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ORIGINAL

DEC-7 PM 3:07
RECORDS AND REPORTING

December 7, 1998

HAND DELIVERED

Ms. Blanca S. Bayo, Director
Division of Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: Conservation Cost Recovery Clause
EPSC Docket No. 980002-EG

Dear Ms. Bayo:

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

1. Petition of Tampa Electric Company.
2. Prepared Direct Testimony of Howard T. Bryant and Exhibit (HTB-2) containing schedules supporting Conservation Costs for the period April 1, 1999 - December 31, 1999.

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

Thank you for your assistance in connection with this matter.

Sincerely,

James D. Beasley
James D. Beasley

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

ACK _____
 AFA *Hendri* _____
 APP _____
 CAF _____
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Petition *Testimony*
 DOCUMENT NUMBER-DATE DOCUMENT NUMBER-DATE
 13767 DEC-7 88 13768 DEC-7 88
 RECORDS AND REPORTING RECORDS AND REPORTING

1 **BEFORE THE PUBLIC SERVICE COMMISSION**

2 **PREPARED DIRECT TESTIMONY**

3 **OF**

4 **HOWARD T. BRYANT**

5
6 **Q.** Please state your name and address.

7
8 **A.** My name is Howard Bryant. My business address is 702 North
9 Franklin Street in Tampa, Florida 33602.

10
11 **Q.** Mr. Bryant, what is the purpose of your testimony?

12
13 **A.** The purpose of my testimony is to support the Company's
14 actual conservation costs incurred during the period
15 October 1, 1997 through and including March 31, 1998, the
16 actual and projected period of April 1, 1998 to March 31,
17 1999, and the nine month projected period of April 1, 1998
18 through December 31, 1999. Also, I will support the level
19 of charges (benefits) for the interruptible Customers
20 allocated to the period April 1, 1999 through December 31,
21 1999. The balance of costs will be charged to the firm
22 Customers on a per kilowatt-hour basis in accordance with
23 Docket No. 930759-EG, Order No. PSC-93-1845-FOF-EG dated
24 December 29, 1993.

25

DOCUMENT NUMBER-DATE

13768 DEC-7 98

FPSC-RECORDS/REPORTING

- 1 Q. What is the basis of this request for expenses to be based
2 on different charges for interruptible and firm Customers?
3
- 4 A. Tampa Electric Company believes that our conservation and
5 load management programs do not accrue capacity benefits to
6 interruptible Customers. This position has been supported
7 by this Commission in Dockets 900002-EG through 980002-EG.
8 The Company estimates the cumulative effects of its
9 conservation and load management programs will allow the
10 interruptible Customers to have lower fuel costs
11 (\$0.17/MWH) due to the reductions in marginal fuel costs.
12
- 13 Q. How were those benefits calculated?
14
- 15 A. To determine fuel savings effects, we have calculated a
16 "what if there had been no conservation programs." The
17 results indicate that the avoided gigawatt-hours have
18 actually reduced average fuel costs due to the fact that
19 higher priced marginal fuels would be burned if the
20 gigawatt-hours had not been saved.
21
- 22 The attached analysis, Exhibit No. (HTB-1), Conservation
23 Costs Projected, portrays costs and benefits.
24
- 25 Q. Doesn't charging different amounts for firm and

1 interruptible Customers conflict with the Florida Energy
2 Efficiency and Conservation Act?

3

4 A. No. The act requires the utilities, through the guidance
5 of the Florida Public Service Commission, to cost
6 effectively reduce peak demand, energy consumption and the
7 use of scarce resources, particularly petroleum fuels. It
8 does not require all Customers to pay the utilities'
9 conservation costs no matter if they receive the same level
10 of benefits or not. The relationships between costs and
11 benefits received are specifically the determination of the
12 Commission.

13

14 Q. Please describe the conservation program costs projected by
15 Tampa Electric Company during the period October 1, 1997
16 through March 31, 1998.

17

18 A. For the period October 1, 1997 through March 31, 1998 Tampa
19 Electric Company projected conservation program costs to be
20 \$10,250,032. The Commission authorized collections to
21 recover these expenses in Docket No. 970002-EG, Order No.
22 PSC-97-0291-FOF-EG, issued March 14, 1997.

23

24 Q. Mr. Bryant, for the period October 1, 1997 through March
25 31, 1998, what were Tampa Electric's conservation costs and

1 what was recovered through the Conservation Cost Recovery
2 Clause?

3

4 **A.** For the period October 1, 1997 through March 31, 1998 Tampa
5 Electric Company incurred actual net conservation costs of
6 \$9,092,300, plus a beginning true-up over recovery of
7 \$1,067,112 for a total of \$8,025,188. The amount collected
8 in the Conservation Cost Recovery Clause was \$8,969,441.

9

10 **Q.** What was the true-up amount?

11

12 **A.** The true-up amount for the period October 1, 1997 through
13 March 31, 1998 was an over recovery of \$975,858. These
14 calculations are detailed in Exhibit No. (HTB-1),
15 Conservation Cost Recovery True Up, Pages 1 through 10.

16

17 **Q.** Please describe the conservation program costs incurred and
18 projected to be incurred by Tampa Electric Company during
19 the period April 1, 1998 through March 31, 1999.

20

21 **A.** The actual costs incurred by Tampa Electric Company through
22 September 30, 1998 and estimated for October 1, 1998
23 through March 31, 1999 are \$20,095,522.

24

25 For the period, Tampa Electric anticipates an over recovery

1 in the conservation cost recovery of \$2,262,323 which
2 includes the previous period true-up and interest. A
3 summary of these costs and estimates are fully detailed in
4 Exhibit No. (HTB-2), Conservation Costs Projected, Pages 1
5 through 31.
6

7 Q. Mr. Bryant, for the period April 1, 1999 through and
8 including December 31, 1999, what are Tampa Electric's
9 estimates of its conservation costs and cost recovery
10 factor?
11

12 A. The company has estimated that the total conservation costs
13 (less program revenues) during that period will be
14 \$15,498,880 plus true-up. Including true-up estimates and
15 the interruptible sales contribution at 0.017 cents/KWH,
16 the cost recovery factors for firm retail rate classes will
17 be 0.132 cents/KWH for Residential, 0.118 cents/KWH for
18 General Service Non-Demand and Temporary Service (GS, TS),
19 0.104 cents/KWH for General Service Demand and Electric
20 Vehicle-Experimental (GSD, EV-X)-Secondary, 0.103 cents/KWH
21 for General Service Demand and Electric Vehicle-
22 Experimental (GSD, EV-X)-Primary, 0.098 cents/KWH for
23 General Service Large Demand and Firm Standby (GSLD, SBF)-
24 Secondary, 0.097 cents/KWH for General Service Large Demand
25 and Firm Standby (GSLD, SBF)-Primary, 0.096 cents/KWH for

1 General Service Large Demand and Firm Standby (GSLD, SBF) -
2 Subtransmission and 0.059 cents/KWH for Lighting (SL, OL).
3 Exhibit No. (HTB-2), Conservation Costs Projected, pages 3
4 through 8 contain the Commission prescribed forms which
5 detail these estimates.

6
7 **Q.** Mr. Bryant, has Tampa Electric Company complied with the
8 ECCR cost allocation methodology stated in Docket No.
9 930759-EG, Order No. PSC-93-1845-EG?

10

11 **A.** Yes, it has.

12

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

14

15 **A.** Yes it does.

