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June 15, 2007

HAND DELIVERED

RECEIVED-FPSC  
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COMMISSION  
CLERK  
R. V. N.

Ms. Ann Cole, Director  
Division of Commission Clerk  
and Administrative Services  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

Re: Petition for Approval of Modifications to Tampa Electric  
Company's Demand Side Management Plan

070375-EG


Dear Ms. Cole:

Enclosed for filing in the above-styled matter are the original and seven (7) copies of  
Petition for Approval of Modifications to Tampa Electric Company's Demand Side Management  
Plan.

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

JDB/pp  
Enclosures

DOCUMENT NUMBER - DATE  
04818 JUN 15 2007  
FPSC-COMMISSION CLERK

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition for Approval of Modifications )  
To Tampa Electric Company's Demand Side )  
Management Plan )

DOCKET NO. 070375 - EG  
Filed: June 15, 2007

**PETITION FOR APPROVAL OF MODIFICATIONS TO  
TAMPA ELECTRIC COMPANY'S DEMAND SIDE MANAGEMENT PLAN**

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Tampa Electric Company ("Tampa Electric" or "the company") pursuant to Section 366.82, Florida Statutes and Rule 25-17.0021, Florida Administrative Code, files this petition with the Florida Public Service Commission ("the Commission") for approval of modifications to the company's Demand Side Management ("DSM") Plan as described in this petition and to authorize Tampa Electric to recover through its Energy Conservation Cost Recovery ("ECCR") clause reasonable and prudent expenditures associated with the implementation of such modifications to Tampa Electric's DSM Plan. Approval of the modifications to the company's plan will help further the objectives of the Florida Energy Efficiency Conservation Act ("FEECA") by cost-effectively reducing the growth rate of energy consumption, weather sensitive peak demand and increasing the efficiency of the electrical system. In support of this petition the company states:

1. The name, address and telephone number of the petitioner are as follows:

Tampa Electric Company  
Post Office Box 111  
Tampa, FL 33601  
(813) 228-4111  
(813) 228-1770 (fax)

2. Tampa Electric requests that copies of all pleadings, orders, notices and other documents submitted in this proceeding be furnished to the following:

DOCUMENT NUMBER-DATE

04818 JUN 15 2007

FPSC-COMMISSION CLERK

**Paula Brown**  
Administrator, Regulatory Coordination  
Tampa Electric Company  
Post Office Box 111  
Tampa, FL 33601  
(813) 228-1444  
(813) 228-1770 (fax)

**Lee L. Willis**  
James D. Beasley  
Ausley & McMullen  
Post Office Box 391  
Tallahassee, FL 32302  
(850) 224-9115  
(850) 222-7952 (fax)

3. Tampa Electric is subject to FEECA, Sections 366.80-366.85 and 403.519, Florida Statutes (2006) and its ECCR clause is subject to the Commission's jurisdiction. Pursuant to FEECA and Commission rules implementing FEECA, Tampa Electric is required to seek the Commission's approval of any amendments or modifications to its approved DSM Plan and is entitled to seek recovery of associated expenditures. Tampa Electric's current DSM Plan was approved by the Commission in Docket No. 040033-EG, Order No. PSC-05-0181-PAA-EG, issued February 16, 2005. Tampa Electric has a substantial interest in whether the Commission approves Tampa Electric's requested modifications to its DSM Plan and authorizes cost recovery for plan implementation expenditures.

**Proposed Modifications to Existing Tampa Electric DSM Plan**

4. Tampa Electric's current DSM Plan includes seven residential programs, eight commercial/industrial programs, a residential and commercial research and development program, a renewable energy program, a pilot residential price responsive load management program and the administrative activities associated with cogeneration. Annually, Tampa Electric evaluates its DSM Plan for cost-effectiveness. The recent completion of this evaluation process gave two clear indications: 1) certain DSM programs could be modified in such a manner as to increase the potential of customer participation, and 2) new DSM programs for both the residential and commercial sectors could be developed. The primary reason for these new

and modified DSM programs stems from increased avoided costs, namely, increased avoided unit cost and increased fuel cost.

5. Concerning Tampa Electric's existing DSM programs, the company wishes to continue four of the programs with no modifications, namely, Renewable Energy, Commercial/Industrial Audit (free), Comprehensive Commercial/Industrial Audit (paid) and Industrial Load Management. However, Tampa Electric is proposing modifications to nine of the company's existing DSM programs: Residential Walk-through Audit (free), Residential Duct Repair, Residential Heating and Cooling, Residential New Construction, Commercial Load Management, Commercial Cooling, Commercial Indoor Lighting, Standby Generator and Conservation Value. In addition to the existing program modifications listed above, Tampa Electric is proposing the creation of 12 new programs. These new programs include: Residential Telephone Audit, Educational Energy Awareness (pilot), Residential Building Envelope Improvement, Residential Low Income, Commercial Duct Repair, Commercial Building Envelope Improvement, Energy Efficient Motors, Commercial Demand Response, Commercial Chillers, Commercial Lighting Occupancy Sensors, Commercial Refrigeration and Commercial Water Heating.

6. Appendix A to this petition provides a summary of the new and modified residential and commercial programs, respectively, proposed by Tampa Electric. Appendix B contains detailed residential and commercial program descriptions. Appendix C contains the Commission prescribed cost-effectiveness test results for each program and Appendix D includes tariff revisions associated with applicable program modifications.

7. With the company's proposed new and modified DSM program offerings, Tampa Electric recognizes that the Commission's DSM goals approved in Docket No. 040033-EG,

Order No. PSC-04-0765-PAA-EG, issued August 9, 2004, should increase to reflect the company's additional conservation activities. Therefore, Appendix E to this petition contains the company's proposed new goals for the remaining 2005-2014 DSM planning period.

8. The purpose of Tampa Electric's proposed modifications and additions to its current DSM Plan is to maximize the availability of cost-effective demand-side opportunities to the company's customers. Tampa Electric believes that the end result will be greater participation in the company's DSM Programs, resulting in increased demand and energy reductions due to the higher participation levels.

9. In Docket No. 040033-EG, Order No PSC-05-0181-PAA-EG, issued February 16, 2005, the Commission determined that Tampa Electric's residential direct load control program known as Prime Time was no longer cost-effective and ordered the discontinuation of future program marketing. Therefore, as customers moved out of homes with functioning Prime Time equipment, the company was no longer able to retain those residences on the program. Participation at the time the program was discontinued in February 2005 was 70,500 customers. Current participation, through April 2007, is 55,792 customers for a net loss of 14,708 customers. In as much as the existing load management equipment and its annual maintenance cost were deemed cost-effective at the time it was installed in the residence, Tampa Electric requests from the Commission the ability to retain those residences with existing Prime Time load control equipment by transferring the functionality and monthly credits to the next occupant of the residence. This would not involve any incremental new equipment; it would simply allow Tampa Electric to continue to have a functioning cost-effective, demand reducing resource at its disposal to meet the company's growing system peak.

10. Tampa Electric will initiate the proposed program modifications and additions and the necessary training of personnel after the company's petition and accompanying documentation has been approved by the Commission. Any changes to existing DSM program infrastructure and administration necessary to deliver the new program offerings will be facilitated as quickly as possible to expedite initial customer participation.

11. The proposed modifications to Tampa Electric's DSM Plan are cost-effective. Results shown in Appendix C, using the Commission prescribed cost-effectiveness methodology, indicate that DSM program cost-effectiveness can be meaningfully calculated.

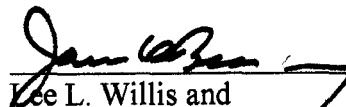
12. Tampa Electric's proposed modifications to the company's DSM Plan will further help Tampa Electric achieve the goals set forth in FEECA and the Florida Administrative Code Rule 25-17.001. The proposed modifications are designed to cost-effectively reduce the growth of weather-sensitive peak demand, reduce and control the growth rate of energy consumption, increase the conservation of expensive resources and increase the efficiency of the electric system.

13. Tampa Electric is not aware of any disputed issues of material fact relative to the program modifications and additions proposed herein. Tampa Electric's proposed modifications to its DSM goals as reflected in Appendix E and the proposed modifications to its DSM Plan, as reflected in Appendix B, should be approved, including the tariff revisions contained in Appendix D, which are necessary to implement the proposed modifications. The Commission should authorize recovery of reasonable and prudent expenditures associated with Tampa Electric's DSM Plan, as modified, through the company's ECCR clause. Florida Statutes Sections 366.82(2), 366.06(1), and Florida Administrative Code Rule 25-17.0021 entitle Tampa Electric to relief.

**WHEREFORE**, Tampa Electric respectfully requests that the Commission: (1) approve Tampa Electric's proposed modifications to its DSM Plan as reflected in Appendices A and B to this petition, as well as the tariff revisions in Appendix D, (2) authorize Tampa Electric to recover, through its ECCR clause, reasonable and prudent expenditures associated with the implementation of the modifications to Tampa Electric's DSM Plan and grant such other relief as may be appropriate, and (3) expedite the treatment of this petition so that Tampa Electric's customers may realize the benefits of the proposed modifications in the near term.

DATED this 15th day of June, 2007.

Respectfully submitted,

  
\_\_\_\_\_  
Lee L. Willis and  
James D. Beasley  
Ausley & McMullen  
Post Office Box 391  
Tallahassee, FL 32302  
(850) 224-9115  
ATTORNEYS FOR TAMPA ELECTRIC  
COMPANY

## Appendix A



## SUMMARY OF MODIFICATIONS AND ADDITIONS TO TAMPA ELECTRIC'S RESIDENTIAL DSM PLAN

| Residential Programs  | Measures   | Brief Description  |
|---|--|--|
| Walk-Through Audit<br>On-Line Audit<br>Phone-Assisted Audit |  | There are no changes to the On-Line Audit. The Walk through audit has been modified to include six fluorescent lamps. The Phone-Assisted is new and will be added to the Customer Assisted Audit portfolio.  |
| Educational Energy Awareness (Pilot)                        | School program   | <b>New</b> - This partnership with service area schools at the eight grade level supports the science curriculum through a professionally written presentation using interactive theater and classroom guides to teach students the benefits of energy efficiency. On-line or telephone audits of the students homes will be performed for extra class credit.   |
| Heating & Cooling Program                                   | High efficiency cooling with natural gas heating<br>High Efficiency Heat Pumps | <b>Modified</b> - to include all residential structures. Incentive will increase from \$250 to \$275 for heat pumps replacing strip heat and from \$100 to \$125 for heat heat pumps replacing heat pumps.   |
| Duct Repair   | Duct repair  | <b>Modified</b> - Customer costs to participate will be reduced from \$79 to \$50.   |
| Residential Building Envelope                               | Window replacement   | <b>New</b> - Will pay up to \$350 for energy efficient windows   |
|   | Window film  | <b>New</b> - Will pay up to \$1 per sq. ft. for energy efficient window film   |
|   | Ceiling insulation   | <b>Modified</b> - Will pay up to \$200 for ceiling insulation (based on sq. ft. of home)   |
|   | Wall insulation  | <b>New</b> - Will pay up to \$200 for Wall insulation  |
| New Construction Program                                    | Duct sealing with mastic   | <b>Modified</b> - This measure went from a prerequisite to a \$50 incentive  |
|   | High efficiency cooling with natural gas heating                               | <b>No Changes</b>  |
|   | High efficiency heat pumps   | <b>No Changes</b>  |
|   | Ceiling insulation upgrades  | <b>Modified</b> - Incentive reduced from \$100 to \$75 to maintain cost-effectiveness  |
|   | Window upgrades  | <b>New</b> - Will pay up to \$350 for energy efficient windows   |
|   | Alternate water heating upgrades<br>Certification                              | <b>No Changes</b><br><b>New</b> - Will pay \$75 for Energy Star certification  |
| Low Income Weatherization                                   |  | <b>New</b> - Program aimed at low-income customers. The company will provide at no cost items to reduce energy and demand. The following items are available:<br>Six compact fluorescents lamps<br>One water heater wrap<br>Three Low flow faucet aerators and two showerheads<br>Window HVAC weather stripping kit (up to two)<br>Wall plate thermometer (where applicable)<br>HVAC Filters (where applicable)<br>Weather stripping and caulking<br>Ceiling insulation (up to R-19) |

## SUMMARY OF MODIFICATIONS AND ADDITIONS TO TAMPA ELECTRIC'S COMMERCIAL DSM PLAN

| Commercial Programs                        | Measures                                   | Brief Description  |
|--|--|--|
| Commercial/Industrial Audit (free)         |  | No Changes   |
| Commercial/Industrial Audit (paid)         |  | No Changes   |
| Commercial Duct Repair                     | Duct repair                                | New - Will provide \$200.00 incentive for duct repair  |
| Commercial Building Envelope               | Solar window film                          | New - Will provide \$1.00 per sq.ft.incentive for window film up to \$200.00   |
|  | Ceiling insulation                         | New - Will provide \$0.05 per sq. ft. incentive for ceiling insulation   |
|  | Wall insulation                            | New - Will provide \$0.20 per sq. ft. incentive for wall insulation  |
| Energy Efficient Motors                    | Motor upgrades                             | New - Will provide \$2.50 per HP incentive for energy efficient motor upgrades.  |
| Commercial Load Management                 | Load reduction                             | Modified - Will increase cyclic incentive from \$1.00/kW to \$2.50/kW  |
| Industrial Load Management                 | Load reduction                             | No Changes   |
| Commercial Demand Response                 | Price responsive load management           | New - Turn key program providing price incentives for demand reduction.  |
| Commercial Cooling                         | Direct expansion air conditioners          | Modified - Increased participation to include units larger than 20 tons, increased incentive per btu from \$25 to 30/ton |
|  | Package terminal air conditioning          | New - Will provide incentive per btu for energy efficiency room units (approx \$30/ton)                                  |
| Commercial Chillers                        | Air and water cooled chillers              | New - Will provide \$100/ton for energy efficient chillers.  |
| Commercial Lighting                        | Lighting upgrades in conditioned spaces    | Modified - Will increase incentive for energy efficient lighting from \$100/kW to \$150/kW                               |
|  | Lighting upgrades in un-conditioned spaces | New - Will provide \$150/kW incentive for energy efficient lighting.   |
| Commercial Lighting Occupancy Sensors      | Load reduction through occupancy sensors   | New - Will provide \$75/kW of lighting load controlled.  |
| Standby Generator                          | Load reduction through emer. generation    | Modified - Will increase incentive from \$3.00/kW to \$3.50/kW   |
| Commercial Refrigeration (Anti-Condensate) | Anti-condensate heat control               | New - Will provide \$135/kW for controls to reduce demand of refrigeration strip heaters.                                |
| Commercial Water Heating                   | Heat recovery units                        | New - Will provide \$60/per ton incentive for waste heat recovery and heat pump water heaters.                           |
|  | Heat pump water heaters                    |  |
| Conservation Value                         | Customer specific measures > 5 kW average  | Modified - Will increase incentive from \$200/kW to \$250/kW   |
| Cogeneration                               | On-site generation by existing processes   | No Changes   |

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## Appendix B



# Tampa Electric Company

Ten-Year DSM Plan Modifications  
2005-2014

**Program:** Residential Walk-Through Audit (Free)

**Program Start Date:** May 1981

**Program Description**

A conservation program adopted by Florida under Chapter 366.82 (5) Florida Statutes and Rule 25-17.003 F.A.C. This program is offered to all residential customers and is designed to save demand and energy by increasing customer awareness of energy use in personal residences. Savings are dependent on the customer implementing energy saving recommendations. Recommendations are the same as the Computer-Assisted Audit but are standardized and include an estimated range of savings.

The audit is conducted by a trained analyst who notes only those recommendations which apply to the residence.

