit outage
07/28/99	05:16	07/28/99	07:00	MAX AIR FLOW	5	no records available	yes	
07/28/99	15:30	07/28/99	24:00	DISCH CANAL TEMP	25	restrict load to achieve allowable water temp	yes	naturally occurring event
07/29/99	00:01	07/29/99	06:59	MAX AIR FLOW	5	no records available	yes	
07/29/99	13:30	07/29/99	23:34	DISCH CANAL TEMP	50	restrict load to achieve allowable water temp	yes	naturally occurring event
07/29/99	23:35	07/30/99	00:45	S.SIDE COND PICK	235	picked condenser half	yes	normal maintenance
07/30/99	01:00	07/30/99	01:40	N.SIDE COND PICK	235	picked condenser half	yes	normal maintenance
07/30/99	12:30	07/31/99	07:00	DISCH CANAL TEMP	30	restrict load to achieve allowable water temp	yes	naturally occurring event
07/31/99	07:01	07/31/99	13:39	MAX AIR FLOW	5	no records available	yes	
07/31/99	13:40	08/01/99	00:59	OPACITY	49	technicians investigated causes	yes	optimize precipitator, ash removal, boiler combustion systems
08/01/99	01:00	08/01/99	04:35	N.SIDE COND CLEANED W/BRUSHES	255	cleaned fouled condenser	yes	routine work effort
08/01/99	04:55	08/01/99	06:30	S.SIDE COND PICK	255	picked condenser half	yes	normal maintenance
08/03/99	00:50	08/03/99	05:05	S.SIDE CLEANED W/BRUSHES	270	cleaned fouled condenser	yes	routine work effort
08/03/99	07:00	08/03/99	15:39	MAX STEAM FLOW	5	improve fuel quality	yes	review fuel blend
08/03/99	15:40	08/03/99	19:16	DISCH CANAL TEMP	35	restrict load to achieve allowable water temp	yes	naturally occurring event
08/03/99	19:17	08/03/99	21:04	"C" MILL-HIGH SPEED PINION BEARING	155	replaced bearing	yes	monitor lube oil & vibration
08/03/99	21:05	08/04/99	01:45	N.SIDE CLEANED W/BRUSHES	235	cleaned fouled condenser	yes	routine work effort
BIG BEND 2								
07/27/99	17:00	07/28/99	00:15	WET COAL-FEEDERS PLUGGING	15	clear pluggage	yes	bunker with dry coal when possible
07/28/99	00:16	07/28/99	05:05	N.SIDE COND CLEANED W/BRUSHES	235	cleaned fouled condenser	yes	routine work effort
07/28/99	05:06	07/28/99	18:22	WET COAL-FEEDERS PLUGGING	12	clear pluggage	yes	bunker with dry coal when possible
07/28/99	18:23	07/28/99	22:10	OPACITY	40	technicians investigated causes	yes	optimize precipitator, ash removal, boiler combustion systems
07/28/99	22:11	07/29/99	01:34	WET COAL-FEEDERS PLUGGING	10	clear pluggage	yes	bunker with dry coal when possible
07/29/99	01:35	07/29/99	02:50	S.SIDE COND PICK	235	picked condenser half	yes	normal maintenance
07/29/99	03:05	07/29/99	04:07	N.SIDE COND PICK	235	picked condenser half	yes	normal maintenance
07/29/99	04:07	07/29/99	13:29	WET COAL-FEEDERS PLUGGING	10	clear pluggage	yes	bunker with dry coal when possible
07/29/99	13:30	07/29/99	24:00	DISCH CANAL TEMP	35	restrict load to achieve allowable water temp	yes	naturally occurring event
07/30/99	00:01	07/30/99	11:59	WET COAL-FEEDERS PLUGGING	10	clear pluggage	yes	bunker with dry coal when possible
07/30/99	12:00	07/30/99	23:29	DISCH CANAL TEMP	39	restrict load to achieve allowable water temp	yes	naturally occurring event
07/30/99	23:30	07/31/99	04:30	N.SIDE COND CLEANED W/BRUSHES	270	cleaned fouled condenser	yes	routine work effort
07/31/99	04:31	08/01/99	04:14	WET COAL-FEEDERS PLUGGING	5	clear pluggage	yes	bunker with dry coal when possible
08/01/99	04:15	08/01/99	06:15	S.SIDE COND PICK	255	picked condenser half	yes	normal maintenance
08/02/99	03:10	08/02/99	04:20	N.SIDE COND PICK	255	picked condenser half	yes	normal maintenance
08/02/99	04:30	08/02/99	05:35	S.SIDE COND PICK	255	picked condenser half	yes	normal maintenance

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08/02/99	05:35	08/03/99	00:14	WET COAL-FEEDERS PLUGGING	5	clear pluggage	yes	bunker with dry coal when possible
08/03/99	00:15	08/03/99	05:05	S.SIDE COND CLEANED W/BRUSHES	270	cleaned fouled condenser	yes	routine work effort
08/03/99	05:06	08/03/99	07:00	WET COAL-FEEDERS PLUGGING	5	clear pluggage	yes	bunker with dry coal when possible
08/03/99	15:40	08/03/99	21:00	DISCH CANAL TEMP	35	restrict load to achieve allowable water temp	yes	naturally occurring event
08/03/99	21:01	08/04/99	05:10	N.SIDE COND CLEANED W/BRUSHES	415	cleaned fouled condenser	yes	routine work effort
BIG BEND 3								
07/27/99	17:16	07/28/99	03:09	DISCH CANAL TEMP	25	restrict load to achieve allowable water temp	yes	naturally occurring event
07/28/99	03:10	07/28/99	05:30	PICKED CONDENSERS	305	picked condenser half	yes	normal maintenance
07/28/99	10:45	07/28/99	15:10	FUEL	15	adjusted boiler combustion systems	yes	review fuel blend
07/28/99	15:11	07/28/99	24:00	DISCH CANAL TEMP	90	restrict load to achieve allowable water temp	yes	naturally occurring event
07/29/99	00:01	07/29/99	04:40	N.SIDE COND CLEANED W/BRUSHES	295	cleaned fouled condenser	yes	routine work effort
07/29/99	16:30	07/30/99	01:29	DISCH CANAL TEMP	113	restrict load to achieve allowable water temp	yes	naturally occurring event
07/30/99	01:30	07/30/99	04:40	S.SIDE COND CLEANED W/BRUSHES	295	cleaned fouled condenser	yes	routine work effort
07/30/99	10:47	07/31/99	00:29	DISCH CANAL TEMP	85	restrict load to achieve allowable water temp	yes	naturally occurring event
07/31/99	00:30	07/31/99	05:30	N.SIDE COND CLEANED W/BRUSHES	265	cleaned fouled condenser	yes	routine work effort
08/02/99	15:51	08/03/99	10:59	REDUCED HEADER-FURNACE TUBE THINNING	95	increased header pressure	yes	repaired thinned tubes next planned outage
08/03/99	13:10	08/03/99	14:05	N.SIDE COND PICK	245	picked condenser half	yes	normal maintenance
08/03/99	14:27	08/03/99	15:07	S.SIDE COND PICK	245	picked condenser half	yes	normal maintenance
08/03/99	17:40	08/03/99	20:29	COND TUBES FOULING	5	schedule condenser cleaning	yes	normal maintenance
08/03/99	20:30	08/04/99	01:59	COND TUBES FOULING	30	schedule condenser cleaning	yes	normal maintenance
BIG BEND 4								
07/27/99	04:15	07/28/99	06:14	3RD PT HEATER LEAK / MAX BFP	40	repair heater leak at next unit outage	yes	review location of leak and review history
07/28/99	06:15	07/28/99	06:45	B/D COND PICK	290	picked half of condenser	yes	normal maintenance
07/28/99	06:46	07/28/99	07:04	3RD PT HEATER LEAK / MAX BFP	40	repair heater leak at next unit outage	yes	review location of leak and review history
07/28/99	07:05	07/28/99	08:07	A/C COND PICK	290	picked half of condenser	yes	normal maintenance
07/28/99	08:08	07/28/99	15:10	3RD PT HEATER LEAK / MAX BFP	35	repair heater leak at next unit outage	yes	review location of leak and review history
07/28/99	15:11	07/29/99	00:49	DISCH CANAL TEMP	83	restrict load to achieve allowable water temp	yes	naturally occurring event
07/29/99	00:50	07/29/99	05:30	B/D COND CLEANED W/BRUSHES	290	cleaned fouled condenser	yes	routine work effort
07/29/99	05:31	07/29/99	13:29	3RD PT HEATER LEAK / MAX BFP	40	repair heater leak at next unit outage	yes	review location of leak and review history
07/29/99	13:30	07/30/99	01:04	DISCH CANAL TEMP	90	restrict load to achieve allowable water temp	yes	naturally occurring event
07/30/99	01:05	07/30/99	05:10	A/C COND CLEANED W/BRUSHES	270	cleaned fouled condenser	yes	routine work effort
07/30/99	05:11	07/30/99	11:59	3RD PT HEATER LEAK / MAX BFP	40	repair heater leak at next unit outage	yes	review location of leak and review history
07/30/99	12:00	07/31/99	05:59	DISCH CANAL TEMP	63	restrict load to achieve allowable water temp	yes	naturally occurring event
07/31/99	06:00	07/31/99	12:10	B/D COND CLEANED W/BRUSHES	270	cleaned fouled condenser	yes	routine work effort

