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October 5, 2001

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RECEIVED-FPSC

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
FPSC Docket No. 010002-EG

Dear Ms. Bayo:

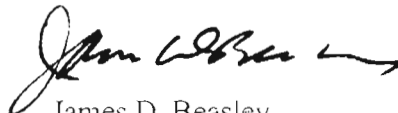
Enclosed for filing in the above docket are the original and ten (10) copies of each of the following:

1. Petition of Tampa Electric Company. 12713-01
2. Prepared Direct Testimony and Exhibit (HTB-2) of Howard T. Bryant. 12714-01
3. Prepared Direct Testimony and Exhibit (WM-1) of Michael Winner. 12715-01

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,

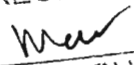

James D. Beasley

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FPSC-BUREAU OF RECORDS

ORIGINAL



BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION
DOCKET NO. 010002-EG
IN RE: CONSERVATION COST RECOVERY CLAUSE
TESTIMONY AND EXHIBIT
OF
HOWARD T. BRYANT

FILED: OCTOBER 5, 2001

DOCUMENT NUMBER-DATE

12714 OCT-5 01

FPSC-COMMISSION CLERK

1 BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

2 PREPARED DIRECT TESTIMONY

3 OF

4 HOWARD T. BRYANT

5
6 Q. Please state your name, address, occupation and employer.

7
8 A. My name is Howard T. Bryant. My business address is 702
9 North Franklin Street, Tampa, Florida 33602. I am
10 employed by Tampa Electric Company ("Tampa Electric" or
11 "the company") as Manager, Rates in the Regulatory
12 Affairs Department.

13
14 Q. What is the purpose of your testimony in this proceeding?

15
16 A. The purpose of my testimony is to support the company's
17 actual conservation costs incurred during the period
18 January 1, 2000 through December 31, 2000, the actual and
19 projected period of January 1, 2001 to December 31, 2001,
20 and the twelve-month projected period of January 1, 2002
21 through December 31, 2002. Also, I will support the
22 level of charges (benefits) for interruptible customers
23 allocated to the period January 1, 2002 through December
24 31, 2002. The balance of costs will be charged to firm
25 customers on a per kilowatt-hour basis in accordance with

1 Docket No. 930759-EG, Order No. PSC-93-1845-FOF-EG, dated
2 December 29, 1993. I will support the appropriate
3 Contracted Credit Value ("CCV") for potential
4 participants in the General Service Industrial Load
5 Management Riders ("GSLM-2" and "GSLM-3") for the period
6 January 1, 2002 through December 31, 2002. Finally, I
7 will address Disclosure No. 1 of the Tampa Electric
8 Company Energy Conservation Cost Recovery Audit for the
9 Twelve Months Ended December 31, 2000 which identifies
10 certain advertising expenses alleged to be associated
11 with substantial image enhancing advertising for the
12 company.

13
14 **Q.** What is the basis of this request for expenses to be
15 based on different charges for interruptible and firm
16 customers?

17
18 **A.** Tampa Electric believes that its conservation and load
19 management programs do not accrue capacity benefits to
20 interruptible customers. This position has been
21 supported by the Florida Public Service Commission
22 ("Commission") in Docket Nos. 900002-EG through 000002-
23 EG. The company estimates the cumulative effects of its
24 conservation and load management programs will allow
25 interruptible customers to have lower fuel costs

1 (\$0.41/MWH) due to the reductions in marginal fuel costs.

2

3 Q. How were those benefits calculated?

4

5 A. To determine fuel savings effects, the company has
6 calculated a "what if there had been no conservation
7 programs" scenario. The results indicate that the
8 avoided gigawatt-hours have actually reduced average fuel
9 costs since higher priced marginal fuels would have been
10 burned if the gigawatt-hours had not been saved.

11 The attached analysis, Exhibit No. ____ (HTB-2),
12 Conservation Costs Projected, portrays costs and
13 benefits.

14

15 Q. Will charging different amounts for firm and
16 interruptible customers conflict with the Florida Energy
17 Efficiency and Conservation ("Act")?

18

19 A. No. The Act requires utilities, through the guidance of
20 the Commission, to cost effectively reduce peak demand,
21 energy consumption and the use of scarce resources,
22 particularly petroleum fuels. It does not require all
23 customers to pay the utilities' conservation costs no
24 matter if they receive the same level of benefits or not.
25 The relationships between costs and benefits received are

1 specifically the determination of the Commission.
2
3 Q. Please describe the conservation program costs projected
4 by Tampa Electric during the period January 1, 2000
5 through December 31, 2000.
6
7 A. For the period January 1, 2000 through December 31, 2000,
8 Tampa Electric projected conservation program costs to be
9 \$18,612,677. The Commission authorized collections to
10 recover these expenses in Docket No. 990002-EG, Order No.
11 PSC-99-2267-PHO-EG, issued November 18, 1999.
12
13 Q. For the period January 1, 2000 through December 31, 2000,
14 what were Tampa Electric's conservation costs and what
15 was recovered through the Energy Conservation Cost
16 Recovery ("ECCR") Clause?
17
18 A. For the period January 1, 2000 through December 31, 2000
19 Tampa Electric incurred actual net conservation costs of
20 \$16,656,250, plus a beginning true-up over recovery of
21 \$2,306,169 for a total of \$14,350,081. The amount
22 collected in the ECCR Clause was \$16,611,464.
23
24 Q. What was the true-up amount?
25

- 1 **A.** The true-up amount for the period January 1, 2000 through
2 December 31, 2000 was an over-recovery of \$2,390,385.
3 These calculations are detailed in Exhibit No. ____ (HTB-
4 1), Conservation Cost Recovery True Up, Pages 1 through
5 11.
6
- 7 **Q.** Please describe the conservation program costs incurred
8 and projected to be incurred by Tampa Electric during the
9 period January 1, 2001 through December 31, 2001.
10
- 11 **A.** The actual costs incurred by Tampa Electric Company
12 through August 31, 2001 and estimated for September 1,
13 2001 through December 31, 2001 are \$17,604,229. For the
14 period, Tampa Electric anticipates an over-recovery in
15 the ECCR Clause of \$1,069,372 which includes the previous
16 period true-up and interest. A summary of these costs
17 and estimates are fully detailed in Exhibit No. ____ (HTB-
18 2), Conservation Costs Projected, Pages 1 through 15.
19
- 20 **Q.** For the period January 1, 2002 through December 31, 2002,
21 what are Tampa Electric's estimates of its conservation
22 costs and cost recovery factors?
23
- 24 **A.** The company has estimated that the total conservation
25 costs (less program revenues) during the period will be

1 \$18,379,940 plus true-up. Including true-up estimates
2 and interruptible sales contribution at 0.041 cents/kWh,
3 the cost recovery factors for firm retail rate classes
4 will be 0.116 cents/kWh for Residential (RS), 0.110
5 cents/kWh for General Service Non-Demand and Temporary
6 Service (GS, TS), 0.090 cents/kWh General Service Demand
7 (GSD) - Secondary, 0.090 cents/kWh for General Service
8 Demand (GSD) - Primary, 0.085 cents/kWh for General
9 Service Large Demand and Standby Firm (GSLD, SBF) -
10 Secondary, 0.084 cents/kWh for General Service Large
11 Demand and Standby Firm (GSLD, SBF) - Primary, 0.083
12 cents/kWh for General Service Large Demand and Standby
13 Firm (GSLD, SBF) - Subtransmission and 0.036 cents/kWh
14 for Lighting (SL, OL). Exhibit No. ____ (HTB-2),
15 Conservation Costs Projected, pages 3 through 8 contain
16 the Commission prescribed forms which detail these
17 estimates.

18
19 **Q.** Has Tampa Electric complied with the ECCR cost allocation
20 methodology stated in Docket No. 930759-EG, Order No.
21 PSC-93-1845-EG?

22
23 **A.** Yes, it has.

24
25 **Q.** Please explain why the incentive for GSLM-2 and GSLM-3

1 rate riders is included in your testimony.

2

3 **A.** In Docket No. 990037-EI, Tampa Electric petitioned the
4 Commission to close its non-cost-effective interruptible
5 service rate schedules while initiating the provision of
6 a cost-effective non-firm service through a new load
7 management program. This new program would be funded
8 through the ECCR Clause and the appropriate annual
9 Contracted Credit Value ("CCV") for customers would be
10 submitted for Commission approval as part of the
11 company's annual ECCR Projection Filing. Specifically,
12 the level of the CCV would be determined by using the
13 Rate Impact Measure ("RIM") Test contained in the
14 Commission's cost-effectiveness methodology found in Rule
15 25-17.008, F.A.C. By using a Rim Test benefit-to-cost
16 ratio of 1.2, the level of the CCV would be established
17 on a per kW basis. This program and methodology for CCV
18 determination was approved by the Commission in Docket
19 No. 990037-EI, Order No. PSC-99-1778-FOF-EI, issued
20 September 10, 1999.

21

22 **Q.** What is the appropriate CCV for customers who elect to
23 take service under the GSLM-2 and GSLM-3 rate riders
24 during the January 1, 2002 through December 31, 2002
25 period?

1 **A.** For the January 1, 2002 through December 31, 2002 period,
2 the CCV will be \$4.37 per kW. Should the assessment for
3 need determination that will be conducted for 2002
4 indicate the availability of new non-firm load, this CCV
5 will be applied to new subscriptions for service under
6 those rate riders. The application of the cost-
7 effectiveness methodology to establish the CCV is found
8 in the attached analysis, Exhibit No. ____ (HTB-2),
9 Conservation Costs Projected, beginning on page 32.

10

11 **Q.** Please address Disclosure No. 1 of the Tampa Electric
12 Company Energy Conservation Cost Recovery Audit for the
13 Twelve Months Ended December 31, 2000.

14

15 **A.** Disclosure No. 1 identifies \$147,480 of conservation
16 advertising expenses that are recommended for removal
17 from the ECCR Clause. These expenses represent
18 conservation billboard advertising for 2000 and are
19 alleged to be substantially image enhancing for the
20 company. Tampa Electric strongly disagrees with this
21 allegation.

22

23 Tampa Electric has used billboard advertising for the
24 last three decades as an effective component of the
25 company's conservation advertising campaigns. The

1 company is convinced that the use of billboards as an
2 integral part of its past and present advertising
3 campaigns have proven to deliver a specific, connected
4 message on conservation programs to the most people for
5 the least cost.

6
7 Over the years, program specific media such as radio,
8 television and print have been used to stress the
9 benefits and specifics of the company's approved
10 conservation programs. In addition, billboards have been
11 used to create a "connected reminder" of a total message
12 by stating a repeatable central theme. This repeatable,
13 identifiable theme is used to reinforce the customer's
14 memory of specific messages that have been presented by
15 other types of specific program media mentioned above.

16
17 Tampa Electric first used billboard advertising as part
18 of a specific advertising campaign in 1987 with its
19 "Hugga Heat Pump" theme. At that time, the Commission
20 evaluated the company's use of billboards as an
21 appropriate stand-alone means of conservation advertising
22 during a hearing in Docket No. 870002-EG. Through an
23 expert witness in the advertising field and the testimony
24 of others, the Commission ruled that Tampa Electric was
25 able to derive specific benefits from a campaign strategy

1 inclusive of billboard advertising that was reinforced by
2 supporting media specific to the company's conservation
3 programs. The Commission found that the use of a limited
4 number of words, due to the brief time of exposure to the
5 billboard's message and imaging, could be effectively
6 utilized in a comprehensive campaign as long as
7 supporting media (television, radio, newspaper and other
8 material) targeted specific energy conservation problems,
9 identified specific solutions and provided a clear path
10 to find those solutions. This Commission decision was
11 rendered at a hearing and formally published in Docket
12 No. 870002-EG, Order No. 17281, issued March 12, 1987.
13 With the approval of this type of campaign strategy,
14 Tampa Electric has continued the use of billboard
15 advertising as a critical component in many of its ECCR
16 advertising campaigns.