In an effort to encourage customer participation in conservation programs, Tampa Electric will provide participants with six fluorescent lamps to replace incandescent bulbs with the similar lumens output.

Audits are kept on file with the company for three years. There is no charge to the customer for the Walk-Through Audit.

**Program Participation Standards**

1. Any residential customer in Tampa Electric's service area is eligible.
2. Program requirements for participation follow guidelines set by Rule 25-17.003, F.A.C.
3. There is no payment processing for conservation measures with this program.
4. There are no technical specifications on equipment eligibility with this program.
5. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program Savings and Costs**

The kWh billing histories of customers who received these audits were examined in comparison to those of matched customers without audits. Customers included in the analysis did not participate in any other DSM programs. Consumption before and after the audit was compared for both sets of customers to estimate the impact associated with the audit. Based on load research data, the consumption impacts were extrapolated into corresponding demand impacts.

Using this methodology, the savings per participant are as follows:

Demand: 0.04 kW winter  
0.03 kW summer

Energy: 137 kWh annual

Based on historical costs, the cost per audit is estimated to be \$151.00.

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: RESIDENTIAL WALK-THROUGH AUDIT

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 558,217                   | 558,217                            | 7,349                                 | 1.3%                           | 7,349                                      |
| 2006 | 571,386                   | 571,386                            | 6,686                                 | 2.5%                           | 14,035                                     |
| 2007 | 583,878                   | 583,878                            | 7,700                                 | 3.7%                           | 21,735                                     |
| 2008 | 596,472                   | 596,472                            | 7,300                                 | 4.9%                           | 29,035                                     |
| 2009 | 610,379                   | 610,379                            | 6,900                                 | 5.9%                           | 35,935                                     |
| 2010 | 625,351                   | 625,351                            | 6,500                                 | 6.8%                           | 42,435                                     |
| 2011 | 640,734                   | 640,734                            | 6,100                                 | 7.6%                           | 48,535                                     |
| 2012 | 656,186                   | 656,186                            | 5,700                                 | 8.3%                           | 54,235                                     |
| 2013 | 669,200                   | 669,200                            | 5,300                                 | 8.9%                           | 59,535                                     |
| 2014 | 682,426                   | 682,426                            | 4,900                                 | 9.4%                           | 64,435                                     |

\* Previous participation levels not included.

PROGRAM NAME: RESIDENTIAL WALK-THROUGH AUDIT

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 137                        | 0.040                            | 0.030                            | 1.007                      | 0.294                            | 0.220                            |
| 2006         | 137                        | 0.040                            | 0.030                            | 1.923                      | 0.561                            | 0.421                            |
| 2007         | 137                        | 0.040                            | 0.030                            | 2.978                      | 0.869                            | 0.652                            |
| 2008         | 137                        | 0.040                            | 0.030                            | 3.978                      | 1.161                            | 0.871                            |
| 2009         | 137                        | 0.040                            | 0.030                            | 4.923                      | 1.437                            | 1.078                            |
| 2010         | 137                        | 0.040                            | 0.030                            | 5.814                      | 1.697                            | 1.273                            |
| 2011         | 137                        | 0.040                            | 0.030                            | 6.649                      | 1.941                            | 1.456                            |
| 2012         | 137                        | 0.040                            | 0.030                            | 7.430                      | 2.169                            | 1.627                            |
| 2013         | 137                        | 0.040                            | 0.030                            | 8.156                      | 2.381                            | 1.786                            |
| 2014         | 137                        | 0.040                            | 0.030                            | 8.828                      | 2.577                            | 1.933                            |



PROGRAM NAME: RESIDENTIAL WALK-THROUGH AUDIT

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 145                        | 0.043                            | 0.032                            | 1.067                      | 0.313                            | 0.235                            |
| 2006             | 145                        | 0.043                            | 0.032                            | 2.038                      | 0.598                            | 0.449                            |
| 2007             | 145                        | 0.043                            | 0.032                            | 3.156                      | 0.927                            | 0.695                            |
| 2008             | 145                        | 0.043                            | 0.032                            | 4.216                      | 1.238                            | 0.929                            |
| 2009             | 145                        | 0.043                            | 0.032                            | 5.218                      | 1.532                            | 1.149                            |
| 2010             | 145                        | 0.043                            | 0.032                            | 6.162                      | 1.809                            | 1.357                            |
| 2011             | 145                        | 0.043                            | 0.032                            | 7.048                      | 2.070                            | 1.552                            |
| 2012             | 145                        | 0.043                            | 0.032                            | 7.876                      | 2.313                            | 1.734                            |
| 2013             | 145                        | 0.043                            | 0.032                            | 8.646                      | 2.539                            | 1.904                            |
| 2014             | 145                        | 0.043                            | 0.032                            | 9.357                      | 2.748                            | 2.061                            |

**Program:** Residential Phone - Assisted Audit

**Program Start Date:** 2007

**Program Description**

A conservation program designed to save demand and energy by increasing customer awareness of energy use in personal residences. This program is intended to provide an additional option to customers who may not be available for a walk-through audit, however, they would benefit from speaking directly with a Tampa Electric representative.

To access this service, customers will speak directly with a Tampa Electric representative who will have the customers answer questions about their home and energy usage. The representative will input the information provided into the on-line audit form at Tampa Electric's internet site and personalized audit results are then immediately available for review with customers. Results can then be sent to the customer via e-mail or regular mail. The audit recommendations are based on the customer's answers to the questions and their actual energy consumption. There is no charge to customers.

**Program Participation Standards**

1. Any residential customer in Tampa Electric's service area is eligible.
2. The Residential Phone-Assisted Audit will be offered to customers in response to a request for this service; however, the phone-assisted audit will not be offered in lieu of or used as a prerequisite for on-site audits (Computer-Assisted or Walk-Through).
3. Upon completion of the audit, the customer's results are immediately available. The results can then be sent to the customers via e-mail or regular mail.
4. There is no payment processing with this program.
5. There are no technical specifications on equipment eligibility with this program.
6. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program Savings and Costs**

Energy and demand savings are estimated to be 25 percent less than the Residential Walk-Through Audit. Therefore, savings per participant are as follows:

Summer Demand: 0.02 kW

Winter Demand: 0.03 kW

Energy: 103 kWh

Costs:

Administrative cost per participant: \$42.70

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: RESIDENTIAL PHONE - ASSISTED AUDIT

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 558,217                                | 436,467  | 0   | 0.0%   | 0  |
| 2006 | 571,386                                | 448,582  | 0   | 0.0%   | 0  |
| 2007 | 583,878                                | 460,000  | 75  | 0.0%   | 75   |
| 2008 | 596,472                                | 471,286  | 300   | 0.1%   | 375  |
| 2009 | 610,379                                | 483,580  | 500   | 0.2%   | 875  |
| 2010 | 625,351                                | 496,855  | 500   | 0.3%   | 1,375  |
| 2011 | 640,734                                | 510,507  | 500   | 0.4%   | 1,875  |
| 2012 | 656,186                                | 524,223  | 500   | 0.5%   | 2,375  |
| 2013 | 669,200                                | 535,696  | 500   | 0.5%   | 2,875  |
| 2014 | 682,426                                | 547,364  | 500   | 0.6%   | 3,375  |

PROGRAM NAME: RESIDENTIAL PHONE - ASSISTED AUDIT

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 103                        | 0.030                            | 0.020                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 103                        | 0.030                            | 0.020                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 103                        | 0.030                            | 0.020                            | 0.008                      | 0.002                            | 0.002                            |
| 2008         | 103                        | 0.030                            | 0.020                            | 0.039                      | 0.011                            | 0.008                            |
| 2009         | 103                        | 0.030                            | 0.020                            | 0.090                      | 0.026                            | 0.018                            |
| 2010         | 103                        | 0.030                            | 0.020                            | 0.142                      | 0.041                            | 0.028                            |
| 2011         | 103                        | 0.030                            | 0.020                            | 0.193                      | 0.056                            | 0.038                            |
| 2012         | 103                        | 0.030                            | 0.020                            | 0.245                      | 0.071                            | 0.048                            |
| 2013         | 103                        | 0.030                            | 0.020                            | 0.296                      | 0.086                            | 0.058                            |
| 2014         | 103                        | 0.030                            | 0.020                            | 0.348                      | 0.101                            | 0.068                            |

PROGRAM NAME: RESIDENTIAL PHONE - ASSISTED AUDIT

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 109                        | 0.032                            | 0.021                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 109                        | 0.032                            | 0.021                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 109                        | 0.032                            | 0.021                            | 0.008                      | 0.002                            | 0.002                            |
| 2008             | 109                        | 0.032                            | 0.021                            | 0.041                      | 0.012                            | 0.008                            |
| 2009             | 109                        | 0.032                            | 0.021                            | 0.096                      | 0.028                            | 0.019                            |
| 2010             | 109                        | 0.032                            | 0.021                            | 0.150                      | 0.044                            | 0.029                            |
| 2011             | 109                        | 0.032                            | 0.021                            | 0.205                      | 0.060                            | 0.040                            |
| 2012             | 109                        | 0.032                            | 0.021                            | 0.259                      | 0.076                            | 0.051                            |
| 2013             | 109                        | 0.032                            | 0.021                            | 0.314                      | 0.092                            | 0.061                            |
| 2014             | 109                        | 0.032                            | 0.021                            | 0.368                      | 0.108                            | 0.072                            |

**Program:** Residential Heating & Cooling

**Program Start Date:** January 1981

**Program Description**

A conservation program that uses a rebate to encourage the installation of high efficiency heating and cooling systems in existing residential dwellings. The program is aimed at reducing the growth of weather sensitive peak demand and energy through two types of equipment replacement. Type one equipment replacement is defined as a heat pump replacing resistance heat and type two equipment replacement is defined as a heat pump replacing a heat pump. Both types of equipment replacement have a threshold for qualification of 14.0 SEER. Tampa Electric's rebate is paid to the contractor performing the installation.

**Program Participation Standards**

1. The residence must be an existing structure located in Tampa Electric's service area. Single family and multi-family dwellings, condominiums, apartments and mobile homes are eligible for participation.
2. The system must be ducted.
3. The minimum qualifying efficiency rating (ARI rating only) is 14.0 SEER.
4. For a heat pump, the maximum supplemental strip heating physically contained in the system shall not exceed 2 kW per nominal ton. On a system less than 2.5 tons, a 5 kW heat strip will be allowed.
5. For a heat pump utilizing supplemental strip heating, a two-stage indoor thermostat is required.
6. For straight cool systems, oil or electric resistance heat cannot be the primary heat source.
7. In the situation where a heating and cooling system qualifies for two rebates (Tampa Electric and a gas company), Tampa Electric will not pay its rebate to avoid a double payment.

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8. The contractor will subtract the rebate paid by Tampa Electric from the customer's total cost of equipment and installation. In the event of a customer installation with no contractor involvement, Tampa Electric will issue the rebate to the customer.
9. The HVAC contractor or customer submits a rebate request form to Tampa Electric. The form will be signed by the contractor or customer certifying that the equipment installed is in accordance with the program standards. The customer will sign the form verifying that the equipment was installed and that the contractor deducted the rebate amount from the total installed cost of the new HVAC unit.
10. Heating and Cooling rebate forms must be received within 30 days of installation date of the unit to assure payment to the dealer. Rebate forms must be filled out completely and correctly to be redeemed. Tampa Electric reserves the right to deny payment to contractors who fail to comply.
11. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of the participating homes. Forms not selected for field review will have an office verification to validate information.
12. No payment will be made until Tampa Electric verifies or validates rebate requests.
13. Rebates:  

|          |          |
|----------|----------|
| Type One | \$275.00 |
| Type Two | \$125.00 |
14. In any case where Tampa Electric records indicate that the residence, after issuance of the certificate of occupancy, utilized a measure falling under the category of a building envelope improvement, Tampa Electric reserves the right to require a heat load calculation to verify proper sizing of the HVAC system.
15. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.



**Program Savings and Costs**

Historically, central A/C units with resistance heat and central heat pumps comprise 28 percent and 72 percent participation, respectively. Additionally, the analysis from DOE2 building simulations of heating and cooling replacement savings for the HVAC systems is as follows:

| <u>Type System</u>     | <u>Winter Demand (kW)</u> | <u>Summer Demand (kW)</u> | <u>Annual Energy (kWh)</u> |
|------------------------|---------------------------|---------------------------|----------------------------|
| Central A/C with Strip | 4.13                      | 0.20                      | 1,367                      |
| Central Heat Pump      | 0.17                      | 0.20                      | 464                        |

By weighting these savings across system types, the following reductions are rendered:

Winter Demand:

|                                 |               |   |              |
|---------------------------------|---------------|---|--------------|
| Strip heat                      | (4.13) (0.28) | = | 1.166        |
| Heat Pump                       | (0.17) (0.72) | = | <u>0.122</u> |
| Average winter demand reduction |               | = | 1.278 kW     |

Summer Demand:

|                                 |               |   |              |
|---------------------------------|---------------|---|--------------|
| Straight A/C                    | (0.20) (0.28) | = | 0.056        |
| Heat Pump                       | (0.20) (0.72) | = | <u>0.144</u> |
| Average summer demand reduction |               | = | 0.200 kW     |

Energy:

|                               |                |   |            |
|-------------------------------|----------------|---|------------|
| Straight A/C                  | (1,367) (0.28) | = | 383        |
| Heat Pump                     | (464) (0.72)   | = | <u>334</u> |
| Average annual energy savings |                | = | 717 kWh    |

Finally, demand and energy savings were adjusted to take into consideration the effects of manufactured and multi-family home participation, rendering the following demand and energy savings used for cost-effectiveness evaluations.

Winter Demand: 1.02 kW

Summer Demand: 0.17 kW

Energy: 618 kWh

Cost:

|                                      |          |
|--------------------------------------|----------|
| Rebate cost per participant:         | \$167.00 |
| Administrative cost per participant: | \$37.00  |

**Program Monitoring and Evaluation**

Tampa Electric utilized the engineering estimates and computer modeling from the SRC study for the demand and energy savings of the program. Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: RESIDENTIAL HEATING AND COOLING

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 558,217                   | 329,348                            | 3,012                                 | 0.9%                           | 3,012                                      |
| 2006 | 571,386                   | 337,118                            | 1,706                                 | 1.4%                           | 4,718                                      |
| 2007 | 583,878                   | 344,488                            | 1,188                                 | 1.7%                           | 5,906                                      |
| 2008 | 596,472                   | 351,919                            | 1,026                                 | 2.0%                           | 6,932                                      |
| 2009 | 610,379                   | 360,123                            | 864                                   | 2.2%                           | 7,796                                      |
| 2010 | 625,351                   | 368,957                            | 702                                   | 2.3%                           | 8,498                                      |
| 2011 | 640,734                   | 378,033                            | 540                                   | 2.4%                           | 9,038                                      |
| 2012 | 656,186                   | 387,150                            | 378                                   | 2.4%                           | 9,416                                      |
| 2013 | 669,200                   | 394,828                            | 216                                   | 2.4%                           | 9,632                                      |
| 2014 | 682,426                   | 402,632                            | 54                                    | 2.4%                           | 9,686                                      |

\* Previous participation levels not included.