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07/31/99	12:11	07/31/99	14:06	3RD PT HEATER LEAK / MAX BFP	40	repair heater leak at next unit outage	yes	review location of leak and review history
07/31/99	14:07	07/31/99	23:34	COND TUBES FOULING	80	schedule condenser cleaning	yes	normal maintenance
07/31/99	23:35	08/01/99	00:50	A/C COND PICK	260	picked half of condenser	yes	normal maintenance
08/01/99	01:05	08/01/99	03:05	B/D COND PICK	260	picked half of condenser	yes	normal maintenance
08/01/99	03:06	08/01/99	11:59	3RD PT HEATER LEAK / MAX BFP	40	repair heater leak at next unit outage	yes	review location of leak and review history
08/01/99	12:00	08/01/99	21:03	COND TUBES FOULING	69	schedule condenser cleaning	yes	normal maintenance
08/01/99	23:25	08/02/99	01:45	B/D COND PICK	270	picked half of condenser	yes	normal maintenance
08/02/99	02:50	08/02/99	04:20	A/C COND PICK	270	picked half of condenser	yes	normal maintenance
08/02/99	04:21	08/02/99	11:14	3RD PT HEATER LEAK / MAX BFP	40	repair heater leak at next unit outage	yes	review location of leak and review history
08/02/99	11:15	08/02/99	11:50	"B" MILL-PYRITE PLUGGAGE; "E" MILL TAGGED	130	cleaned out pyrite chute	yes	normal operation
08/02/99	11:55	08/02/99	13:39	3RD PT HEATER LEAK / MAX BFP	40	repair heater leak at next unit outage	yes	review location of leak and review history
08/02/99	13:40	08/03/99	02:59	COND TUBES FOULING	83	schedule condenser cleaning	yes	normal maintenance
08/03/99	03:00	08/03/99	04:00	PICKED "C" COND SECTION	300	picked condenser half	yes	normal maintenance
08/03/99	04:10	08/03/99	05:45	PICKED "D" COND SECTION	250	picked condenser half	yes	normal maintenance
08/03/99	05:46	08/03/99	15:30	3RD PT HEATER LEAK / MAX BFP	40	repair heater leak at next unit outage	yes	review location of leak and review history
08/03/99	15:31	08/03/99	18:59	DISCH CANAL TEMP	70	restrict load to achieve allowable water temp	yes	naturally occurring event
08/03/99	19:00	08/03/99	23:09	COND TUBES FOULING	92	schedule condenser cleaning	yes	normal maintenance
08/03/99	23:10	08/04/99	01:15	A/C COND PICK	300	picked condenser half	yes	normal maintenance
GANNON 1								
07/27/99	04:50	07/27/99	06:50	PICK CONDENSER	65	picked half of condenser	yes	normal maintenance
07/31/99	04:30	07/31/99	06:30	PICK CONDENSER	65	picked half of condenser	yes	normal maintenance
08/01/99	23:20	08/02/99	00:44	PICK CONDENSER	65	picked half of condenser	yes	normal maintenance
08/02/99	07:10	08/02/99	11:55	COAL FEEDER BELT	35	repaired coal feeder belt	yes	normal maintenance
08/02/99	15:55	08/02/99	21:29	COAL FEEDER BELT	25	replaced belt	yes	normal maintenance
08/03/99	21:30	08/04/99	13:20	COAL FEEDER BELT	15	belt repaired	yes	inspect feeders during planned outages
GANNON 2								
07/30/99	00:45	07/30/99	02:10	PICK CONDENSER	55	picked half of condenser	yes	normal maintenance
08/01/99	01:00	08/01/99	02:24	CONDENSER DIRTY	5	schedule condenser cleaning	yes	normal maintenance
08/02/99	23:30	08/03/99	00:59	PICK CONDENSER	55	picked condenser half	yes	normal maintenance
GANNON 3								
07/27/99	02:20	07/28/99	13:59	CONDENSATE PUMP	45	no information available		
07/28/99	14:00	07/28/99	14:59	CONDENSER DIRTY LOW VACCUUM	30	schedule condenser cleaning	yes	normal maintenance
07/28/99	13:10	07/28/99	14:14	CONDENSER DIRTY	20	schedule condenser cleaning	yes	normal maintenance
07/28/99	14:15	07/28/99	17:59	CONDENSER DIRTY	30	schedule condenser cleaning	yes	normal maintenance

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07/28/99	18:00	07/28/99	18:19	CONDENSER DIRTY	40	schedule condenser cleaning	yes	normal maintenance
07/28/99	18:20	07/28/99	19:24	CONDENSER DIRTY	35	schedule condenser cleaning	yes	normal maintenance
07/28/99	19:25	07/28/99	21:24	PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
07/28/99	22:00	07/29/99	04:49	CONDENSER DIRTY	10	schedule condenser cleaning	yes	normal maintenance
07/29/99	04:50	07/29/99	06:40	PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
07/29/99	08:15	07/29/99	09:44	HIGH FURNACE PRESS.	5	operate air heater sootblower	yes	inspect air preheater at next outage
07/29/99	09:45	07/29/99	11:29	PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
07/30/99	04:00	07/30/99	05:30	PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
07/30/99	06:00	07/30/99	10:10	PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
07/31/99	00:15	07/31/99	01:45	PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
07/31/99	08:15	07/31/99	10:10	PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
08/02/99	00:35	08/02/99	02:00	PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
08/02/99	23:30	08/03/99	06:10	BLOW CONDENSER	110	cleaned fouled condenser	yes	routine work effort
08/03/99	23:25	08/04/99	01:15	PICK CONDENSER	95	picked condenser half	yes	normal maintenance
GANNON 4								
07/27/99	23:30	07/29/99	05:59	BLOW PLUGS IN CONDENSER	135	cleaned fouled condenser	yes	routine work effort
07/29/99	09:45	07/29/99	11:20	PICK CONDENSER	120	picked half of condenser	yes	normal maintenance
07/29/99	23:30	07/30/99	05:45	PICK CONDENSER	120	picked half of condenser	yes	normal maintenance
07/30/99	09:50	07/30/99	12:09	PICK CONDENSER	120	picked half of condenser	yes	normal maintenance
07/31/99	02:30	07/31/99	04:00	PICK CONDENSER	120	picked half of condenser	yes	normal maintenance
07/31/99	08:27	07/31/99	09:30	PICK CONDENSER	120	picked half of condenser	yes	normal maintenance
07/31/99	17:00	07/31/99	23:49	CONDENSER DIRTY	5	schedule condenser cleaning	yes	normal maintenance
07/31/99	23:50	07/31/99	24:00	PICK CONDENSER	120	picked half of condenser	yes	normal maintenance
08/01/99	00:01	08/01/99	02:00	PICK CONDENSER	120	picked half of condenser	yes	normal maintenance
08/02/99	07:20	08/02/99	09:35	PICK CONDENSER	120	picked half of condenser	yes	normal maintenance
08/02/99	17:00	08/02/99	24:00	CONDENSER DIRTY	5	schedule condenser cleaning	yes	normal maintenance
GANNON 5								
07/27/99	07:00	07/28/99	09:59	CONDENSER DIRTY	25	schedule condenser cleaning	yes	normal maintenance
07/28/99	10:00	07/29/99	02:29	CONDENSER DIRTY	40	schedule condenser cleaning	yes	normal maintenance
07/28/99	02:30	07/28/99	04:19	PICK CONDENSER	155	picked half of condenser	yes	normal maintenance
07/30/99	01:39	07/30/99	03:59	PICK CONDENSER	155	picked half of condenser	yes	normal maintenance
07/31/99	08:20	07/31/99	11:24	BOILER FEED PUMP AUX. OIL PUMP MOTOR BAD	70	replaced motor	yes	performed root cause analysis of failure
08/01/99	08:20	08/01/99	11:25	BOILER FEED WATER PUMP AUX.OIL PUMP.	70	replaced motor	yes	performed root cause analysis of failure
08/02/99	01:00	08/02/99	02:15	PICK CONDENSER	155	picked half of condenser	yes	normal maintenance
08/03/99	16:00	08/04/99	00:14	CONDENSER DIRTY	100	schedule condenser cleaning	yes	normal maintenance
08/03/99	16:00	08/04/99	00:14	CONDENSER DIRTY	100	schedule condenser cleaning	yes	normal maintenance
GANNON 6								
07/28/99	03:10	07/28/99	04:00	PICK CONDENSER	200	picked half of condenser	yes	normal maintenance