17
18 In 1997 the company ran its "Energy Saver Rebates"
19 campaign, again, using billboard advertising as an
20 integral component to promote the company's various
21 conservation rebates that were available to our
22 customers. As with the "Hugga Heat Pump" billboards, the
23 messages on "Energy Saver Rebates" billboards were held
24 to a minimum number of words and utilized the image of a
25 Tampa Electric rebate check. The billboards were then

1 augmented with specific media and messages targeting
2 available conservation programs. Again, the limited
3 wording was necessary to communicate a repeatable theme
4 and simultaneously achieve the greatest impact with a
5 quick, simple, single message.

6
7 The billboards identified in Disclosure No. 1 are part of
8 a conservation advertising campaign that ran in 1999 and
9 2000. None of the specific program media and material
10 has been deemed non-compliant. Furthermore, Rule 25-
11 17.015 (5), F.A.C., states, "In determining whether an
12 advertisement is "directly related to an approved
13 conservation program", the Commission shall consider, but
14 is not limited to, whether the advertisement or
15 advertising campaign: a) identifies a specific problem;
16 b) states how to correct the problem; and, c) provides
17 direction concerning how to obtain help to alleviate the
18 problem."

19
20 In as much as Tampa Electric's 1999 to 2000 advertising
21 campaign meets these criteria, that the company can
22 demonstrate the strong relationship of our billboards to
23 our advertising campaign, and that the Commission has
24 ruled favorably on this issue in the past, Tampa Electric
25 Company requests the Commission to accept the ECCR

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advertising expenses identified in Disclosure No. 1 as appropriate for ECCR inclusion..

In support of its request for approval of these billboard expenses utilized in its conservation advertising campaign, Tampa Electric has included for filing in this docket the testimony of witness Michael Winner, President of HMS Hallmark - Tampa office. HMS Hallmark is the advertising agency Tampa Electric utilized to create the 1999 to 2000 conservation advertising campaign. Witness Winner's testimony addresses the overall campaign, the creative aspects of developing and deploying the various media types into a comprehensive campaign, and the nuances of billboard advertising relative to the total campaign.

Q. Does this conclude your testimony?

A. Yes it does.

CONSERVATION COSTS
PROJECTED

INDEX

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**Fuel Cost Impact of Conservation and Load Management Programs
On Interruptible Customers
January 1, 2002 through December 31, 2002**

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)
January	37,289	1,557.6	23.94	39,574	1,611.8	24.55	2,285	54.2	0.61
February	35,100	1,403.0	25.02	37,242	1,450.0	25.68	2,142	47.0	0.66
March	36,588	1,403.7	26.07	37,922	1,431.2	26.50	1,334	27.5	0.43
April	40,411	1,425.5	28.35	41,282	1,441.8	28.63	871	16.3	0.28
May	37,942	1,574.1	24.10	38,887	1,597.8	24.34	945	23.8	0.24
June	48,863	1,807.2	27.04	50,344	1,832.9	27.47	1,481	25.8	0.43
July	53,045	1,886.4	28.12	54,922	1,915.0	28.68	1,877	28.6	0.56
August	51,671	1,875.1	27.56	53,401	1,903.9	28.05	1,731	28.9	0.49
September	52,452	1,897.3	27.65	53,704	1,921.1	27.95	1,252	23.9	0.30
October	47,431	1,668.8	28.42	48,151	1,684.7	28.58	720	15.9	0.16
November	39,284	1,450.7	27.08	40,436	1,476.0	27.40	1,153	25.3	0.32
December	33,257	1,443.9	23.03	35,063	1,488.2	23.56	1,806	44.3	0.53
Jan 2002 - Dec 2002	513,332	19,393.2	26.47	530,928	19,754.5	26.88	17,596	361.3	0.41

TAMPA ELECTRIC COMPANY
 CALCULATION OF ENERGY & DEMAND ALLOCATION % BY RATE CLASS
 JANUARY 2002 THROUGH DECEMBER 2002

	(1) AVG 12CP Load Factor at Meter (%)	(2) Projected Sales at Meter (mWh)	(3) Projected AVG 12 CP at Meter (mW)	(4) Demand Loss Expansion Factor	(5) Energy Loss Expansion Factor	(6) Projected Sales at Generation (mWh)	(7) Projected AVG 12 CP at Generation (mW)	(8) Percentage of Sales at Generation (%)	(9) Percentage of Demand at Generation (%)	(10) 12 CP & 1/11 Allocation Factor (%)
RS	54.76%	7,980,408	1664	1.0583	1.0355	8,263,712	1,761	49.34%	58.56%	57.85%
GS,TS	59.53%	1,016,567	195	1.0583	1.0355	1,052,655	206	6.29%	6.85%	6.81%
GSD	79.01%	4,909,794	709	1.0578	1.0350	5,081,637	750	30.35%	24.94%	25.36%
GSLD,SBF	87.10%	2,095,190	275	1.0458	1.0273	2,152,389	288	12.85%	9.58%	9.83%
SL/OL	1290.46%	188,794	2	1.0583	1.0355	195,496	2	1.17%	0.07%	0.15%
TOTAL		16,190,753	2,845			16,745,889	3,007	100.00%	100.00%	100.00%

- (1) AVG 12 CP load factor based on actual 1999 calendar data.
 (2) Projected mwh sales for the period January 2002 through December 2002.
 (3) Calculated: Col (2) / (8760 x Col (1)), 8760 hours = hours in twelve months.
 (4) Based on 1999 demand losses.
 (5) Based on 1999 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

NOTE. Interruptible rates not included in demand allocation of capacity payments

TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Summary of Cost Recovery Clause Calculation
For Months January 2002 through December 2002

1. Total Incremental Cost (C-2, Page 1, Line 17)	<u>18,379,940</u>
2. Demand Related Incremental Costs	<u>13,223,464</u>
3. Energy Related Incremental Costs	5,156,476
4. Interruptible Sales (@\$0.41 per MWH)	<u>(639,456)</u>
5. Net Energy Related Incremental Costs (Line 3 + Line 4)	<u>4,517,020</u>

RETAIL BY RATE CLASS

	RS	GS,TS	GSD	GSLD,SBF	SL,OL	Total
6. Demand Allocation Percentage	57.85%	6.81%	25.36%	9.83%	0.15%	100.00%
7. Demand Related Incremental Costs (Total cost prorated based on demand allocation % above)	7,649,774	900,518	3,353,470	1,299,867	19,835	13,223,464
8. Demand Portion of End of Period True Up (O)/U Recovery Shown on Schedule C-3, Pg 5, Line 12 (Allocation of D & E is based on the forecast period cost.)	<u>(445,415)</u>	<u>(52,433)</u>	<u>(195,259)</u>	<u>(75,686)</u>	<u>(1,155)</u>	<u>(769,948)</u>
9. Total Demand Related Incremental Costs	<u>7,204,359</u>	<u>848,085</u>	<u>3,158,211</u>	<u>1,224,181</u>	<u>18,680</u>	<u>12,453,516</u>
10. Net Energy Related Incremental Costs	2,228,698	284,121	1,370,916	580,437	52,849	4,517,021
11. Energy Portion of End of Period True Up (O)/U Recovery Shown on Schedule C-3, Pg 5, Line 13 (Allocation of D & E is based on the forecast period cost.)	<u>(147,736)</u>	<u>(18,834)</u>	<u>(90,875)</u>	<u>(38,476)</u>	<u>(3,503)</u>	<u>(299,424)</u>
12. Total Net Energy Related Incremental Costs	<u>2,080,962</u>	<u>265,287</u>	<u>1,280,041</u>	<u>541,961</u>	<u>49,346</u>	<u>4,217,597</u>
<hr/>						
13. Total Incremental Costs (Line 7 + 10)	9,878,472	1,184,639	4,724,386	1,880,304	72,684	17,740,485
14. Total True Up (Over)/Under Recovery (Line 8 + 11) (Schedule C-3, Pg 5, Line 11) (Allocation of D & E is based on the forecast period cost.)	<u>(593,151)</u>	<u>(71,267)</u>	<u>(286,134)</u>	<u>(114,162)</u>	<u>(4,658)</u>	<u>(1,069,372)</u>
15. Total (Line 13 + 14)	<u>9,285,321</u>	<u>1,113,372</u>	<u>4,438,252</u>	<u>1,766,142</u>	<u>68,026</u>	<u>16,671,113</u>
16. Firm Retail MWH Sales	7,980,408	1,016,567	4,909,794	2,095,190	188,794	16,190,753
17. Cost per KWH - Demand (Line 9/Line 16)	0.09028	0.08343	•	•	0.00989	
18. Cost per KWH - Energy (Line 12/Line 16)	0.02608	0.02610	•	•	0.02614	
19. Cost per KWH - Demand & Energy (Line 17 + Line 18)	0.11635	0.10952	•	•	0.03603	
20. Revenue Tax Expansion Factor	1.00072	1.00072	•	•	1.00072	
21. Adjustment Factor Adjusted for Taxes	0.1164	0.1096	•	•	0.0361	
22. Conservation Adjustment Factor (cents/KWH) - Secondary	0.116	0.110	0.090	0.085	0.036	
- Primary			0.090	0.084		
- Subtransmission			N/A	0.083		
(ROUNDED TO NEAREST .001 PER KWH)						

* See attached Schedule C-1, page 2 of 2.

EXHIBIT NO. _____
 DOCKET NO. 010002-EG
 TAMPA ELECTRIC COMPANY
 (HTB-2)
 SCHEDULE C-1
 PAGE 1 of 2

Calculation of ECCR Factors for Customers Served at
Levels Other than Secondary Distribution

	<u>GSD</u>	<u>GSLD, SBF</u>
Line 15 Total (Projected Costs & T/U) (Schedule C-1, pg 1, Line 15)		
-Secondary	4,304,861	944,831
- Primary	133,391	820,489
- Subtransmission	N/A	822
- Total	4,438,252	1,766,142
Total Firm MWH Sales (Schedule C-1, pg 1, Line 16)		
-Secondary	4,760,786	1,115,616
- Primary	149,008	978,584
- Subtransmission	N/A	990
- Total	4,909,794	2,095,190
Cost per KWH - Demand & Energy		
-Secondary	0.09042	0.08469
- Primary	0.08952	0.08384
- Subtransmission	N/A	0.08300
Revenue Tax Expansion Factor	1.00072	1.00072
Adjustment Factor Adjusted for Taxes		
-Secondary	0.09049	0.08475
- Primary	0.08958	0.08390
- Subtransmission	N/A	0.08306
Conservation Adjustment Factor (cents/KWH)		
-Secondary	<u>0.090</u>	<u>0.085</u>
- Primary	<u>0.090</u>	<u>0.084</u>
- Subtransmission	N/A	<u>0.083</u>

Note: Customers in the GSD rate class are only served at primary and secondary distribution levels.

The calculation for interruptible classes did not change the factor from the original (\$0.41 per MWH).