16

17

18

19

20

21

22

CONSERVATION COSTS
PROJECTED

INDEX

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**Fuel Cost Impact of Conservation and Load Management Programs
On Interruptible Customers
April 1, 1999 through December 31, 1999**

| Month | Fuel Costs With Conservation and Load Management | | | Fuel Costs Without Conservation and Load Management | | | Fuel Benefits | | |
|---------------------|--|--------------|-----------------|---|--------------|-----------------|----------------------|--------------------|-----------------------|
| | (1) (\$000) | (2) (GWH) | (3) (\$/MWH) | (4) (\$000) | (5) (GWH) | (6) (\$/MWH) | (4) - (1) (\$000) | (5) - (2) (GWH) | (6) - (3) (\$/MWH) |
| April | 23,484 | 1,271.7 | 18.47 | 23,782 | 1,284.4 | 18.52 | 298 | 13 | 0.05 |
| May | 27,827 | 1,508.9 | 18.44 | 28,365 | 1,525.6 | 18.59 | 538 | 17 | 0.15 |
| June | 28,675 | 1,597.8 | 17.95 | 29,395 | 1,616.8 | 18.18 | 720 | 19 | 0.23 |
| July | 29,817 | 1,670.8 | 17.85 | 30,624 | 1,691.6 | 18.10 | 807 | 21 | 0.26 |
| August | 30,756 | 1,689.8 | 18.20 | 31,558 | 1,711.4 | 18.44 | 801 | 22 | 0.24 |
| September | 28,542 | 1,607.6 | 17.75 | 29,148 | 1,627.2 | 17.91 | 606 | 20 | 0.16 |
| October | 26,820 | 1,422.5 | 18.85 | 27,154 | 1,436.2 | 18.91 | 334 | 14 | 0.05 |
| November | 23,079 | 1,247.2 | 18.51 | 23,642 | 1,267.2 | 18.66 | 563 | 20 | 0.15 |
| December | 22,697 | 1,336.2 | 16.99 | 23,474 | 1,368.7 | 17.15 | 777 | 32 | 0.16 |
| Period | | | | | | | | | |
| Apr 1999 - Dec 1999 | 241,699 | 13,353 | 18.10 | 247,142 | 13,529 | 18.27 | 5,443 | 177 | 0.17 |

1

TAMPA ELECTRIC COMPANY
 CALCULATION OF ENERGY & DEMAND ALLOCATION % BY RATE CLASS
 APRIL 1998 THROUGH MARCH 1999

| | (1) AVG 12CP Load Factor at Meter (%) | (2) Projected Sales at Meter (kWh) | (3) Projected AVG 12 CP at Meter (kW) | (4) Demand Loss Expansion Factor | (5) Energy Loss Expansion Factor | (6) Projected Sales at Generation (kWh) | (7) Projected AVG 12 CP at Generation (kW) | (8) Percentage of Sales at Generation (%) | (9) Percentage of Demand at Generation (%) | (10) 12 CP & 1/13 Allocation Factor (%) |
|--------------|---|--|---|--|--|---|--|---|--|---|
| RS | 52.72205% | 5,492,446 | 1189 | 1.061628 | 1.062297 | 5,834,609 | 1,262 | 49.68% | 59.61% | 58.85% |
| GS, TS | 63.02283% | 743,855 | 135 | 1.061896 | 1.062297 | 790,195 | 143 | 6.73% | 6.75% | 6.75% |
| GSD | 78.23957% | 3,351,444 | 489 | 1.060330 | 1.061240 | 3,556,686 | 519 | 30.29% | 24.52% | 24.96% |
| GSLD, SBF | 86.12625% | 1,365,574 | 181 | 1.045147 | 1.045213 | 1,427,316 | 189 | 12.16% | 8.93% | 9.18% |
| SL/OL | 319.52368% | 125,546 | 4 | 1.058824 | 1.062295 | 133,367 | 4 | 1.14% | 0.19% | 0.26% |
| TOTAL | | 11,078,865 | 1,998 | | | 11,742,173 | 2,117 | 100.00% | 100.00% | 100.00% |

- (1) AVG 12 CP load factor based on actual 1995 calendar data.
 (2) Projected kwh sales for the period April 1998 through March 1999.
 (3) Calculated: Col (2) / (8760 x Col (1)). 8760 hours = hours in twelve months.
 (4) Based on 1995 demand losses.
 (5) Based on 1995 energy losses.
 (6) Col (2) x Col (5).
 (7) Col (3) x Col (4).
 (8) Col (6) / total for Col (6).
 (9) Col(7) / total for Col(7).
 (10) Col (8) x 1/13 + Col (9) x 12/13

TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Summary of Cost Recovery Clause Calculation
For Months April 1999 through December 1999

1. Total Incremental Cost (C-2, Page 1, Line 18) 15,488,880
 2. Demand Related Incremental Costs 9,967,602
 3. Energy Related Incremental Costs 5,531,278
 4. Interruptible Sales (@\$0.17 per MWH) (219,881)
 5. Net Energy Related Incremental Costs (Line 3 - Line 4) 5,311,587

RETAIL BY RATE CLASS

| | RS | GS,TS | GS,EV,X | GS,LD,SBF | SL,OL | Total |
|--|-------------|-----------|-----------|-----------|----------|-------------|
| 6. Demand Allocation Percentage | 58.85% | 6.75% | 24.96% | 9.18% | 0.26% | 100.00% |
| 7. Demand Related Incremental Costs (Total cost prorated based on demand allocation % above) | 5,865,934 | 672,813 | 2,487,913 | 915,026 | 25,916 | 9,967,602 |
| 8. Demand Portion of End of Period True Up (O)U Recovery Shown on Schedule C-3, Pg 5, Line 11 (Allocation of D & E is based on the forecast period cost.) | (852,081) | (87,732) | (361,393) | (132,916) | (3,785) | (1,447,867) |
| 9. Total Demand Related Incremental Costs | 5,013,853 | 575,081 | 2,126,520 | 782,110 | 22,151 | 8,519,715 |
| 10. Net Energy Related Incremental Costs | 2,638,801 | 357,470 | 1,608,883 | 645,890 | 80,552 | 5,311,596 |
| 11. Energy Portion of End of Period True Up (O)U Recovery Shown on Schedule C-3, Pg 5, Line 11 (Allocation of D & E is based on the forecast period cost.) | (404,812) | (54,812) | (246,692) | (99,035) | (9,284) | (814,430) |
| 12. Total Net Energy Related Incremental Costs | 2,234,189 | 302,658 | 1,362,190 | 546,855 | 81,268 | 4,497,166 |
| 13. Total Incremental Costs (Line 7 + 10) | 8,504,735 | 1,030,293 | 4,096,796 | 1,560,918 | 86,468 | 15,279,198 |
| 14. Total True Up (Over)/Under Recovery (Line 8 + 11) (Schedule C-3, Pg 5, Line 11) | (1,256,693) | (152,544) | (608,096) | (231,951) | (13,048) | (2,262,323) |
| 15. Total (Line 13 + 14) | 7,248,042 | 877,739 | 3,488,710 | 1,328,965 | 73,419 | 13,016,875 |
| 16. Firm Retail MWH Sales | 5,482,446 | 743,855 | 3,351,444 | 1,365,574 | 125,546 | 11,078,865 |
| 17. Cost per KWH - Demand (Line 8/Line 16) - Secondary - Primary - Subtransmission | 0.09129 | 0.07731 | 0.08347 | 0.05757 | 0.01764 | |
| 18. Cost per KWH - Energy (Line 12/Line 16) - Secondary - Primary - Subtransmission | 0.04068 | 0.04069 | 0.04066 | 0.04025 | 0.04084 | |
| 19. Cost per KWH - Demand & Energy (Line 17 + Line 18) - Secondary - Primary - Subtransmission | 0.13196 | 0.11800 | 0.10413 | 0.09782 | 0.05948 | |
| 20. Revenue Tax Expansion Factor | 1.00072 | 1.00072 | 1.00072 | 1.00072 | 1.00072 | 1.00072 |
| 21. Adjustment Factor Adjusted for Taxes - Secondary - Primary - Subtransmission | 0.1321 | 0.1181 | 0.1042 | 0.0929 | 0.0585 | |
| 22. Conservation Adjustment Factor (cents/KWH) - Secondary - Primary - Subtransmission | 0.132 | 0.118 | 0.104 | 0.098 | 0.059 | |

(ROUNDED TO NEAREST .001 PER KWH)