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07/28/99	19:30	07/29/99	00:30	CONDENSER DIRTY	10	schedule condenser cleaning	yes	normal maintenance
07/29/99	00:31	07/29/99	01:30	PICK CONDENSER	200	picked half of condenser	yes	normal maintenance
08/01/99	18:38	08/01/99	20:00	LOW BTU FUEL	25	adjusted boiler combustion systems	yes	review fuel blend
08/01/99	16:45	08/02/99	04:00	CONDENSER DIRTY	30	schedule condenser cleaning	yes	normal maintenance
08/02/99	04:00	08/02/99	05:15	PICK CONDENSER	205	picked half of condenser	yes	normal maintenance
POLK 1 GASIFIER								
07/27/99	21:53	07/28/99	00:26	ACID PLANT TRIP	5	troubleshoot system, opened recirc valve	yes	normal maintenance
07/28/99	04:10	07/28/99	05:00	ACID PLANT TRIP COMPRESSOR VIBRATION	18	troubleshoot system, bypass faulty vibration probe	yes	normal maintenance & replaced probe & cable
08/01/99	00:00	08/27/99	15:00	ASU ADSORBER BREAK-THRU (5048)	2	cleaned absorber	yes	use higher pressure steam to shorten regen cycle
08/02/99	14:10	08/07/99	15:18	MDEA CARRYOVER PLUGGAGE OF CLEAN GAS PREHEATER	15	removed pluggage	no	MDEA reclaim to remove HSS was installed
From:	09/03/99	to:	09/05/99					
BIG BEND 1								
09/02/99	23:35	09/03/99	00:25	S.SIDE COND.-PICK	255	picked half of condenser	yes	normal maintenance
09/03/99	00:40	09/03/99	01:30	N.SIDE COND.-PICK	255	picked half of condenser	yes	normal maintenance
09/04/99	15:00	09/04/99	15:50	HIGH OPACITY	45	technicians investigated causes	yes	optimize precipitator, ash removal, boiler combustion systems
09/05/99	23:00	09/05/99	23:49	"A" MILL OUT FOR COAL LEAK REPAIR	180	repaired coal leak	yes	wear areas investigated, repairs/replacements performed at next planned outage
09/05/99	23:50	09/06/99	00:40	N.SIDE COND.- PICK	235	picked half of condenser	yes	normal maintenance
BIG BEND 2								
09/02/99	22:55	09/03/99	04:35	N.SIDE COND.- CLEAN W/BRUSHES	245	cleaned fouled condenser	yes	routine work effort
09/04/99	10:00	09/04/99	23:06	"C" PAF OUT DUE TO HI VIBRATION	155	cleaned fan wheel and balanced	yes	normal maintenance
09/04/99	23:07	09/05/99	00:05	S.SIDE COND.- PICK	235	picked half of condenser	yes	normal maintenance
09/05/99	00:22	09/05/99	01:00	N.SIDE COND.- PICK	235	picked half of condenser	yes	normal maintenance
09/05/99	01:01	09/05/99	08:15	"C" PAF OUT - TROUBLESHOOTING AND REPAIRING HI VIB. PROBLEM	155	installed new thrust collar	yes	reviewed preventive maintenance and operation
BIG BEND 3								
09/03/99	02:35	09/03/99	03:20	S.SIDE COND.- PICK	245	picked half of condenser	yes	normal maintenance
09/03/99	03:40	09/03/99	04:25	N.SIDE COND.- PICK	245	picked half of condenser	yes	normal maintenance
09/05/99	00:15	09/05/99	01:50	S.SIDE COND.- PICK	280	picked half of condenser	yes	normal maintenance
09/05/99	02:15	09/05/99	03:00	N.SIDE COND.- PICK	280	picked half of condenser	yes	normal maintenance
BIG BEND 4								
09/02/99	14:31	09/03/99	23:14	LOW STEAM TEMPS	10	continue operation until boiler slags after startup	yes	normal event following unit startup
09/03/99	23:30	09/04/99	04:54	B/D COND. SECTIONS- CLEAN W/BRUSHES	270	cleaned fouled condenser	yes	routine work effort

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09/04/99	04:55	09/06/99	00:49	MAX FUEL- LOW BTU	7	adjusted boiler combustion systems	yes	review fuel blend
GANNON 1								
09/05/99	06:10	09/05/99	21:40	F000LEAK IN 1C CYCLONE	25	removed cyclone from service	yes	repaired scroll leak
GANNON 2								
09/04/99	03:00	09/04/99	05:10	F000PICK CONDENSER	80	picked half of condenser	yes	normal maintenance
GANNON 3								
09/02/99	07:01	09/03/99	02:58	F000HIGH FURN. PRESSURE	5	operate air heater sootblower	yes	inspect air preheater at next outage
09/03/99	03:00	09/03/99	03:58	F000PICK CONDENSER	100	picked half of condenser	yes	normal maintenance
09/03/99	04:00	09/03/99	08:49	F000HIGH FURN. PRESSURE	5	operate air heater sootblower	yes	inspect air preheater at next outage
09/03/99	08:50	09/03/99	09:47	F0003A & B CYCLONE IGNITOR PROBLEMS	35	replaced ignitor cable	yes	normal maintenance
09/03/99	09:48	09/03/99	05:44	F000HIGH FURN. PRESSURE	5	operate air heater sootblower	yes	inspect air preheater at next outage
09/04/99	05:45	09/04/99	08:14	F000PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
09/04/99	08:15	09/04/99	13:04	F000HIGH FURN. PRESSURE	5	operate air heater sootblower	yes	inspect air preheater at next outage
09/04/99	13:05	09/04/99	13:44	F0003C CYCLONE IGNITOR PROBLEMS	15	repaired refractory adjacent to ignitor	yes	perform casing and refractory permanent repair at next planned outage
09/04/99	13:45	09/04/99	21:21	F0003C COAL FEEDER PROBLEMS	35	replaced feeder belt due to fire	yes	occasional occurrence in coal feeder
09/04/99	22:10	09/05/99	05:58	F000HIGH FURN. PRESSURE	5	operate APH sootblower	yes	wash APH at next planned outage
09/05/99	06:00	09/05/99	08:15	F000PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
09/05/99	08:18	09/05/99	13:29	F000HIGH FURN. PRESSURE	5	operate APH sootblower	yes	wash APH at next planned outage
09/05/99	13:30	09/05/99	18:48	F0003D COAL FEEDER DRAG CHAIN PROBLEMS	15	replaced drag chain	yes	normal maintenance
09/05/99	18:50	09/06/99	07:30	F000HIGH FURN. PRESSURE	5	operate APH sootblower	yes	wash APH at next planned outage
GANNON 4								
09/03/99	13:00	09/03/99	13:29	F000HEADER RESTRICTION TO BOILER TUBE CONDITION.	25	reduce header pressure to minimize tube failures	yes	plan to replace thin tubes during next major outage
09/03/99	13:30	09/03/99	13:58	F000HEADER RESTRICTION DUE TO BOILER TUBE CONDITIONS.	20	reduce header pressure to minimize tube failures	yes	plan to replace thin tubes during next major outage
09/03/99	23:30	09/04/99	01:54	F000PICK CONDENSER	120	picked half of condenser	yes	normal maintenance
09/04/99	08:00	09/04/99	08:40	F000HOT SPOT ON SLAG TANK.	40	perform temporary repair of slag tank	yes	perform permanent repair during next planned outage
09/04/99	16:30	09/04/99	18:44	F000B COAL FEEDER TROUBLE	10	limited coal feeder speed to avoid tripping	yes	troubleshoot and repair/replace control components when feeder can be taken out of service
09/05/99	01:45	09/05/99	03:58	F000PICK CONDENSER	120	picked half of condenser	yes	normal maintenance
GANNON 5								
09/03/99	04:33	09/03/99	10:14	F000HIGH FURN. PRESSURE	10	operate air heater sootblower	yes	inspect air preheater at next outage
09/03/99	17:25	09/03/99	18:39	F000LOW BTU FUEL	70	adjusted boiler combustion systems	yes	review fuel blend

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09/03/99	19:40	09/03/99	20:50	F000LOW BTU FUEL	115	adjusted boiler combustion systems	yes	review fuel blend
09/03/99	21:00	09/03/99	21:29	F000LOW BTU FUEL	80	adjusted boiler combustion systems	yes	review fuel blend
09/03/99	21:30	09/04/99	09:39	F000LOW BTU FUEL	85	adjusted boiler combustion systems	yes	review fuel blend
09/04/99	09:40	09/04/99	11:10	F000HIGH FURN. PRESSURE	15	operate air heater sootblower	yes	inspect air preheater at next outage
09/05/99	02:50	09/05/99	05:00	F000A PULVERIZER WIRING	135	replace wiring	yes	all wiring replaced - none required
09/05/99	01:10	09/05/99	02:29	F000PICK CONDENSER	155	picked half of condenser	yes	normal maintenance
09/05/99	15:30	09/05/99	18:40	F000HIGH FURN. PRESSURE	10	operate APH sootblower	yes	inspect & wash APH at next planned outage
09/05/99	18:40	09/05/99	20:09	F000A PULVERIZER COAL LEAK	140	repaired coal leak	yes	inspect thickness, repair/replace at next planned outage
09/05/99	20:10	09/07/99	14:59	F000HIGH FURN. PRESSURE	10	operate APH sootblower	yes	inspect & wash APH at next planned outage
GANNON 6								
09/02/99	23:15	09/03/99	04:15	F000BLOW PLUGS IN CONDENSER	240	cleaned fouled condenser	yes	routine work effort
09/03/99	04:16	09/03/99	20:29	F000OPACITY	35	technicians investigated causes	yes	optimize precipitator, ash removal, boiler combustion systems
09/03/99	20:30	09/04/99	14:29	F000OPACITY	50	technicians investigated causes	yes	optimize precipitator, ash removal, boiler combustion systems
09/04/99	14:30	09/04/99	15:04	F000CONDENSER DIRTY	65	schedule condenser cleaning	yes	normal maintenance
09/04/99	15:05	09/04/99	23:19	F000CONDENSER DIRTY	85	schedule condenser cleaning	yes	normal maintenance
09/04/99	23:20	09/05/99	00:55	F000PICK CONDENSER	230	picked half of condenser	yes	normal maintenance
09/05/99	00:55	09/05/99	15:44	F000OPACITY	50	inspect/clean hoppers	yes	optimize precipitator, ash removal, boiler combustion systems
09/05/99	15:45	09/05/99	16:29	F000CONDENSER DIRTY	15	schedule condenser cleaning	yes	normal maintenance
09/05/99	16:30	09/05/99	23:29	F000CONDENSER DIRTY	35	schedule condenser cleaning	yes	normal maintenance
09/05/99	23:30	09/06/99	01:09	F000PICK CONDENSER	215	picked half of condenser	yes	normal maintenance
From:	09/27/99	to:	09/28/99					
BIG BEND 1								
09/26/99	23:10	09/27/99	04:40	N.SIDE COND.- CLEAN W/BRUSHES	245	cleaned fouled condenser	yes	routine work effort
09/27/99	05:00	09/28/99	12:45	HIGH EX.T GAS TEMP	20	adjust dampers, operate sootblowers	yes	review sootblower operation
09/27/99	13:50	09/27/99	16:15	A FEEDER TRIPPED- C/A PROBLEM	85	repair control switch	yes	review maintenance history
09/29/99	00:20	09/29/99	05:45	C MILL OUT FOR LEVEL PROBE REPAIR	155	repaired level probe	yes	normal maintenance
09/29/99	10:30	10/01/99	00:09	1ST. & 2ND. PT. HTRS BYPASSED- LEAK IN 2ND. PT.	35	repaired htr. Tube leak	yes	review tube thickness for repairs/replace at next major outage
BIG BEND 2								
09/27/99	23:55	09/28/99	01:20	N.SIDE COND.- PICK	245	picked half of condenser	yes	normal maintenance
09/28/99	01:30	09/28/99	03:20	S.SIDE COND.- PICK	235	picked half of condenser	yes	normal maintenance
BIG BEND 3								