TAMPA ELECTRIC COMPANY
Conservation Program Costs

Estimated for Months January 2002 through December 2002

ESTIMATED

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1 Heating and Cooling (E)	47,806	47,400	55,475	64,286	64,421	80,901	81,008	97,651	80,900	64,422	55,339	47,806	787,415
2 Prime Time (D)	1,154,290	1,163,151	1,077,687	927,436	931,616	960,804	955,433	954,019	920,460	910,944	1,087,050	1,148,459	12,191,349
3 Energy Audits (E)	128,420	121,920	129,920	126,255	128,420	127,754	126,664	128,420	127,754	128,421	126,254	129,920	1,530,122
4 Cogeneration (E)	28,539	28,539	28,539	28,539	28,539	28,539	28,539	28,539	28,539	28,539	28,539	28,549	342,478
5 Ceiling Insulation (E)	32,072	36,406	41,895	51,526	51,778	71,232	76,211	76,336	71,231	56,690	46,673	32,130	644,180
6 Commercial Load Mgmt (D)	1,485	1,478	1,490	1,491	1,494	1,491	1,694	1,499	1,502	1,505	1,502	1,516	18,147
7 Commercial Lighting (E)	35,729	35,730	35,729	35,730	35,729	35,730	35,729	35,730	35,729	35,730	35,729	35,730	428,754
8 Standby Generator (D)	51,889	51,752	54,392	60,420	54,208	54,142	53,246	53,154	52,462	55,710	53,048	54,235	648,658
9 Conservation Value (E)	6,244	6,128	6,244	6,206	6,244	6,206	6,206	6,244	6,206	6,244	6,206	6,244	74,622
10 Duct Repair (E)	90,207	88,535	90,207	89,650	90,206	89,650	89,675	90,207	89,650	90,206	89,649	90,206	1,078,048
11 Green Energy Initiative (E)	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	63,000
12 Industrial Load Management (D)	19,333	19,333	19,333	19,333	19,333	19,333	19,333	19,333	19,333	19,333	19,333	19,333	231,996
13 DSM R&D (D&E) <small>(50% D 50% E)</small>	25	25	25	25	25	25	2,565	12,565	17,565	17,565	25	25	50,460
14 Commercial Cooling (E)	2,421	2,302	2,421	2,382	2,421	2,382	2,421	2,422	2,381	2,421	2,381	2,422	28,777
15 Residential New Construction (E)	3,851	3,678	3,851	3,794	3,851	3,794	3,806	3,852	3,793	3,852	3,793	3,852	45,767
16 Common Expenses (D&E) <small>(50% D 50% E)</small>	16,595	16,385	16,595	16,527	17,033	20,320	20,389	20,389	20,320	18,492	16,527	16,595	216,167
17 Total	1,624,156	1,628,012	1,569,053	1,438,850	1,440,568	1,507,553	1,508,169	1,535,610	1,483,075	1,445,324	1,577,298	1,622,272	18,379,940
18 Less: Included in Base Rates	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Recoverable Conserv. Expenses	<u>1,624,156</u>	<u>1,628,012</u>	<u>1,569,053</u>	<u>1,438,850</u>	<u>1,440,568</u>	<u>1,507,553</u>	<u>1,508,169</u>	<u>1,535,610</u>	<u>1,483,075</u>	<u>1,445,324</u>	<u>1,577,298</u>	<u>1,622,272</u>	<u>18,379,940</u>
Summary of Demand & Energy													
Energy	388,849	384,093	407,841	421,894	425,388	461,810	466,986	491,128	470,375	439,803	408,089	390,419	5,156,476
Demand	1,235,307	1,243,919	1,161,212	1,016,956	1,015,180	1,045,943	1,041,183	1,044,482	1,012,700	1,005,521	1,169,209	1,231,853	13,223,464
Total Recoverable Conserv. Expenses	<u>1,624,156</u>	<u>1,628,012</u>	<u>1,569,053</u>	<u>1,438,850</u>	<u>1,440,568</u>	<u>1,507,553</u>	<u>1,508,169</u>	<u>1,535,610</u>	<u>1,483,075</u>	<u>1,445,324</u>	<u>1,577,298</u>	<u>1,622,272</u>	<u>18,379,940</u>

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TAMPA ELECTRIC COMPANY
Conservation Program Costs

Estimated for Months January 2002 through December 2002

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	52,505	0	20,400	55,110	654,360	240	4,800	0	787,415
2. Prime Time (D)	1,809,081	913,056	215,405	102,000	33,066	9,011,923	54,730	52,088	0	12,191,349
3. Energy Audits (E)	0	825,972	3,444	367,920	230,846	0	47,496	54,444	0	1,530,122
4. Cogeneration (E)	0	336,418	0	0	0	0	6,060	0	0	342,478
5. Ceiling Insulation (E)	0	72,062	0	0	11,022	555,000	2,976	3,120	0	644,180
6. Commercial Load Mgmt (D)	135	9,292	300	0	0	7,920	500	0	0	18,147
7. Commerical Lighting (E)	0	18,252	0	0	11,022	398,880	600	0	0	428,754
8. Standby Generator (D)	0	21,858	0	0	0	625,996	804	0	0	648,658
9. Conservation Value (E)	0	14,022	0	0	0	60,000	600	0	0	74,622
10. Duct Repair (E)	0	307,888	2,496	11,856	198,396	527,520	9,300	20,592	0	1,078,048
11. Green Energy Initiative (E)	0	33,900	25,200	2,400	0	0	300	1,200	0	63,000
12. Industrial Load Management (D)	0	12,396	0	0	0	219,000	600	0	0	231,996
13. DSM R&D (D&E) (50% D, 50% E)	0	10,160	10,000	30,000	0	0	300	0	0	50,460
14. Commercial Cooling (E)	0	15,177	0	1,800	5,500	6,000	300	0	0	28,777
15. Residential New Construction (E)	0	21,989	240	0	11,022	9,600	300	2,616	0	45,767
16. Common Expenses (D&E) (50% D, 50% E)	0	214,967	0	0	0	0	600	600	0	216,167
17. Total All Programs	<u>1,809,216</u>	<u>2,879,914</u>	<u>257,085</u>	<u>536,376</u>	<u>555,984</u>	<u>12,076,199</u>	<u>125,706</u>	<u>139,460</u>	<u>0</u>	<u>18,379,940</u>
Summary of Demand & Energy										
Energy	0	1,810,748	36,380	419,376	522,918	2,211,360	68,622	87,072	0	5,156,476
Demand	<u>1,809,216</u>	<u>1,069,166</u>	<u>220,705</u>	<u>117,000</u>	<u>33,066</u>	<u>9,864,839</u>	<u>57,084</u>	<u>52,388</u>	<u>0</u>	<u>13,223,464</u>
Total All Programs	<u>1,809,216</u>	<u>2,879,914</u>	<u>257,085</u>	<u>536,376</u>	<u>555,984</u>	<u>12,076,199</u>	<u>125,706</u>	<u>139,460</u>	<u>0</u>	<u>18,379,940</u>

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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
Estimated for Months January 2002 through December 2002

PRIME TIME

	Beginning of Period	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1. Investment		160,244	160,244	160,244	160,244	160,244	160,244	160,244	160,244	160,244	160,244	160,244	160,249	1,922,933
2. Retirements		92,794	64,638	59,396	62,906	79,940	51,528	63,225	56,415	79,129	56,880	67,160	59,366	793,377
3. Depreciation Base		6,230,886	6,326,492	6,427,340	6,524,678	6,604,982	6,713,698	6,810,717	6,914,546	6,995,661	7,099,025	7,192,109	7,292,992	
4. Depreciation Expense		<u>103,286</u>	<u>104,645</u>	<u>106,282</u>	<u>107,933</u>	<u>109,414</u>	<u>110,989</u>	<u>112,703</u>	<u>114,377</u>	<u>115,918</u>	<u>117,456</u>	<u>119,093</u>	<u>120,709</u>	<u>1,342,805</u>
5. Cumulative Investment	6,163,436	6,230,886	6,326,492	6,427,340	6,524,678	6,604,982	6,713,698	6,810,717	6,914,546	6,995,661	7,099,025	7,192,109	7,292,992	7,292,992
6. Less: Accumulated Depre	<u>2,461,186</u>	<u>2,471,678</u>	<u>2,511,685</u>	<u>2,558,571</u>	<u>2,603,598</u>	<u>2,633,072</u>	<u>2,692,533</u>	<u>2,742,011</u>	<u>2,799,973</u>	<u>2,836,762</u>	<u>2,897,338</u>	<u>2,949,271</u>	<u>3,010,614</u>	<u>3,010,614</u>
7. Net Investment	<u>3,702,250</u>	<u>3,759,208</u>	<u>3,814,807</u>	<u>3,868,769</u>	<u>3,921,080</u>	<u>3,971,910</u>	<u>4,021,165</u>	<u>4,068,706</u>	<u>4,114,573</u>	<u>4,158,899</u>	<u>4,201,687</u>	<u>4,242,838</u>	<u>4,282,378</u>	<u>4,282,378</u>
8. Average Investment		3,730,729	3,787,008	3,841,788	3,894,925	3,946,495	3,996,538	4,044,936	4,091,640	4,136,736	4,180,293	4,222,263	4,262,608	
9. Return on Average Investment		22,198	22,533	22,859	23,175	23,482	23,779	24,067	24,345	24,614	24,873	25,122	25,363	286,410
10. Return Requirements		<u>36,138</u>	<u>36,684</u>	<u>37,214</u>	<u>37,729</u>	<u>38,229</u>	<u>38,712</u>	<u>39,181</u>	<u>39,634</u>	<u>40,072</u>	<u>40,493</u>	<u>40,899</u>	<u>41,291</u>	<u>466,276</u>
11. Total Depreciation and Return		<u>139,424</u>	<u>141,329</u>	<u>143,496</u>	<u>145,662</u>	<u>147,643</u>	<u>149,701</u>	<u>151,884</u>	<u>154,011</u>	<u>155,990</u>	<u>157,949</u>	<u>159,992</u>	<u>162,000</u>	<u>1,809,081</u>

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 January 2002 through December 2002
COMMERCIAL LOAD MANAGEMENT

	Beginning of Period	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1. Investment		0	0	375	0	0	0	0	375	0	0	0	0	750
2. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
3. Depreciation Base		0	0	375	375	375	375	375	750	750	750	750	750	
4. Depreciation Expense		0	0	3	6	6	6	6	9	13	13	13	13	88
5. Cumulative Investment	0	0	0	375	375	375	375	375	750	750	750	750	750	750
6. Less. Accumulated Depreciation	0	0	0	3	9	15	21	27	36	49	62	75	88	88
7. Net Investment	0	0	0	<u>372</u>	<u>366</u>	<u>360</u>	<u>354</u>	<u>348</u>	<u>714</u>	<u>701</u>	<u>688</u>	<u>675</u>	<u>662</u>	<u>662</u>
8. Average Investment		0	0	186	369	363	357	351	531	708	695	682	669	
9. Return on Average Investment		0	0	1	2	2	2	2	3	4	4	4	4	28
10. Return Requirements		0	0	2	3	3	3	3	5	7	7	7	7	47
Total Depreciation and Return		0	0	<u>5</u>	<u>9</u>	<u>9</u>	<u>9</u>	<u>9</u>	<u>14</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>20</u>	<u>135</u>

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

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TAMPA ELECTRIC COMPANY
Conservation Program Costs

Actual for Months January 2001 through August 2001
Projected for Months September 2001 through December 2001