TAMPA ELECTRIC COMPANY
Conservation Program Costs

Estimated for Months April 1999 through December 1999

ESTIMATED

| Program Name | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| 1. Heating and Cooling (E) | 173,943 | 231,359 | 335,103 | 205,974 | 189,624 | 188,618 | 189,624 | 178,618 | 188,650 | 1,881,513 |
| 2. Prime Time (D) | 1,163,523 | 1,134,248 | 969,796 | 966,894 | 975,138 | 979,114 | 983,764 | 988,979 | 978,262 | 9,139,718 |
| 3. Energy Audits (E) | 125,064 | 131,670 | 131,664 | 132,570 | 131,670 | 131,664 | 132,370 | 124,164 | 128,289 | 1,169,125 |
| 4. Cogeneration (E) | 37,864 | 37,943 | 37,903 | 37,982 | 38,061 | 38,022 | 38,101 | 38,061 | 38,190 | 342,127 |
| 5. Ceiling Insulation (E) | 41,812 | 43,012 | 41,812 | 41,812 | 41,812 | 41,812 | 41,812 | 41,812 | 43,866 | 379,562 |
| 6. C & I Load Mngt (D) | 5,337 | 5,306 | 5,277 | 5,276 | 5,283 | 5,289 | 5,296 | 3,803 | 3,854 | 44,721 |
| 7. Commercial Lighting (E) | 40,202 | 41,702 | 40,202 | 40,202 | 40,202 | 40,202 | 40,202 | 40,202 | 42,211 | 365,327 |
| 8. Standby Generator (D) | 72,145 | 72,645 | 72,145 | 72,145 | 72,145 | 72,145 | 72,145 | 72,145 | 72,200 | 649,860 |
| 9. Conservation Value (E) | 1,298 | 1,598 | 5,048 | 1,298 | 1,298 | 5,048 | 1,298 | 1,298 | 5,048 | 23,232 |
| 10. Duct Repair (E) | 137,211 | 137,212 | 137,211 | 137,212 | 137,212 | 137,211 | 137,212 | 137,211 | 139,270 | 1,236,962 |
| 11. Builder Awareness (E) | 128 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 |
| 12. DSM Commercial R&D (D&E) | 9,000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9,000 |
| (50% D, 50% E) | | | | | | | | | | |
| 13. Common Expenses (D&E) | 28,620 | 28,620 | 28,620 | 28,620 | 28,620 | 28,620 | 28,620 | 28,620 | 28,645 | 257,605 |
| (50% D, 50% E) | | | | | | | | | | |
| 14. Total | 1,836,147 | 1,865,315 | 1,804,781 | 1,669,985 | 1,661,065 | 1,667,745 | 1,670,444 | 1,654,913 | 1,668,485 | 15,498,880 |
| 15. Less: Included in P&E Rates | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16. Recoverable Conserv. Expenses | 1,836,147 | 1,865,315 | 1,804,781 | 1,669,985 | 1,661,065 | 1,667,745 | 1,670,444 | 1,654,913 | 1,668,485 | 15,498,880 |
| Summary of Demand & Energy | | | | | | | | | | |
| Energy | 576,332 | 638,806 | 743,253 | 611,360 | 594,189 | 596,887 | 594,929 | 575,676 | 599,846 | 5,531,278 |
| Demand | 1,259,815 | 1,226,509 | 1,061,528 | 1,058,625 | 1,066,876 | 1,070,858 | 1,075,515 | 1,079,237 | 1,068,639 | 9,967,602 |
| Total Recoverable Conserv. Expenses | 1,836,147 | 1,865,315 | 1,804,781 | 1,669,985 | 1,661,065 | 1,667,745 | 1,670,444 | 1,654,913 | 1,668,485 | 15,498,880 |

TAMPA ELECTRIC COMPANY
Conservation Program Costs

Estimated for Months April 1999 through December 1999

| Program Name | (A) Capital Investment | (B) Payroll & Benefits | (C) Materials & Supplies | (D) Outside Services | (E) Advertising | (F) Incentives | (G) Vehicles | (H) Other | (I) Program Revenues | (J) Total |
|--|------------------------------|------------------------------|--------------------------------|----------------------------|--------------------|-------------------|-----------------|--------------|----------------------------|--------------|
| 1. Heating and Cooling (E) | 0 | 58,791 | 0 | 6,002 | 119,000 | 1,697,270 | 450 | 0 | 0 | 1,881,513 |
| 2. Prime Time (D) | 843,489 | 717,130 | 179,255 | 96,753 | 10,800 | 7,236,553 | 50,425 | 5,313 | 0 | 9,139,718 |
| 3. Energy Audits (E) | 0 | 715,804 | 2,500 | 294,749 | 97,600 | 0 | 43,038 | 15,434 | 0 | 1,169,125 |
| 4. Cogeneration (E) | 0 | 328,333 | 1,876 | 2,341 | 0 | 0 | 9,577 | 0 | 0 | 342,127 |
| 5. Ceiling Insulation (E) | 0 | 61,576 | 0 | 6,002 | 39,200 | 270,000 | 2,784 | 0 | 0 | 379,562 |
| 6. C & I Load Mngt (D) | 1,524 | 8,993 | 2,925 | 6,902 | 0 | 24,000 | 377 | 0 | 0 | 44,721 |
| 7. Commerical Lighting (E) | 0 | 50,396 | 0 | 3,001 | 39,500 | 270,000 | 2,430 | 0 | 0 | 365,327 |
| 8. Standby Generator (D) | 0 | 67,549 | 18,754 | 22,500 | 500 | 540,000 | 557 | 0 | 0 | 649,860 |
| 9. Conservation Value (E) | 0 | 432 | 0 | 0 | 300 | 22,500 | 0 | 0 | 0 | 23,232 |
| 10. Duct Repair (E) | 0 | 187,486 | 900 | 180,000 | 308,000 | 540,000 | 13,448 | 7,128 | 0 | 1,236,962 |
| 11. Builder Awareness (E) | 0 | 128 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 |
| 12. DSM Commercial R&D (D&E) (50% D, 50% E) | 0 | 0 | 0 | 9,000 | 0 | 0 | 0 | 0 | 0 | 9,000 |
| 13. Common Expenses (D&E) (50% D, 50% E) | 0 | 237,166 | 0 | 0 | 0 | 0 | 450 | 19,969 | 0 | 257,605 |
| 14. Total All Programs | 845,013 | 2,433,804 | 206,210 | 627,250 | 614,900 | 10,600,323 | 123,536 | 47,844 | 0 | 15,498,880 |
| Summary of Demand & Energy | | | | | | | | | | |
| Energy | 0 | 1,521,539 | 5,276 | 496,595 | 603,600 | 2,799,770 | 71,952 | 32,546 | 0 | 5,531,278 |
| Demand | 845,013 | 912,265 | 200,934 | 130,655 | 11,300 | 7,800,553 | 51,584 | 15,298 | 0 | 9,967,602 |
| Total All Programs | 845,013 | 2,433,804 | 206,210 | 627,250 | 614,900 | 10,600,323 | 123,536 | 47,844 | 0 | 15,498,880 |

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
Estimated for Months April 1999 through December 1999