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09/27/99	09:30	09/27/99	20:58	BOILER BURN THRU	225	perform temporary repair of casing	yes	perform permanent repair during unit outage
09/28/99	23:35	09/30/99	00:30	S.SIDE COND.- PICK	245	picked half of condenser	yes	normal maintenance
BIG BEND 4								
09/27/99	01:10	09/27/99	01:55	A/C COND. SECTIONS- PICK	270	picked half of condenser	yes	normal maintenance
09/27/99	02:10	09/27/99	03:35	B/D COND. SECTIONS- PICK	270	picked half of condenser	yes	normal maintenance
09/27/99	03:38	09/28/99	23:14	2ND. PT. HTR. OUT	25	repair heater leak	yes	review leak location and history
09/28/99	23:15	09/29/99	05:10	C MILL OUT FOR COAL FEEDER CLEAN OUT CONVEYOR REPAIR	125	replaced gear reducer	yes	reviewed preventive maintenance program & returned rebuilt reducer to stock
09/29/99	05:11	09/29/99	18:59	2ND. PT. HTR. OUT	25	removed heater from service	yes	repaired head leak/reviewed heater head installation procedure
09/29/99	19:00	09/30/99	01:59	LOW VACUUM	50	clean condenser	yes	normal maintenance
GANNON 1								
09/27/99	02:40	09/27/99	04:30	F000PICK CONDENSER	65	picked half of condenser	yes	normal maintenance
09/28/99	01:20	09/28/99	03:30	F000PICK CONDENSER	65	picked half of condenser	yes	normal maintenance
09/29/99	04:45	09/29/99	07:00	F000PICK CONDENSER	75	picked half of condenser	yes	normal maintenance
09/29/99	20:30	09/29/99	23:16	F000CONDENSER DIRTY	25	schedule condenser cleaning	yes	normal maintenance
09/29/99	23:16	09/30/99	01:17	F000PICK CONDENSER	75	picked half of condenser	yes	normal maintenance
GANNON 2								
09/28/99	04:08	09/28/99	06:16	F000PICK CONDENSER	55	picked half of condenser	yes	normal maintenance
GANNON 3								
09/26/99	04:55	09/27/99	03:25	F000HIGH FURN. PRESSURE	5	operate APH sootblower	yes	wash APH at next planned outage
09/27/99	03:25	09/27/99	05:40	F000HIGH FURN. PRESSURE	95	operate APH sootblower	yes	wash APH at next planned outage
09/27/99	05:40	09/27/99	23:30	F000HIGH FURN. PRESSURE	5	operate APH sootblower	yes	wash APH at next planned outage
09/27/99	23:30	09/28/99	01:15	F000PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
09/28/99	01:15	09/28/99	02:20	F000HIGH FURN. PRESSURE	5	operate APH sootblower	yes	wash APH at next planned outage
09/28/99	02:20	09/29/99	04:00	F000PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
09/29/99	04:00	09/30/99	02:30	F000HIGH FURN. PRESSURE	5	operate APH sootblower	yes	wash APH at next planned outage
GANNON 4								
09/25/99	17:15	09/27/99	00:01	F000HOR. RESTRICTION BOILER TUBES	10	limit header pressure to reduce tube failures	yes	replace tubes at next major outage
09/27/99	00:01	09/27/99	00:30	F0004C COAL FEEDER BELT MAINT.	20	repaired coal feeder belt	yes	perform review of feeder maintenance
09/27/99	00:30	09/27/99	02:30	F000PICK CONDENSER	120	picked half of condenser	yes	normal maintenance
09/27/99	02:30	09/28/99	20:45	F000HEADER RESTRICTION DUE TO BOILER TUBE CONDITION	10	limit header pressure to reduce tube failures	yes	replace tubes at next major outage
09/28/99	20:45	09/28/99	23:20	F000CONDENSER DIRTY	30	schedule condenser cleaning	yes	normal maintenance
09/28/99	23:20	09/29/99	00:55	F000PICK CONDENSER	120	picked half of condenser	yes	normal maintenance
09/29/99	00:55	09/30/99	05:12	F000HEADER RESTRICTION DUE TO BOILER TUBE CONDITION	10	limit header pressure to reduce tube failures	yes	replace tubes at next major outage
GANNON 5								
09/24/99	04:50	09/27/99	00:01	F000HIGH FURN. PRESSURE	20	operate APH sootblower	yes	wash APH at next planned outage
09/27/99	00:01	09/27/99	04:30	F000BLOW PLUGS IN CONDENSER	155	cleaned fouled condenser	yes	routine work effort
09/27/99	04:30	09/27/99	14:30	F000HIGH FURN. PRESSURE	20	operate APH sootblower	yes	wash APH at next planned outage
09/27/99	04:30	09/27/99	14:30	F000HIGH FURN. PRESSURE	20	operate APH sootblower	yes	wash APH at next planned outage

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09/27/99	14:30	09/28/99	15:00	F000LOW BTU FUEL	45	adjusted boiler combustion systems	yes	review fuel blend
09/28/99	15:00	09/29/99	09:00	F000HIGH FURN. PRESSURE	5	operate APH sootblower	yes	wash APH at next planned outage
09/29/99	17:40	09/29/99	19:30	F000LOW BTU FUEL	15	adjusted boiler combustion systems	yes	review fuel blend
09/29/99	19:30	09/30/99	13:30	F000LOW BTU FUEL	55	adjusted boiler combustion systems	yes	review fuel blend
GANNON 8								
09/27/99	14:30	09/27/99	16:00	F000LOW BTU FUEL	35	adjusted boiler combustion systems	yes	review fuel blend
09/27/99	16:00	09/28/99	03:41	F000LOW BTU FUEL	20	adjusted boiler combustion systems	yes	review fuel blend
HOOKERS PT 4								
09/27/99	09:50	09/27/99	21:08	F0004A CIRCULATOR VIBRATION	13	replaced impeller	yes	caused by foreign object in intake canal
From:	10/19/99	to:	10/21/99					
BIG BEND 1								
10/18/99	10:00	10/19/99	23:57	OPACITY	61	technicians investigated causes	yes	optimize precipitator, ash removal, boiler combustion systems
10/19/99	23:58	10/20/99	01:10	N.SIDE COND.- PICK	245	picked half of condenser	yes	normal maintenance
10/20/99	01:27	10/20/99	03:17	S.SIDE COND.- PICK	245	picked half of condenser	yes	normal maintenance
BIG BEND 3								
10/19/99	21:45	10/20/99	05:35	"B" PAF HI VIBRATION	185	cleaned fan bearings & wheel & balanced	yes	normal maintenance & made motor adjustment
10/21/99	00:35	10/21/99	01:30	S.SIDE COND.- PICK	265	picked half of condenser	yes	normal maintenance
10/21/99	01:31	10/21/99	05:00	"B" PAF HI VIBRATION	195	cleaned fan bearings & wheel & balanced	yes	normal maintenance & made motor adjustment
BIG BEND 4								
10/20/99	00:30	10/20/99	03:10	"C" MILL REPLACE LUBE OIL PUMP	75	replaced oil pump	yes	normal maintenance
10/20/99	16:50	10/21/99	02:29	LOW VACUUM	25	clean condenser	yes	normal maintenance
10/21/99	02:30	10/21/99	03:30	A/C COND. SECTIONS- PICK	275	picked half of condenser	yes	normal maintenance
10/21/99	03:50	10/21/99	05:00	A/C COND. SECTIONS- PICK	275	picked half of condenser	yes	normal maintenance
GANNON 1								
10/18/99	21:00	10/19/99	05:55	BLOW PLUGS IN CONDENSER	65	cleaned fouled condenser	yes	routine work effort
10/19/99	07:30	10/19/99	10:15	PICK CONDENSER	65	picked half of condenser	yes	normal maintenance
10/19/99	14:30	10/19/99	16:00	CONDENSER DIRTY	5	schedule condenser cleaning	yes	normal maintenance
10/19/99	19:00	10/19/99	23:30	CONDENSER DIRTY	25	schedule condenser cleaning	yes	normal maintenance
10/19/99	23:30	10/20/99	06:20	PICK CONDENSER	75	picked half of condenser	yes	normal maintenance
10/20/99	10:50	10/20/99	12:40	PICK CONDENSER	75	picked half of condenser	yes	normal maintenance
10/20/99	17:30	10/20/99	16:00	CONDENSER DIRTY	10	schedule condenser cleaning	yes	normal maintenance
10/20/99	18:00	10/21/99	00:10	CONDENSER DIRTY	25	schedule condenser cleaning	yes	normal maintenance