Program Name	Capital Investment	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Incentives	Vehicle	Other	Program Revenues	Total
1 Heating & Cooling										
2 Actual	0	37,077	20	15,197	131,541	465,000	84	2,769	0	651,688
3 Projected	0	21,704	288	7,600	16,368	232,512	40	1,384	0	279,676
4 Total	0	58,781	288	22,797	147,909	697,512	124	4,153	0	931,564
5 Prime Time										
6 Actual	1,019,530	490,463	187,062	82,274	28,505	5,965,157	32,515	35,307	0	7,840,813
7 Projected	540,008	290,916	93,744	41,118	11,020	3,031,531	16,208	17,408	0	4,041,951
8 Total	1,559,538	781,379	280,806	123,390	39,525	8,996,688	48,723	52,715	0	11,882,764
9 Energy Audits										
10 Actual	0	443,895	806	252,654	78,881	0	29,049	16,595	(135)	821,880
11 Projected	0	255,588	820	125,328	75,320	0	14,508	8,012	0	480,376
12 Total	0	699,483	1,426	378,982	154,201	0	43,557	24,607	(135)	1,302,256
13 Cogeneration										
14 Actual	0	176,773	0	0	0	0	3,624	0	0	180,397
15 Projected	0	103,184	0	0	0	0	1,812	0	0	104,976
16 Total	0	279,937	0	0	0	0	5,436	0	0	285,373
17 Ceiling Insulation										
18 Actual	0	85,178	27	0	8,082	429,500	4,146	1,538	0	528,471
19 Projected	0	49,400	12	0	3,872	214,752	2,076	772	0	270,684
20 Total	0	134,578	39	0	11,754	644,252	6,222	2,310	0	799,155
21 Commercial Load Management										
22 Actual	0	4,270	0	0	320	5,252	253	0	0	10,095
23 Projected	0	2,478	0	0	160	2,628	124	0	0	5,388
24 Total	0	6,748	0	0	480	7,880	377	0	0	15,483
25 Commercial Lighting										
26 Actual	0	6,743	0	0	10,491	328,420	201	7	0	345,862
27 Projected	0	3,768	0	0	4,118	178,000	100	0	0	185,964
28 Total	0	10,511	0	0	14,607	506,420	301	7	0	531,846
29 Standby Generator										
30 Actual	0	11,770	0	0	0	402,372	341	0	0	414,483
31 Projected	0	6,884	0	0	0	201,188	168	0	0	208,040
32 Total	0	18,454	0	0	0	603,560	509	0	0	622,523
33 Conservation Value										
34 Actual	0	205	0	0	2,210	0	47	0	0	2,462
35 Projected	0	148	0	0	540	91,828	24	0	0	92,540
36 Total	0	353	0	0	2,750	91,828	71	0	0	95,002
37 Duct Repair										
38 Actual	0	123,060	857	71,050	171,173	223,308	11,880	11,081	0	612,409
39 Projected	0	71,484	428	35,524	70,186	111,652	5,840	5,540	0	300,794
40 Total	0	194,544	1,285	106,574	241,369	334,960	17,820	16,621	0	913,173
45 Green Energy Initiative										
46 Actual	0	8,121	0	2,000	0	0	0	0	0	8,121
47 Projected	0	3,592	0	1,000	0	0	0	0	0	4,592
48 Total	0	9,713	0	3,000	0	0	0	0	0	12,713
49 Industrial Load Management										
50 Actual	0	0	0	0	0	0	0	0	0	0
51 Projected	0	0	0	0	0	0	0	0	0	0
52 Total	0	0	0	0	0	0	0	0	0	0
53 DSM R&D (D&E)										
54 Actual	0	2,090	158	0	0	0	0	0	0	2,248
55 Projected	0	1,196	0	0	0	0	80	0	0	1,276
56 Total	0	3,286	158	0	0	0	80	0	0	3,524
57 Commercial Cooling										
58 Actual	0	330	0	105	2,210	14,151	0	0	0	16,796
59 Projected	0	204	0	0	1,832	4,244	0	0	0	6,280
60 Total	0	534	0	105	4,042	18,395	0	0	0	23,076
61 Residential New Construction										
62 Actual	0	7,218	0	0	8,943	800	27	0	0	16,988
63 Projected	0	4,188	0	0	640	400	0	12	0	5,240
64 Total	0	11,406	0	0	9,583	1,200	27	12	0	22,228
65 Common Expenses										
66 Actual	0	105,540	0	0	0	0	0	0	0	105,540
67 Projected	0	58,144	0	0	0	0	0	0	0	58,144
68 Total	0	163,684	0	0	0	0	0	0	0	163,684
69 Total All Programs	1,559,538	2,373,389	284,002	634,848	626,220	11,902,695	123,247	100,425	(135)	17,604,229

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TAMPA ELECTRIC COMPANY
Schedule of Capital Investment, Depreciation and Return
Actual for Months January 2001 through August 2001
Projected for Months September 2001 through December 2001

PRIME TIME

	Beginning of Period	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Projected	October Projected	November Projected	December Projected	Total
1. Investment		166,980	215,040	166,689	169,277	134,777	143,047	123,339	112,266	155,478	155,478	155,478	155,478	1,853,327
2. Retirements		43,489	40,170	69,725	88,820	100,675	88,136	104,491	97,594	114,467	104,924	110,020	42,356	1,004,867
3. Depreciation Base		5,438,467	5,613,337	5,710,301	5,790,758	5,824,860	5,879,771	5,898,619	5,913,291	5,954,302	6,004,856	6,050,314	6,163,436	
4. Depreciation Expense		<u>89,612</u>	<u>92,098</u>	<u>94,364</u>	<u>95,842</u>	<u>96,797</u>	<u>97,539</u>	<u>98,153</u>	<u>98,433</u>	<u>98,897</u>	<u>99,660</u>	<u>100,460</u>	<u>101,781</u>	<u>1,163,636</u>
5. Cumulative Investment	<u>5,314,976</u>	5,438,467	5,613,337	5,710,301	5,790,758	5,824,860	5,879,771	5,898,619	5,913,291	5,954,302	6,004,856	6,050,314	6,163,436	6,163,436
6. Less: Accumulated Depreciation	<u>2,302,417</u>	<u>2,348,540</u>	<u>2,400,468</u>	<u>2,425,107</u>	<u>2,432,129</u>	<u>2,428,251</u>	<u>2,437,654</u>	<u>2,431,316</u>	<u>2,432,155</u>	<u>2,416,585</u>	<u>2,411,321</u>	<u>2,401,761</u>	<u>2,461,186</u>	<u>2,461,186</u>
7. Net Investment	<u>3,012,559</u>	<u>3,089,927</u>	<u>3,212,869</u>	<u>3,285,194</u>	<u>3,358,629</u>	<u>3,396,609</u>	<u>3,442,117</u>	<u>3,467,303</u>	<u>3,481,136</u>	<u>3,537,717</u>	<u>3,593,535</u>	<u>3,648,553</u>	<u>3,702,250</u>	<u>3,702,250</u>
8. Average Investment		3,051,243	3,151,398	3,249,032	3,321,912	3,377,619	3,419,363	3,454,710	3,474,220	3,509,427	3,565,626	3,621,044	3,675,402	
9. Return on Average Investment		18,155	18,751	19,332	19,765	20,097	20,345	20,556	20,672	20,881	21,215	21,545	21,869	243,183
10. Return Requirements		<u>29,556</u>	<u>30,527</u>	<u>31,473</u>	<u>32,177</u>	<u>32,718</u>	<u>33,122</u>	<u>33,465</u>	<u>33,654</u>	<u>33,994</u>	<u>34,538</u>	<u>35,075</u>	<u>35,603</u>	<u>395,902</u>
11. Total Depreciation and Return		<u>119,168</u>	<u>122,625</u>	<u>125,837</u>	<u>128,019</u>	<u>129,515</u>	<u>130,661</u>	<u>131,618</u>	<u>132,087</u>	<u>132,891</u>	<u>134,198</u>	<u>135,535</u>	<u>137,384</u>	<u>1,559,538</u>

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

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Schedule of Capital Investment, Depreciation and Return
Actual for Months January 2001 through August 2001
Projected for Months September 2001 through December 2001

COMMERCIAL LOAD MANAGEMENT

	Beginning of Period	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Projected	October Projected	November Projected	December Projected	Total
1. Investment		0	0	0	0	0	0	0	0	0	0	0	0	0
2. Retirements		0	0	0	0	0	0	0	0	0	0	0	0	0
3. Depreciation Base		0	0	0	0	0	0	0	0	0	0	0	0	
4. Depreciation Expense		0	0	0	0	0	0	0	0	0	0	0	0	0
5. Cumulative Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6. Less: Accumulated Deprec	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7. Net Investment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8. Average Investment		0	0	0	0	0	0	0	0	0	0	0	0	
9. Return on Average Investment		0	0	0	0	0	0	0	0	0	0	0	0	0
10. Return Requirements		0	0	0	0	0	0	0	0	0	0	0	0	0
11. Total Depreciation and Return		0	0	0	0	0	0	0	0	0	0	0	0	0

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 January 2001 through August 2001
Projected for Months September 2001 through December 2001

Program Name	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Projected	October Projected	November Projected	December Projected	Grand Total
1 Heating and Cooling	43,087	51,752	71,104	104,343	77,267	105,255	86,234	112,646	69,969	69,969	69,969	69,969	931,564
2 Prime Time	1,199,384	1,101,309	1,021,087	883,866	857,809	955,301	933,717	888,340	920,380	912,902	1,072,978	1,135,691	11,882,764
3 Energy Audits	62,773	70,971	215,087	98,800	100,786	113,909	68,320	91,099	120,094	120,094	120,094	120,094	1,302,121
4 Cogeneration	15,226	22,224	23,161	29,365	23,766	20,588	23,117	22,950	26,244	26,244	26,244	26,244	285,373
5 Ceiling Insulation	39,611	72,299	49,066	86,093	81,627	47,263	75,345	77,167	67,671	67,671	67,671	67,671	799,155
6 Commercial Load Management	508	863	657	2,691	2,100	1,145	1,091	1,040	1,347	1,347	1,347	1,347	15,483
7 Commercial Lighting	302,725	14,740	3,332	6,100	1,682	5,180	2,376	9,727	46,496	46,496	46,496	46,496	531,846
8 Standby Generator	49,415	50,877	53,834	53,299	53,863	52,050	50,453	50,692	52,010	52,010	52,010	52,010	622,523
9 Conservation Value	35	0	0	39	0	1,051	30	1,307	23,135	23,135	23,135	23,135	95,002
10 Duct Repair	50,367	46,959	48,871	84,257	23,888	166,453	76,700	114,914	75,191	75,191	75,191	75,191	913,173
11 Green Energy Initiative	0	2,880	1,173	1,124	0	0	0	2,944	1,148	1,148	1,148	1,148	12,713
12 Industrial Load Management	0	0	0	0	0	0	0	0	0	0	0	0	0
13 DSM R&D (D&E)	555	139	399	416	218	448	73	0	319	319	319	319	3,524
14 Commercial Cooling	0	360	592	26	78	1,598	739	13,403	1,953	1,709	1,509	1,109	23,076
15 Residential New Construction	593	1,917	631	2,434	540	5,673	874	4,326	1,310	1,310	1,310	1,310	22,228
16 Common Expenses	<u>9,879</u>	<u>13,531</u>	<u>13,862</u>	<u>18,599</u>	<u>13,564</u>	<u>11,494</u>	<u>13,073</u>	<u>11,538</u>	<u>14,536</u>	<u>14,536</u>	<u>14,536</u>	<u>14,536</u>	<u>163,684</u>
17 Total	1,774,158	1,450,821	1,502,856	1,371,452	1,237,188	1,487,408	1,332,142	1,402,093	1,421,803	1,414,081	1,573,957	1,636,270	17,604,229
18 Less Included in Base Rates	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Recoverable Conservation Expenses	<u>1,774,158</u>	<u>1,450,821</u>	<u>1,502,856</u>	<u>1,371,452</u>	<u>1,237,188</u>	<u>1,487,408</u>	<u>1,332,142</u>	<u>1,402,093</u>	<u>1,421,803</u>	<u>1,414,081</u>	<u>1,573,957</u>	<u>1,636,270</u>	<u>17,604,229</u>

EXHIBIT NO. _____
DOCKET NO. 010002-EG
TAMPA ELECTRIC COMPANY
(HTB-2)
SCHEDULE C-3
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TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of True-up

Actual for Months January 2001 through August 2001
Projected for Months September 2001 through December 2001