PRIME TIME

| | Beginning of Period | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|-----------------------------------|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1. Investment | | 80,000 | 80,000 | 80,000 | 80,000 | 80,000 | 80,000 | 80,000 | 80,000 | 80,000 | 720,000 |
| 2. Retirements | | 75,812 | 134,986 | 68,659 | 86,272 | 77,472 | 55,078 | 50,903 | 34,219 | 44,139 | 627,540 |
| 3. Depreciation Base | | 4,343,397 | 4,288,411 | 4,299,752 | 4,293,480 | 4,296,008 | 4,320,930 | 4,350,027 | 4,395,808 | 4,431,669 | |
| 4. Depreciation Expense | | 72,355 | 71,932 | 71,568 | 71,610 | 71,579 | 71,808 | 72,258 | 72,882 | 73,562 | 649,554 |
| 5. Cumulative Investment | 4,339,209 | 4,343,397 | 4,288,411 | 4,299,752 | 4,293,480 | 4,296,008 | 4,320,930 | 4,350,027 | 4,395,808 | 4,431,669 | 4,431,669 |
| 6. Less: Accumulated Depreciation | 2,150,939 | 2,147,482 | 2,084,428 | 2,087,337 | 2,072,675 | 2,066,782 | 2,083,512 | 2,104,867 | 2,143,530 | 2,172,950 | 2,172,953 |
| 7. Net Investment | 2,188,270 | 2,195,915 | 2,203,983 | 2,212,415 | 2,220,805 | 2,229,226 | 2,237,418 | 2,245,160 | 2,252,278 | 2,258,716 | 2,258,716 |
| 8. Average Investment | | 2,192,093 | 2,199,949 | 2,208,199 | 2,216,610 | 2,225,016 | 2,233,322 | 2,241,289 | 2,248,719 | 2,255,497 | |
| 9. Return on Average Investment | | 13,043 | 13,090 | 13,139 | 13,189 | 13,239 | 13,288 | 13,336 | 13,380 | 13,420 | 119,124 |
| 10. Return Requirements | | 21,234 | 21,311 | 21,390 | 21,472 | 21,553 | 21,633 | 21,711 | 21,783 | 21,848 | 193,935 |
| 11. Total Depreciation and Return | | 93,589 | 93,243 | 92,958 | 93,082 | 93,132 | 93,441 | 93,969 | 94,665 | 95,410 | 843,489 |

NOTES:

Depreciation expense is calculated using a useful life of 60 months.
Return on Average Investment is calculated using a monthly rate of 0.59500% .
Return requirements are calculated using an income tax multiplier of 1.6280016.

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return

Estimated for Months April 1999 through December 1999

C & I LOAD MANAGEMENT

| | Beginning of Period | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total |
|-----------------------------------|------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1. Investment | | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 2,700 |
| 2. Retirements | | 1140 | 3172 | 978 | 0 | 0 | 0 | 0 | 0 | 0 | 5,290 |
| 3. Depreciation Base | | 10,732 | 7,860 | 7,182 | 7,482 | 7,782 | 8,082 | 8,382 | 8,682 | 8,982 | |
| 4. Depreciation Expense | | 186 | 155 | 125 | 122 | 127 | 132 | 137 | 142 | 147 | 1,273 |
| 5. Cumulative Investment | 11,572 | 10,732 | 7,860 | 7,182 | 7,482 | 7,782 | 8,082 | 8,382 | 8,682 | 8,982 | 8,982 |
| 6. Less: Accumulated Depreciation | 9,356 | 8,402 | 5,385 | 4,532 | 4,654 | 4,781 | 4,913 | 5,050 | 5,192 | 5,339 | 5,339 |
| 7. Net Investment | 2,216 | 2,330 | 2,475 | 2,650 | 2,828 | 3,001 | 3,169 | 3,332 | 3,490 | 3,643 | 3,643 |
| 8. Average Investment | | 2,273 | 2,403 | 2,563 | 2,739 | 2,915 | 3,085 | 3,251 | 3,411 | 3,567 | |
| 9. Return on Average Investment | | 14 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 154 |
| 10. Return Requirements | | 23 | 23 | 24 | 26 | 28 | 29 | 31 | 33 | 34 | 251 |
| Total Depreciation and Return | | 209 | 171 | 149 | 148 | 155 | 161 | 168 | 175 | 181 | 1,524 |

NOTES:

Depreciation expense is calculated using a useful life of 60 months.

Return on Average Investment is calculated using a monthly rate of 0.59500%.

Return requirements are calculated using an income tax multiplier of 1.6280016.

TAMPA ELECTRIC COMPANY
Conservation Program Costs

Actual for Months April 1998 through September 1998
Projected for Months October 1998 through March 1999

| Program Name | Capital Investment | Payroll & Benefits | Materials & Supplies | Outside Services | Advertising | Incentives | Vehicle | Other | Program Revenues | Total |
|---------------------------|--------------------|--------------------|----------------------|------------------|-------------|------------|---------|--------|------------------|------------|
| 1. Heating & Cooling | | | | | | | | | | |
| 2. Actual | 0 | 28,629 | 0 | 7,438 | 127,473 | 1,499,900 | 268 | 0 | 0 | 1,663,708 |
| 3. Projected | 0 | 46,403 | 500 | 2,298 | 75,000 | 1,022,179 | 1,675 | 0 | 0 | 1,145,081 |
| 4. Total | 0 | 69,032 | 500 | 9,736 | 202,473 | 2,525,079 | 1,943 | 0 | 0 | 2,808,759 |
| 5. Prime Time | | | | | | | | | | |
| 6. Actual | 566,917 | 412,020 | 100,851 | 65,157 | 6,227 | 4,391,022 | 31,547 | 20,335 | 0 | 5,614,078 |
| 7. Projected | 566,449 | 474,256 | 131,510 | 65,003 | 7,200 | 5,138,777 | 33,725 | 11,359 | 0 | 6,428,279 |
| 8. Total | 1,153,366 | 886,276 | 232,361 | 130,160 | 13,427 | 9,529,799 | 65,272 | 31,694 | 0 | 12,042,355 |
| 9. Energy Audits | | | | | | | | | | |
| 10. Actual | 0 | 335,110 | 1,171 | 156,181 | 6,403 | 0 | 30,658 | 2,223 | 0 | 531,846 |
| 11. Projected | 0 | 428,092 | 2,964 | 188,331 | 38,400 | 0 | 30,340 | 7,542 | 0 | 675,969 |
| 12. Total | 0 | 763,202 | 4,135 | 324,712 | 44,803 | 0 | 60,998 | 9,865 | 0 | 1,207,715 |
| 13. Cogeneration | | | | | | | | | | |
| 14. Actual | 0 | 121,985 | 0 | 0 | 0 | 0 | 4,078 | 0 | 0 | 126,063 |
| 15. Projected | 0 | 199,819 | 624 | 780 | 0 | 0 | 3,818 | 0 | 0 | 205,029 |
| 16. Total | 0 | 321,791 | 624 | 780 | 0 | 0 | 7,896 | 0 | 0 | 331,091 |
| 17. Ceiling Insulation | | | | | | | | | | |
| 18. Actual | 0 | 32,510 | 113 | 354 | 0 | 495,150 | 1,600 | 0 | 0 | 529,727 |
| 19. Projected | 0 | 33,227 | 0 | 2,553 | 12,000 | 150,150 | 3,199 | 0 | 0 | 201,129 |
| 20. Total | 0 | 65,737 | 113 | 2,907 | 12,000 | 645,300 | 4,799 | 0 | 0 | 730,856 |
| 21. C & I Load Management | | | | | | | | | | |
| 22. Actual | 1,724 | 2,017 | 0 | 0 | 0 | 14,107 | 454 | 0 | 0 | 18,302 |
| 23. Projected | 1,174 | 7,622 | 1,275 | 2,598 | 0 | 14,751 | 648 | 0 | 0 | 28,068 |
| 24. Total | 2,898 | 9,639 | 1,275 | 2,598 | 0 | 28,858 | 1,102 | 0 | 0 | 48,370 |
| 25. Commercial Lighting | | | | | | | | | | |
| 26. Actual | 0 | 3,874 | 0 | 0 | 0 | 263,265 | 363 | 0 | 0 | 267,502 |
| 27. Projected | 0 | 29,244 | 0 | 999 | 12,000 | 165,000 | 1,410 | 0 | 0 | 208,653 |
| 28. Total | 0 | 33,118 | 0 | 999 | 12,000 | 428,265 | 1,773 | 0 | 0 | 476,155 |
| 29. Standby Generator | | | | | | | | | | |
| 30. Actual | 0 | 19,017 | 2,172 | 315 | 0 | 269,927 | 879 | 0 | 0 | 292,310 |
| 31. Projected | 0 | 35,512 | 7,246 | 9,750 | 0 | 330,000 | 458 | 0 | 0 | 383,468 |
| 32. Total | 0 | 54,529 | 9,918 | 10,065 | 0 | 599,927 | 1,337 | 0 | 0 | 675,778 |
| 33. Conservation Value | | | | | | | | | | |
| 34. Actual | 0 | 1,426 | 0 | 0 | 0 | 3,360 | 22 | 0 | 0 | 4,808 |
| 35. Projected | 0 | 3,013 | 0 | 0 | 0 | 15,000 | 30 | 0 | 0 | 18,043 |
| 36. Total | 0 | 4,439 | 0 | 0 | 0 | 18,360 | 52 | 0 | 0 | 22,851 |
| 37. Duct Repair | | | | | | | | | | |
| 38. Actual | 0 | 66,782 | 3,080 | 114,738 | 8,637 | 198,566 | 9,044 | 1,130 | 0 | 398,877 |
| 39. Projected | 0 | 117,649 | 5,800 | 87,175 | 117,600 | 360,000 | 10,267 | 2,878 | 0 | 711,167 |
| 40. Total | 0 | 184,431 | 8,880 | 211,913 | 128,237 | 558,566 | 19,311 | 3,808 | 0 | 1,111,144 |
| 41. Bulb Awareness | | | | | | | | | | |
| 42. Actual | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 400 | 0 | 400 |
| 43. Projected | 0 | 2,395 | 0 | 0 | 0 | 0 | 120 | 1,500 | 0 | 4,015 |
| 44. Total | 0 | 2,395 | 0 | 0 | 0 | 0 | 120 | 1,900 | 0 | 4,415 |
| 45. DSM Commercial R&D | | | | | | | | | | |
| 46. Actual | 0 | 8,577 | 154,207 | 100,968 | 0 | 0 | 334 | 0 | 0 | 264,086 |
| 47. Projected | 0 | 7,173 | 0 | 42,000 | 0 | 0 | 300 | 0 | 0 | 49,473 |
| 48. Total | 0 | 15,750 | 154,207 | 142,968 | 0 | 0 | 634 | 0 | 0 | 313,559 |
| 49. Natural Gas R&D | | | | | | | | | | |
| 50. Actual | 0 | 65 | 0 | 78,987 | 0 | 0 | 0 | 0 | 0 | 79,052 |
| 51. Projected | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52. Total | 0 | 65 | 0 | 78,987 | 0 | 0 | 0 | 0 | 0 | 79,052 |
| 53. Common Expenses | | | | | | | | | | |
| 54. Actual | 0 | 78,136 | 510 | 596 | 0 | 0 | 1,456 | 0 | 0 | 80,698 |
| 55. Projected | 0 | 157,191 | 0 | 0 | 0 | 0 | 881 | 6,654 | 0 | 164,726 |
| 56. Total | 0 | 235,327 | 510 | 596 | 0 | 0 | 2,337 | 6,654 | 0 | 245,424 |
| 57. Total All Programs | 1,156,264 | 2,645,731 | 412,523 | 915,421 | 410,940 | 14,332,150 | 167,574 | 53,919 | 0 | 20,092,522 |