PROGRAM NAME: RESIDENTIAL HEATING AND COOLING

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 618                        | 1.020                            | 0.170                            | 1.861                      | 3.072                            | 0.512                            |
| 2006         | 618                        | 1.020                            | 0.170                            | 2.916                      | 4.812                            | 0.802                            |
| 2007         | 618                        | 1.020                            | 0.170                            | 3.650                      | 6.024                            | 1.004                            |
| 2008         | 618                        | 1.020                            | 0.170                            | 4.284                      | 7.071                            | 1.178                            |
| 2009         | 618                        | 1.020                            | 0.170                            | 4.818                      | 7.952                            | 1.325                            |
| 2010         | 618                        | 1.020                            | 0.170                            | 5.252                      | 8.668                            | 1.445                            |
| 2011         | 618                        | 1.020                            | 0.170                            | 5.585                      | 9.219                            | 1.536                            |
| 2012         | 618                        | 1.020                            | 0.170                            | 5.819                      | 9.604                            | 1.601                            |
| 2013         | 618                        | 1.020                            | 0.170                            | 5.953                      | 9.825                            | 1.637                            |
| 2014         | 618                        | 1.020                            | 0.170                            | 5.986                      | 9.880                            | 1.647                            |

PROGRAM NAME: RESIDENTIAL HEATING AND COOLING

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 655                        | 1.087                            | 0.181                            | 1.973                      | 3.275                            | 0.546                            |
| 2006             | 655                        | 1.087                            | 0.181                            | 3.091                      | 5.130                            | 0.855                            |
| 2007             | 655                        | 1.087                            | 0.181                            | 3.869                      | 6.422                            | 1.070                            |
| 2008             | 655                        | 1.087                            | 0.181                            | 4.541                      | 7.537                            | 1.256                            |
| 2009             | 655                        | 1.087                            | 0.181                            | 5.107                      | 8.477                            | 1.413                            |
| 2010             | 655                        | 1.087                            | 0.181                            | 5.567                      | 9.240                            | 1.540                            |
| 2011             | 655                        | 1.087                            | 0.181                            | 5.921                      | 9.827                            | 1.638                            |
| 2012             | 655                        | 1.087                            | 0.181                            | 6.168                      | 10.238                           | 1.706                            |
| 2013             | 655                        | 1.087                            | 0.181                            | 6.310                      | 10.473                           | 1.746                            |
| 2014             | 655                        | 1.087                            | 0.181                            | 6.345                      | 10.532                           | 1.755                            |

**Program:** Residential Duct Repair

**Program Start Date:** September 1992

**Program Description**

A conservation incentive program designed to reduce demand and energy by decreasing the load on residential air conditioning and heating ("HVAC") equipment. This program eliminates or reduces areas of HVAC air distribution losses by sealing and repairing the air distribution system ("ADS"). The ADS is defined as the air handler, air ducts, return plenums, supply plenums and any connecting structure.

Customers call Tampa Electric to request appointments for duct repair and a HVAC contractor appointed by Tampa Electric will seal and repair all accessible components of the ADS in the residence. Tampa Electric's incentive is included in the payment to the participating contractor performing ADS repairs.

**Program Participation Standards**

1. ADS systems must be accessible for sealing and repair.
2. Residences must have a working central ducted HVAC system with electric heating or air conditioning. Residences with non-electric heating are eligible. Any concerns precluding participation will be initially identified.
3. Tampa Electric will appoint a participating HVAC contractor to seal and repair existing problems.
4. A participating HVAC contractor must perform sealing and repairs.
5. Sealing and repairs to ADS will use mastic techniques (adhesive with fibers embedded or adhesive with fabric reinforced tape). Air handler panels/openings will be sealed with tape or other approved materials. If ducts are replaced, mastic must be used to seal all joints, connections and seams in the ADS.
6. The HVAC contractor submits a work order for completed sealing and repair to Tampa Electric.
7. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of the participating residences. Work orders not selected for field review will have an office verification to validate information.

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8. No payment will be made until Tampa Electric verifies or validates work orders.
9. The contractor incentive payment will be a contracted charge for typical repairs to the ADS.
10. There are no technical specifications on equipment eligibility with this program.
11. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program Savings and Costs**

Historically, single-family central HVAC units with resistance heat and heat pumps comprise 28 percent and 72 percent participation, respectively. In addition, multi-family, central A/C with resistance heat and heat pumps comprise 69 percent and 31 percent of participation, respectively.

The analysis from the SRC data of ADS repair savings for the HVAC systems is as follows:

Single-family:

| <u>Type System</u>     | <u>Winter Demand (kW)</u> | <u>Summer Demand (kW)</u> | <u>Annual Energy (kWh)</u> |
|------------------------|---------------------------|---------------------------|----------------------------|
| Central A/C with Strip | 0.447                     | 0.452                     | 999                        |
| Central Heat Pump      | 0.369                     | 0.453                     | 991                        |

Multi-family:

| <u>Type System</u>     | <u>Winter Demand (kW)</u> | <u>Summer Demand (kW)</u> | <u>Annual Energy (kWh)</u> |
|------------------------|---------------------------|---------------------------|----------------------------|
| Central A/C with Strip | 0.255                     | 0.258                     | 570                        |
| Central Heat Pump      | 0.211                     | 0.259                     | 566                        |

By weighting these savings across the system types, the following reductions are rendered:

Single-family

Winter Demand:

|                                 |                |   |              |
|---------------------------------|----------------|---|--------------|
| Strip heat                      | (0.447) (0.28) | = | 0.126        |
| Heat Pump                       | (0.369) (0.68) | = | <u>0.266</u> |
| Average winter demand reduction |                | = | 0.392 kW     |

Summer Demand:

|                                 |                |   |              |
|---------------------------------|----------------|---|--------------|
| Straight A/C                    | (0.452) (0.28) | = | 0.127        |
| Heat Pump                       | (0.453) (0.72) | = | <u>0.327</u> |
| Average summer demand reduction |                | = | 0.454 kW     |

Multi-family

Winter Demand:

|                                 |                |   |              |
|---------------------------------|----------------|---|--------------|
| Strip heat                      | (0.255) (0.69) | = | 0.176        |
| Heat Pump                       | (0.211) (0.31) | = | <u>0.066</u> |
| Average winter demand reduction |                | = | 0.242 kW     |

Summer Demand:

|                                 |                |   |              |
|---------------------------------|----------------|---|--------------|
| Straight A/C                    | (0.258) (0.69) | = | 0.178        |
| Heat Pump                       | (0.259) (0.31) | = | <u>0.081</u> |
| Average summer demand reduction |                | = | 0.259 kW     |

Energy:

Single-Family

|                               |              |   |            |
|-------------------------------|--------------|---|------------|
| Straight A/C                  | (999) (0.28) | = | 280        |
| Heat Pump                     | (991) (0.72) | = | <u>714</u> |
| Average annual energy savings |              | = | 994 kWh    |



Multi-family

|                               |   |            |
|-------------------------------|---|------------|
| Straight A/C (570) (0.69)     | = | 393        |
| Heat Pump (566) (0.31)        | = | <u>175</u> |
| Average annual energy savings | = | 568 kWh    |

By weighting these savings across estimated participation the following reductions are rendered:

|               |   |          |
|---------------|---|----------|
| Winter Demand | = | 0.348 kW |
| Summer Demand | = | 0.396 kW |
| Annual Energy | = | 866 kWh  |

Costs:

|                                      |          |
|--------------------------------------|----------|
| Incentive cost per participant:      | \$233.00 |
| Administrative cost per participant: | \$51.00  |

**Program Monitoring and Evaluation**

Tampa Electric utilized the engineering estimates and computer modeling from the SRC study for the demand and energy savings of the program. Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: RESIDENTIAL DUCT REPAIR

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>Level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 558,217                                | 432,568  | 3,086   | 0.7%   | 3,086  |
| 2006 | 571,386                                | 429,482  | 6,630   | 2.3%   | 9,716  |
| 2007 | 583,878                                | 419,766  | 3,900   | 3.2%   | 13,616   |
| 2008 | 596,472                                | 406,150  | 3,000   | 4.1%   | 16,616   |
| 2009 | 610,379                                | 389,534  | 2,700   | 5.0%   | 19,316   |
| 2010 | 625,351                                | 370,218  | 2,400   | 5.9%   | 21,716   |
| 2011 | 640,734                                | 348,502  | 2,300   | 6.9%   | 24,016   |
| 2012 | 656,186                                | 324,486  | 2,200   | 8.1%   | 26,216   |
| 2013 | 669,200                                | 298,270  | 2,150   | 9.5%   | 28,366   |
| 2014 | 682,426                                | 269,904  | 2,100   | 11.3%  | 30,466   |

\* Previous participation levels not included.

PROGRAM NAME: RESIDENTIAL DUCT REPAIR

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 866                        | 0.350                            | 0.400                            | 2.672                      | 1.080                            | 1.234                            |
| 2006         | 866                        | 0.350                            | 0.400                            | 8.414                      | 3.401                            | 3.886                            |
| 2007         | 866                        | 0.350                            | 0.400                            | 11.791                     | 4.766                            | 5.446                            |
| 2008         | 866                        | 0.350                            | 0.400                            | 14.389                     | 5.816                            | 6.646                            |
| 2009         | 866                        | 0.350                            | 0.400                            | 16.728                     | 6.761                            | 7.726                            |
| 2010         | 866                        | 0.350                            | 0.400                            | 18.806                     | 7.601                            | 8.686                            |
| 2011         | 866                        | 0.350                            | 0.400                            | 20.798                     | 8.406                            | 9.606                            |
| 2012         | 866                        | 0.350                            | 0.400                            | 22.703                     | 9.176                            | 10.486                           |
| 2013         | 866                        | 0.350                            | 0.400                            | 24.565                     | 9.928                            | 11.346                           |
| 2014         | 866                        | 0.350                            | 0.400                            | 26.384                     | 10.663                           | 12.186                           |

PROGRAM NAME: RESIDENTIAL DUCT REPAIR

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 918                        | 0.373                            | 0.426                            | 2.833                      | 1.151                            | 1.316                            |
| 2006             | 918                        | 0.373                            | 0.426                            | 8.919                      | 3.625                            | 4.143                            |
| 2007             | 918                        | 0.373                            | 0.426                            | 12.499                     | 5.080                            | 5.806                            |
| 2008             | 918                        | 0.373                            | 0.426                            | 15.253                     | 6.199                            | 7.085                            |
| 2009             | 918                        | 0.373                            | 0.426                            | 17.731                     | 7.207                            | 8.236                            |
| 2010             | 918                        | 0.373                            | 0.426                            | 19.934                     | 8.102                            | 9.260                            |
| 2011             | 918                        | 0.373                            | 0.426                            | 22.046                     | 8.960                            | 10.240                           |
| 2012             | 918                        | 0.373                            | 0.426                            | 24.065                     | 9.781                            | 11.179                           |
| 2013             | 918                        | 0.373                            | 0.426                            | 26.039                     | 10.583                           | 12.095                           |
| 2014             | 918                        | 0.373                            | 0.426                            | 27.967                     | 11.367                           | 12.991                           |

**Program:** Residential Building Envelope

**Program Start Date:** 2007

**Program Description**

The Residential Building Envelope Program is designed to encourage customers to make cost-effective improvements to existing residences in the areas of ceiling insulation, wall insulation, and window improvements. The goal is to offer customer incentives for making these improvements while helping them reduce energy consumption and reducing Tampa Electric's peak demand. The following measures are a part of this program.

**Ceiling Insulation**

This measure is designed to reduce demand and energy by decreasing the load on residential air conditioning and heating equipment. Qualifying residential structures are eligible for an incentive which is in the form of a certificate. Customers use the certificate as partial payment for the ceiling insulation installed.

**Participation Standards**

1. Homes must not be covered by a new home warranty.
2. Homes must have electric whole house air conditioning or heating. Residences with non-electric heating are eligible provided they have electric whole house air conditioning.
3. Customers must add a minimum insulation value of R-11 based on a manufacturer's specification card. Resulting total R-values achieved will range from R-23 to R-29. Where roof pitch limits accessibility, an R-11 must be added.
4. Customers are required to sign off on the number of bags of insulation installed.
5. Insulation certificates will be issued through either energy audits or by direct evaluation of existing levels of insulation.
6. The insulation contractor or customer submits an insulation certificate to Tampa Electric.

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7. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of participating homes. Forms not selected for field verifications will have an office verification to validate information.
8. No payment will be made until Tampa Electric inspects or reviews incentive certificates.
9. Upon meeting the above requirements, the contractor/customer incentive payment will be calculated based on the following:
  - Up to 1500 sq. ft. being insulated- \$100
  - 1501-2200 sq. ft. being insulated- \$150
  - 2201sq. ft. and above- \$200
10. The contractor will subtract the incentive to be paid by Tampa Electric Company from the customer's cost of installation.
11. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Savings and Costs**

Savings were determined using historical participation along with DOE2 building simulations. Savings for the installation of ceiling insulation are as follows:

Summer Demand: 0.18 kW

Winter Demand: 0.40 kW

Energy: 348 kWh

Costs:

|                                      |          |
|--------------------------------------|----------|
| Incentive cost per participant:      | \$100.00 |
| Administrative cost per participant: | \$36.00  |

### **Wall Insulation**

This measure is designed to reduce demand and energy by decreasing the load on residential air conditioning and heating equipment. Qualifying residential structures are eligible for an incentive to insulate all exterior walls adjacent to the living area.

### **Participation Standards**

1. Homes must not be covered by a new home warranty.
2. Customers must add a minimum insulation value of R-6 based on a manufacturer's specification card.
3. Homes must have electric whole house air conditioning or heating. Residences with non-electric heating are eligible provided they have electric whole house air conditioning.
4. Insulation certificates will be issued through either energy audits or by direct evaluation of existing levels of insulation.
5. All exterior walls adjacent to the living area must be insulated.
6. The customer submits a rebate form to Tampa Electric.
7. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of participating homes. Forms not selected for field verifications will have an office verification to validate information.
8. No payment will be made until Tampa Electric inspects or reviews incentive certificates.
9. Upon meeting the above requirements, a \$200.00 incentive will be paid to the customer.
10. A home with in-wall wiring requiring air cooling will not qualify for this incentive. This includes knob-and-tube wiring.
11. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

### **Savings and Costs**

Savings were determined using DOE2 building simulations. Savings for the installation of wall insulation is as follows:

Summer Demand: 0.52 kW

Winter Demand: 1.07 kW

Energy: 1,337 kWh

Costs:

|                                      |          |
|--------------------------------------|----------|
| Incentive cost per participant:      | \$200.00 |
| Administrative cost per participant: | \$75.00  |

### **Window Replacement**

This measure is designed to encourage qualifying customers replacing windows in their home to do so with high-performance windows. This program is intended to reduce the solar heat gain into a home which, in turn, reduces HVAC load and improves comfort.

### **Program Participation Standards**

1. Homes must not be covered by a new home warranty.
2. Homes must have electric whole-house air conditioning or heating. Residences with non-electric heating are eligible provided they have electric whole house air conditioning.
3. All windows in the home must be replaced.
4. Window certificates will be issued through energy audits or by direct evaluation of existing windows.
5. The windows must be NFRC labeled with a minimum solar heat gain coefficient  $\leq .40$  and a U-Factor  $\leq .65$  or the performance equivalent based on the same two factors.
6. The customer submits a rebate form to Tampa Electric.



7. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of participating homes. Forms not selected for field verifications will have an office verification to validate information.
8. No payment will be made until Tampa Electric inspects or reviews incentive certificates.
9. Upon meeting the above requirements, a \$350.00 incentive will be paid to the customer.
10. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

### **Savings and Costs**

Savings were determined using DOE2 building simulations. Savings for the installation of window upgrades are as follows:

Summer Demand: 0.63 kW

Winter Demand: 0.40 kW

Energy: 1,241 kWh

Costs:

Incentive cost per participant: \$350.00

Administrative cost per participant: \$75.00

### **Window Film**

This measure is designed to encourage qualifying customers to apply film on windows with eastern and western exposure. This is intended to reduce the solar heat gain into a home which, in turn, reduces HVAC load and improves comfort.

### **Participation Standards**

1. Homes must not be covered by a new home warranty.
2. Window film certificates will be issued through energy audits or by direct evaluation of existing windows.