B. CONSERVATION REVENUES	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Projected	October Projected	November Projected	December Projected	Grand 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)	<u>1,542,491</u>	<u>1,212,111</u>	<u>1,103,866</u>	<u>1,149,855</u>	<u>1,214,914</u>	<u>1,514,430</u>	<u>1,503,906</u>	<u>1,534,870</u>	<u>1,615,854</u>	<u>1,424,196</u>	<u>1,198,401</u>	<u>1,195,041</u>	<u>16,209,935</u>
3 Total Revenues	1,542,491	1,212,111	1,103,866	1,149,855	1,214,914	1,514,430	1,503,906	1,534,870	1,615,854	1,424,196	1,198,401	1,195,041	16,209,935
4 Prior Period True-up	<u>199,199</u>	<u>199,199</u>	<u>199,199</u>	<u>199,199</u>	<u>199,199</u>	<u>199,199</u>	<u>199,199</u>	<u>199,199</u>	<u>199,199</u>	<u>199,199</u>	<u>199,199</u>	<u>199,197</u>	<u>2,390,386</u>
5 Conservation Revenue Applicable to Period	1,741,690	1,411,310	1,303,065	1,349,054	1,414,113	1,713,629	1,703,105	1,734,069	1,815,053	1,623,395	1,397,600	1,394,238	18,600,321
6 Conservation Expenses (C-3, Page 4, Line 14)	<u>1,774,158</u>	<u>1,450,821</u>	<u>1,502,856</u>	<u>1,371,452</u>	<u>1,237,188</u>	<u>1,487,408</u>	<u>1,332,142</u>	<u>1,402,093</u>	<u>1,421,803</u>	<u>1,414,081</u>	<u>1,573,957</u>	<u>1,636,270</u>	<u>17,604,229</u>
7 True-up This Period (Line 5 - Line 6)	(32,468)	(39,511)	(199,791)	(22,398)	176,925	226,221	370,963	331,976	393,250	209,314	(176,357)	(242,032)	996,092
8 Interest Provision This Period (C-3, Page 6, Line 10)	11,418	9,146	7,365	5,609	4,574	4,292	4,512	4,784	5,466	6,210	5,623	4,281	73,280
9 True-up & Interest Provision Beginning of Period	2,390,386	2,170,137	1,940,573	1,548,948	1,332,960	1,315,260	1,346,574	1,522,850	1,660,411	1,859,928	1,876,253	1,506,320	2,390,386
10 Prior Period True-up Collected (Refunded)	<u>(199,199)</u>	<u>(199,199)</u>	<u>(199,199)</u>	<u>(199,199)</u>	<u>(199,199)</u>	<u>(199,199)</u>	<u>(199,199)</u>	<u>(199,199)</u>	<u>(199,199)</u>	<u>(199,199)</u>	<u>(199,199)</u>	<u>(199,197)</u>	<u>(2,390,386)</u>
11 End of Period Total Net True-up	<u>2,170,137</u>	<u>1,940,573</u>	<u>1,548,948</u>	<u>1,332,960</u>	<u>1,315,260</u>	<u>1,346,574</u>	<u>1,522,850</u>	<u>1,660,411</u>	<u>1,859,928</u>	<u>1,876,253</u>	<u>1,506,320</u>	<u>1,069,372</u>	<u>1,069,372</u>

* Net of Revenue Taxes

(A) Included in Line 6

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13.

Summary of Allocation	Forecast	Ratio	True Up
Demand	13,223,464	0.72	769,948
Energy	<u>5,156,476</u>	<u>0.28</u>	<u>299,424</u>
Total	<u>18,379,940</u>	<u>1.00</u>	<u>1,069,372</u>

EXHIBIT NO. _____
DOCKET NO. 010002-EG
TAMPA ELECTRIC COMPANY
(HTB-2)
SCHEDULE C-3
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TAMPA ELECTRIC COMPANY
Energy Conservation Adjustment
Calculation of Interest Provision

Actual for Months January 2001 through August 2001
Projected for Months September 2001 through December 2001

C. INTEREST PROVISION	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Actual	August Actual	September Projected	October Projected	November Projected	December Projected	Grand Total
1. Beginning True-up Amount (C-3, Page 5, Line 9)	\$2,390,386	\$2,170,137	\$1,940,573	\$1,548,948	\$1,332,960	\$1,315,260	\$1,346,574	\$1,522,850	\$1,660,411	\$1,859,928	\$1,876,253	\$1,506,320	
2. Ending True-up Amount Before Interest (C-3, Page 5, Lines 7 + 9 + 10)	2,158,719	1,931,427	1,541,583	1,327,351	1,310,686	1,342,282	1,518,338	1,655,627	1,854,462	1,870,043	1,500,697	1,065,091	
3. Total Beginning & Ending True-up	\$4,549,105	\$4,101,564	\$3,482,156	\$2,876,299	\$2,643,646	\$2,657,542	\$2,864,912	\$3,178,477	\$3,514,873	\$3,729,971	\$3,376,950	\$2,571,411	
4. Average True-up Amount (50% of Line 3)	\$2,274,553	\$2,050,782	\$1,741,078	\$1,438,150	\$1,321,823	\$1,328,771	\$1,432,456	\$1,589,239	\$1,757,437	\$1,864,986	\$1,688,475	\$1,285,706	
5. Interest Rate - First Day of Month	6.500%	5.550%	5.150%	5.000%	4.370%	3.940%	3.800%	3.750%	3.470%	4.000%	4.000%	4.000%	4.000%
6. Interest Rate - First Day of Next Month	5.550%	5.150%	5.000%	4.370%	3.940%	3.800%	3.750%	3.470%	4.000%	4.000%	4.000%	4.000%	4.000%
7. Total (Line 5 + Line 6)	12.050%	10.700%	10.150%	9.370%	8.310%	7.740%	7.550%	7.220%	7.470%	8.000%	8.000%	8.000%	8.000%
8. Average Interest Rate (50% of Line 7)	6.025%	5.350%	5.075%	4.685%	4.155%	3.870%	3.775%	3.610%	3.735%	4.000%	4.000%	4.000%	4.000%
9. Monthly Average Interest Rate (Line 8/12)	0.502%	0.446%	0.423%	0.390%	0.346%	0.323%	0.315%	0.301%	0.311%	0.333%	0.333%	0.333%	0.333%
10. Interest Provision (Line 4 x Line 9)	\$11,418	\$9,146	\$7,365	\$5,609	\$4,574	\$4,292	\$4,512	\$4,784	\$5,466	\$6,210	\$5,623	\$4,281	\$73,280

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TAMPA ELECTRIC COMPANY
Energy Conservation
Calculation of Conservation Revenues

Actual for Months January 2001 through August 2001
Projected for Months September 2001 through December 2001

(1) Months	(2) Firm MWH Sales	(3) Interruptible MWH Sales	(4) Clause Revenue Net of Revenue Taxes
January	1,449,920	154,107	1,542,491
February	1,154,879	138,013	1,212,111
March	1,060,495	148,958	1,103,866
April	1,112,474	120,227	1,149,855
May	1,166,312	136,922	1,214,914
June	1,448,794	131,747	1,514,430
July	1,453,274	74,498	1,503,906
August	1,471,100	119,180	1,534,870
September	1,544,895	130,505	1,615,854
October	1,366,240	132,129	1,424,196
November	1,156,439	137,685	1,198,401
December	1,148,643	138,354	1,195,041
Total	<u>15,533,465</u>	<u>1,562,325</u>	<u>16,209,935</u>

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PROGRAM DESCRIPTION AND PROGRESS

Program Title: HEATING AND COOLING

Program Description: This is a residential conservation program designed to reduce weather-sensitive peaks by providing incentives for the installation of high efficiency heating and air conditioning equipment at existing residences.

Program Projections: January 1, 2001 to December 31, 2001

There are 3,357 units projected to be installed and approved

January 1, 2002 to December 31, 2002

There are 3,200 units to be installed and approved.

**Program Fiscal
Expenditures:**

January 1, 2001 to December 31, 2001

Expenditures estimated for the period are \$931,564.

January 1, 2002 to December 31, 2002

Expenditures estimated for the period are \$787,415.

Program Progress

Summary:

Through December 31, 2000, there were 141,947 units installed and approved.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: PRIME TIME

Program Description: This is a residential load management program designed to directly control the larger loads in customers' homes such as air conditioning, water heating, electric space heating and pool pumps. Participating customers receive monthly credits on their electric bills.

Program Projections: January 1, 2001 to December 31, 2001

There are 75,008 projected customers for this program on a cumulative basis.

January 1, 2002 to December 31, 2002

There are 75,908 projected customers for this program on a cumulative basis.

Program Fiscal Expenditures:

January 1, 2001 to December 31, 2001

Estimated expenditures are \$11,822,764.

January 1, 2002 to December 31, 2002

Estimated expenditures are \$12,191,349.

Program Progress Summary:

There were 75,851 cumulative customers participating through December 31, 2000.

Breakdown is as follows:

Water Heating	70,367
Air Conditioning	52,510
Heating	55,305
Pool Pump	14,021

PROGRAM DESCRIPTION AND PROGRESS

Program Title: ENERGY AUDITS

Program Description: These are on-site and mail-in audits of residential, commercial and industrial premises that instruct customers on how to use conservation measures and practices to reduce their energy usage.

Program Projections: January 1, 2001 to December 31, 2001

Residential - 18,912 (RCS - 0; Free -6,911; Mail-in - 12,001)

Comm/Ind - 606 (Paid - 3; Free - 603)

January 1, 2002 to December 31, 2002

Residential - 19,500 (RCS - 0; Alt - 7,500; Mail-in - 12,000)

Comm/Ind - 437 (Paid - 2; Free - 435)

Program Fiscal Expenditures:

January 1, 2001 to December 31, 2001

Expenditures are expected to be \$1,302,121.

January 1, 2002 to December 31, 2002

Estimated costs are \$1,530,122.

Program Progress Summary:

Through December 31, 2000 the following audit totals are:

Residential RCS (Fee)	3,890
Residential Alt (Free)	186,514
Residential Mail-in	53,888
Commercial-Ind (Fee)	233
Commercial-Ind (Free)	13,277
Commercial Mail-in	1,477

PROGRAM DESCRIPTION AND PROGRESS

Program Title: COGENERATION

Program Description: This program encourages the development of cost-effective commercial and industrial cogeneration facilities through the evaluation and administration of standard offers and the negotiation of contracts for the purchase of firm capacity and energy.

Program Projections: January 1, 2001 to December 31, 2001

SO₂ scrubber construction is in final stages of completion for Clean Air Act Compliance at two existing Qualifying Facilities. One existing Qualifying Facility is near completion on construction of one additional unit. Will continue communication and interaction with all present and potential cogeneration customers.

January 1, 2002 to December 31, 2002

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

Program Fiscal Expenditures: January 1, 2001 to December 31, 2001

Expenditures are estimated to be \$285,373.

January 1, 2002 to December 31, 2002

Expenditures are estimated to be \$342,478.

Program Progress Summary:

The projected total maximum generation by electrically interconnected cogeneration during 2001 will be approximately 720 MW.

Continuing interaction with current and potential cogeneration developers for discussion regarding current cogeneration activities and future cogeneration construction activities. Currently there are 15 Qualifying Facilities with generation on-line in our service area.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: CEILING INSULATION

Program Description: This is a residential conservation program designed to reduce weather-sensitive peaks by providing incentives to encourage the installation of efficient levels of ceiling insulation.

Program Projections: January 1, 2001 to December 31, 2001

Approximately 5,895 participants are expected during this period.

January 1, 2002 to December 31, 2002

Approximately 5,550 participants are expected during this period.

Program Fiscal Expenditures:

January 1, 2001 to December 31, 2001

Expenditures are estimated to be \$799,155.

January 1, 2002 to December 31, 2002

Expenditures are estimated to be \$644,180.

Program Progress

Summary: Through December 31, 2000, there were 57,273 installations certified and paid.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: COMMERCIAL LOAD MANAGEMENT

Program Description: This is a load management program that achieves weather-sensitive demand reductions through load control of equipment at the facilities of firm commercial customers.

Program Projections: January 1, 2001 to December 31, 2001

No installations expected.

January 1, 2002 to December 31, 2002

Two installations expected.

**Program Fiscal
Expenditures:**

January 1, 2001 to December 31, 2001

Expenses of \$15,483 are estimated.

January 1, 2002 to December 31, 2002

Expenses of \$18,147 are estimated.

**Program Progress
Summary:**

Through December 31, 2000, there are 15 commercial installations in service.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: COMMERCIAL INDOOR LIGHTING

Program Description: This is a conservation program designed to reduce weather-sensitive peaks by encouraging investment in more efficient lighting technology in commercial facilities.

Program Projections: January 1, 2001 to December 31, 2001

During this period, 72 customers are expected to participate.

January 1, 2002 to December 31, 2002

During this period, 65 customers are expected to participate.

Program Fiscal Expenditures:

January 1, 2001 to December 31, 2001

Expenditures estimated for the period are \$531,846.

January 1, 2002 to December 31, 2002

Expenditures estimated for this period are \$428,754.