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
Actual for Months April 1998 through September 1998
Projected for Months October 1998 through March 1999

PRIME TIME

| | Beginning of Period | April | May | June | July | August | September | October | November | December | January | February | March | Total |
|-----------------------------------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1. Investment | | \$76,163 | \$86,849 | \$88,418 | \$43,139 | \$71,762 | \$46,458 | 80,000 | 80,000 | 80,000 | 80,000 | 80,000 | 80,000 | 892,789 |
| 2. Retirements | | 85,559 | 79,803 | 104,842 | 79,993 | 117,545 | 92,013 | 88,255 | 103,356 | 181,495 | 74,182 | 93,602 | 90,215 | 1,192,960 |
| 3. Depreciation Base | | 4,629,864 | 4,638,930 | 4,620,506 | 4,583,652 | 4,537,869 | 4,482,314 | 4,484,059 | 4,460,703 | 4,357,208 | 4,363,026 | 4,349,424 | 4,339,209 | |
| 4. Depreciation Expense | | 77,245 | 77,224 | 77,145 | 76,701 | 76,013 | 75,252 | 74,803 | 74,540 | 73,463 | 72,869 | 72,804 | 72,605 | 900,064 |
| 5. Cumulative Investment | 4,639,360 | 4,629,864 | 4,638,930 | 4,620,506 | 4,583,652 | 4,537,869 | 4,482,314 | 4,484,059 | 4,460,703 | 4,357,208 | 4,363,026 | 4,349,424 | 4,339,209 | 4,339,209 |
| 6. Less: Accumulated Depreciation | 2,443,815 | 2,435,501 | 2,432,822 | 2,405,125 | 2,401,833 | 2,380,301 | 2,343,540 | 2,330,088 | 2,301,272 | 2,191,260 | 2,189,747 | 2,168,749 | 2,150,939 | 2,150,939 |
| 7. Net Investment | 2,195,565 | 2,194,483 | 2,204,108 | 2,215,381 | 2,181,819 | 2,177,568 | 2,148,774 | 2,153,971 | 2,159,431 | 2,165,948 | 2,173,279 | 2,180,675 | 2,188,270 | 2,188,270 |
| 8. Average Investment | | 2,195,024 | 2,199,296 | 2,209,745 | 2,198,800 | 2,179,884 | 2,163,171 | 2,151,373 | 2,156,701 | 2,162,690 | 2,169,814 | 2,176,977 | 2,184,473 | |
| 9. Return on Average Investment | | 13,060 | 13,086 | 13,148 | 13,082 | 12,969 | 12,871 | 12,801 | 12,832 | 12,868 | 12,909 | 12,953 | 12,998 | 155,577 |
| 10. Return Requirements | | 21,262 | 21,304 | 21,405 | 21,298 | 21,114 | 20,954 | 20,840 | 20,891 | 20,949 | 21,019 | 21,088 | 21,161 | 253,282 |
| 11. Total Depreciation and Return | | 98,507 | 98,528 | 98,550 | 97,999 | 97,127 | 96,208 | 95,643 | 95,431 | 94,432 | 93,885 | 93,692 | 93,560 | 1,153,360 |

NOTES:

Depreciation expense is calculated using a useful life of 60 months.
Return on Average Investment is calculated using a monthly rate of 0.595007%.
Return requirements are calculated using an income tax multiplier of 1.6280018.

TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
Actual for Months April 1998 through September 1998
Projected for Months October 1998 through March 1999

C & I LOAD MANAGEMENT

| | Beginning of Period | April | May | June | July | August | September | October | November | December | January | February | March | Total |
|-----------------------------------|------------------------|--------|--------|--------|--------|--------|-----------|---------|----------|----------|---------|----------|--------|--------|
| 1. Investment | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | 350 | 350 | 350 | 300 | 300 | 300 | 1,950 |
| 2. Retirements | | 1453 | 171 | 9694 | 0 | 2784 | 91 | 0 | 0 | 0 | 85 | 0 | 0 | 14,278 |
| 3. Depreciation Base | | 22,447 | 22,278 | 12,582 | 12,582 | 9,798 | 9,707 | 10,057 | 10,407 | 10,757 | 10,872 | 11,272 | 11,572 | |
| 4. Depreciation Expense | | 380 | 323 | 290 | 210 | 187 | 163 | 165 | 171 | 178 | 181 | 185 | 190 | 2,872 |
| 5. Cumulative Investment | 23,800 | 22,447 | 22,278 | 12,582 | 12,582 | 9,798 | 9,707 | 10,057 | 10,407 | 10,757 | 10,872 | 11,272 | 11,572 | 11,572 |
| 6. Less: Accumulated Depreciation | 20,957 | 19,890 | 20,082 | 10,688 | 10,898 | 8,301 | 8,373 | 8,538 | 8,709 | 8,885 | 8,981 | 9,106 | 9,356 | 9,356 |
| 7. Net Investment | 2,843 | 2,557 | 2,196 | 1,894 | 1,684 | 1,487 | 1,334 | 1,519 | 1,698 | 1,872 | 1,891 | 2,166 | 2,216 | 2,216 |
| 8. Average Investment | | 2,750 | 2,371 | 2,039 | 1,789 | 1,591 | 1,416 | 1,427 | 1,609 | 1,785 | 1,832 | 2,049 | 2,161 | |
| 9. Return on Average Investment | | 16 | 14 | 12 | 11 | 9 | 8 | 8 | 10 | 11 | 11 | 12 | 13 | 135 |
| 10. Return Requirements | | 26 | 23 | 20 | 18 | 15 | 13 | 13 | 18 | 18 | 18 | 20 | 21 | 221 |
| 11. Total Depreciation and Return | | 412 | 398 | 310 | 228 | 202 | 178 | 178 | 187 | 184 | 189 | 205 | 211 | 2,898 |

NOTES:
Depreciation expense is calculated using a useful life of 60 months.
Return on Average Investment is calculated using a monthly rate of 0.595000%.
Return requirements are calculated using an income tax multiplier of 1.6280016.