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3. Homes must have electric whole-house air conditioning or heating. Residences with non-electric heating are eligible provided they have electric whole house air conditioning.
4. Only window with eastern and western exposure are eligible.
5. All windows with eastern and western exposure must have window film installed. Window film would not be required with eastern or western orientation but no exposure(e.g., An east facing window located under a porch/lanai where the covering extends at least eight feet away from the home.).
6. The minimum Shading Co-efficiency must be .45 or less.
7. The customer submits a rebate form to Tampa Electric.
8. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of participating homes. Forms not selected for field verifications will have an office verification to validate information.
9. No payment will be made until Tampa Electric inspects or reviews incentive certificates.
10. Upon meeting the above requirements, a rebate of \$1.00 per square foot of glass (maximum of \$200.00 per household) will be paid to the customer and proper documentation and verification.
11. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Savings and Costs**

Savings were determined using DOE2 building simulations. Savings for the installation of window film is as follows:

Summer Demand: 0.22 kW

Winter Demand: 0.00 kW

Energy: 791 kWh

Costs:

|                                      |          |
|--------------------------------------|----------|
| Incentive cost per participant:      | \$135.00 |
| Administrative cost per participant: | \$50.00  |

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: RESIDENTIAL CEILING INSULATION

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 558,217                   | 424,620                            | 1,718                                 | 0.4%                           | 1,718                                      |
| 2006 | 571,386                   | 429,298                            | 1,754                                 | 0.8%                           | 3,472                                      |
| 2007 | 583,878                   | 433,440                            | 2,000                                 | 1.3%                           | 5,472                                      |
| 2008 | 596,472                   | 437,125                            | 1,900                                 | 1.7%                           | 7,372                                      |
| 2009 | 610,379                   | 441,156                            | 1,700                                 | 2.1%                           | 9,072                                      |
| 2010 | 625,351                   | 445,562                            | 1,500                                 | 2.4%                           | 10,572                                     |
| 2011 | 640,734                   | 450,250                            | 1,200                                 | 2.6%                           | 11,772                                     |
| 2012 | 656,186                   | 455,358                            | 900                                   | 2.8%                           | 12,672                                     |
| 2013 | 669,200                   | 461,114                            | 700                                   | 2.9%                           | 13,372                                     |
| 2014 | 682,426                   | 467,190                            | 500                                   | 3.0%                           | 13,872                                     |

\* Previous participation levels not included.

PROGRAM NAME: RESIDENTIAL CEILING INSULATION

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 348                        | 0.400                            | 0.180                            | 0.598                      | 0.687                            | 0.309                            |
| 2006         | 348                        | 0.400                            | 0.180                            | 1.208                      | 1.389                            | 0.625                            |
| 2007         | 348                        | 0.400                            | 0.180                            | 1.904                      | 2.189                            | 0.985                            |
| 2008         | 348                        | 0.400                            | 0.180                            | 2.565                      | 2.949                            | 1.327                            |
| 2009         | 348                        | 0.400                            | 0.180                            | 3.157                      | 3.629                            | 1.633                            |
| 2010         | 348                        | 0.400                            | 0.180                            | 3.679                      | 4.229                            | 1.903                            |
| 2011         | 348                        | 0.400                            | 0.180                            | 4.097                      | 4.709                            | 2.119                            |
| 2012         | 348                        | 0.400                            | 0.180                            | 4.410                      | 5.069                            | 2.281                            |
| 2013         | 348                        | 0.400                            | 0.180                            | 4.653                      | 5.349                            | 2.407                            |
| 2014         | 348                        | 0.400                            | 0.180                            | 4.827                      | 5.549                            | 2.497                            |

PROGRAM NAME: RESIDENTIAL CEILING INSULATION

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 369                        | 0.426                            | 0.192                            | 0.634                      | 0.733                            | 0.330                            |
| 2006             | 369                        | 0.426                            | 0.192                            | 1.281                      | 1.480                            | 0.666                            |
| 2007             | 369                        | 0.426                            | 0.192                            | 2.019                      | 2.333                            | 1.050                            |
| 2008             | 369                        | 0.426                            | 0.192                            | 2.719                      | 3.143                            | 1.415                            |
| 2009             | 369                        | 0.426                            | 0.192                            | 3.346                      | 3.868                            | 1.741                            |
| 2010             | 369                        | 0.426                            | 0.192                            | 3.900                      | 4.508                            | 2.029                            |
| 2011             | 369                        | 0.426                            | 0.192                            | 4.342                      | 5.020                            | 2.259                            |
| 2012             | 369                        | 0.426                            | 0.192                            | 4.674                      | 5.403                            | 2.432                            |
| 2013             | 369                        | 0.426                            | 0.192                            | 4.933                      | 5.702                            | 2.566                            |
| 2014             | 369                        | 0.426                            | 0.192                            | 5.117                      | 5.915                            | 2.662                            |

PROGRAM NAME: WALL INSULATION

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>Level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 558,217                                | 432,568  | 0   | 0.0%   | 0  |
| 2006 | 571,386                                | 432,568  | 0   | 0.0%   | 0  |
| 2007 | 583,878                                | 432,568  | 10  | 0.0%   | 10   |
| 2008 | 596,472                                | 432,558  | 20  | 0.0%   | 30   |
| 2009 | 610,379                                | 432,528  | 25  | 0.0%   | 55   |
| 2010 | 625,351                                | 432,473  | 30  | 0.0%   | 85   |
| 2011 | 640,734                                | 432,388  | 35  | 0.0%   | 120  |
| 2012 | 656,186                                | 432,268  | 40  | 0.0%   | 160  |
| 2013 | 669,200                                | 432,108  | 45  | 0.0%   | 205  |
| 2014 | 682,426                                | 431,903  | 50  | 0.1%   | 255  |

PROGRAM NAME: WALL INSULATION

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 1337                       | 1.070                            | 0.520                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 1337                       | 1.070                            | 0.520                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 1337                       | 1.070                            | 0.520                            | 0.013                      | 0.011                            | 0.005                            |
| 2008         | 1337                       | 1.070                            | 0.520                            | 0.040                      | 0.032                            | 0.016                            |
| 2009         | 1337                       | 1.070                            | 0.520                            | 0.074                      | 0.059                            | 0.029                            |
| 2010         | 1337                       | 1.070                            | 0.520                            | 0.114                      | 0.091                            | 0.044                            |
| 2011         | 1337                       | 1.070                            | 0.520                            | 0.160                      | 0.128                            | 0.062                            |
| 2012         | 1337                       | 1.070                            | 0.520                            | 0.214                      | 0.171                            | 0.083                            |
| 2013         | 1337                       | 1.070                            | 0.520                            | 0.274                      | 0.219                            | 0.107                            |
| 2014         | 1337                       | 1.070                            | 0.520                            | 0.341                      | 0.273                            | 0.133                            |



PROGRAM NAME: WALL INSULATION

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 1417                       | 1.141                            | 0.554                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 1417                       | 1.141                            | 0.554                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 1417                       | 1.141                            | 0.554                            | 0.014                      | 0.011                            | 0.006                            |
| 2008             | 1417                       | 1.141                            | 0.554                            | 0.043                      | 0.034                            | 0.017                            |
| 2009             | 1417                       | 1.141                            | 0.554                            | 0.078                      | 0.063                            | 0.030                            |
| 2010             | 1417                       | 1.141                            | 0.554                            | 0.120                      | 0.097                            | 0.047                            |
| 2011             | 1417                       | 1.141                            | 0.554                            | 0.170                      | 0.137                            | 0.067                            |
| 2012             | 1417                       | 1.141                            | 0.554                            | 0.227                      | 0.182                            | 0.089                            |
| 2013             | 1417                       | 1.141                            | 0.554                            | 0.291                      | 0.234                            | 0.114                            |
| 2014             | 1417                       | 1.141                            | 0.554                            | 0.361                      | 0.291                            | 0.141                            |

PROGRAM NAME: WINDOW REPLACEMENT

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 558,217                   | 432,568                            | 0                                     | 0.0%                           | 0  |
| 2006 | 571,386                   | 432,568                            | 0                                     | 0.0%                           | 0  |
| 2007 | 583,878                   | 432,568                            | 30                                    | 0.0%                           | 30   |
| 2008 | 596,472                   | 432,538                            | 125                                   | 0.0%                           | 155  |
| 2009 | 610,379                   | 432,383                            | 150                                   | 0.1%                           | 305  |
| 2010 | 625,351                   | 432,078                            | 200                                   | 0.1%                           | 505  |
| 2011 | 640,734                   | 431,573                            | 250                                   | 0.2%                           | 755  |
| 2012 | 656,186                   | 430,818                            | 300                                   | 0.2%                           | 1,055                                      |
| 2013 | 669,200                   | 429,763                            | 325                                   | 0.3%                           | 1,380                                      |
| 2014 | 682,426                   | 428,383                            | 350                                   | 0.4%                           | 1,730                                      |

PROGRAM NAME: WINDOW REPLACEMENT

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 1241                       | 0.400                            | 0.630                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 1241                       | 0.400                            | 0.630                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 1241                       | 0.400                            | 0.630                            | 0.037                      | 0.012                            | 0.019                            |
| 2008         | 1241                       | 0.400                            | 0.630                            | 0.192                      | 0.062                            | 0.098                            |
| 2009         | 1241                       | 0.400                            | 0.630                            | 0.379                      | 0.122                            | 0.192                            |
| 2010         | 1241                       | 0.400                            | 0.630                            | 0.627                      | 0.202                            | 0.318                            |
| 2011         | 1241                       | 0.400                            | 0.630                            | 0.937                      | 0.302                            | 0.476                            |
| 2012         | 1241                       | 0.400                            | 0.630                            | 1.309                      | 0.422                            | 0.665                            |
| 2013         | 1241                       | 0.400                            | 0.630                            | 1.713                      | 0.552                            | 0.869                            |
| 2014         | 1241                       | 0.400                            | 0.630                            | 2.147                      | 0.692                            | 1.090                            |

PROGRAM NAME: WINDOW REPLACEMENT

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 1315                       | 0.426                            | 0.672                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 1315                       | 0.426                            | 0.672                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 1315                       | 0.426                            | 0.672                            | 0.039                      | 0.013                            | 0.020                            |
| 2008             | 1315                       | 0.426                            | 0.672                            | 0.204                      | 0.066                            | 0.104                            |
| 2009             | 1315                       | 0.426                            | 0.672                            | 0.401                      | 0.130                            | 0.205                            |
| 2010             | 1315                       | 0.426                            | 0.672                            | 0.664                      | 0.215                            | 0.339                            |
| 2011             | 1315                       | 0.426                            | 0.672                            | 0.993                      | 0.322                            | 0.507                            |
| 2012             | 1315                       | 0.426                            | 0.672                            | 1.388                      | 0.450                            | 0.709                            |
| 2013             | 1315                       | 0.426                            | 0.672                            | 1.815                      | 0.588                            | 0.927                            |
| 2014             | 1315                       | 0.426                            | 0.672                            | 2.276                      | 0.738                            | 1.162                            |

PROGRAM NAME: WINDOW FILM

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>Level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 558,217                                | 432,568  | 0   | 0.0%   | 0  |
| 2006 | 571,386                                | 432,568  | 0   | 0.0%   | 0  |
| 2007 | 583,878                                | 432,568  | 20  | 0.0%   | 20   |
| 2008 | 596,472                                | 432,548  | 175   | 0.0%   | 195  |
| 2009 | 610,379                                | 432,353  | 225   | 0.1%   | 420  |
| 2010 | 625,351                                | 431,933  | 275   | 0.2%   | 695  |
| 2011 | 640,734                                | 431,238  | 300   | 0.2%   | 995  |
| 2012 | 656,186                                | 430,243  | 250   | 0.3%   | 1,245  |
| 2013 | 669,200                                | 428,998  | 250   | 0.3%   | 1,495  |
| 2014 | 682,426                                | 427,503  | 200   | 0.4%   | 1,695  |

PROGRAM NAME: WINDOW FILM

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 791                        | 0.000                            | 0.220                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 791                        | 0.000                            | 0.220                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 791                        | 0.000                            | 0.220                            | 0.016                      | 0.000                            | 0.004                            |
| 2008         | 791                        | 0.000                            | 0.220                            | 0.154                      | 0.000                            | 0.043                            |
| 2009         | 791                        | 0.000                            | 0.220                            | 0.332                      | 0.000                            | 0.092                            |
| 2010         | 791                        | 0.000                            | 0.220                            | 0.550                      | 0.000                            | 0.153                            |
| 2011         | 791                        | 0.000                            | 0.220                            | 0.787                      | 0.000                            | 0.219                            |
| 2012         | 791                        | 0.000                            | 0.220                            | 0.985                      | 0.000                            | 0.274                            |
| 2013         | 791                        | 0.000                            | 0.220                            | 1.183                      | 0.000                            | 0.329                            |
| 2014         | 791                        | 0.000                            | 0.220                            | 1.341                      | 0.000                            | 0.373                            |

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TAMPA ELECTRIC COMPANY  
 DSM PROGRAM MODIFICATIONS  
 APPENDIX B  
 FILED: JUNE 15, 2007

PROGRAM NAME: WINDOW FILM

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 838                        | 0.000                            | 0.235                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 838                        | 0.000                            | 0.235                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 838                        | 0.000                            | 0.235                            | 0.017                      | 0.000                            | 0.005                            |
| 2008             | 838                        | 0.000                            | 0.235                            | 0.163                      | 0.000                            | 0.046                            |
| 2009             | 838                        | 0.000                            | 0.235                            | 0.352                      | 0.000                            | 0.098                            |
| 2010             | 838                        | 0.000                            | 0.235                            | 0.583                      | 0.000                            | 0.163                            |
| 2011             | 838                        | 0.000                            | 0.235                            | 0.834                      | 0.000                            | 0.233                            |
| 2012             | 838                        | 0.000                            | 0.235                            | 1.044                      | 0.000                            | 0.292                            |
| 2013             | 838                        | 0.000                            | 0.235                            | 1.253                      | 0.000                            | 0.351                            |
| 2014             | 838                        | 0.000                            | 0.235                            | 1.421                      | 0.000                            | 0.398                            |

**Program: New Construction**

**Program Start Date:** July 2000

**Program Description**

The company's New Construction Program known as Energy Plus Homes is a residential new construction conservation program designed to reduce the growth of peak demand and energy in the residential new construction market through the installation of high efficiency equipment and building envelope options. The program utilizes incentives to encourage the construction of new homes to be above the minimum energy efficiency levels required in the State of Florida Energy Efficiency Code for New Construction. This will be achieved through the actions listed below.

1. The certification of new home construction that meets or exceeds the standards used in the Environmental Protection Agency's Energy Star Program.
2. Promoting the construction and purchase of energy efficient housing by educating builders (for profit and not-for-profit), trade groups, architects, realtors, lenders and home buyers in a manner designed to transform the residential new construction market by influencing decisions toward energy efficiency in building techniques and practices.
3. Placing an emphasis on securing participation by affordable housing builders and buyers through educational efforts, coordinated through affordable housing financiers and affordable housing builders.
4. Encouraging the use of environmentally friendly building techniques.

**Program Participation Standards**

1. Duct system sealing and ceiling insulation must be completed prior to any other additional incentives being paid.
2. Incentives for qualifying measures will be offered to the builder for the following installations:

**Duct System:** \$50.00 incentive

- Duct closure with mastic that meets Tampa Electric's guidelines for allowable duct leakage.



**Attic Insulation:** \$75.00 incentive

- Upgrade attic insulation to achieve an R-30

**HVAC:** \$100.00/unit based on the following:

- The minimum qualifying efficiency rating (ARI rating only) is 14.0 SEER.
- Any building envelope improvements listed above must have been incorporated into the home's design and HVAC system sizing calculations prior to installation. Otherwise, no incentive will be paid for this measure.