Program Progress Summary:

Through December 31, 2000, there were 807 customers that participated.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: STANDBY GENERATOR

Program Description: This is a program designed to utilize the emergency generation capacity at firm commercial/industrial facilities in order to reduce weather-sensitive peak demand.

Program Projections: January 1, 2001 to December 31, 2001

One installation is expected.

January 1, 2002 to December 31, 2002

Two installations are expected.

**Program Fiscal
Expenditures:**

January 1, 2001 to December 31, 2001

Expenditures estimated for the period are \$622,523.

January 1, 2002 to December 31, 2002

Expenditures estimated for the period are \$648,658.

**Program Progress
Summary:**

Through December 31, 2000, there are 41 customers participating.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: CONSERVATION VALUE

Program Description: This is an incentive program for firm commercial/industrial customers that encourages additional investments in substantial demand shifting or demand reduction measures.

Program Projections: January 1, 2001 to December 31, 2001

Six customers are expected to participate during this period.

January 1, 2002 to December 31, 2002

Three customers are expected to participate during this period.

Program Fiscal Expenditures:

January 1, 2001 to December 31, 2001

Estimated expenses are \$95,002.

January 1, 2002 to December 31, 2002

Estimated expenses are \$74,622.

Program Progress Summary:

Through December 31, 2000, there were 11 customers that 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: This is a residential conservation program designed to reduce weather-sensitive peaks by offering incentives to encourage the repair of the air distribution system in a residence.

Program Projections: January 1, 2001 to December 31, 2001

There are 2,033 repairs projected to be made.

January 1, 2002 to December 31, 2002

There are 3,000 repairs projected to be made.

**Program Fiscal
Expenditures:**

January 1, 2001 to December 31, 2001

Expenditures estimated for the period are \$913,173.

January 1, 2002 to December 31, 2002

Expenditures estimated for the period are \$1,078,048.

**Program Progress
Summary:**

Through December 31, 2000, there are 27,056 customers that have participated.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: GREEN PRICING INITIATIVE

Program Description: This is a three-year pilot initiative designed to assist in the delivery of renewable energy for the company's Pilot Green Energy Program. This specific effort provides funding for program administration, evaluation and market research.

Program Projections: January 1, 2001 to December 31, 2001

There are 192 customers with 288 subscribed blocks estimated for this period on a cumulative basis.

January 1, 2002 to December 31, 2002

There are 400 customers with 600 subscribed blocks estimated for this period on a cumulative basis.

Program Fiscal Expenditures:

January 1, 2001 to December 31, 2001

Expenditures estimated for the period are \$12,713.

January 1, 2002 to December 31, 2002

Expenditures estimated for the period are \$63,000.

Program Progress Summary:

Through August 2001, there are 128 customers with 194 blocks subscribed.

Program modifications approved by FPSC in Docket No. 010423-EG, Order No. PSC-01-1238-TRF-EI, issued June 4, 2001. The modification allows the program to expand the customer limit for blocks of energy subscribed. In addition, information on this program is now available on the Tampa Electric Company website.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: INDUSTRIAL LOAD MANAGEMENT

Program Description: This is a load management program for large industrial customers with interruptible loads of 500 kW or greater.

Program Projections: January 1, 2001 to December 31, 2001

No customers are expected to participate.

January 1, 2002 to December 31, 2002

See Program Progress Summary below.

Program Fiscal Expenditures:

January 1, 2001 to December 31, 2001

No expenses are expected.

January 1, 2002 to December 31, 2002

Expenditures are estimated to be \$231,996.

Program Progress Summary:

Program approved by FPSC in Docket No. 990037-EI, Order No. PSC-99-1778-FOF-EI, issued September 10, 1999. For 2001, no participation is expected based on the assessment for need determination. Should the assessment indicate an opportunity for customer participation during 2002, the projected expenditures above have been based on the current interruptible class load average per customer with the additional assumption that one incremental customer would replicate that average.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: DSM RESEARCH AND DEVELOPMENT (R&D)

Program Description: This is a five-year R&D program directed at end-use technologies (both residential and commercial) not yet commercially available or where insufficient data exists for measure evaluations specific to central Florida climate.

Program Projections: See Program Progress Summary.

Program Fiscal Expenditures:

January 1, 2001 to December 31, 2001

Expenditures are estimated at \$3,524.

January 1, 2002 to December 31, 2002

Expenditures are estimated at \$50,460.

Program Progress Summary:

For 2000 the testing is complete at one drug store site for a Refrigeration Door Heater Application. The testing is designed to evaluate the energy consumption and operating characteristics of this product versus baseline equipment. Based on the Commission's directive in Order No. PSC-00-0754-PAA-EG, Docket No. 991791-EG, Tampa Electric will pursue residential and commercial R & D projects during the next five years that have potential DSM opportunities.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: COMMERCIAL COOLING

Program Description: This is an incentive program to encourage the installation of high efficiency direct expansion (DX) commercial air conditioning equipment.

Program Projections: January 1, 2001 to December 31, 2001

There are 55 customers expected to participate.

January 1, 2002 to December 31, 2002

There are 57 customers expected to participate.

**Program Fiscal
Expenditures:**

January 1, 2001 to December 31, 2001

Expenditures are estimated at \$23,076.

January 1, 2002 to December 31, 2002

Expenditures are estimated at \$28,777.

**Program Progress
Summary:**

Through December 31, 2000, there was one customer that participated in this program.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: ENERGY PLUS HOMES

Program Description: This is a program that encourages the construction of new homes to be above the minimum energy efficiency levels required by the State of Florida Energy Efficiency Code for New Construction through the installation of high efficiency equipment and building envelope options.

Program Projections: January 1, 2001 to December 31, 2001

There are four customers expected to participate

January 1, 2002 to December 31, 2002

There are 150 customers expected to participate

Program Fiscal Expenditures: January 1, 2001 to December 31, 2001

Expenditures are estimated at \$22,228.

January 1, 2002 to December 31, 2002

Expenditures are estimated at \$45,767.

Program Progress Summary:

For 2000, this was a new residential conservation program approved by the Commission in Docket No. 991791-EG, Order No. PSC-00-0754-PAA-EG, issued April 17, 2000 as part of the company's Ten-Year DSM Plan for 2000-2009. Program development was completed 3rd quarter of 2000. Tampa Electric then began aggressively working with the residential new construction market to educate on building practices and techniques necessary to achieve program participation.

PROGRAM DESCRIPTION AND PROGRESS

Program Title: COMMON EXPENSES

Program Description: These are expenses common to all programs.

Program Projections: N/A

Program Fiscal

Expenditures: January 1, 2001 to December 31, 2001

Expenditures are estimated to be \$163,684.

January 1, 2002 to December 31, 2002

Expenditures are estimated at \$216,167

Program Progress

Summary: N/A

INPUT DATA -- PART 1
PROGRAM: Industrial Load Management

I. PROGRAM DEMAND SAVINGS AND LINE LOSSES

(1) CUSTOMER KW REDUCTION AT THE METER	2,843.00 KW /CUST
(2) GENERATOR KW REDUCTION PER CUSTOMER	2,996.20 KW GEN/CUST
(3) KW LINE LOSS PERCENTAGE	3.4 %
(4) GENERATION KWH REDUCTION PER CUSTOMER	670,386 KWH/CUST/YR
(5) KWH LINE LOSS PERCENTAGE	2.7 %
(6) GROUP LINE LOSS MULTIPLIER	1.0000
(7) CUSTOMER KWH PROGRAM INCREASE AT METER	0.0 KWH/CUST/YR
(8)* CUSTOMER KWH REDUCTION AT METER	652,286 KWH/CUST/YR

II. ECONOMIC LIFE & K FACTORS

(1) STUDY PERIOD FOR CONSERVATION PROGRAM	30 YEARS
(2) GENERATOR ECONOMIC LIFE	30 YEARS
(3) T & D ECONOMIC LIFE	30 YEARS
(4) K FACTOR FOR GENERATION	1.7164
(5) K FACTOR FOR T & D	1.7164
(6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)	0

III. UTILITY & CUSTOMER COSTS

(1) UTILITY NONRECURRING COST PER CUSTOMER	1,500.00 \$/CUST
(2) UTILITY RECURRING COST PER CUSTOMER	1,200.00 \$/CUST/YR
(3) UTILITY COST ESCALATION RATE	2.5 %
(4) CUSTOMER EQUIPMENT COST	10,000.00 \$/CUST
(5) CUSTOMER EQUIPMENT ESCALATION RATE	2.5 %
(6) CUSTOMER O & M COST	0.00 \$/CUST/YR
(7) CUSTOMER O & M ESCALATION RATE	2.5 %
(8)* CUSTOMER TAX CREDIT PER INSTALLATION	0.00 \$/CUST
(9)* CUSTOMER TAX CREDIT ESCALATION RATE	0.0 %
(10)* INCREASED SUPPLY COSTS	0.00 \$/CUST/YR
(11)* SUPPLY COSTS ESCALATION RATE	0.0 %
(12)* UTILITY DISCOUNT RATE	9.51%
(13)* UTILITY AFUDC RATE	7.79%
(14)* UTILITY NON RECURRING REBATE/INCENTIVE ...	0.00 \$/CUST
(15)* UTILITY RECURRING REBATE/INCENTIVE	144,303.00 \$/CUST/YR
(16)* UTILITY REBATE/INCENTIVE ESCAL RATE	0.0 %

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

IV. AVOIDED GENERATOR, TRANS. AND DIST. COSTS

(1) BASE YEAR	2001
(2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT	2004
(3) IN-SERVICE YEAR FOR AVOIDED T & D	2004
(4) BASE YEAR AVOIDED GENERATING UNIT COST	280.46 \$/KW
(5) BASE YEAR AVOIDED TRANSMISSION COST	0.00 \$/KW
(6) BASE YEAR DISTRIBUTION COST	0.00 \$/KW
(7) GEN, TRAN, & DIST COST ESCALATION RATE	2.6 %
(8) GENERATOR FIXED O & M COST	2.13 \$/KW/YR
(9) GENERATOR FIXED O&M ESCALATION RATE	2.5 %
(10) TRANSMISSION FIXED O & M COST	0.00 \$/KW/YR
(11) DISTRIBUTION FIXED O & M COST	0.00 \$/KW/YR
(12) T&D FIXED O&M ESCALATION RATE	2.5 %
(13) AVOIDED GEN UNIT VARIABLE O & M COSTS	0.299 CENTS/KWH
(14) GENERATOR VARIABLE O&M COST ESCALATION RATE	2.5 %
(15) GENERATOR CAPACITY FACTOR	2.7 %
(16) AVOIDED GENERATING UNIT FUEL COST	4.182 CENTS/KWH
(17) AVOIDED GEN UNIT FUEL ESCALATION RATE	3.69 %
(18)* AVOIDED PURCHASE CAPACITY COST PER KW	0.00 \$/KW/YR
(19)* CAPACITY COST ESCALATION RATE	0.0 %

V. NON-FUEL ENERGY AND DEMAND CHARGES

(1) NON-FUEL COST IN CUSTOMER BILL	1.370 CENTS/KWH
(2) NON-FUEL ESCALATION RATE	1.0 %
(3) CUSTOMER DEMAND CHARGE PER KW	7.25 \$/KW/MO
(4) DEMAND CHARGE ESCALATION RATE	1.0 %
(5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL	0 0

*** CALCULATED BENEFITS AND COSTS ***

(1)* TRC TEST - BENEFIT/COST RATIO	71 14
(2)* PARTICIPANT NET BENEFITS (NPV)	1,778
(3)* RIM TEST - BENEFIT/COST RATIO	1 20