TAMPA ELECTRIC COMPANY
Conservation Program Costs

Actual for Months April 1998 through September 1998
Projected for Months October 1998 through March 1999

| Program Name | April Actual | May Actual | June Actual | July Actual | August Actual | September Actual | October Projected | November Projected | December Projected | January Projected | February Projected | March Projected | Grand Total |
|---------------------------------------|--------------|------------|-------------|-------------|---------------|------------------|-------------------|--------------------|--------------------|-------------------|--------------------|-----------------|-------------|
| 1. Heating and Cooling | 245,063 | 260,285 | 239,502 | 350,470 | 370,841 | 197,547 | 276,142 | 276,142 | 254,134 | 108,499 | 119,185 | 110,949 | 2,808,759 |
| 2. Prime Time | 892,990 | 933,117 | 963,356 | 935,782 | 945,264 | 913,567 | 994,244 | 997,660 | 964,287 | 1,122,882 | 1,140,862 | 1,188,344 | 12,042,355 |
| 3. Energy Audits | 74,349 | 84,671 | 86,453 | 93,519 | 98,794 | 83,760 | 103,378 | 97,291 | 97,325 | 129,351 | 124,156 | 124,170 | 1,207,715 |
| 4. Cogeneration | 22,128 | 22,650 | 19,290 | 21,824 | 23,366 | 16,705 | 30,385 | 30,385 | 30,390 | 38,101 | 37,864 | 37,903 | 331,091 |
| 5. Ceiling Insulation | 74,824 | 36,171 | 90,827 | 138,081 | 85,545 | 94,299 | 24,902 | 24,869 | 24,902 | 42,812 | 41,812 | 41,812 | 730,858 |
| 6. C & I Load Management | 3,827 | 3,830 | 3,828 | 2,657 | 2,033 | 2,227 | 5,501 | 5,510 | 5,558 | 3,827 | 3,833 | 3,839 | 46,370 |
| 7. Commercial Lighting | 76,904 | 33,537 | 10,830 | 22,559 | 68,403 | 35,266 | 29,349 | 29,349 | 29,349 | 40,202 | 40,202 | 40,202 | 476,155 |
| 8. Standby Generator | 51,408 | 55,984 | 42,855 | 44,840 | 45,804 | 51,519 | 55,244 | 55,244 | 55,268 | 73,420 | 72,145 | 72,145 | 875,776 |
| 9. Conservation Value | 544 | 563 | 0 | 1,705 | 0 | 1,998 | 1,451 | 1,451 | 5,201 | 3,594 | 1,296 | 5,048 | 22,851 |
| 10. Duct Repair | 51,413 | 78,967 | 67,732 | 59,350 | 78,331 | 64,184 | 99,217 | 98,717 | 99,102 | 138,712 | 137,207 | 137,212 | 1,111,144 |
| 11. Builder Awareness | 0 | 0 | 400 | 0 | 0 | 0 | 1,207 | 1,207 | 1,217 | 128 | 128 | 128 | 4,415 |
| 12. DGM Commercial R&D | 248 | 935 | 2,837 | 3,233 | 150,792 | 105,841 | 7,491 | 7,491 | 7,491 | 9,000 | 9,000 | 9,000 | 313,559 |
| 13. Natural Gas R&D | 0 | 65 | 34,713 | 0 | 44,274 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 79,052 |
| 14. Common Expenses | 11,829 | 15,743 | 3,320 | 8,293 | 14,489 | 17,224 | 20,287 | 20,287 | 20,287 | 28,820 | 28,820 | 28,820 | 245,424 |
| 15. Total | 1,505,127 | 1,536,818 | 1,605,243 | 1,683,193 | 1,957,936 | 1,584,238 | 1,654,996 | 1,651,823 | 1,620,518 | 1,740,148 | 1,756,312 | 1,799,372 | 20,095,522 |
| 16. Less: Included in Base Rates | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17. Recoverable Conservation Expenses | 1,505,127 | 1,536,818 | 1,605,243 | 1,683,193 | 1,957,936 | 1,584,238 | 1,654,996 | 1,651,823 | 1,620,518 | 1,740,148 | 1,756,312 | 1,799,372 | 20,095,522 |

EXHIBIT NO. _____
DOCKET NO. 980002-EG
TAMPA ELECTRIC COMPANY
(HTB-2)
SCHEDULE C-3
PAGE 4 of 6

TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of True-up

Actual for Months April 1998 through September 1998
Projected for Months October 1998 through March 1999

| B. CONSERVATION REVENUES | April | May | June | July | August | September | October | November | December | January | February | March | Grand |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|
| | Actual | Actual | Actual | Actual | Actual | Actual | Projected | Projected | Projected | Projected | Projected | Projected | Total |
| 1. Residential Conservation Audit Fees (A) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2. Conservation Adjustment Revenues * (C-4, page 1 of 1) | 1,514,829 | 1,602,798 | 2,067,298 | 2,209,845 | 2,072,634 | 2,111,148 | 1,818,088 | 1,537,438 | 1,563,488 | 1,723,043 | 1,533,578 | 1,512,562 | 21,268,727 |
| 3. Total Revenues | 1,514,829 | 1,602,798 | 2,067,298 | 2,209,845 | 2,072,634 | 2,111,148 | 1,818,088 | 1,537,438 | 1,563,488 | 1,723,043 | 1,533,578 | 1,512,562 | 21,268,727 |
| 4. Prior Period True-up | 162,643 | 162,643 | 162,643 | 162,643 | 162,643 | 162,643 | 454,365 | 454,365 | 454,365 | 454,365 | 454,365 | 454,365 | 3,702,048 |
| 5. Conservation Revenue Applicable to Period | 1,677,472 | 1,765,441 | 2,229,941 | 2,372,488 | 2,235,277 | 2,273,791 | 2,272,453 | 1,991,803 | 2,017,853 | 2,177,408 | 1,987,941 | 1,966,917 | 24,968,765 |
| 6. Conservation Expenses (C-3, Page 4, Line 14) | 1,505,127 | 1,536,818 | 1,805,243 | 1,663,193 | 1,967,838 | 1,564,238 | 1,654,998 | 1,661,623 | 1,620,518 | 1,740,148 | 1,736,312 | 1,799,372 | 20,096,522 |
| 7. True-up This Period (Line 5 - Line 6) | 172,345 | 228,623 | 624,698 | 689,295 | 277,341 | 689,553 | 617,457 | 340,180 | 397,337 | 437,260 | 231,629 | 167,545 | 4,872,243 |
| 8. Interest Provision This Period (C-3, Page 6, Line 10) | 4,531 | 4,706 | 5,981 | 8,333 | 9,800 | 10,964 | 12,242 | 12,459 | 12,138 | 12,029 | 11,508 | 10,491 | 115,250 |
| 9. True-up & Interest Provision Beginning of Period | 975,858 | 990,091 | 1,060,777 | 1,528,813 | 2,063,798 | 2,188,298 | 2,726,190 | 2,901,524 | 2,799,798 | 2,754,908 | 2,746,832 | 2,538,652 | 875,858 |
| 10. Prior Period True-up Collects (Refunded) | (162,643) | (162,643) | (162,643) | (162,643) | (162,643) | (162,643) | (454,365) | (454,365) | (454,365) | (454,365) | (454,365) | (454,365) | (3,702,048) |
| 11. End of Period Total Net True-up | 990,091 | 1,060,777 | 1,528,813 | 2,063,798 | 2,188,298 | 2,726,190 | 2,901,524 | 2,799,798 | 2,754,908 | 2,740,832 | 2,538,652 | 2,262,323 | 2,262,323 |