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10/21/99	00:10	10/21/99	03:45	CONDENSER DIRTY	35	schedule condenser cleaning	yes	normal maintenance
10/21/99	03:45	10/21/99	06:05	PICK CONDENSER	75	picked half of condenser	yes	normal maintenance
10/21/99	09:13	10/21/99	11:00	CONDENSER DIRTY	15	schedule condenser cleaning	yes	normal maintenance
10/21/99	11:00	10/21/99	13:15	PICK CONDENSER	75	picked half of condenser	yes	normal maintenance
10/21/99	16:16	10/21/99	17:00	CONDENSER DIRTY	5	schedule condenser cleaning	yes	normal maintenance
10/21/99	17:00	10/21/99	19:00	CONDENSER DIRTY	25	schedule condenser cleaning	yes	normal maintenance
10/21/99	19:00	10/21/99	22:15	CONDENSER DIRTY	35	schedule condenser cleaning	yes	normal maintenance
10/21/99	22:15	10/22/99	04:15	CONDENSER DIRTY	45	schedule condenser cleaning	yes	normal maintenance
GANNON 2								
10/19/99	01:15	10/19/99	01:45	PICK CONDENSER	55	picked half of condenser	yes	normal maintenance
10/19/99	13:32	10/19/99	16:35	2A COAL FEEDER PROBLEMS	15	no information available		
10/19/99	16:52	10/19/99	17:45	2A COAL FEEDER PROBLEMS	15	no information available		
10/20/99	03:30	10/20/99	05:30	PICK CONDENSER	55	picked half of condenser	yes	normal maintenance
GANNON 3								
10/19/99	00:30	10/20/99	06:00	3B COAL FEEDER BELT REPLACEMENT	25	replaced feeder belt	yes	inspect coal field reject equipment
GANNON 5								
10/18/99	18:05	10/22/99	01:15	HDR. RESTRICTION BOILER TUBES	40	reduced header to minimize tube failure	yes	investigate replacement at next major outage
HOOKERS PT 5								
10/19/99	10:53	10/19/99	21:54	F000REDUCED HEADER	15	limit header pressure to reduce tube failures	yes	replace tubes at next major outage
POLK 1								
10/19/99	11:00	10/19/99	13:00	LOWERED LOAD TO SUPPORT TRANSITION TO KENTUCKY 9	10	normal occurrence	yes	normal operation
10/19/99	13:00	10/20/99	09:45	LOWERED LOAD TO TRANSITION TO KENTUCKY 9	15	normal occurrence	yes	normal operation
From: 01/23/00 to: 01/25/00								
BIG BEND 1								
01/23/00	10:30	01/26/00	17:45	LEAK IN THE 2ND. PT. HTR.	28	repaired leak in weld at valve	yes	normal maintenance
BIG BEND 2								
01/23/00	23:20	01/24/00	04:55	S. SIDE CONDENSER-PICK	220	picked half of condenser	yes	normal maintenance
BIG BEND 3								
01/23/00	05:07	01/23/00	11:27	REDUCED LOAD DUE TO SUSPECTED TU	10	repaired tube leak at next outage	yes	reviewed tube failure root cause, inspected adjacent tubes
BIG BEND 4								

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01/25/00	07:00	01/25/00	11:00	"A" CONDENSATE PP. UNAVAILABLE- BINDING UP	65	replaced pump shaft and upper bushing	yes	reviewed pump reassembly procedure
GANNON 3								
01/21/00	08:00	01/23/00	23:14	BEARING WENT BAD,ON SPARE EXCITER	55	repair exciter motor	yes	reviewed bearing failure root cause
01/23/00	23:14	01/24/00	01:00	PICK CONDENSER	105	picked half of condenser	yes	normal maintenance
01/24/00	01:00	01/26/00	12:18	ON SPARE EXCITER	55	repair exciter motor	yes	reviewed bearing failure root cause
GANNON 4								
01/22/00	21:00	01/23/00	11:30	HEADER RESTRICTION DUE TO BOIL	5	reduce header to minimize tube failures	yes	maintain reduced header until repairs at planned outage
01/23/00	11:30	01/24/00	03:27	AIR RESTRICTION	15	wash air preheater at next outage	yes	inspect air preheater sootblower operation
01/24/00	03:27	01/24/00	04:05	4A CONDENSATE PUMP BREAKER WOULD'T CLOSE	100	repaired breaker	yes	review 480V breaker maintenance
01/24/00	04:05	01/25/00	09:45	HEADER RESTRICTION DUE TO BOIL	5	reduce header to minimize tube failures	yes	maintain reduced header until repairs at planned outage
01/25/00	09:45	01/25/00	17:10	HIGH OPACITY	15	clean flyash hoppers	yes	optimize precipitator, ash removal, boiler combustion systems
01/25/00	17:10	01/26/00	06:58	HIGH OPACITY	120	clean flyash hoppers	yes	optimize precipitator, ash removal, boiler combustion systems
GANNON 5								
01/24/00	20:10	01/25/00	23:45	HEADER RESTRICTION DUE TO BOIL	40	reduce header to minimize tube failures	yes	maintain reduced header until repairs at planned outage
01/25/00	23:45	01/26/00	00:25	PICK CONDENSER	135	picked half of condenser	yes	normal maintenance
POLK 1								
01/20/00	07:15	01/23/00	23:46	SEALING THE DOME AND SLURRY CON	5	repair dome seal at next outage	yes	review seal design for improvements
From:	07/05/00	to:	07/07/00					
BIG BEND 1								
07/04/00	11:00	07/05/00	01:40	H.P. HTRS OUT DUE TO LEAK IN 2N	18	repaired leak	yes	inspected all tubes, plugged failed tubes with explosive plugs
07/05/00	01:41	07/05/00	04:15	A2 COAL FEEDER CLEAN OUT CONVEY	185	repaired cleanout conveyor	yes	inspect for proper operation
07/05/00	04:16	07/05/00	23:14	HP HTRS OUT- LEAK IN 2ND. PT	18	repaired leak	yes	inspected all tubes, plugged failed tubes with explosive plugs
07/05/00	23:15	07/06/00	01:08	N.SIDE COND.- PICK	270	picked half of condenser	yes	normal maintenance
07/06/00	01:30	07/06/00	03:30	S.SIDE COND.- PICK	270	picked half of condenser	yes	normal maintenance
07/06/00	03:31	07/08/00	00:42	H.P. HTRS. OUT- LEAK IN 2ND. PT.	18	repaired leak	yes	inspected all tubes, plugged failed tubes with explosive plugs
BIG BEND 2								
07/05/00	09:00	07/06/00	02:18	LOW BTU FUEL	25	adjusted boiler combustion systems	yes	review fuel blend
07/06/00	02:20	07/06/00	03:49	A1 COAL FEEDER REPAIRS	185	repaired coal feeder	yes	perform root cause analysis
07/06/00	03:50	07/06/00	06:00	S.SIDE COND.- PICK	235	picked half of condenser	yes	normal maintenance
07/06/00	06:01	07/06/00	23:29	LOW BTU FUEL	25	adjusted boiler combustion systems	yes	review fuel blend
07/06/00	23:30	07/07/00	01:10	N.SIDE COND.- PICK	260	picked half of condenser	yes	normal maintenance

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Start Date	Start Time	End Date	End Time	Reason	Gross Derated MW	Remedy	Occurred Previously On Another Unit	Action Taken to Prevent Recurrence
07/07/00	01:11	07/07/00	04:15	"A" PAF- WHEEL CLEAN	185	cleaned fan wheel & balanced	yes	normal maintenance
07/07/00	04:16	07/08/00	18:59	LOW BTU FUEL	25	adjusted boiler combustion systems	yes	review fuel blend
BIG BEND 3								
07/04/00	21:11	07/05/00	04:15	A1 COAL FEEDER- WIRES FROM TERM	170	replaced coal feeder wires	yes	check condition of other feeder wiring
07/05/00	21:30	07/06/00	11:00	2ND PT HTR OUT TO REPLACE NORMA	40	replaced regulator valve	yes	normal maintenance
07/06/00	20:16	07/07/00	09:00	HIGH OPACITY	15	review precipitator systems	yes	optimize precipitator, ash removal, boiler combustion systems
BIG BEND 4								
07/04/00	23:15	07/05/00	06:00	A/C COND. SECTIONS- CLEAN W/BRU	270	schedule condenser cleaning	yes	normal maintenance
07/06/00	01:10	07/06/00	06:10	B/D COND. SECTIONS- CLEAN W/BRU	270	schedule condenser cleaning	yes	normal maintenance
GANNON 2								
07/07/00	03:00	07/07/00	05:10	PICK CONDENSER	65	picked half of condenser	yes	normal maintenance
GANNON 3								
07/07/00	00:10	07/07/00	02:40	PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
GANNON 4								
07/04/00	23:30	07/05/00	06:10	BLOW PLUGS IN CONDENSER	115	schedule condenser cleaning	yes	normal maintenance
GANNON 5								
07/05/00	06:15	07/06/00	14:00	REPAIR SA PULVERIZER TRUNNION GEAR	120	realigned trunnion gear	yes	inspect bearings and review alignment requirements
GANNON 6								
07/04/00	23:30	07/05/00	06:40	TO UNPLUG WEST END OF PULVERIZE	150	clean out pulverizer	yes	minimize wet coal condition
07/05/00	12:15	07/05/00	18:30	REPAIRING 881 COAL GATE	120	repaired coal gate valve	yes	normal maintenance
07/05/00	19:10	07/06/00	03:30	WEST END OF PULVERIZER PLUGGED	155	clean out pulverizer	yes	minimize wet coal condition
07/06/00	18:10	07/07/00	03:10	WEST END OF PULVERIZER PLUGGED	150	clean out pulverizer	yes	minimize wet coal condition
07/06/00	23:00	07/07/00	05:25	REPAIR PRECIPITATOR TOP HOUSE BLOWER	225	repair blower	yes	review preventive maintenance for blowers
HOOKERS PT 5								
07/05/00	12:00	07/05/00	21:45	REDUCED HEADER	15	reduce header to minimize tube failures	yes	maintain reduced header until repairs at planned outage
07/06/00	11:48	07/06/00	21:54	REDUCED HEADER	15	reduce header to minimize tube failures	yes	maintain reduced header until repairs at planned outage
From:	07/18/00	to:	07/21/00					
BIG BEND 1								
07/18/00	12:00	07/18/00	00:25	WET COAL	35	reviewed fuel blend	yes	review fuel deliveries vs. specifications
07/18/00	00:26	07/18/00	01:50	N.SIDE CCND.- PICK	235	picked half of condenser	yes	normal maintenance
07/18/00	02:10	07/18/00	04:00	S.SIDE COND.- PICK	235	picked half of condenser	yes	normal maintenance
07/19/00	00:00	07/19/00	04:25	HIGH OPACITY	25	review precipitator systems	yes	optimize precipitator, ash removal, boiler combustion systems