**Windows:** \$350 incentive

- The windows must be NFRC labeled with a minimum Solar Heat Gain Co-Efficiency  $\leq .40$  and a U-Factor  $\leq .65$  or the performance equivalent based on the same two factors.
- All windows in the home must meet this standard.

**Alternate Water Heating:** \$100 Incentive

- For the installation of a heat recovery unit or heat pump water heater (applicable only when used with or to replace an electric water heater).

**Certification:** \$75

- For any home where the entire suite of energy saving measures are installed, this incentive will be paid for each home the builder has certified by an independent HERS rater to meet the Energy Star® requirement of a HERS Index  $\leq 85$ .
3. The home must be single family detached. The HVAC system must be ducted.
  4. The home and equipment must be accessible during construction and after construction for verification of program standards.

**TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX B  
FILED: JUNE 15, 2007**

5. The home must be located in Tampa Electric's service area and be metered by Tampa Electric to receive incentives.
6. Only one incentive payment will be issued per home. The payment will be based on equipment or measures purchased prior to the certificate of occupancy.
7. Equipment specifications shall be according to Air Conditioning and Refrigeration Institute ("ARI") and the Gas Appliance Manufacturers Association standards (where applicable). Heat recovery water heaters must be equipped with a circulating pump and must be certified by the Association of Refrigeration Desuperheater Manufacturers.
8. Tampa Electric guidelines for allowable duct leakage are based on the procedures set by the Department of Community Affairs used to measure acceptable HERS duct leakage standards. Mastic approved by the State of Florida Energy Efficiency Code for New Construction must be used on all duct closures.
9. The builder will be responsible for installation of qualifying equipment or measures as well as the correction of any items necessary to meet the program standards. The builder will receive the incentive payment when program standards have been met.
10. The builder submits a rebate request form to Tampa Electric. The builder will sign the form certifying that the equipment or measures installed are in accordance with the program standards.
11. Tampa Electric will randomly perform full field verification on a minimum of 10 percent of the participating homes. Forms not selected for field review will have an office verification to validate information.
12. All applications will receive either field verification or office validation prior to payment being made.
13. To determine eligibility for participation, building permits must be dated subsequent to program implementation.
14. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program Savings and Costs**

Tampa Electric used the DOE2 simulations to determine the savings for new construction. The savings for the levels of customer participation are as follows:

Savings:

|                  | Winter<br>kW | Summer<br>kW | Annual<br>Energy |
|------------------|--------------|--------------|------------------|
| <b>Level One</b> | 0.16         | 0.18         | 372              |
| <b>Level Two</b> | 0.25         | 0.25         | 492              |
| <b>Composite</b> | 0.41         | 0.53         | 1,103            |

Administrative costs per participant:

|                  |      |
|------------------|------|
| <b>Level One</b> | \$50 |
| <b>Level Two</b> | \$50 |
| <b>Composite</b> | \$75 |

Incentive costs per participant:

|                  |       |
|------------------|-------|
| <b>Level One</b> | \$50  |
| <b>Level Two</b> | \$125 |
| <b>Composite</b> | \$408 |

**Program Monitoring and Evaluation**

Tampa Electric utilized the engineering estimates from the SRC study and DOE2 modeling for the demand and energy savings. Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: RESIDENTIAL NEW CONSTRUCTION

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 6,478                     | 6,478                              | 8                                     | 0.1%                           | 8  |
| 2006 | 6,396                     | 6,396                              | 4                                     | 0.2%                           | 12   |
| 2007 | 5,896                     | 5,896                              | 15                                    | 0.5%                           | 27   |
| 2008 | 5,685                     | 5,685                              | 35                                    | 1.1%                           | 62   |
| 2009 | 5,931                     | 5,931                              | 55                                    | 2.0%                           | 117  |
| 2010 | 6,106                     | 6,106                              | 65                                    | 0.0%                           | 0  |
| 2011 | 6,308                     | 6,308                              | 85                                    | 0.0%                           | 0  |
| 2012 | 6,656                     | 6,656                              | 105                                   | 0.0%                           | 0  |
| 2013 | 6,775                     | 6,775                              | 125                                   | 0.0%                           | 0  |
| 2014 | 6,780                     | 6,780                              | 150                                   | 0.0%                           | 0  |

\* Previous participation levels not included.

PROGRAM NAME: RESIDENTIAL NEW CONSTRUCTION

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 1,103                      | 0.410                            | 0.530                            | 0.009                      | 0.003                            | 0.004                            |
| 2006         | 1,103                      | 0.410                            | 0.530                            | 0.013                      | 0.005                            | 0.006                            |
| 2007         | 1,103                      | 0.410                            | 0.530                            | 0.030                      | 0.011                            | 0.014                            |
| 2008         | 1,103                      | 0.410                            | 0.530                            | 0.068                      | 0.025                            | 0.033                            |
| 2009         | 1,103                      | 0.410                            | 0.530                            | 0.129                      | 0.048                            | 0.062                            |
| 2010         | 1,103                      | 0.410                            | 0.530                            | 0.000                      | 0.000                            | 0.000                            |
| 2011         | 1,103                      | 0.410                            | 0.530                            | 0.000                      | 0.000                            | 0.000                            |
| 2012         | 1,103                      | 0.410                            | 0.530                            | 0.000                      | 0.000                            | 0.000                            |
| 2013         | 1,103                      | 0.410                            | 0.530                            | 0.000                      | 0.000                            | 0.000                            |
| 2014         | 1,103                      | 0.410                            | 0.530                            | 0.000                      | 0.000                            | 0.000                            |

PROGRAM NAME: RESIDENTIAL NEW CONSTRUCTION

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 1,169                      | 0.437                            | 0.565                            | 0.009                      | 0.003                            | 0.005                            |
| 2006             | 1,169                      | 0.437                            | 0.565                            | 0.014                      | 0.005                            | 0.007                            |
| 2007             | 1,169                      | 0.437                            | 0.565                            | 0.032                      | 0.012                            | 0.015                            |
| 2008             | 1,169                      | 0.437                            | 0.565                            | 0.072                      | 0.027                            | 0.035                            |
| 2009             | 1,169                      | 0.437                            | 0.565                            | 0.137                      | 0.051                            | 0.066                            |
| 2010             | 1,169                      | 0.437                            | 0.565                            | 0.000                      | 0.000                            | 0.000                            |
| 2011             | 1,169                      | 0.437                            | 0.565                            | 0.000                      | 0.000                            | 0.000                            |
| 2012             | 1,169                      | 0.437                            | 0.565                            | 0.000                      | 0.000                            | 0.000                            |
| 2013             | 1,169                      | 0.437                            | 0.565                            | 0.000                      | 0.000                            | 0.000                            |
| 2014             | 1,169                      | 0.437                            | 0.565                            | 0.000                      | 0.000                            | 0.000                            |

**Program:** Low Income Weatherization

**Program Start Date:** 2007

**Program Description**

The Low Income Weatherization Program was designed to assist low-income families in reducing their energy usage. The goal of the program is to establish a package of conservation measures at no cost to the customer. In addition to providing and/or installing the necessary materials for the various conservation measures, a key component will be educating families on energy conservation techniques and to promote behavioral changes to help customers control their energy usage.

Customers would become eligible for this program by means of referral through participating agencies which provide assistance to low-income households.

**Program Participation Standards**

1. A participating agency determines the customer's eligibility based on the same standards they would be using at the time to provide other energy assistance. Typically this would be based on a combination of total household income and number of people in the home.
2. An evaluation of the residence will be required in order to determine qualifying measures to be addressed.
3. A participating agency representative will deliver/install the applicable measures as listed below.
  - **Compact Fluorescent Bulb**  
This provides the resident with six compact fluorescent lamps to replace incandescent bulbs with the similar lumens output.
  - **Water Heater Wrap**  
This will furnish and install a water heater wrap.
  - **Water Heater Temperature Check and Adjustment**  
This provides a temperature check of the water heater and informs the customer of the possibility for turn-down adjustment.

- **Low Flow Faucet Aerator**  
This allows for the installation of a maximum of three aerators per household.
- **Low Flow Showerhead**  
This allows for the installation of a maximum of two low flow showerheads per household.
- **Wall Plate Thermometer**  
This will provide for the installation of one wall plate thermometer per home where there is only wall/window units in use.
- **HVAC Weather Stripping Kit**  
This will provide for the installation of a weather stripping kit for window/wall a/c units. The customer will receive or have installed up to two kits.
- **Change Filter Calendar**  
This provides each homeowner a Tampa Electric magnetic calendar to help remind them to clean or change filter monthly.
- **HVAC Filters**  
This will allow each customer to receive a one year supply of filters.
- **Weatherization Measures**  
This portion of the program will provide weather stripping, caulk, and foam sealant which will be used to reduce or stop air infiltration around doors, windows, attic entries, and where pipes enter the home. Reducing air infiltration is vital to saving energy and improving comfort.
- **Ceiling Insulation**  
This portion of the program will provide ceiling insulation to achieve an R-19 in the residence. Where roof pitch limits accessibility, an R-11 must be added.



**Agency Incentive**

Upon completion of all applicable measure, the agency will submit a reimbursement application to Tampa Electric for a total incentive of up to \$180.00

**Program Savings and Costs**

Tampa Electric used DOE2 building simulations to determine the savings for this program. The anticipated savings for customer participation are as follows:

Winter Demand 1.34 kW

Summer Demand 0.36 kW

Annual Energy 1,707

**Costs:**

|                                      |          |
|--------------------------------------|----------|
| Incentive cost per participant:      | \$180.00 |
| Administrative cost per participant: | \$70.00  |

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: RESIDENTIAL LOW INCOME

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>Level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 558,217                                | 0  | 0   | 0.0%   | 0  |
| 2006 | 571,386                                | 0  | 0   | 0.0%   | 0  |
| 2007 | 583,878                                | 61,307   | 60  | 0.1%   | 60   |
| 2008 | 596,472                                | 61,247   | 75  | 0.2%   | 135  |
| 2009 | 610,379                                | 61,112   | 100   | 0.4%   | 235  |
| 2010 | 625,351                                | 60,877   | 110   | 0.6%   | 345  |
| 2011 | 640,734                                | 60,532   | 120   | 0.8%   | 465  |
| 2012 | 656,186                                | 60,067   | 130   | 1.0%   | 595  |
| 2013 | 669,200                                | 59,472   | 140   | 1.2%   | 735  |
| 2014 | 682,426                                | 58,737   | 150   | 1.5%   | 885  |

PROGRAM NAME: RESIDENTIAL LOW INCOME

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 1707                       | 1.340                            | 0.360                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 1707                       | 1.340                            | 0.360                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 1707                       | 1.340                            | 0.360                            | 0.102                      | 0.080                            | 0.022                            |
| 2008         | 1707                       | 1.340                            | 0.360                            | 0.230                      | 0.181                            | 0.049                            |
| 2009         | 1707                       | 1.340                            | 0.360                            | 0.401                      | 0.315                            | 0.085                            |
| 2010         | 1707                       | 1.340                            | 0.360                            | 0.589                      | 0.462                            | 0.124                            |
| 2011         | 1707                       | 1.340                            | 0.360                            | 0.794                      | 0.623                            | 0.167                            |
| 2012         | 1707                       | 1.340                            | 0.360                            | 1.016                      | 0.797                            | 0.214                            |
| 2013         | 1707                       | 1.340                            | 0.360                            | 1.255                      | 0.985                            | 0.265                            |
| 2014         | 1707                       | 1.340                            | 0.360                            | 1.511                      | 1.186                            | 0.319                            |

PROGRAM NAME: RESIDENTIAL LOW INCOME

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 1809                       | 1.428                            | 0.384                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 1809                       | 1.428                            | 0.384                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 1809                       | 1.428                            | 0.384                            | 0.109                      | 0.086                            | 0.023                            |
| 2008             | 1809                       | 1.428                            | 0.384                            | 0.244                      | 0.193                            | 0.052                            |
| 2009             | 1809                       | 1.428                            | 0.384                            | 0.425                      | 0.336                            | 0.090                            |
| 2010             | 1809                       | 1.428                            | 0.384                            | 0.624                      | 0.493                            | 0.132                            |
| 2011             | 1809                       | 1.428                            | 0.384                            | 0.841                      | 0.664                            | 0.178                            |
| 2012             | 1809                       | 1.428                            | 0.384                            | 1.077                      | 0.850                            | 0.228                            |
| 2013             | 1809                       | 1.428                            | 0.384                            | 1.330                      | 1.050                            | 0.282                            |
| 2014             | 1809                       | 1.428                            | 0.384                            | 1.601                      | 1.264                            | 0.340                            |

**Program:** Educational Energy Awareness (Pilot)

**Program Start Date:** 2007

**Discussion**

Tampa Electric recognizes the impact that residential energy audits have on educating, informing and motivating our customers to implement energy saving practices and measures. To that extent, Tampa Electric proposes a pilot program aimed at educating and motivating our future customers.

Thousands of eighth grade students attending schools located in Tampa Electric's service area are introduced to a science curriculum which covers conservation and energy efficiency solutions. This program would supplement this curriculum and provide a larger customer base with information specific to Tampa Electric's residential conservation programs.

**Program Description**

A three year pilot program designed to save demand and energy by increasing customer awareness of energy use in personal residences. This program is aimed at schools within the Tampa Electric service area and designed to educate students on energy awareness through scripted, professionally written presentations using humor, interactive theater and classroom guides to teach students the benefits of energy efficiency.

As part of the curriculum, students will perform customer assisted on-line or telephone audits on their homes which will provide information on low cost energy saving practices that should be implemented. In addition, parents will receive audit results outlining information on other residential conservation programs that offer incentives or rebates which may be applicable to their residences.

The program will target eighth grade students, enhancing the current science curriculum covering conservation and energy efficiency solutions. The program's supplemental material will correlate to Sunshine State Standards and will include real world projects such as home energy audits.

At the end of the three year pilot period, Tampa Electric will evaluate the overall effectiveness of the program to determine if a permanent program aimed at eighth students is cost-effective.

**Program Costs**

Based on 30 presentations a year to accommodate an annual population of 15,000 eighth grade students and the supporting Tampa Electric material, the cost per student is estimated to be \$36.00.

There are no rebates or incentives for this pilot program.

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this pilot program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG. Data will be collected on a regular basis to supply information necessary to determine the effectiveness of the program. Program progress and expenses will be reported in the company's annual ECCR True-Up and Projection Filings.

**Program:** Commercial Duct Repair Program

**Program Start Date:** 2007

**Program Description**

A conservation incentive program designed to reduce demand and energy by decreasing the load on commercial air conditioning and heating ("HVAC") equipment. This program eliminates or reduces areas of HVAC air distribution losses by sealing and repairing the air distribution system ("ADS"). The ADS is defined as the air handler, air ducts, return plenums, supply plenums and any connecting structure.

Customers call Tampa Electric to request appointments for duct repair and a HVAC contractor appointed by Tampa Electric will seal and repair all accessible components of the ADS in the facility. Tampa Electric's incentive is included in the payment to the participating contractor performing ADS repairs.

**Program Participation Standards**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. HVAC equipment and systems that are no larger than 65,000 Btu are eligible.
3. Facilities must have a central ducted HVAC system with electric heating or air conditioning that is accessible for inspection and repair.
4. Tampa Electric will appoint an HVAC contractor to identify existing problems, determine repair cost and perform repairs.
5. Repair must be performed by a participating HVAC contractor.
6. Repairs will be sealed by mastic techniques (adhesive with fibers embedded or adhesive with fabric reinforced tape). Air handler panels/openings will be sealed with tape or other approved materials. If ducts are replaced, mastic must be used to seal all joints, connections and seams in the air distribution system.
7. HVAC contractor submits duct repair work order to Tampa Electric.
8. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of the participating customers. Forms not selected for field review will have an office verification to validate information.