* Net of Revenue Taxes

(A) Included in Line 6

| Summary of Allocation | | Forecast | Ratio | True Up |
|-----------------------|--|------------|-------|-----------|
| Demand | | 9,987,902 | 0.64 | 1,447,987 |
| Energy | | 5,331,278 | 0.36 | 814,436 |
| Total | | 15,688,880 | 1.00 | 2,262,323 |

TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of Interest Provision

Actual for Months April 1998 through September 1998
Projected for Months October 1998 through March 1999

| C. INTEREST PROVISION | April Actual | May Actual | June Actual | July Actual | August Actual | September Actual | October Projected | November Projected | December Projected | January Projected | February Projected | March Projected | Grand Total |
|---|--------------|-------------|-------------|-------------|---------------|------------------|-------------------|--------------------|--------------------|-------------------|--------------------|-----------------|-------------|
| 1. Beginning True-up Amount (C-3, Page 5, Line 9) | \$875,858 | \$990,091 | \$1,060,777 | \$1,528,813 | \$2,063,798 | \$2,188,206 | \$2,726,190 | \$2,901,524 | \$2,799,798 | \$2,754,908 | \$2,749,832 | \$2,538,652 | |
| 2. Ending True-up Amount Before Interest (C-3, Page 5, Lines 7 + 9 + 10) | 885,560 | 1,056,071 | 1,522,832 | 2,055,465 | 2,178,496 | 2,715,206 | 2,889,282 | 2,787,339 | 2,742,770 | 2,737,803 | 2,727,098 | 2,251,832 | |
| 3. Total Beginning & Ending True-up | \$1,961,418 | \$2,046,162 | \$2,583,609 | \$3,584,278 | \$4,242,294 | \$4,903,412 | \$5,615,472 | \$5,688,863 | \$5,542,568 | \$5,492,711 | \$5,476,930 | \$4,790,484 | |
| 4. Average True-up Amount (50% of Line 3) | \$980,709 | \$1,023,081 | \$1,291,805 | \$1,792,139 | \$2,121,147 | \$2,451,706 | \$2,807,736 | \$2,844,432 | \$2,771,284 | \$2,746,356 | \$2,738,465 | \$2,395,242 | |
| 5. Interest Rate - First Day of Month | 5.500% | 5.500% | 5.500% | 5.600% | 5.600% | 5.500% | 5.200% | 5.200% | 5.250% | 5.250% | 5.250% | 5.250% | |
| 6. Interest Rate - First Day of Next Month | 5.500% | 5.500% | 5.600% | 5.600% | 5.500% | 5.200% | 5.250% | 5.250% | 5.250% | 5.250% | 5.250% | 5.250% | |
| 7. Total (Line 5 + Line 6) | 11.000% | 11.000% | 11.100% | 11.200% | 11.100% | 10.700% | 10.400% | 10.500% | 10.500% | 10.500% | 10.500% | 10.500% | |
| 8. Average Interest Rate (50% of Line 7) | 5.500% | 5.500% | 5.550% | 5.600% | 5.550% | 5.350% | 5.200% | 5.250% | 5.250% | 5.250% | 5.250% | 5.250% | |
| 9. Monthly Average Interest Rate (Line 8/12) | 0.458% | 0.458% | 0.463% | 0.467% | 0.463% | 0.446% | 0.433% | 0.438% | 0.438% | 0.438% | 0.438% | 0.438% | |
| 10. Interest Provision (Line 4 x Line 9) | \$4,531 | \$4,706 | \$5,981 | \$8,333 | \$9,800 | \$10,984 | \$12,242 | \$12,459 | \$12,138 | \$12,029 | \$11,556 | \$10,481 | \$115,250 |

EXHIBIT NO. _____
DOCKET NO. 980002-EG
TAMPA ELECTRIC COMPANY
(HTB-2)
SCHEDULE C-3
PAGE 6 of 6

TAMPA ELECTRIC COMPANY
Energy Conservation
Calculation of Conservation Revenues

Actual for Months April 1998 through September 1998
Projected for Months October 1998 through March 1999

| (1) Months | (2) Firm MWH Sales | (3) Interruptible MWH Sales | (4) Clause Revenue Net of Revenue Taxes |
|---------------|--------------------------|-----------------------------------|---|
| April | 1,010,919 | 155,173 | 1,514,829 |
| May | 1,069,584 | 139,605 | 1,602,798 |
| June | 1,383,702 | 149,750 | 2,067,298 |
| July | 1,454,446 | 145,731 | 2,209,845 |
| August | 1,366,280 | 151,607 | 2,072,634 |
| September | 1,393,939 | 149,116 | 2,111,148 |
| October | 1,206,134 | 149,416 | 1,818,088 |
| November | 1,029,292 | 142,264 | 1,537,438 |
| December | 1,042,156 | 148,823 | 1,563,488 |
| January | 1,139,646 | 152,526 | 1,723,043 |
| February | 1,018,704 | 146,950 | 1,533,576 |
| March | 1,009,927 | 150,315 | 1,512,552 |
| Total | 14,104,729 | 1,781,276 | 21,266,737 |

11

PROGRAM DESCRIPTION AND PROGRESS

Program Title: HEATING AND COOLING

Program Description: Incentive Program for the installation of high efficiency heating and cooling equipment.

Program Projections: April 1, 1998 to March 31, 1999

3,976 units to be installed and approved.

April 1, 1999 to December 31, 1999

2,700 units to be installed and approved.

**Program Fiscal
Expenditures:**

April 1, 1998 to March 31, 1999

Expenditures estimated for the period are \$2,808,759.

April 1, 1999 to December 31, 1999

Expenditures estimated for the period are \$1,881,513.

**Program Progress
Summary:**

Through September 30, 1998 - 137,877 units have been installed and approved.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: PRIME TIME

Program Description: Load management program for cycling residential appliances - heating, air conditioning, water heating and pool pumps.

Program Projections: April 1, 1998 to March 31, 1999

78,224 Customers on this program (cumulative).

April 1, 1999 to December 31, 1999

80,024 Customers will be participating (cumulative).

Program Fiscal Expenditures:

April 1, 1998 to March 31, 1999

Estimated expenditures are \$12,042,355

April 1, 1999 to December 31, 1999

\$9,139,718 estimated.

Program Progress Summary:

77,768 Customers through September 30, 1998

Breakdown is as follows:

| | |
|------------------|--------|
| Water Heating | 73,273 |
| Air Conditioning | 59,506 |
| Heating | 60,971 |
| Pool Pump | 14,406 |

PROGRAM DESCRIPTION AND PROGRESS

Program Title: ENERGY AUDITS

Program Description: Audits of residential, commercial and industrial Customers' facilities to help define potential areas of energy savings. Additionally, mail-in self evaluating audits are available for customers.

Program Projections: April 1, 1998 to March 31, 1999

Residential - 17,862 (RCS-0; Alt-5,299; Mail-in-12,563)

Comm/Ind - 849 (Paid - 2; Free - 337; Mail-in-510)

April 1, 1999 to December 31, 1999

Residential - 13,050 (RCS-0; Alt-4,050; Mail-in-9,000)

Comm/Ind - 738 (Paid - 3; Free - 360; Mail-in-375)

Program Fiscal Expenditures:

April 1, 1998 to March 31, 1999

Expenditures are expected to be \$1,207,715.