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Start Date	Start Time	End Date	End Time	Reason	Gross Derated MW	Remedy	Occurred Previously On Another Unit	Action Taken to Prevent Recurrence
07/19/00	04:26	07/20/00	15:00	LOW BTU FUEL	15	adjusted boiler combustion systems	yes	review fuel blend
07/21/00	09:00	07/21/00	23:14	HIGH OPACITY	36	power off rap flyash precipitator	yes	optimize precipitator, ash removal, boiler combustion systems
07/21/00	23:15	07/22/00	00:30	S.SIDE COND.- PICK	235	picked half of condenser	yes	normal maintenance
BIG BEND 2								
07/19/00	05:56	07/19/00	06:14	LOW VACUUM, ALSO SOME AIR IN LE	85	reduce load until condenser can be cleaned	yes	normal operation
07/19/00	06:15	07/19/00	09:30	N.SIDE COND.- PICK	235	picked half of condenser	yes	normal maintenance
07/19/00	09:55	07/19/00	11:05	S.SIDE COND.- PICK	235	picked half of condenser	yes	normal maintenance
07/19/00	19:10	07/19/00	21:05	C MILL OUT FOR REPAIR TO C2 COA	165	repaired coal feeder	yes	reviewed preventive maintenance program for coal feeder
07/20/00	00:00	07/20/00	14:30	HIGH OPACITY	15	review precipitator systems	yes	optimize precipitator, ash removal, boiler combustion systems
07/20/00	19:44	07/21/00	00:00	LOW VACUUM	25	reduce load until condenser can be cleaned	yes	normal operation
07/22/00	23:55	07/23/00	01:15	"B" MILL-REPLACE GEARBOX GUARD	165	replaced coupling guard	yes	reviewed coupling guard installation and design
07/23/00	01:16	07/23/00	23:24	WETLOW BTU FUEL	10	adjusted boiler combustion systems	yes	review fuel blend
07/23/00	23:25	07/24/00	02:35	N.SIDE COND PICK	265	picked half of condenser	yes	normal maintenance
07/24/00	03:00	07/24/00	04:25	S.SIDE COND PICK	265	picked half of condenser	yes	normal maintenance
07/24/00	04:26	07/24/00	05:00	"B" MILL-COAL LEAKS	165	patched coal leak temporarily	yes	performed permanent repair during next unit outage
07/24/00	05:01	07/24/00	10:20	WETLOW BTU FUEL	10	adjusted boiler combustion systems	yes	review fuel blend
07/24/00	23:30	07/25/00	04:40	"C" MILL-C2 FEEDER CLEANOUT CON	155	repaired cleanout conveyor	yes	inspect for proper operation
07/21/00	00:01	07/21/00	01:42	N.SIDE COND.- PICK	255	picked half of condenser	yes	normal maintenance
07/21/00	01:56	07/21/00	03:50	S.SIDE COND.- PICK	255	picked half of condenser	yes	normal maintenance
07/21/00	03:51	07/21/00	06:53	C MILL- COAL LEAK REPAIR	175	repaired leak	yes	inspect for repair/replace at planned outage
07/21/00	09:50	07/21/00	13:10	C MILL OUT DUE TO PLUGGAGE ON WEST END	135	clean out mill	yes	minimize wet coal flow to mill
07/21/00	14:30	07/21/00	21:00	HIGH GENERATOR AND OIL TEMPS- HIGH COOLING WTR TEMP	35	reduce load	yes	clean coolers at next planned outage
07/21/00	22:00	07/22/00	23:54	WETLOW BTU FUEL	10	adjusted boiler combustion systems	yes	review fuel blend
BIG BEND 3								
07/18/00	16:00	07/19/00	05:30	REDUCED HEADER DUE TO DRUM SAFE	35	reset safety valve setting after repair	yes	normal maintenance
07/19/00	19:00	07/20/00	11:34	REDUCED HEADER DUE TO DRUM SAFE	10	reset safety valve setting after repair	yes	normal maintenance
07/20/00	11:35	07/21/00	00:00	MAX. SUPERHEAT DIFF. PRESSURE	60	operate sootblowers to clean superheater	yes	reviewed sootblower operation
07/21/00	00:01	07/21/00	06:10	LOW LOAD FOR BOILER DESLAGGING	295	normal maintenance	yes	normal operation
BIG BEND 4								
07/18/00	12:05	07/19/00	00:04	LOW VACUUM	20	reduce load until condenser can be cleaned	yes	normal operation

Start Date	Start Time	End Date	End Time	Reason	Gross Derated MW	Remedy	Occurred Previously On Another Unit	Action Taken to Prevent Recurrence
07/19/00	00:04	07/19/00	05:55	A/C COND. SECTIONS- CLEAN W/BRU	260	schedule condenser cleaning	yes	normal maintenance
07/20/00	00:15	07/20/00	05:30	B/D COND. SECTIONS- CLEAN W/BRU	270	schedule condenser cleaning	yes	normal maintenance
GANNON 1								
07/17/00	19:00	07/18/00	09:30	REPLACE 1C COAL FEEDER DRAG CHA	55	replaced drag chain	yes	expected maintenance - reviewed maintenance schedule
07/17/00	22:30	07/18/00	02:30	PICK CONDENSER	80	picked half of condenser	yes	normal maintenance
07/18/00	15:15	07/19/00	04:10	DIRTY CONDENSER (LOW VACUUM)	20	reduce load until condenser can be cleaned	yes	normal operation
07/19/00	04:10	07/19/00	06:00	PICK CONDENSER	80	picked half of condenser	yes	normal maintenance
07/20/00	03:10	07/20/00	04:50	PICK CONDENSER	80	picked half of condenser	yes	normal maintenance
07/21/00	03:00	07/21/00	05:10	PICK CONDENSER	80	picked half of condenser	yes	normal maintenance
GANNON 2								
07/18/00	01:15	07/18/00	03:35	PICK CONDENSER	75	picked half of condenser	yes	normal maintenance
07/21/00	09:04	07/21/00	13:58	SLAG TANK BUILD UP	65	removed cyclone from service	yes	see below
GANNON 3								
07/19/00	03:40	07/19/00	05:58	PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
07/19/00	23:45	07/20/00	01:46	PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
GANNON 5								
07/21/00	23:45	07/22/00	00:30	PICK CONDENSER	165	picked half of condenser	yes	normal maintenance
GANNON 6								
07/18/00	18:30	07/18/00	22:47	LOW BTU COAL	15	reviewed fuel blend	yes	review fuel deliveries vs. specifications
From: 10/04/00 to: 10/06/00								
BIG BEND 1								
10/03/00	11:07	10/04/00	00:45	LOW STEAM TEMPS	20	continued start up until boiler slagged up	yes	normal event following unit startup
10/04/00	04:03	10/04/00	07:49	LOW STEAM TEMPS	20	continued start up until boiler slagged up	yes	normal event following unit startup
10/06/00	02:58	10/07/00	07:39	LOW STEAM TEMPS	20	continued start up until boiler slagged up	yes	normal event following unit startup
BIG BEND 2								
10/03/00	23:00	10/04/00	04:55	N.SIDE COND CLEANED W/BRUSHES	225	cleaned half of condenser	yes	normal maintenance
10/04/00	04:58	10/04/00	23:19	FURN PRESS	55	operate at max furnace pressure & operate APH sootblowers	yes	washed APH baskets
10/04/00	23:20	10/05/00	01:45	S.SIDE COND PICK	265	picked half of condenser	yes	normal maintenance
10/05/00	02:00	10/05/00	04:48	N.SIDE COND PICK	265	picked half of condenser	yes	normal maintenance
10/05/00	04:49	10/05/00	23:24	FURN PRESS	55	operate at max furnace pressure & operate APH sootblowers	yes	washed APH baskets
10/05/00	23:25	10/06/00	04:20	S.SIDE COND CLEANED W/BRUSHES	245	cleaned half of condenser	yes	normal maintenance