9. No payment will be made until Tampa Electric verifies or validates work orders.
10. Incentive amounts will be \$200 per unit.
11. The reporting requirements for this program will follow Rule 25-17.0021 (5), Florida Administrative Code. Additionally, program expenses will be identified in the ECCR True - up and Projection filings.

**Program Savings and Costs**

Savings were obtained using building simulations models. The analysis yielded the following:

Summer Demand: 0.47 kW

Winter Demand: 0.17 kW

Energy: 684 kWh

**Costs:**

|                                      |          |
|--------------------------------------|----------|
| Incentive cost per participant:      | \$200.00 |
| Administrative cost per participant: | \$ 50.00 |

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.



PROGRAM NAME: COMMERCIAL DUCT REPAIR

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 69,953                    | 0                                  | 0                                     | 0.0%                           | 0  |
| 2006 | 71,177                    | 0                                  | 0                                     | 0.0%                           | 0  |
| 2007 | 72,474                    | 25,366                             | 10                                    | 0.0%                           | 10   |
| 2008 | 73,670                    | 25,784                             | 10                                    | 0.1%                           | 20   |
| 2009 | 74,906                    | 26,217                             | 10                                    | 0.1%                           | 30   |
| 2010 | 76,397                    | 26,739                             | 10                                    | 0.1%                           | 40   |
| 2011 | 77,929                    | 27,275                             | 10                                    | 0.2%                           | 50   |
| 2012 | 79,452                    | 27,808                             | 10                                    | 0.2%                           | 60   |
| 2013 | 80,800                    | 28,280                             | 10                                    | 0.2%                           | 70   |
| 2014 | 82,160                    | 28,756                             | 10                                    | 0.3%                           | 80   |

PROGRAM NAME: COMMERCIAL DUCT REPAIR

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 684                        | 0.170                            | 0.470                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 684                        | 0.170                            | 0.470                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 684                        | 0.170                            | 0.470                            | 0.007                      | 0.002                            | 0.005                            |
| 2008         | 684                        | 0.170                            | 0.470                            | 0.014                      | 0.003                            | 0.009                            |
| 2009         | 684                        | 0.170                            | 0.470                            | 0.021                      | 0.005                            | 0.014                            |
| 2010         | 684                        | 0.170                            | 0.470                            | 0.027                      | 0.007                            | 0.019                            |
| 2011         | 684                        | 0.170                            | 0.470                            | 0.034                      | 0.009                            | 0.024                            |
| 2012         | 684                        | 0.170                            | 0.470                            | 0.041                      | 0.010                            | 0.028                            |
| 2013         | 684                        | 0.170                            | 0.470                            | 0.048                      | 0.012                            | 0.033                            |
| 2014         | 684                        | 0.170                            | 0.470                            | 0.055                      | 0.014                            | 0.038                            |

PROGRAM NAME: COMMERCIAL DUCT REPAIR

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 724                        | 0.181                            | 0.501                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 724                        | 0.181                            | 0.501                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 724                        | 0.181                            | 0.501                            | 0.007                      | 0.002                            | 0.005                            |
| 2008             | 724                        | 0.181                            | 0.501                            | 0.014                      | 0.004                            | 0.010                            |
| 2009             | 724                        | 0.181                            | 0.501                            | 0.022                      | 0.005                            | 0.015                            |
| 2010             | 724                        | 0.181                            | 0.501                            | 0.029                      | 0.007                            | 0.020                            |
| 2011             | 724                        | 0.181                            | 0.501                            | 0.036                      | 0.009                            | 0.025                            |
| 2012             | 724                        | 0.181                            | 0.501                            | 0.043                      | 0.011                            | 0.030                            |
| 2013             | 724                        | 0.181                            | 0.501                            | 0.051                      | 0.013                            | 0.035                            |
| 2014             | 724                        | 0.181                            | 0.501                            | 0.058                      | 0.014                            | 0.040                            |

**Program:** Commercial Building Envelope

**Program Start Date:** 2007

**Program Description**

This is a conservation program designed to reduce demand and energy by decreasing the load on commercial air conditioning and heating ("HVAC") equipment. Through incentives, the program will encourage commercial/industrial customers to invest in energy efficiency building envelope improvements. The improvements include solar window film, ceiling insulation, and wall insulation.

The Commercial Building Envelope Program will be promoted during commercial/industrial energy audits in an effort to inform and educate the customer. Certificates for participation will be issued through energy audits or by direct evaluation of existing building envelope conditions.

**Solar Window Film**

A conservation measure designed to encourage commercial/industrial customers to apply solar film on windows facing east and west. This measure is intended to reduce the solar heat gain into a facility which, in turn, reduces HVAC load and improves comfort.

**Participation Standards**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. Only windows with eastern and western exposures are eligible and the windows shall be part of a conditioned space envelope.
3. All windows with eastern and western exposure are required to have solar film installed. An exception will be windows with eastern or western orientation but no direct solar exposure. (e.g., an east facing window located under an overhang where the covering extends at least eight feet away from the building)
4. The minimum shading co-efficiency must be .45 or less.
5. An incentive of \$1.00 per square foot of glass area will be paid to the customer after proper documentation and inspection. In addition, facilities with multiple guest rooms, such as hotels, hospitals, and assisted-care living facilities, may receive a maximum incentive up to \$55 per room.

6. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of the participating customers. Forms not selected for field review will have an office verification to validate information.
7. The reporting requirements for this program will follow Rule 25-17.0021 (5), Florida Administrative Code. Additionally, program expenses will be identified in the ECCR True - up and Projection filings.

### **Program Savings and Costs**

Savings were obtained using building simulation models. The analysis yielded the following:

Summer Demand: 0.84 kW

Winter Demand: N/A

Energy: 3,670 kWh

Costs:

|                                      |          |
|--------------------------------------|----------|
| Incentive cost per participant:      | \$440.00 |
| Administrative cost per participant: | \$ 50.00 |

### **Ceiling Insulation**

A conservation measure designed to encourage commercial/industrial customers to install insulation in ceilings above conditioned spaces in their facility. This measure is intended to reduce heat transfer through ceilings which, in turn, reduces HVAC load and improves comfort.

### **Participation Standards**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. Only areas with dedicated electric HVAC systems are eligible.
3. Heat loss and heat gain calculations must show that the additional insulation would result in heating and/or cooling energy use reductions in order to be eligible for an incentive.
4. The maximum incentive amount will be \$0.05 per square foot of area installed.

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5. Customers must add a minimum insulation value of R-11 based on a manufacturer's specification card. Resulting total R-values achieved will range from R-23 to R-29. Where roof pitch limits accessibility, an R-11 must be added.
6. Customers are required to sign off on the number of bags of insulation installed.
7. Insulation certificates will be issued through commercial energy audits.
8. Insulation contractor or customer submits insulation certificate to Tampa Electric.
9. Tampa Electric will randomly perform full field verification on a minimum of 10 percent of the participating customers. Forms not selected for field review will have an office verification to validate information.
10. No payment will be made until Tampa Electric verifies or validates incentive certificates.
11. The reporting requirements for this program will follow Rule 25-17.0021 (5), Florida Administrative Code. Additionally, program expenses will be identified in the ECCR True - up and Projection filings.

**Program Savings and Costs**

Savings were obtained using building simulation models. The analysis yielded the following:

Summer Demand: 0.57 kW

Winter Demand: 0.18 kW

Energy: 896 kWh

Costs:

Incentive cost per participant: \$160.00

Administrative cost per participant: \$ 50.00

**Wall Insulation**

A conservation measure designed to encourage commercial/industrial customers to install insulation in walls of conditioned spaces in their facilities. This measure is

intended to reduce heat transfer through ceilings which, in turn, reduces HVAC load and improves comfort.

**Participation Standards**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. The existing wall insulation level must be less than R-6.
3. Only areas with dedicated electric HVAC systems are eligible.
4. Heat loss and heat gain calculations must show that the additional insulation would result in heating and/or cooling energy use reductions in order to be eligible for an incentive.
5. The maximum incentive amount will be \$0.20 per square foot of area installed per customer.
6. Customers must add a minimum insulation value of R-6 based on a manufacturer's specification card.
7. Customers are required to sign off on type and amount insulation installed.
8. Insulation certificates will be issued through commercial energy audits by direct evaluation of existing levels of insulation.
9. Insulation contractor or customer submits insulation certificate to Tampa Electric.
10. Tampa Electric will randomly perform full field verification on a minimum of 10 percent of the participating customers. Forms not selected for field review will have an office verification to validate information.
11. No payment will be made until Tampa Electric verifies or validates incentive certificates.
12. The reporting requirements for this program will follow Rule 25-17.0021 (5), Florida Administrative Code. Additionally, program expenses will be identified in the ECCR True - Up and Projection Filings.

**Program Savings and Costs**

Savings were obtained using building simulation models. The analysis yielded the following:

Summer Demand: 0.50 kW

Winter Demand: 0.71 kW

Energy: 1,803 kWh

Costs:

|                                      |          |
|--------------------------------------|----------|
| Incentive cost per participant:      | \$299.00 |
| Administrative cost per participant: | \$ 50.00 |

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.



PROGRAM NAME: COMMERCIAL WINDOW FILM

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>Level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 69,953                                 | 0  | 0   | 0.0%   | 0  |
| 2006 | 71,177                                 | 0  | 0   | 0.0%   | 0  |
| 2007 | 72,474                                 | 7,247  | 15  | 0.2%   | 15   |
| 2008 | 73,670                                 | 7,367  | 15  | 0.4%   | 30   |
| 2009 | 74,906                                 | 7,491  | 15  | 0.6%   | 45   |
| 2010 | 76,397                                 | 7,640  | 15  | 0.8%   | 60   |
| 2011 | 77,929                                 | 7,793  | 15  | 1.0%   | 75   |
| 2012 | 79,452                                 | 7,945  | 15  | 1.1%   | 90   |
| 2013 | 80,800                                 | 8,080  | 15  | 1.3%   | 105  |
| 2014 | 82,160                                 | 8,216  | 15  | 1.5%   | 120  |

PROGRAM NAME: COMMERCIAL WINDOW FILM

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 3,670                      | 0.930                            | 0.840                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 3,670                      | 0.930                            | 0.840                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 3,670                      | 0.930                            | 0.840                            | 0.055                      | 0.014                            | 0.013                            |
| 2008         | 3,670                      | 0.930                            | 0.840                            | 0.110                      | 0.028                            | 0.025                            |
| 2009         | 3,670                      | 0.930                            | 0.840                            | 0.165                      | 0.042                            | 0.038                            |
| 2010         | 3,670                      | 0.930                            | 0.840                            | 0.220                      | 0.056                            | 0.050                            |
| 2011         | 3,670                      | 0.930                            | 0.840                            | 0.275                      | 0.070                            | 0.063                            |
| 2012         | 3,670                      | 0.930                            | 0.840                            | 0.330                      | 0.084                            | 0.076                            |
| 2013         | 3,670                      | 0.930                            | 0.840                            | 0.385                      | 0.098                            | 0.088                            |
| 2014         | 3,670                      | 0.930                            | 0.840                            | 0.440                      | 0.112                            | 0.101                            |

PROGRAM NAME: COMMERCIAL WINDOW FILM

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 3,883                      | 0.990                            | 0.895                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 3,883                      | 0.990                            | 0.895                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 3,883                      | 0.990                            | 0.895                            | 0.058                      | 0.015                            | 0.013                            |
| 2008             | 3,883                      | 0.990                            | 0.895                            | 0.116                      | 0.030                            | 0.027                            |
| 2009             | 3,883                      | 0.990                            | 0.895                            | 0.175                      | 0.045                            | 0.040                            |
| 2010             | 3,883                      | 0.990                            | 0.895                            | 0.233                      | 0.059                            | 0.054                            |
| 2011             | 3,883                      | 0.990                            | 0.895                            | 0.291                      | 0.074                            | 0.067                            |
| 2012             | 3,883                      | 0.990                            | 0.895                            | 0.349                      | 0.089                            | 0.081                            |
| 2013             | 3,883                      | 0.990                            | 0.895                            | 0.408                      | 0.104                            | 0.094                            |
| 2014             | 3,883                      | 0.990                            | 0.895                            | 0.466                      | 0.119                            | 0.107                            |

PROGRAM NAME: COMMERCIAL CEILING INSULATION

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>Level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 69,953                                 | 0  | 0   | 0.0%   | 0  |
| 2006 | 71,177                                 | 0  | 0   | 0.0%   | 0  |
| 2007 | 72,474                                 | 9,059  | 10  | 0.1%   | 10   |
| 2008 | 73,670                                 | 9,209  | 10  | 0.2%   | 20   |
| 2009 | 74,906                                 | 9,363  | 10  | 0.3%   | 30   |
| 2010 | 76,397                                 | 9,550  | 10  | 0.4%   | 40   |
| 2011 | 77,929                                 | 9,741  | 10  | 0.5%   | 50   |
| 2012 | 79,452                                 | 9,931  | 10  | 0.6%   | 60   |
| 2013 | 80,800                                 | 10,100   | 10  | 0.7%   | 70   |
| 2014 | 82,160                                 | 10,270   | 10  | 0.8%   | 80   |

PROGRAM NAME: COMMERCIAL CEILING INSULATION

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 896                        | 0.180                            | 0.510                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 896                        | 0.180                            | 0.510                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 896                        | 0.180                            | 0.510                            | 0.009                      | 0.002                            | 0.005                            |
| 2008         | 896                        | 0.180                            | 0.510                            | 0.018                      | 0.004                            | 0.010                            |
| 2009         | 896                        | 0.180                            | 0.510                            | 0.027                      | 0.005                            | 0.015                            |
| 2010         | 896                        | 0.180                            | 0.510                            | 0.036                      | 0.007                            | 0.020                            |
| 2011         | 896                        | 0.180                            | 0.510                            | 0.045                      | 0.009                            | 0.026                            |
| 2012         | 896                        | 0.180                            | 0.510                            | 0.054                      | 0.011                            | 0.031                            |
| 2013         | 896                        | 0.180                            | 0.510                            | 0.063                      | 0.013                            | 0.036                            |
| 2014         | 896                        | 0.180                            | 0.510                            | 0.072                      | 0.014                            | 0.041                            |

PROGRAM NAME: COMMERCIAL CEILING INSULATION

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 948                        | 0.192                            | 0.543                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 948                        | 0.192                            | 0.543                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 948                        | 0.192                            | 0.543                            | 0.009                      | 0.002                            | 0.005                            |
| 2008             | 948                        | 0.192                            | 0.543                            | 0.019                      | 0.004                            | 0.011                            |
| 2009             | 948                        | 0.192                            | 0.543                            | 0.028                      | 0.006                            | 0.016                            |
| 2010             | 948                        | 0.192                            | 0.543                            | 0.038                      | 0.008                            | 0.022                            |
| 2011             | 948                        | 0.192                            | 0.543                            | 0.047                      | 0.010                            | 0.027                            |
| 2012             | 948                        | 0.192                            | 0.543                            | 0.057                      | 0.012                            | 0.033                            |
| 2013             | 948                        | 0.192                            | 0.543                            | 0.066                      | 0.013                            | 0.038                            |
| 2014             | 948                        | 0.192                            | 0.543                            | 0.076                      | 0.015                            | 0.043                            |