April 1, 1999 to December 31, 1999

Estimated costs are \$1,169,125.

Program Progress Summary:

Through September 30, 1998 the following audit totals are:

| | |
|------------------------|---------|
| Residential RCS (Fee) | 3,890 |
| Residential Alt (Free) | 174,414 |
| Residential Mail-in | 24,970 |
| Commercial-Ind (Fee) | 223 |
| Commercial-Ind (Free) | 12,354 |
| Commercial Mail-in | 1,052 |

PROGRAM DESCRIPTION AND PROGRESS

Program Title: COGENERATION

Program Description: To encourage the development of cost-effective Commercial and Industrial cogeneration facilities. To evaluate and administer Standard Offer and negotiated Contracts for the purchase of firm capacity and energy.

Program Projections: April 1, 1998 to March 31, 1999

Construction in progress to increase steam capability and generator output at one existing facility and a generator replacement will increase generator capacity at a second existing qualifying facility. Will continue communication and interaction with all present and potential cogeneration Customers.

April 1, 1999 to December 31, 1999

Start the development and publication of the 20-Year Cogeneration Forecast.

Program Fiscal Expenditures:

April 1, 1998 to March 31, 1999

Expenditures are estimated to be \$331,091.

April 1, 1999 to December 31, 1999

Expenditures are estimated to be \$342,127.

Program Progress Summary:

The projected total maximum generation by electrically interconnected cogeneration during 1999 will be approximately 580 MW and 3,740 GWH.

Continuing interaction with current and potential cogeneration developers for discussion regarding current cogeneration activities and future cogeneration construction activities. Currently there are sixteen (16) Qualifying Facilities with generation on-line in our service area.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: CEILING INSULATION

Program Description: Incentive program used to promote the addition of insulation in existing residential living units.

Program Projections: April 1, 1998 to March 31, 1999

Approximately 6,541 units during this period.

April 1, 1999 to December 31, 1999

2,700 units expected for this period.

Program Fiscal Expenditures:

April 1, 1998 to March 31, 1999

Expenditures are estimated to be \$730,856.

April 1, 1999 to December 31, 1999

\$379,562 are the expected costs.

Program Progress Summary:

Through September 30, 1998 - 31,513 installations have been certified and paid.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: COMMERCIAL/INDUSTRIAL LOAD MANAGEMENT

Program Description: Load Management program for Commercial/Industrial Customers.

Program Projections: April 1, 1998 to March 31, 1999

4 installations expected.

April 1, 1999 to December 31, 1999

9 installations expected.

**Program Fiscal
Expenditures:**

April 1, 1998 to March 31, 1999

\$46,370 are expected costs.

April 1, 1999 to December 31, 1999

Expenses of \$44,721 are estimated.

**Program Progress
Summary:**

Through September 30, 1998 - 27 C/I installations are in service.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: COMMERCIAL INDOOR LIGHTING

Program Description: An incentive program to encourage investment in more efficient lighting technology in existing commercial facilities.

Program Projections: April 1, 1998 to March 31, 1999

113 Customers are expected to participate during this period.

April 1, 1999 to December 31, 1999

90 Customers are expected to participate during this period.

**Program Fiscal
Expenditures:**

April 1, 1998 to March 31, 1999

Expenditures estimated for the period are \$476,155.

April 1, 1999 to December 31, 1999

Expenditures estimated for this period are \$365,327.

**Program Progress
Summary:**

Through September 30, 1998 - 666 Customers have participated.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: STANDBY GENERATOR

Program Description: A program designed to utilize the emergency generation capacity of Commercial/Industrial facilities in order to reduce weather sensitive peak demand.

Program Projections: April 1, 1998 to March 31, 1999

1 installation is expected.

April 1, 1999 to December 31, 1999

6 installations are expected.

Program Fiscal Expenditures:

April 1, 1998 to March 31, 1999

Expenditures estimated for the period are \$675,776.

April 1, 1999 to December 31, 1999

Expenditures estimated for the period are \$649,860.

Program Progress Summary:

Through September 30, 1998 - 38 Customers are participating.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: CONSERVATION VALUE

Program Description: An incentive program for Commercial/Industrial Customers that encourages additional investments in substantial demand shifting or demand reduction measures.

Program Projections: April 1, 1998 to March 31, 1999
2 Customers are expected to participate.

April 1, 1999 to December 31, 1999
3 Customers are expected to participate.

Program Fiscal Expenditures: April 1, 1998 to March 31, 1999
Estimated expenses are \$22,851.

April 1, 1999 to December 31, 1999
Estimated expenses are \$23,232.

Program Progress Summary: Through September 30, 1998 - Four Customers have earned incentive dollars. We are actively working with several Customers on evaluations of various measures.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: DUCT REPAIR

Program Description: An incentive program to encourage the repair of the air distribution system in a residence.

Program Projections: April 1, 1998 to March 31, 1999

3,984 repairs to be made.

April 1, 1999 to December 31, 1999

3,750 repairs to be made.

**Program Fiscal
Expenditures:**

April 1, 1998 to March 31, 1999

Expenditures estimated for the period are \$1,111,144.

April 1, 1999 to December 31, 1999

Expenditures estimated for the period are \$1,236,962.

**Program Progress
Summary:**

Through September 30, 1998 - 23,736 Customers have participated.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: BUILDER AWARENESS

Program Description: A three-year program designed to decrease demand and energy by improving construction techniques used on air distribution systems in new residential structures.

Program Projections: April 1, 1998 to March 31, 1999

19 homes are expected to participate.

April 1, 1999 to December 31, 1999

See Program Progress Summary below.

**Program Fiscal
Expenditures:**

April 1, 1998 to March 31, 1999

Expenses are estimated at \$4,415.

April 1, 1999 to December 31, 1999

Expenses are estimated at \$128.

**Program Progress
Summary:**

Through September 30, 1998 - 29 homes have qualified for participation. We are actively working with building construction and HVAC contractors in various stages of participation. This three year program is expected to terminate in April 1999.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: DSM COMMERCIAL R&D

Program Description: A three-year program directed at R&D commercial end-use technologies not yet commercially available or insufficient data exists for measure evaluations specific to central Florida climate.

Program Projections: See Program Progress Summary.

Program Fiscal Expenditures: April 1, 1998 to March 31, 1999

Expenditures are estimated at \$313,559.

April 1, 1999 to December 31, 1999

Expenditures are estimated at \$9,000.

Program Progress Summary:

Commercial Desiccant Application - Testing in progress at an adult high school. Preliminary results indicate the unit is reducing moisture load to the school. Testing has continued through the summer of 1998 as equipment performance relative to load conditions has been monitored and adjusted to optimize efficiency. Should additional testing be required beyond original completion date, Tampa Electric Company will submit a petition for project continuation.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: NATURAL GAS R&D

Program Description: A three-year R&D program designed to gather data on the performance and cost-effectiveness of gas technologies for heating, cooling, dehumidification and water heating.

Program Projections: April 1, 1998 to March 31, 1999.

See Program Progress Summary below.

April 1, 1999 to December 31, 1999.

See Program Progress Summary below.

Program Fiscal Expenditures: April 1, 1998 to March 31, 1999

Expenses are estimated to be \$79,052.

April 1, 1999 to December 31, 1999.

See Program Progress Summary below.

Program Progress Summary:

This R & D project was completed in August 1998. Tampa Electric Company filed a final report pursuant to Docket No. 950521-EG, Order No. PSC-94-1313-FOF-EG on September 10, 1998.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: COMMON EXPENSES

Program Description: Expenditures which cover a number of conservation programs.

Program Projections: N/A

Program Fiscal Expenditures: April 1, 1998 to March 31, 1999

Expenditures are estimated to be \$245,424.

April 1, 1999 to December 31, 1999

Expenditures are estimated at \$257,605.

Program Progress Summary: N/A