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Start Date	Start Time	End Date	End Time	Reason	Gross Derated MW	Remedy	Occurred Previously On Another Unit	Action Taken to Prevent Recurrence
10/06/00	04:21	10/06/00	23:48	FURN PRESS	55	operate at max furnace pressure & operate APH sootblowers	yes	washed APH baskets
10/06/00	23:47	10/07/00	05:35	N.SIDE COND CLEANED W/BRUSHES	245	cleaned half of condenser	yes	normal maintenance
BIG BEND 3								
09/30/00	09:01	10/06/00	11:09	2ND. PT. HTR. OUT	45	isolated heater from service, operated at max load with heater out	yes	repaired leaking tubes next planned outage
10/06/00	11:10	10/06/00	14:50	"B" MLL-REPAIR B1 FEEDER	180	repaired feeder	yes	preventative maintenance
10/06/00	14:51	10/06/00	00:26	MAX AIR FLOW-"B" FAN LOW SPEED ONLY	55	operated at max air flow with fan in low speed	yes	reshimmed the motor feet
BIG BEND 4								
10/02/00	05:28	10/05/00	00:39	"C" BOILER CIRC PP MOTOR HIGH TEMP	43			
10/05/00	04:51	10/07/00	15:14	"C" BOILER CIRC PUMP UNAVAILABLE	75	ran at max load with 3 circ pumps until cooler repaired	yes	sent pump to shop for repair next planned outage
GANNON 1								
10/05/00	17:45	10/05/00	20:00	DIRTY CONDENSER (LOW VACUUM)	40	cleaned half of condenser	yes	normal maintenance
10/05/00	20:00	10/05/00	22:40	DIRTY CONDENSER (LOW VACUUM)	20	cleaned half of condenser	yes	normal maintenance
10/05/00	23:00	10/06/00	01:45	PICK CONDENSER	80	cleaned half of condenser	yes	normal maintenance
GANNON 3								
10/04/00	02:05	10/04/00	04:45	PICK CONDENSER	105	picked half of condenser	yes	normal maintenance
10/06/00	06:40	10/06/00	07:55	3A B.F.P. WOULDN'T START (ELEC. SHOP)	85	check electrical circuit	yes	replaced circuit breaker
10/06/00	10:00	10/06/00	12:50	DIRTY CONDENSER (LOW VACUUM)	20	cleaned half of condenser	yes	normal maintenance
10/06/00	12:50	10/06/00	14:05	DIRTY CONDENSER (LOW VACUUM)	25	cleaned half of condenser	yes	normal maintenance
10/06/00	14:05	10/06/00	23:30	PICK CONDENSER DIRTY CONDENSER (LOW VACUUM)	65	cleaned half of condenser	yes	normal maintenance
10/06/00	23:30	10/07/00	03:30	PICK CONDENSER	105	cleaned half of condenser	yes	normal maintenance
GANNON 4								
10/06/00	03:00	10/06/00	04:45	PICK CONDENSER	120	cleaned half of condenser	yes	normal maintenance
10/06/00	21:00	10/18/00	06:45	4B B.F.P. MOTOR WENT TO GROUND (FIRE WATER)	70	repaired leaking fire water line	no	repaired motor
GANNON 5								
10/06/00	09:20	10/06/00	13:40	I-BEAM LAYING ACROSS COOLING TOWER FANS	150	jib crane fell off mount, removed from tower	no	repaired crane & mounts
HOOKERS PT 2								
10/04/00	08:28	10/04/00	14:17	GAS DUCT LEAKS	17	patched hot spots on #5 boiler	yes	repair duct work during planned outage
10/05/00	11:05	10/05/00	21:37	GAS DUCT LEAK	17	patched hot spots on #5 boiler	yes	repair duct work during planned outage
10/06/00	10:45	10/06/00	21:42	GAS DUCT LEAKS	22	patched hot spots on #5 boiler	yes	repair duct work during planned outage
HOOKERS PT 3								
10/04/00	07:49	10/04/00	14:09	GAS DUCT LEAKS	17	patched hot spots on #5 boiler	yes	repair duct work during planned outage

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Start Date	Start Time	End Date	End Time	Reason	Gross Derated MW	Remedy	Occurred Previously On Another Unit	Action Taken to Prevent Recurrence
10/05/00	10:25	10/05/00	21:35	GAS DUCT LEAK	17	patched hot spots on #5 boiler	yes	repair duct work during planned outage
10/06/00	06:15	10/06/00	21:34	GAS DUCT LEAKS	22	patched hot spots on #5 boiler	yes	repair duct work during planned outage
From: 04/02/01 to: 04/04/01								
BIG BEND 2								
04/02/01	00:25	04/02/01	04:00	"B" MILL-COAL LEAK REPAIRS	165	patched coal pipe elbow	yes	replace coal pipe elbow at next outage
04/03/01	10:30	04/08/01	01:25	OPACITY	35	inspect/clean hoppers & electrical system	yes	optimize precipitator, ash removal, boiler combustion systems
BIG BEND 3								
03/31/01	20:01	04/03/01	17:29	MAX BOOSTER FAN CAPACITY	50	replaced motor on failed booster fan	yes	rewound motor stator winding
04/03/01	17:30	04/04/01	03:00	OPACITY	110	inspect/clean hoppers with vacuum truck	yes	optimize precipitator, ash removal, boiler combustion systems
04/04/01	09:30	04/06/01	23:35	MAX BOOSTER FAN CAPACITY	50	replaced motor on failed booster fan	yes	rewound motor stator winding
GANNON 1								
04/04/01	00:25	04/04/01	03:10	PICK CONDENSER	80	picked half of condenser	yes	normal maintenance
GANNON 2								
04/02/01	18:47	04/02/01	19:50	BAD BUILD UP IN SLAG TANK	65	reduced load to clear slag tank buildup	yes	review coal blend and flux material
GANNON 3								
04/01/01	23:15	04/02/01	04:45	PICK CONDENSER	95	picked half of condenser	yes	normal maintenance
04/02/01	15:10	04/02/01	16:10	BAD BUILD UP IN SLAG TANKS	95	reduced load to clear slag tank buildup	yes	review coal blend and flux material
04/03/01	15:15	04/03/01	21:25	BAD BUILD UP IN SLAG TANKS	90	reduced load to clear slag tank buildup	yes	review coal blend and flux material
GANNON 5								
04/01/01	21:20	04/02/01	09:55	INBOARD BEARING FAILURE	160	replaced pulverizer gear reducer bearing	yes	reviewed oil analysis reports/performed root cause analysis
04/03/01	12:40	04/03/01	17:00	HEADER RESTRICTION DUE TO BOIL	135	reduced load until water chemistry improved	yes	normal process after unit startup

Note: Polk 1 data available beginning in May 1999. Polk 2 began operation in June 2000.

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Tampa Electric Company

Calculation of Subsidy to Wholesale Customers for 1999-2001

Line	Date	Hour Ending	Retail Fuel Cost		Wholesale Fuel Cost	Purchased Power Expense	Total System Fuel & Purchased Power	Wholesale Load MW	Firm Retail Load MW	Non-Firm Retail Load MW	Total Load MW	Wholesale Share of Fuel and Purchased Power Expense	Subsidy
			\$/MWh	\$									
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1	1/6/99	8	20.40	60,404	2,085	59,363	121,853	128	2,944	17	3,089	5,049	2,964
2	4/3/99	15	20.87	44,453	4,289	26,146	74,887	235	2,013	117	2,365	7,441	3,152
3		16	20.87	45,643	4,544	16,555	66,742	249	2,090	97	2,436	6,822	2,278
4		17	20.87	45,914	4,581	20,388	70,883	251	2,083	117	2,451	7,259	2,678
5	4/5/99	18	20.87	48,168	4,836	10,053	63,057	265	2,273	35	2,573	6,494	1,658
6		19	20.87	46,624	4,563	23,567	74,753	250	2,230	4	2,484	7,523	2,961
4	4/6/99	15	20.87	47,417	4,782	62,816	115,015	262	2,179	93	2,534	11,892	7,110
8		16	20.87	48,147	4,818	49,899	102,864	264	2,244	63	2,571	10,562	5,744
9		17	20.87	49,963	4,836	39,510	94,309	265	2,332	62	2,659	9,399	4,563
10		18	20.87	50,171	4,836	56,272	111,280	265	2,340	64	2,669	11,049	6,213
11	4/15/99	18	20.87	47,730	4,800	11,191	63,720	263	2,149	138	2,550	6,572	1,772
12	4/23/99	15	20.87	47,312	4,855	64,314	116,481	266	2,236	31	2,533	12,232	7,378
13		16	20.87	49,274	4,855	56,020	110,149	266	2,359	2	2,627	11,153	6,299
14		17	20.87	50,610	4,855	38,636	94,100	266	2,422	3	2,691	9,302	4,447
15		18	20.87	49,879	4,836	37,785	92,501	265	2,388	2	2,655	9,233	4,396
16		19	20.87	47,709	4,818	35,758	88,285	264	2,285	1	2,550	9,140	4,322
17		20	20.87	44,954	4,818	30,101	79,873	264	2,152	2	2,418	8,721	3,903
18		21	20.87	44,704	4,818	19,187	68,708	264	2,128	14	2,406	7,539	2,721

Tampa Electric Company

Calculation of Subsidy to Wholesale Customers for 1999-2001

Line	Date	Hour Ending	Retail		Wholesale Fuel Cost \$	Purchased Power Expense \$	Total System Fuel & Purchased Power \$	Wholesale Load MW	Firm Retail Load MW	Non-Firm Retail Load MW	Total Load MW	Wholesale Share of Fuel and Purchased Power Expense \$	Subsidy \$
			Fuel Cost										
			\$/MWh	\$									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
19	4/24/99	13	20.87	43,326	4,782	164,556	212,664	262	2,004	72	2,338	23,831	19,050
20		14	20.87	43,848	4,544	196,578	244,970	249	2,100	1	2,350	25,956	21,412
21		15	20.87	46,144	4,544	131,368	182,056	249	2,210	1	2,460	18,428	13,883
22		16	20.87	47,918	4,544	45,101	97,563	249	2,296	0	2,545	9,545	5,001
23		17	20.87	49,065	4,563	39,383	93,011	250	2,351	0	2,601	8,940	4,377
24		18	20.87	48,043	4,563	39,504	92,109	250	2,302	0	2,552	9,023	4,461
25		19	20.87	46,269	4,563	47,929	98,760	250	2,217	0	2,467	10,008	5,446
26		20	20.87	43,931	4,544	29,501	77,976	249	2,095	10	2,354	8,248	3,704
27	4/26/99	16	20.87	53,824	4,873	41,985	100,681	267	2,552	27	2,846	9,445	4,573
28		17	20.87	54,450	4,873	40,820	100,143	267	2,608	1	2,876	9,297	4,424
29		18	20.87	53,198	4,873	40,639	98,709	267	2,549	0	2,816	9,359	4,486
30	5/6/99	17	20.58	54,969	5,025	25,347	85,341	267	2,566	105	2,938	7,756	2,731
31		18	20.58	54,516	5,025	33,352	92,894	267	2,555	94	2,916	8,506	3,481
32	7/29/99	14	21.23	60,314	5,991	108,805	175,111	315	2,783	58	3,156	17,478	11,487
33		15	21.23	60,866	5,991	131,061	197,919	315	2,818	49	3,182	19,593	13,602
34		16	21.23	61,822	5,991	63,209	131,022	315	2,867	45	3,227	12,790	6,798
35		17	21.23	61,418	6,010	731,685	799,114	316	2,860	33	3,209	78,691	72,681
36		18	21.23	61,588	6,010	463,659	531,258	316	2,869	32	3,217	52,184	46,174
37		19	21.23	59,784	5,991	66,786	132,561	315	2,787	29	3,131	13,337	7,345
38		20	21.23	59,593	5,972	85,287	150,852	314	2,724	83	3,121	15,177	9,205