PROGRAM NAME: COMMERCIAL WALL INSULATION

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>Level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 69,953                                 | 0  | 0   | 0.0%   | 0  |
| 2006 | 71,177                                 | 0  | 0   | 0.0%   | 0  |
| 2007 | 72,474                                 | 10,871   | 10  | 0.1%   | 10   |
| 2008 | 73,670                                 | 11,050   | 10  | 0.2%   | 20   |
| 2009 | 74,906                                 | 11,236   | 10  | 0.3%   | 30   |
| 2010 | 76,397                                 | 11,460   | 10  | 0.3%   | 40   |
| 2011 | 77,929                                 | 11,689   | 10  | 0.4%   | 50   |
| 2012 | 79,452                                 | 11,918   | 10  | 0.5%   | 60   |
| 2013 | 80,800                                 | 12,120   | 10  | 0.6%   | 70   |
| 2014 | 82,160                                 | 12,324   | 10  | 0.6%   | 80   |

PROGRAM NAME: COMMERCIAL WALL INSULATION

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 1,803                      | 0.710                            | 0.500                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 1,803                      | 0.710                            | 0.500                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 1,803                      | 0.710                            | 0.500                            | 0.018                      | 0.007                            | 0.005                            |
| 2008         | 1,803                      | 0.710                            | 0.500                            | 0.036                      | 0.014                            | 0.010                            |
| 2009         | 1,803                      | 0.710                            | 0.500                            | 0.054                      | 0.021                            | 0.015                            |
| 2010         | 1,803                      | 0.710                            | 0.500                            | 0.072                      | 0.028                            | 0.020                            |
| 2011         | 1,803                      | 0.710                            | 0.500                            | 0.090                      | 0.036                            | 0.025                            |
| 2012         | 1,803                      | 0.710                            | 0.500                            | 0.108                      | 0.043                            | 0.030                            |
| 2013         | 1,803                      | 0.710                            | 0.500                            | 0.126                      | 0.050                            | 0.035                            |
| 2014         | 1,803                      | 0.710                            | 0.500                            | 0.144                      | 0.057                            | 0.040                            |



PROGRAM NAME: COMMERCIAL WALL INSULATION

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 1,908                      | 0.756                            | 0.533                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 1,908                      | 0.756                            | 0.533                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 1,908                      | 0.756                            | 0.533                            | 0.019                      | 0.008                            | 0.005                            |
| 2008             | 1,908                      | 0.756                            | 0.533                            | 0.038                      | 0.015                            | 0.011                            |
| 2009             | 1,908                      | 0.756                            | 0.533                            | 0.057                      | 0.023                            | 0.016                            |
| 2010             | 1,908                      | 0.756                            | 0.533                            | 0.076                      | 0.030                            | 0.021                            |
| 2011             | 1,908                      | 0.756                            | 0.533                            | 0.095                      | 0.038                            | 0.027                            |
| 2012             | 1,908                      | 0.756                            | 0.533                            | 0.114                      | 0.045                            | 0.032                            |
| 2013             | 1,908                      | 0.756                            | 0.533                            | 0.134                      | 0.053                            | 0.037                            |
| 2014             | 1,908                      | 0.756                            | 0.533                            | 0.153                      | 0.060                            | 0.043                            |

**Program:** Commercial Energy Efficient Motors

**Program Start Date:** 2007

**Program Description**

A conservation program designed to encourage commercial/industrial customers to install premium-efficiency motors in new or existing facilities through incentives. The program is aimed at reducing the growth of peak demand and energy by encouraging customers to replace worn out, inefficient equipment with high efficiency equipment that exceeds minimum product manufacturing standards.

**Program Participation Standards**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. Minimum qualification for motors is as follows:
  - Size range from 1hp to 500hp
  - Motors must be new
  - Three phase
  - Induction motors
  - NEMA design A & B
  - Open Drip-Proof (ODP) or Totally Enclosed Fan-Cooled (TEFC)
  - 1200, 1800, or 3600 RPM
3. Eligible motors must operate a minimum of 2,000 hours annually.

**TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX B  
FILED: JUNE 15, 2007**

4. Nominal Efficiency Tables:

**Nominal Efficiency Induction Motors Rated 600 Volts or Less**

| Motor HP | Open Drip-Proof (ODP) |                   |                   | Totally Enclosed Fan-Cooled (TEFC) |                   |                   |
|----------|-----------------------|-------------------|-------------------|------------------------------------|-------------------|-------------------|
|          | 6-pole (3600rpm)      | 4-pole (1800 rpm) | 2-pole (1200 rpm) | 6-pole (3600rpm)                   | 4-pole (1800 rpm) | 2-pole (1200 rpm) |
| 1        | 82.5                  | 85.5              | 77                | 82.5                               | 85.5              | 77                |
| 1.5      | 86.5                  | 86.5              | 84                | 87.5                               | 86.5              | 84                |
| 2        | 87.5                  | 86.5              | 85.5              | 88.5                               | 86.5              | 85.5              |
| 3        | 89.5                  | 89.5              | 85.5              | 89.5                               | 89.5              | 86.5              |
| 5        | 89.5                  | 89.5              | 86.5              | 89.5                               | 89.5              | 88.5              |
| 7.5      | 90.2                  | 91                | 88.5              | 91                                 | 91.7              | 89.5              |
| 10       | 91.7                  | 91.7              | 89.5              | 91                                 | 91.7              | 90.2              |
| 15       | 91.7                  | 93                | 90.2              | 91.7                               | 92.4              | 91                |
| 20       | 92.4                  | 93                | 91                | 91.7                               | 93                | 91                |
| 25       | 93                    | 93.6              | 91.7              | 93                                 | 93.6              | 91.7              |
| 30       | 93.6                  | 94.1              | 91.7              | 93                                 | 93.6              | 91.7              |
| 40       | 94.1                  | 94.1              | 92.4              | 94.1                               | 94.1              | 92.4              |
| 50       | 94.1                  | 94.5              | 93                | 94.1                               | 94.5              | 93                |
| 60       | 94.5                  | 95                | 93.6              | 94.5                               | 95                | 93.6              |
| 75       | 94.5                  | 95                | 93.8              | 94.5                               | 95.4              | 93.6              |
| 100      | 95                    | 95.4              | 93.6              | 95                                 | 95.4              | 94.1              |
| 125      | 95                    | 95.4              | 94.1              | 95                                 | 95.4              | 95                |
| 150      | 95.4                  | 95.8              | 94.1              | 95.8                               | 95.8              | 95                |
| 200      | 95.4                  | 95.8              | 95                | 95.8                               | 96.2              | 95.4              |
| 250      | 95.4                  | 95.8              | 95                | 95.8                               | 96.2              | 95.8              |
| 300      | 95.4                  | 95.8              | 95.4              | 95.8                               | 96.2              | 95.8              |
| 350      | 95.4                  | 95.8              | 95.4              | 95.8                               | 96.2              | 95.8              |
| 400      | 95.8                  | 95.8              | 95.8              | 95.8                               | 96.2              | 95.8              |
| 450      | 96.2                  | 96.2              | 95.8              | 95.8                               | 96.2              | 95.8              |
| 500      | 96.2                  | 96.2              | 95.8              | 95.8                               | 96.2              | 95.8              |

**Nominal Efficiency Induction Motors Rated Medium Volts 5kV or Less**

| Motor HP | Open Drip-Proof (ODP) |                   |                   | Totally Enclosed Fan-Cooled (TEFC) |                   |                   |
|----------|-----------------------|-------------------|-------------------|------------------------------------|-------------------|-------------------|
|          | 6-pole (3600rpm)      | 4-pole (1800 rpm) | 2-pole (1200 rpm) | 6-pole (3600rpm)                   | 4-pole (1800 rpm) | 2-pole (1200 rpm) |
| 250      | 95                    | 95                | 94.5              | 95                                 | 95                | 95                |
| 300      | 95                    | 95                | 94.5              | 95                                 | 95                | 95                |
| 350      | 95                    | 95                | 94.5              | 95                                 | 95                | 95                |
| 400      | 95                    | 95                | 94.5              | 95                                 | 95                | 95                |
| 500      | 95                    | 95                | 94.5              | 95                                 | 95                | 95                |

5. Customer/contractor will submit application form to Tampa Electric with invoice(s) of motor(s) purchased.
6. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of the participating customers. Forms not selected for field review will have an office verification to validate information.
7. No payment will be made until Tampa Electric verifies or validates incentive certificates.
8. Customer incentive amount will be \$2.50 per HP.

9. The reporting requirements for this program will follow Rule 25-17.0021 (5), Florida Administrative Code. Additionally, program expenses will be identified in the ECCR True - Up and Projection Filings.

**Program Savings and Costs**

Based on industry data and energy analysis, summer/winter demand and annual energy savings per customer is estimated at 1.0 kW and 2,482 kWh, respectively. Energy savings is based on a 75 hp motor running 50 hours/week.

Costs:

|                                      |          |
|--------------------------------------|----------|
| Incentive cost per participant:      | \$187.50 |
| Administrative cost per participant: | \$ 50.00 |

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: COMMERCIAL ENERGY EFFICIENT MOTORS

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>Level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 69,953                                 | 0  | 0   | 0.0%   | 0  |
| 2006 | 71,177                                 | 0  | 0   | 0.0%   | 0  |
| 2007 | 72,474                                 | 5,436  | 50  | 0.9%   | 50   |
| 2008 | 73,670                                 | 5,525  | 50  | 1.8%   | 100  |
| 2009 | 74,906                                 | 5,618  | 50  | 2.7%   | 150  |
| 2010 | 76,397                                 | 5,730  | 50  | 3.5%   | 200  |
| 2011 | 77,929                                 | 5,845  | 50  | 4.3%   | 250  |
| 2012 | 79,452                                 | 5,959  | 50  | 5.0%   | 300  |
| 2013 | 80,800                                 | 6,060  | 50  | 5.8%   | 350  |
| 2014 | 82,160                                 | 6,162  | 50  | 6.5%   | 400  |

PROGRAM NAME: COMMERCIAL ENERGY EFFICIENT MOTORS

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 2,482                      | 1.000                            | 1.000                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 2,482                      | 1.000                            | 1.000                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 2,482                      | 1.000                            | 1.000                            | 0.124                      | 0.050                            | 0.050                            |
| 2008         | 2,482                      | 1.000                            | 1.000                            | 0.248                      | 0.100                            | 0.100                            |
| 2009         | 2,482                      | 1.000                            | 1.000                            | 0.372                      | 0.150                            | 0.150                            |
| 2010         | 2,482                      | 1.000                            | 1.000                            | 0.496                      | 0.200                            | 0.200                            |
| 2011         | 2,482                      | 1.000                            | 1.000                            | 0.621                      | 0.250                            | 0.250                            |
| 2012         | 2,482                      | 1.000                            | 1.000                            | 0.745                      | 0.300                            | 0.300                            |
| 2013         | 2,482                      | 1.000                            | 1.000                            | 0.869                      | 0.350                            | 0.350                            |
| 2014         | 2,482                      | 1.000                            | 1.000                            | 0.993                      | 0.400                            | 0.400                            |

PROGRAM NAME: COMMERCIAL ENERGY EFFICIENT MOTORS

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 2,626                      | 1.065                            | 1.065                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 2,626                      | 1.065                            | 1.065                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 2,626                      | 1.065                            | 1.065                            | 0.131                      | 0.053                            | 0.053                            |
| 2008             | 2,626                      | 1.065                            | 1.065                            | 0.263                      | 0.107                            | 0.107                            |
| 2009             | 2,626                      | 1.065                            | 1.065                            | 0.394                      | 0.160                            | 0.160                            |
| 2010             | 2,626                      | 1.065                            | 1.065                            | 0.525                      | 0.213                            | 0.213                            |
| 2011             | 2,626                      | 1.065                            | 1.065                            | 0.656                      | 0.266                            | 0.266                            |
| 2012             | 2,626                      | 1.065                            | 1.065                            | 0.788                      | 0.320                            | 0.320                            |
| 2013             | 2,626                      | 1.065                            | 1.065                            | 0.919                      | 0.373                            | 0.373                            |
| 2014             | 2,626                      | 1.065                            | 1.065                            | 1.050                      | 0.426                            | 0.426                            |

**Program:** Commercial Load Management

**Program Start Date:** January 1988

**Program Description**

Tampa Electric's Commercial Load Management Program is intended to help alter the company's system load curve by reducing summer and winter demand peaks.

Large loads such as walk-in freezers are interrupted for up to three hours by radio controlled switches similar to those used in the residential load management. Commercial air conditioning equipment is cycled during summer control periods. Monthly incentive credits are paid to customers participating in this program.

**Program Participation Standards**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. Cyclic air conditioning control is applicable to any customer served under rate schedule GS, GSD, and GSLD located in Tampa Electric's service area that signs a tariff agreement for load management service.
3. Extended control is applicable to any customer under rate schedule GS, GST, GSD, GSDT, GSLD and GSLDT located in Tampa Electric's service area who signs a tariff agreement for load management service.
4. Cyclic incentive is \$2.50 per kW demand per summer month for all appliances on program and is applied to the monthly bill.
5. Extended incentive is \$3.00 per kW demand per month for all appliances on program and is applied to the monthly bill.
6. Winter is November through March. Summer is April through October.
7. The company's prime use periods for normal control are as follows:  
Winter - 6:00 A.M. to 11:00 A.M. and 6:00 P.M. to 10:00 P.M.  
Summer - 2:00 P.M. to 10:00 P.M.
8. The initial credit is determined by the verification date.
9. Tampa Electric will perform field verifications on all installations.
10. Cyclic control is available only for the summer season.



11. All appliances controlled must be electric.
12. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program Savings and Costs**

Demand reduction for the extended control commercial customers is continuously metered. This is necessary to determine the monthly credit for each participant. Demand reduction for cyclic control customers is determined at time of installation through equipment performance evaluation.

Demand:

The average demand reduction per customer is as follows:

|  |  |
|--|--|
| Summer @ 5:00 P.M. and 91 degrees F in June    | 13.20 kW cyclic control<br>92.00 kW extended control |
| Winter @ 8:00 A.M. and 31 degrees F in January | 0.00 kW cyclic control<br>60.00 kW extended control  |

Energy: Annual energy savings from the program are negligible.

Costs: Costs are based on present per customer averages.

|                                   | <u>Cyclic</u> | <u>Extended</u> |
|-----------------------------------|---------------|-----------------|
| Admin, Dep & Ret, Adver, Install: | \$820         | \$2,307         |
| Maintenance (annual):             | \$16          | \$568           |
| Incentives (annual):              | \$385         | \$2,832         |

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: COMMERCIAL LOAD MANAGEMENT - CYCLIC

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 69,953                    | 69,937                             | 0                                     | 0.0%                           | 0  |
| 2006 | 71,177                    | 71,161                             | 0                                     | 0.0%                           | 0  |
| 2007 | 72,474                    | 72,457                             | 1                                     | 0.0%                           | 1  |
| 2008 | 73,670                    | 73,652                             | 1                                     | 0.0%                           | 2  |
| 2009 | 74,906                    | 74,887                             | 1                                     | 0.0%                           | 3  |
| 2010 | 76,397                    | 76,377                             | 1                                     | 0.0%                           | 4  |
| 2011 | 77,929                    | 77,908                             | 1                                     | 0.0%                           | 5  |
| 2012 | 79,452                    | 79,430                             | 1                                     | 0.0%                           | 6  |
| 2013 | 80,800                    | 80,777                             | 1                                     | 0.0%                           | 7  |
| 2014 | 82,160                    | 82,136                             | 1                                     | 0.0%                           | 8  |

\* Previous participation levels not included.