CALCULATION OF AFUDC AND IN-SERVICE COST OF PLANT
 PLANT: 2004 AVOIDED UNIT

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
YEAR	NO YEARS BEFORE INSERVICE	PLANT ESCALATION RATE (%)	CUMULATIVE ESCALATION FACTOR	YEARLY EXPENDITURE (%)	ANNUAL SPENDING (\$/KW)	CUMULATIVE AVERAGE SPENDING (\$/KW)	CUMULATIVE SPENDING WITH AFUDC (\$/KW)	YEARLY TOTAL AFUDC (\$/KW)	INCREMENTAL YEAR-END BOOK VALUE (\$/KW)	CUMULATIVE YEAR-END BOOK VALUE (\$/KW)
1995	-9	0.0%	1.0000	0.0%	0.00	0.00	0.00	0.00	0.00	0.00
1996	-8	0.0%	1.0000	0.0%	0.00	0.00	0.00	0.00	0.00	0.00
1997	-7	0.0%	1.0000	0.0%	0.00	0.00	0.00	0.00	0.00	0.00
1998	-6	0.0%	1.0000	0.0%	0.00	0.00	0.00	0.00	0.00	0.00
1999	-5	0.0%	1.0000	0.0%	0.00	0.00	0.00	0.00	0.00	0.00
2000	-4	0.0%	1.0000	0.0%	0.00	0.00	0.00	0.00	0.00	0.00
2001	-3	2.6%	1.0260	9.0%	25.90	12.95	12.95	0.50	26.40	26.40
2002	-2	2.6%	1.0527	26.0%	76.76	64.28	64.78	2.54	79.30	105.70
2003	-1	2.6%	1.0800	35.0%	106.02	155.67	158.71	6.30	112.32	218.02
2004	0	2.6%	1.1081	30.0%	93.24	255.30	264.64	9.35	102.59	320.61
				1.00	301.92			18.69	320.61	

IN-SERVICE YEAR = 2004

PLANT COSTS (2001 \$) \$280.46

AFUDC RATE 7.79%

INPUT DATA – PART 2

PROGRAM: Industrial Load Management

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
YEAR	CUMULATIVE TOTAL PARTICIPATING CUSTOMERS	ADJUSTED CUMULATIVE PARTICIPATING CUSTOMERS	UTILITY AVERAGE SYSTEM FUEL COSTS (C/KWH)	AVOIDED MARGINAL FUEL COST (C/KWH)	INCREASED MARGINAL FUEL COST (C/KWH)	REPLACEMENT FUEL COST (C/KWH)	PROGRAM KW EFFECTIVENESS FACTOR	PROGRAM KWH EFFECTIVENESS FACTOR
2001	1	1	2.62	4.05	0.00	0.00	1.00	1.00
2002	1	1	2.38	4.02	0.00	0.00	1.00	1.00
2003	1	1	2.27	3.34	0.00	0.00	1.00	1.00
2004	1	1	2.23	3.40	0.00	0.00	1.00	1.00
2005	1	1	2.39	3.52	0.00	0.00	1.00	1.00
2006	1	1	2.53	3.60	0.00	0.00	1.00	1.00
2007	1	1	2.63	3.66	0.00	0.00	1.00	1.00
2008	1	1	2.77	3.81	0.00	0.00	1.00	1.00
2009	1	1	2.87	4.12	0.00	0.00	1.00	1.00
2010	1	1	2.99	4.14	0.00	0.00	1.00	1.00
2011	1	1	3.18	4.41	0.00	0.00	1.00	1.00
2012	1	1	3.22	4.45	0.00	0.00	1.00	1.00
2013	1	1	3.34	4.80	0.00	0.00	1.00	1.00
2014	1	1	3.47	5.03	0.00	0.00	1.00	1.00
2015	1	1	3.60	5.64	0.00	0.00	1.00	1.00
2016	1	1	3.77	5.59	0.00	0.00	1.00	1.00
2017	1	1	3.89	5.79	0.00	0.00	1.00	1.00
2018	1	1	4.05	5.89	0.00	0.00	1.00	1.00
2019	1	1	4.22	6.32	0.00	0.00	1.00	1.00
2020	1	1	4.41	6.68	0.00	0.00	1.00	1.00
2021	1	1	4.52	6.84	0.00	0.00	1.00	1.00
2022	1	1	4.68	7.10	0.00	0.00	1.00	1.00
2023	1	1	4.81	7.27	0.00	0.00	1.00	1.00
2024	1	1	4.96	7.43	0.00	0.00	1.00	1.00
2025	1	1	5.11	7.91	0.00	0.00	1.00	1.00
2026	1	1	5.27	8.04	0.00	0.00	1.00	1.00
2027	1	1	5.42	8.38	0.00	0.00	1.00	1.00
2028	1	1	5.65	8.73	0.00	0.00	1.00	1.00
2029	1	1	5.78	8.93	0.00	0.00	1.00	1.00
2030	1	1	5.91	9.12	0.00	0.00	1.00	1.00

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AVOIDED GENERATION UNIT BENEFITS
 PROGRAM: Industrial Load Management

* UNIT SIZE OF AVOIDED GENERATION UNIT = 2,996 0 KW
 * INSERVICE COSTS OF AVOIDED GEN UNIT (000) = \$960 5

(1)	(1A)*	(2)	(2A)*	(3)	(4)	(5)	(6)	(6A)*	(7)
REVENUE REQUIREMENT	FACTOR	AVOIDED GEN UNIT CAPACITY COST \$(000)	AVOIDED ANNUAL UNIT KWH GEN (000)	AVOIDED UNIT FIXED O&M COST \$(000)	AVOIDED GEN UNIT VARIABLE O&M COST \$(000)	AVOIDED GEN UNIT FUEL COST \$(000)	REPLACEMENT FUEL COST \$(000)	AVOIDED PURCHASED CAPACITY COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)
YEAR									
2001	0.000	0	0	0	0	0	0	0	0
2002	0.000	0	0	0	0	0	0	0	0
2003	0.000	0	0	0	0	0	0	0	0
2004	0.199	192	709	7	2	33	0	0	234
2005	0.193	185	709	7	2	34	0	0	229
2006	0.185	177	709	7	2	36	0	0	222
2007	0.177	170	709	7	2	37	0	0	217
2008	0.170	163	709	8	3	38	0	0	212
2009	0.164	157	709	8	3	40	0	0	207
2010	0.158	151	709	8	3	41	0	0	203
2011	0.151	145	709	8	3	43	0	0	199
2012	0.145	140	709	8	3	44	0	0	195
2013	0.139	134	709	9	3	46	0	0	191
2014	0.133	128	709	9	3	47	0	0	187
2015	0.127	122	709	9	3	49	0	0	184
2016	0.121	117	709	9	3	51	0	0	180
2017	0.115	111	709	9	3	53	0	0	176
2018	0.109	105	709	10	3	55	0	0	173
2019	0.104	100	709	10	3	57	0	0	170
2020	0.101	97	709	10	3	59	0	0	169
2021	0.099	95	709	10	3	61	0	0	170
2022	0.096	92	709	11	4	63	0	0	170
2023	0.094	90	709	11	4	66	0	0	170
2024	0.091	88	709	11	4	68	0	0	171
2025	0.089	85	709	12	4	71	0	0	171
2026	0.087	83	709	12	4	73	0	0	172
2027	0.084	81	709	12	4	76	0	0	173
2028	0.082	79	709	12	4	79	0	0	174
2029	0.080	77	709	13	4	82	0	0	175
2030	0.077	74	709	13	4	85	0	0	176
NOMINAL		3,238	19,134	260	87	1,466	0	0	5,071
NPV		1,155		68	23	365	0	0	1,610

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

AVOIDED T & D AND PROGRAM FUEL SAVINGS
PROGRAM. Industrial Load Management

* INSERVICE COSTS OF AVOIDED TRANS. (000) = \$0 0
* INSERVICE COSTS OF AVOIDED DIST. (000) = \$0 0

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
YEAR	AVOIDED TRANSMISSION CAPACITY COST \$(000)	AVOIDED TRANSMISSION O&M COST \$(000)	TOTAL AVOIDED TRANSMISSION COST \$(000)	AVOIDED DISTRIBUTION CAPACITY COST \$(000)	AVOIDED DISTRIBUTION O&M COST \$(000)	TOTAL AVOIDED DISTRIBUTION COST \$(000)	PROGRAM FUEL SAVINGS \$(000)
2001	0	0	0	0	0	0	14
2002	0	0	0	0	0	0	27
2003	0	0	0	0	0	0	22
2004	0	0	0	0	0	0	23
2005	0	0	0	0	0	0	24
2006	0	0	0	0	0	0	24
2007	0	0	0	0	0	0	25
2008	0	0	0	0	0	0	26
2009	0	0	0	0	0	0	28
2010	0	0	0	0	0	0	28
2011	0	0	0	0	0	0	30
2012	0	0	0	0	0	0	30
2013	0	0	0	0	0	0	32
2014	0	0	0	0	0	0	34
2015	0	0	0	0	0	0	38
2016	0	0	0	0	0	0	37
2017	0	0	0	0	0	0	39
2018	0	0	0	0	0	0	39
2019	0	0	0	0	0	0	42
2020	0	0	0	0	0	0	45
2021	0	0	0	0	0	0	46
2022	0	0	0	0	0	0	48
2023	0	0	0	0	0	0	49
2024	0	0	0	0	0	0	50
2025	0	0	0	0	0	0	53
2026	0	0	0	0	0	0	54
2027	0	0	0	0	0	0	56
2028	0	0	0	0	0	0	59
2029	0	0	0	0	0	0	60
2030	0	0	0	0	0	0	61
NOMINAL	0	0	0	0	0	0	1,140
NPV	0	0	0	0	0	0	316

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

(1)	(2)	(3)	(4)	(5)	(6)	(7)
YEAR	REDUCTION IN KWH GENERATION NET NEW CUST KWH (000)	AVOIDED MARGINAL FUEL COST - REDUCED KWH \$(000)	INCREASE IN KWH GENERATION NET NEW CUST KWH (000)	INCREASED MARGINAL FUEL COST - INCREASE KWH \$(000)	NET PROGRAM AVOIDED FUEL SAVINGS \$(000)	EFFECTIVE PROGRAM FUEL SAVINGS \$(000)
2001	335	14	0	0	14	14
2002	670	27	0	0	27	27
2003	670	22	0	0	22	22
2004	670	23	0	0	23	23
2005	670	24	0	0	24	24
2006	670	24	0	0	24	24
2007	670	25	0	0	25	25
2008	670	26	0	0	26	26
2009	670	28	0	0	28	28
2010	670	28	0	0	28	28
2011	670	30	0	0	30	30
2012	670	30	0	0	30	30
2013	670	32	0	0	32	32
2014	670	34	0	0	34	34
2015	670	38	0	0	38	38
2016	670	37	0	0	37	37
2017	670	39	0	0	39	39
2018	670	39	0	0	39	39
2019	670	42	0	0	42	42
2020	670	45	0	0	45	45
2021	670	46	0	0	46	46
2022	670	48	0	0	48	48
2023	670	49	0	0	49	49
2024	670	50	0	0	50	50
2025	670	53	0	0	53	53
2026	670	54	0	0	54	54
2027	670	56	0	0	56	56
2028	670	59	0	0	59	59
2029	670	60	0	0	60	60
2030	670	61	0	0	61	61
NOMINAL	19,776	1,140	0	0	1,140	1,140
NPV.		316		0	316	316