Tampa Electric Company

Calculation of Subsidy to Wholesale Customers for 1999-2001

Line	Date (1)	Hour Ending (2)	Retail Fuel Cost		Wholesale Fuel Cost \$ (5)	Purchased Power Expense \$ (6)	Total System Fuel & Purchased Power \$ (7)	Wholesale Load MW (8)	Firm Retail Load MW (9)	Non-Firm Retail Load MW (10)	Total Load MW (11)	Wholesale Share of Fuel and Purchased Power Expense \$ (12)	Subsidy \$ (13)
			\$/MWh (3)	\$ (4)									
39	7/30/99	17	21.23	57,639	5,972	45,411	109,023	314	2,660	55	3,029	11,302	5,330
40		18	21.23	58,383	5,972	42,712	107,067	314	2,684	66	3,064	10,972	5,000
41		19	21.23	55,899	5,953	41,150	103,002	313	2,602	31	2,946	10,943	4,990
42	7/31/99	16	21.23	62,416	5,991	72,393	140,800	315	2,770	170	3,255	13,626	7,635
43		17	21.23	54,476	5,991	83,816	144,283	315	2,559	7	2,881	15,776	9,784
44		18	21.23	53,266	5,991	89,913	149,170	315	2,482	27	2,824	16,639	10,648
45	8/2/99	15	21.29	64,125	7,072	161,830	233,027	332	2,921	91	3,344	23,135	16,064
46		16	21.29	63,274	7,072	154,144	224,490	332	2,967	5	3,304	22,558	15,486
47	9/4/99	16	21.48	58,941	6,031	21,713	86,686	265	2,567	177	3,009	7,634	1,603
48		17	21.48	59,457	6,031	14,531	80,019	265	2,608	160	3,033	6,991	960
49		18	21.48	58,812	6,031	13,817	78,661	265	2,566	172	3,003	6,941	910
50		19	21.48	57,395	6,031	9,952	73,378	265	2,495	177	2,937	6,621	589
51	9/28/99	16	21.48	60,488	6,077	27,076	93,641	267	2,656	160	3,083	8,110	2,033
52		17	21.48	60,187	6,077	31,923	98,187	267	2,694	108	3,069	8,542	2,465
53	10/20/99	16	21.98	54,510	5,402	55,548	115,460	266	2,470	10	2,746	11,184	5,782
54		17	21.98	54,488	5,402	105,642	165,533	266	2,476	3	2,745	16,041	10,638
55	1/24/00	12	20.72	35,846	3,850	29,964	69,659	161	1,559	171	1,891	5,931	2,081
56	7/6/00	17	21.96	65,221	18,888	20,524	104,633	761	2,927	43	3,731	21,342	2,454

Tampa Electric Company

Calculation of Subsidy to Wholesale Customers for 1999-2001

Line	Date (1)	Hour Ending (2)	Retail Fuel Cost		Wholesale Fuel Cost \$ (5)	Purchased Power Expense \$ (6)	Total System Fuel & Purchased Power \$ (7)	Wholesale Load MW (8)	Firm Retail Load MW (9)	Non-Firm Retail Load MW (10)	Total Load MW (11)	Wholesale Share of Fuel and Purchased Power Expense \$ (12)	Subsidy \$ (13)
			\$/MWh (3)	\$ (4)									
57	7/19/00	17	21.96	69,306	11,566	59,521	140,393	466	3,100	56	3,622	18,063	6,497
58	7/20/00	14	21.96	66,495	11,541	80,294	158,330	465	2,902	126	3,493	21,077	9,536
59		15	21.96	68,559	11,566	171,211	251,336	466	3,098	24	3,588	32,643	21,077
60		16	21.96	66,846	11,591	194,866	273,303	467	3,040	4	3,511	36,352	24,761
61		17	21.96	66,385	11,591	193,223	271,199	467	3,021	2	3,490	36,289	24,698
62	10/5/00	17	21.20	61,247	10,211	223,923	295,381	450	2,875	14	3,339	39,809	29,598
63		18	21.20	60,229	10,188	228,896	299,313	449	2,836	5	3,290	40,849	30,661
64	Total							18,929 MWh					\$590,160

\$/MWh Subsidy = (Total Subsidy \$ / Total Wholesale MWh Sold)

\$31.18 per MWh

Sources: Monthly Schedules A-1's, January through December 1999
Monthly Schedules A-1's, January through December 2000
TECO Response to FIPUG's 1st Set of Interrogatories, Interrogatory No. 11
TECO Confidential Response to FIPUG's 3rd Set of Interrogatories, Interrogatory No. 43; No. 51

Tampa Electric Company

Calculation of Wholesale Subsidy for 1999-2001

<u>Line</u>	<u>Description</u>	<u>1999-2001 MWh</u>	<u>1999-2001 Subsidy \$/MWh</u>	<u>Total Subsidy \$</u>
	(1)	(2)	(3)	(4)
1	Total Separated Sales	1,447,532	\$31.18	\$45,130,500
2	Total Wholesale Sales	3,477,443	\$31.18	\$108,418,151

Sources: Monthly Schedules A-1's, January through December 1999
 Monthly Schedules A-1's, January through December 2000
 J. Denise Jordan Testimony, Actual/Estimated True-up,
 January 2001 through December 2001, Sch. E6

Tampa Electric Company

Equivalent Forced Outage Rates (EFOR)

<u>Line</u>	<u>Unit</u> (1)	Generator Maximum Nameplate (MW) (2)	EFOR NERC GADS 1995-1999 (3)	<u>Historical Actual EFOR</u>						
				<u>1995</u> (4)	<u>1996</u> (5)	<u>1997</u> (6)	<u>1998</u> (7)	<u>1999</u> (8)	<u>2000</u> (9)	<u>2001</u> (10)
1	Big Bend 1	445.5	8.18%	7.10%	11.80%	9.00%	11.40%	11.80%	12.60%	14.60%
2	Big Bend 2	445.5	8.18%	10.50%	7.80%	9.10%	10.60%	10.20%	7.70%	16.30%
3	Big Bend 3	445.5	8.18%	13.20%	10.60%	11.70%	16.20%	19.50%	11.50%	15.00%
4	Big Bend 4	486.0	8.18%	5.00%	3.50%	5.20%	8.00%	8.60%	7.50%	3.20%
5	Gannon 1	125.0	6.41%	2.50%	9.90%	20.00%	16.80%	9.30%	12.60%	14.50%
6	Gannon 2	125.0	6.41%	13.50%	25.40%	14.70%	25.10%	4.30%	20.90%	26.10%
7	Gannon 3	179.5	6.41%	4.60%	22.60%	8.40%	12.10%	9.80%	8.10%	23.40%
8	Gannon 4	187.5	6.41%	2.00%	14.40%	18.10%	15.10%	22.70%	10.50%	34.00%
9	Gannon 5	239.4	6.38%	7.50%	13.50%	23.50%	15.50%	17.30%	33.00%	35.70%
10	Gannon 6	445.0	8.18%	5.00%	5.10%	14.50%	18.80%	19.50%	62.50%	14.50%

Sources: TECO Response to FIPUG's 3rd Set of Interrogatories, Interrogatory No. 34
 NERC Generating Unit Statistical Brochure, 1995-1999, October 2000, Generating Availability Data System
 TECO 10-Year Site Plan, January 2000 to December 2009

Tampa Electric Company

Equivalent Availability Factors

<u>Line</u>	<u>Unit</u> (1)	Generator Maximum Nameplate (MW) (2)	Actual EAF 2000 (3)	NERC GADS Data 1995-1999 (4)
1	Big Bend 1	445.5	75.80%	81.49%
2	Big Bend 2	445.5	85.60%	81.49%
3	Big Bend 3	445.5	75.00%	81.49%
4	Big Bend 4	486	87.80%	81.49%
5	Gannon 5	239	55.60%	84.52%
6	Gannon 6	445	33.20%	81.49%

Sources: TECO Original Sheet No. 8.461.00A, Page 6 of 28 in
 Testimony of Brian Buckley
 NERC Generating Unit Statistical Brochure, 1995-1999,
 October 2000, Generating Availability Data System

Tampa Electric Company

Comparison of Power Bought to Serve FMPA Contract Versus Price of Power Bought for Retail Customers

<u>Line</u>	<u>Date</u> (1)	Price for Power Bought to Serve FMPA (\$/MWh) (2)	Maximum Market Price Paid for Power to Serve Retail (\$/MWh) (3)
1	January 6, 1999	\$27.35	\$400
2	August 2, 1999	\$27.35	\$500

Source: TECO Response to FIPUG's 3rd Set of Interrogatories, Interrogatory No. 51