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

(1) YEAR	(2) UTILITY PROGRAM COSTS & REBATES			(3) UTILITY PROGRAM COSTS & REBATES			(4) UTILITY PROGRAM COSTS & REBATES			(5) PARTICIPATING CUSTOMER COSTS & BENEFITS			(6) PARTICIPATING CUSTOMER COSTS & BENEFITS			(7) PARTICIPATING CUSTOMER COSTS & BENEFITS			(18) EFFECT REVENUE INC IN BILL \$(000)
	NONREC. COSTS \$(000)	UTIL RECUR COSTS \$(000)	UTIL PGM COSTS \$(000)	UTIL NONREC. REBATES \$(000)	UTIL RECUR. REBATES \$(000)	TOTAL REBATE/ INCENT. COSTS \$(000)	PARTIC. CUST EQUIP COSTS \$(000)	PARTIC. CUST O & M COSTS \$(000)	TOTAL PARTIC COSTS \$(000)	REDUCT CUST KWH (000)	RED REV. - FUEL PORTION \$(000)	RED REV NONFUEL PORTION \$(000)	EFFECT. REV. TO CUST \$(000)	INC CUST. KWH (000)	INC. REV. - FUEL PORTION \$(000)	INC REV NONFUEL PORTION			
2001	2	1	2	0	72	72	10	0	10	326	9	4	13	0	0	0	0		
2002	0	1	1	0	144	144	0	0	0	652	16	9	25	0	0	0	0		
2003	0	1	1	0	144	144	0	0	0	652	15	9	24	0	0	0	0		
2004	0	1	1	0	144	144	0	0	0	652	15	9	24	0	0	0	0		
2005	0	1	1	0	144	144	0	0	0	652	16	9	25	0	0	0	0		
2006	0	1	1	0	144	144	0	0	0	652	17	9	26	0	0	0	0		
2007	0	1	1	0	144	144	0	0	0	652	17	9	27	0	0	0	0		
2008	0	1	1	0	144	144	0	0	0	652	18	10	28	0	0	0	0		
2009	0	1	1	0	144	144	0	0	0	652	19	10	28	0	0	0	0		
2010	0	1	1	0	144	144	0	0	0	652	20	10	29	0	0	0	0		
2011	0	2	2	0	144	144	0	0	0	652	21	10	31	0	0	0	0		
2012	0	2	2	0	144	144	0	0	0	652	21	10	31	0	0	0	0		
2013	0	2	2	0	144	144	0	0	0	652	22	10	32	0	0	0	0		
2014	0	2	2	0	144	144	0	0	0	652	23	10	33	0	0	0	0		
2015	0	2	2	0	144	144	0	0	0	652	23	10	34	0	0	0	0		
2016	0	2	2	0	144	144	0	0	0	652	25	10	35	0	0	0	0		
2017	0	2	2	0	144	144	0	0	0	652	25	10	36	0	0	0	0		
2018	0	2	2	0	144	144	0	0	0	652	26	11	37	0	0	0	0		
2019	0	2	2	0	144	144	0	0	0	652	28	11	38	0	0	0	0		
2020	0	2	2	0	144	144	0	0	0	652	29	11	40	0	0	0	0		
2021	0	2	2	0	144	144	0	0	0	652	29	11	40	0	0	0	0		
2022	0	2	2	0	144	144	0	0	0	652	31	11	42	0	0	0	0		
2023	0	2	2	0	144	144	0	0	0	652	31	11	42	0	0	0	0		
2024	0	2	2	0	144	144	0	0	0	652	32	11	44	0	0	0	0		
2025	0	2	2	0	144	144	0	0	0	652	33	11	45	0	0	0	0		
2026	0	2	2	0	144	144	0	0	0	652	34	11	46	0	0	0	0		
2027	0	2	2	0	144	144	0	0	0	652	35	12	47	0	0	0	0		
2028	0	2	2	0	144	144	0	0	0	652	37	12	49	0	0	0	0		
2029	0	2	2	0	144	144	0	0	0	652	38	12	50	0	0	0	0		
2030	0	2	2	0	144	144	0	0	0	652	39	12	50	0	0	0	0		
	2	52	54	0	4,257	4,257	10	0	10	19,242	741	306	1,048	0	0	0	0		
	2	16	17	0	1,481	1,481	10	0	10		207	100	307		0	0	0		

* SUPPLEMENTAL INFORMATION NOT SPECIFIED IN WORKBOOK

TOTAL RESOURCE COST TESTS
PROGRAM. Industrial Load Management

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	PARTICIPANT PROGRAM COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT BENEFITS \$(000)	AVOIDED T & D BENEFITS \$(000)	PROGRAM FUEL SAVINGS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)	
2001	0	2	10	0	12	0	0	14	0	14	1	1	
2002	0	1	0	0	1	0	0	27	0	27	26	25	
2003	0	1	0	0	1	0	0	22	0	22	21	43	
2004	0	1	0	0	1	234	0	23	0	257	255	237	
2005	0	1	0	0	1	229	0	24	0	252	251	411	
2006	0	1	0	0	1	222	0	24	0	246	245	567	
2007	0	1	0	0	1	217	0	25	0	241	240	706	
2008	0	1	0	0	1	212	0	26	0	237	236	831	
2009	0	1	0	0	1	207	0	28	0	235	233	944	
2010	0	1	0	0	1	203	0	28	0	231	229	1,045	
2011	0	2	0	0	2	199	0	30	0	228	227	1,136	
2012	0	2	0	0	2	195	0	30	0	225	223	1,219	
2013	0	2	0	0	2	191	0	32	0	223	222	1,293	
2014	0	2	0	0	2	187	0	34	0	221	219	1,360	
2015	0	2	0	0	2	184	0	38	0	221	220	1,422	
2016	0	2	0	0	2	180	0	37	0	217	216	1,477	
2017	0	2	0	0	2	176	0	39	0	215	213	1,527	
2018	0	2	0	0	2	173	0	39	0	212	210	1,572	
2019	0	2	0	0	2	170	0	42	0	213	211	1,613	
2020	0	2	0	0	2	169	0	45	0	214	212	1,651	
2021	0	2	0	0	2	170	0	46	0	216	214	1,686	
2022	0	2	0	0	2	170	0	48	0	218	216	1,718	
2023	0	2	0	0	2	170	0	49	0	219	217	1,747	
2024	0	2	0	0	2	171	0	50	0	221	219	1,774	
2025	0	2	0	0	2	171	0	53	0	225	222	1,799	
2026	0	2	0	0	2	172	0	54	0	226	224	1,822	
2027	0	2	0	0	2	173	0	56	0	229	227	1,844	
2028	0	2	0	0	2	174	0	59	0	233	230	1,863	
2029	0	2	0	0	2	175	0	60	0	235	233	1,882	
2030	0	2	0	0	2	176	0	61	0	238	235	1,899	
NOMINAL	0	54	10	0	64	5,071	0	1,140	0	6,211	6,147		
NPV	0	17	10	0	27	1,610	0	316	0	1,926	1,899		
Discount Rate		9.51%	Benefit/Cost Ratio - [col (11)/col (6)]										

PARTICIPANT COSTS AND BENEFITS
PROGRAM: Industrial Load Management

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
YEAR	SAVINGS IN					TOTAL BENEFITS \$(000)	CUSTOMER EQUIPMENT COSTS \$(000)	CUSTOMER O & M COSTS \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	NET BENEFITS \$(000)	CUMULATIVE DISCOUNTED NET BENEFITS \$(000)
	PARTICIPANTS BILL \$(000)	TAX CREDITS \$(000)	UTILITY REBATES \$(000)	OTHER BENEFITS \$(000)								
2001	13	0	72	0	85	10	0	0	10	75	75	
2002	25	0	144	0	169	0	0	0	0	169	229	
2003	24	0	144	0	168	0	0	0	0	168	370	
2004	24	0	144	0	168	0	0	0	0	168	498	
2005	25	0	144	0	169	0	0	0	0	169	615	
2006	26	0	144	0	170	0	0	0	0	170	723	
2007	27	0	144	0	171	0	0	0	0	171	822	
2008	28	0	144	0	172	0	0	0	0	172	913	
2009	28	0	144	0	173	0	0	0	0	173	997	
2010	29	0	144	0	174	0	0	0	0	174	1,074	
2011	31	0	144	0	175	0	0	0	0	175	1,144	
2012	31	0	144	0	175	0	0	0	0	175	1,209	
2013	32	0	144	0	176	0	0	0	0	176	1,268	
2014	33	0	144	0	177	0	0	0	0	177	1,322	
2015	34	0	144	0	178	0	0	0	0	178	1,372	
2016	35	0	144	0	179	0	0	0	0	179	1,418	
2017	36	0	144	0	180	0	0	0	0	180	1,460	
2018	37	0	144	0	181	0	0	0	0	181	1,499	
2019	38	0	144	0	183	0	0	0	0	183	1,534	
2020	40	0	144	0	184	0	0	0	0	184	1,567	
2021	40	0	144	0	185	0	0	0	0	185	1,597	
2022	42	0	144	0	186	0	0	0	0	186	1,625	
2023	42	0	144	0	187	0	0	0	0	187	1,650	
2024	44	0	144	0	188	0	0	0	0	188	1,673	
2025	45	0	144	0	189	0	0	0	0	189	1,693	
2026	46	0	144	0	190	0	0	0	0	190	1,714	
2027	47	0	144	0	191	0	0	0	0	191	1,732	
2028	49	0	144	0	193	0	0	0	0	193	1,749	
2029	50	0	144	0	194	0	0	0	0	194	1,764	
2030	50	0	144	0	195	0	0	0	0	195	1,778	
NOMINAL	1,048	0	4,257	0	5,305	10	0	0	10	5,295		
NPV	307	0	1,481	0	1,788	10	0	0	10	1,778		

In service year of gen unit: 2004
Discount rate: 9.51%

RATE IMPACT TEST
PROGRAM: Industrial Load Management

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
YEAR	INCREASED SUPPLY COSTS \$(000)	UTILITY PROGRAM COSTS \$(000)	INCENTIVES \$(000)	REVENUE LOSSES \$(000)	OTHER COSTS \$(000)	TOTAL COSTS \$(000)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	AVOIDED T & D BENEFITS \$(000)	REVENUE GAINS \$(000)	OTHER BENEFITS \$(000)	TOTAL BENEFITS \$(000)	NET BENEFITS TO ALL CUSTOMERS \$(000)	CUMULATIVE DISCOUNTED NET BENEFIT \$(000)
2001	0	2	72	4	0	79	14	0	0	0	14	(65)	(65)
2002	0	1	144	9	0	155	27	0	0	0	27	(128)	(182)
2003	0	1	144	9	0	155	22	0	0	0	22	(132)	(292)
2004	0	1	144	9	0	155	257	0	0	0	257	102	(215)
2005	0	1	144	9	0	155	252	0	0	0	252	97	(147)
2006	0	1	144	9	0	155	246	0	0	0	246	91	(89)
2007	0	1	144	9	0	155	241	0	0	0	241	86	(39)
2008	0	1	144	10	0	155	237	0	0	0	237	82	4
2009	0	1	144	10	0	155	235	0	0	0	235	79	43
2010	0	1	144	10	0	156	231	0	0	0	231	75	76
2011	0	2	144	10	0	156	228	0	0	0	228	73	105
2012	0	2	144	10	0	156	225	0	0	0	225	69	131
2013	0	2	144	10	0	156	223	0	0	0	223	67	153
2014	0	2	144	10	0	156	221	0	0	0	221	65	173
2015	0	2	144	10	0	156	221	0	0	0	221	65	191
2016	0	2	144	10	0	156	217	0	0	0	217	61	207
2017	0	2	144	10	0	157	215	0	0	0	215	59	221
2018	0	2	144	11	0	157	212	0	0	0	212	58	233
2019	0	2	144	11	0	157	213	0	0	0	213	56	243
2020	0	2	144	11	0	157	214	0	0	0	214	57	254
2021	0	2	144	11	0	157	216	0	0	0	216	58	263
2022	0	2	144	11	0	157	218	0	0	0	218	60	272
2023	0	2	144	11	0	157	219	0	0	0	219	62	280
2024	0	2	144	11	0	158	221	0	0	0	221	63	288
2025	0	2	144	11	0	158	225	0	0	0	225	67	296
2026	0	2	144	11	0	158	226	0	0	0	226	68	303
2027	0	2	144	12	0	158	229	0	0	0	229	71	310
2028	0	2	144	12	0	158	233	0	0	0	233	74	316
2029	0	2	144	12	0	159	235	0	0	0	235	77	322
2030	0	2	144	12	0	159	238	0	0	0	238	79	328
NOMINAL	0	54	4,257	306	0	4,617	6,211	0	0	0	6,211	1,594	
NPV	0	17	1,481	100	0	1,598	1,926	0	0	0	1,926	328	

Discount rate 9.51% Benefit/Cost Ratio - [col (12)/col (7)] 1.20