PROGRAM NAME: COMMERCIAL LOAD MANAGEMENT - CYCLIC

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 0                          | 0.000                            | 13.200                           | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 0                          | 0.000                            | 13.200                           | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 0                          | 0.000                            | 13.200                           | 0.000                      | 0.000                            | 0.013                            |
| 2008         | 0                          | 0.000                            | 13.200                           | 0.000                      | 0.000                            | 0.026                            |
| 2009         | 0                          | 0.000                            | 13.200                           | 0.000                      | 0.000                            | 0.040                            |
| 2010         | 0                          | 0.000                            | 13.200                           | 0.000                      | 0.000                            | 0.053                            |
| 2011         | 0                          | 0.000                            | 13.200                           | 0.000                      | 0.000                            | 0.066                            |
| 2012         | 0                          | 0.000                            | 13.200                           | 0.000                      | 0.000                            | 0.079                            |
| 2013         | 0                          | 0.000                            | 13.200                           | 0.000                      | 0.000                            | 0.092                            |
| 2014         | 0                          | 0.000                            | 13.200                           | 0.000                      | 0.000                            | 0.106                            |

PROGRAM NAME: COMMERCIAL LOAD MANAGEMENT - CYCLIC

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 0                          | 0.000                            | 14.058                           | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 0                          | 0.000                            | 14.058                           | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 0                          | 0.000                            | 14.058                           | 0.000                      | 0.000                            | 0.014                            |
| 2008             | 0                          | 0.000                            | 14.058                           | 0.000                      | 0.000                            | 0.028                            |
| 2009             | 0                          | 0.000                            | 14.058                           | 0.000                      | 0.000                            | 0.042                            |
| 2010             | 0                          | 0.000                            | 14.058                           | 0.000                      | 0.000                            | 0.056                            |
| 2011             | 0                          | 0.000                            | 14.058                           | 0.000                      | 0.000                            | 0.070                            |
| 2012             | 0                          | 0.000                            | 14.058                           | 0.000                      | 0.000                            | 0.084                            |
| 2013             | 0                          | 0.000                            | 14.058                           | 0.000                      | 0.000                            | 0.098                            |
| 2014             | 0                          | 0.000                            | 14.058                           | 0.000                      | 0.000                            | 0.112                            |

## PROGRAM NAME: COMMERCIAL LOAD MANAGEMENT - EXTENDED

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 69,953                    | 69,949                             | 0                                     | 0.0%                           | 0  |
| 2006 | 71,177                    | 71,173                             | 0                                     | 0.0%                           | 0  |
| 2007 | 72,474                    | 72,469                             | 1                                     | 0.0%                           | 1  |
| 2008 | 73,670                    | 73,664                             | 1                                     | 0.0%                           | 2  |
| 2009 | 74,906                    | 74,899                             | 1                                     | 0.0%                           | 3  |
| 2010 | 76,397                    | 76,389                             | 1                                     | 0.0%                           | 4  |
| 2011 | 77,929                    | 77,920                             | 1                                     | 0.0%                           | 5  |
| 2012 | 79,452                    | 79,442                             | 1                                     | 0.0%                           | 6  |
| 2013 | 80,800                    | 80,789                             | 1                                     | 0.0%                           | 7  |
| 2014 | 82,160                    | 82,148                             | 1                                     | 0.0%                           | 8  |

\* Previous participation levels not included.

PROGRAM NAME: COMMERCIAL LOAD MANAGEMENT - EXTENDED

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 0                          | 60.000                           | 92.000                           | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 0                          | 60.000                           | 92.000                           | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 0                          | 60.000                           | 92.000                           | 0.000                      | 0.060                            | 0.092                            |
| 2008         | 0                          | 60.000                           | 92.000                           | 0.000                      | 0.120                            | 0.184                            |
| 2009         | 0                          | 60.000                           | 92.000                           | 0.000                      | 0.180                            | 0.276                            |
| 2010         | 0                          | 60.000                           | 92.000                           | 0.000                      | 0.240                            | 0.368                            |
| 2011         | 0                          | 60.000                           | 92.000                           | 0.000                      | 0.300                            | 0.460                            |
| 2012         | 0                          | 60.000                           | 92.000                           | 0.000                      | 0.360                            | 0.552                            |
| 2013         | 0                          | 60.000                           | 92.000                           | 0.000                      | 0.420                            | 0.644                            |
| 2014         | 0                          | 60.000                           | 92.000                           | 0.000                      | 0.480                            | 0.736                            |

PROGRAM NAME: COMMERCIAL LOAD MANAGEMENT - EXTENDED

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 0                          | 63.900                           | 97.980                           | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 0                          | 63.900                           | 97.980                           | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 0                          | 63.900                           | 97.980                           | 0.000                      | 0.064                            | 0.098                            |
| 2008             | 0                          | 63.900                           | 97.980                           | 0.000                      | 0.128                            | 0.196                            |
| 2009             | 0                          | 63.900                           | 97.980                           | 0.000                      | 0.192                            | 0.294                            |
| 2010             | 0                          | 63.900                           | 97.980                           | 0.000                      | 0.256                            | 0.392                            |
| 2011             | 0                          | 63.900                           | 97.980                           | 0.000                      | 0.320                            | 0.490                            |
| 2012             | 0                          | 63.900                           | 97.980                           | 0.000                      | 0.383                            | 0.588                            |
| 2013             | 0                          | 63.900                           | 97.980                           | 0.000                      | 0.447                            | 0.686                            |
| 2014             | 0                          | 63.900                           | 97.980                           | 0.000                      | 0.511                            | 0.784                            |

**Program:** Commercial Demand Response

**Program Start Date:** 2007

**Program Description**

Tampa Electric's Commercial Demand Response is a conservation and load management program intended to help alter the company's system load curve by reducing summer and winter demand peaks. The company will contract for a turn-key program that will induce commercial/industrial customers to reduce their demand for electricity in response to market signals. Reductions will be achieved through a mix of emergency backup generation, energy management systems, raising cooling set-points and turning off or dimming lights, signage, etc.

Tampa Electric will contract with a demand response vendor for 25 MW of load reduction. Vendor will market program to potential customers and secure participants. In addition, vendor will audit the customer's facility to identify equipment to be utilized in demand reduction, install automated controls and provide participant with load tracking software for the customer's use. Vendor will pay customers on a dollar per kW – month basis.

**Program Participation Standards**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. Participant must not be on any other Tampa Electric Load Control program.
3. Participants will sign an agreement with vendor to participate in the company's Demand Response program.
4. This is no charge to participate in the company's Demand Response Program.
5. Depending on existing customer metering, pulse initiated metering may need to be installed at the customer facility
6. Participant incentive will be earned monthly and be based on a kW per month load reduction availability.
7. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.



**Program Savings and Costs**

Per participant

Summer Demand: 500 kW

Winter Demand: 500 kW

Energy: 37,500 kWh

Costs:

Administrative cost: \$ 48,500.00

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: COMMERCIAL DEMAND RESPONSE

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>Level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 69,953                                 | 0  | 0   | 0.0%   | 0  |
| 2006 | 71,177                                 | 0  | 0   | 0.0%   | 0  |
| 2007 | 72,474                                 | 13,045   | 5   | 0.0%   | 5  |
| 2008 | 73,670                                 | 13,261   | 6   | 0.1%   | 11   |
| 2009 | 74,906                                 | 13,483   | 6   | 0.1%   | 17   |
| 2010 | 76,397                                 | 13,751   | 6   | 0.2%   | 23   |
| 2011 | 77,929                                 | 14,027   | 6   | 0.2%   | 29   |
| 2012 | 79,452                                 | 14,301   | 7   | 0.3%   | 36   |
| 2013 | 80,800                                 | 14,544   | 7   | 0.3%   | 43   |
| 2014 | 82,160                                 | 14,789   | 7   | 0.3%   | 50   |

PROGRAM NAME: COMMERCIAL DEMAND RESPONSE

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 37,500                     | 500.000                          | 500.000                          | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 37,500                     | 500.000                          | 500.000                          | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 37,500                     | 500.000                          | 500.000                          | 0.188                      | 2.500                            | 2.500                            |
| 2008         | 37,500                     | 500.000                          | 500.000                          | 0.413                      | 5.500                            | 5.500                            |
| 2009         | 37,500                     | 500.000                          | 500.000                          | 0.638                      | 8.500                            | 8.500                            |
| 2010         | 37,500                     | 500.000                          | 500.000                          | 0.863                      | 11.500                           | 11.500                           |
| 2011         | 37,500                     | 500.000                          | 500.000                          | 1.088                      | 14.500                           | 14.500                           |
| 2012         | 37,500                     | 500.000                          | 500.000                          | 1.350                      | 18.000                           | 18.000                           |
| 2013         | 37,500                     | 500.000                          | 500.000                          | 1.613                      | 21.500                           | 21.500                           |
| 2014         | 37,500                     | 500.000                          | 500.000                          | 1.875                      | 25.000                           | 25.000                           |

PROGRAM NAME: COMMERCIAL DEMAND RESPONSE

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 39,675                     | 532,500                          | 532,500                          | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 39,675                     | 532,500                          | 532,500                          | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 39,675                     | 532,500                          | 532,500                          | 0.198                      | 2.663                            | 2.663                            |
| 2008             | 39,675                     | 532,500                          | 532,500                          | 0.436                      | 5.858                            | 5.858                            |
| 2009             | 39,675                     | 532,500                          | 532,500                          | 0.674                      | 9.053                            | 9.053                            |
| 2010             | 39,675                     | 532,500                          | 532,500                          | 0.913                      | 12.248                           | 12.248                           |
| 2011             | 39,675                     | 532,500                          | 532,500                          | 1.151                      | 15.443                           | 15.443                           |
| 2012             | 39,675                     | 532,500                          | 532,500                          | 1.428                      | 19.170                           | 19.170                           |
| 2013             | 39,675                     | 532,500                          | 532,500                          | 1.706                      | 22.898                           | 22.898                           |
| 2014             | 39,675                     | 532,500                          | 532,500                          | 1.984                      | 26.625                           | 26.625                           |

**Program:** Commercial Cooling Program

All commercial customers on a firm rate within Tampa Electric's service area are eligible. This program is design to encourage commercial/industrial customers to invest in more efficient HVAC systems. This program includes both direct expansion air conditioners (DX) and package terminal air conditioners (PTAC).

**Direct Expansion Air Conditioners**

**Program Start Date:** July 2000

**Program Description**

This is a conservation measure that uses incentives for the installation of high efficiency cooling systems in commercial buildings. The program is aimed at reducing the growth of peak demand and energy by encouraging customers to replace worn out, inefficient cooling equipment with high efficiency equipment that exceeds minimum product manufacturing standards.

**Participation Standards**

1. Any new or existing commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. Minimum qualifying efficiency rating is as follows:  
  
Electric Unitary Air Conditioners (< 65,000 Btu/h) – EER 11.5  
Electric Unitary Air Conditioners (≥65,000 Btu/h and < 240,000 Btu/h) – EER 10.5  
Electric Unitary Air Conditioners (≥240,000 Btu/h and < 760,000 Btu/h) – EER 10.5
3. Customer/HVAC contractor must provide copies of invoices, an itemized inventory of equipment installed, and ARI certified efficiency data at standard rating conditions.
4. The range of sizes for commercial cooling to be eligible will be less than 760,000 Btu.
5. The HVAC contractor or customer submits an incentive request form to Tampa Electric. The form will be signed by the contractor or customer certifying that the equipment installed is in accordance with the program standards. The customer will sign the form verifying that the equipment was installed and the incentive recipient's name and mailing address are correct.

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APPENDIX B  
FILED: JUNE 15, 2007**

6. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of the participating customers. Forms not selected for field review will have an office verification to validate information.
7. No payment will be made until Tampa Electric verifies or reviews incentive requests.
8. The customer incentive is \$0.00250 per Btu (which represents approximately \$30.00 per ton).
9. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program Savings and Costs**

Based on historical program participation, a 13.4 ton (161,000 Btu) unit was used as a representative sample for purposes of estimating program savings and costs. HVAC system savings are as follows:

| <u>Type System</u> | <u>Winter Demand (kW)</u> | <u>Summer Demand (kW)</u> | <u>Annual Energy (kWh)</u> |
|--------------------|---------------------------|---------------------------|----------------------------|
| 161,000            | 0.00 kW/ton               | 1.83                      | 5,320                      |

**Costs:**

Incentive cost per participant: \$402.50  
 Administrative cost per participant: \$75.00

**Package Terminal Air Conditioning**

**Program Start Date:** 2007

**Program Description**

This is a conservation measure that uses incentives for the installation of high efficiency package terminal air conditioner (PTAC) cooling systems in commercial buildings. The program is aimed at reducing the growth of peak demand and energy by encouraging customers to replace worn out, inefficient cooling equipment with high efficiency equipment that exceeds minimum product manufacturing standards.

**Participation Standards**

1. Any new or existing commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. Minimum qualifying efficiency rating is 11.5 EER.
3. Customer/HVAC contractor must provide copies of invoices, an itemized inventory of equipment installed, and ARI certified efficiency data at standard rating conditions.
4. The eligible equipment size is 15,000 Btu or less.
5. The HVAC contractor or customer submits an incentive request form to Tampa Electric. The form will be signed by the contractor or customer certifying that the equipment installed is in accordance with the program standards. The customer will sign the form verifying that the equipment was installed and the incentive recipient's name and mailing address are correct.
6. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of the participating customers. Forms not selected for field review will have an office verification to validate information.
7. No payment will be made until Tampa Electric verifies or reviews incentive requests.
8. The customer incentive is \$0.00250 per Btu/h (which represents approximately \$30.00 per ton).
9. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program Savings and Costs**

An analysis of a 9,000 Btu/h unit was used as a representative sample for purposes of estimating program savings and costs. HVAC system savings are as follows:

| <u>Type System</u> | <u>Winter Demand (kW)</u> | <u>Summer Demand (kW)</u> | <u>Annual Energy (kWh)</u> |
|--------------------|---------------------------|---------------------------|----------------------------|
| 9,000 Btu/h        | 0.00 kW/ton               | 0.26                      | 744                        |

**Costs:**

|                                      |         |
|--------------------------------------|---------|
| Incentive cost per participant:      | \$22.50 |
| Administrative cost per participant: | \$20.00 |

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.



PROGRAM NAME: COMMERCIAL COOLING

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>Level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 69,953                                 | 69,953   | 61  | 0.1%   | 61   |
| 2006 | 71,177                                 | 71,177   | 72  | 0.2%   | 133  |
| 2007 | 72,474                                 | 72,474   | 40  | 0.2%   | 173  |
| 2008 | 73,670                                 | 73,670   | 38  | 0.3%   | 211  |
| 2009 | 74,906                                 | 74,906   | 36  | 0.3%   | 247  |
| 2010 | 76,397                                 | 76,397   | 34  | 0.4%   | 281  |
| 2011 | 77,929                                 | 77,929   | 32  | 0.4%   | 313  |
| 2012 | 79,452                                 | 79,452   | 30  | 0.4%   | 343  |
| 2013 | 80,800                                 | 80,800   | 28  | 0.5%   | 371  |
| 2014 | 82,160                                 | 82,160   | 23  | 0.5%   | 394  |

\* Previous participation levels not included.

PROGRAM NAME: COMMERCIAL COOLING

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 5,320                      | 0.000                            | 1.830                            | 0.325                      | 0.000                            | 0.112                            |
| 2006         | 5,320                      | 0.000                            | 1.830                            | 0.708                      | 0.000                            | 0.243                            |
| 2007         | 5,320                      | 0.000                            | 1.830                            | 0.920                      | 0.000                            | 0.317                            |
| 2008         | 5,320                      | 0.000                            | 1.830                            | 1.123                      | 0.000                            | 0.386                            |
| 2009         | 5,320                      | 0.000                            | 1.830                            | 1.314                      | 0.000                            | 0.452                            |
| 2010         | 5,320                      | 0.000                            | 1.830                            | 1.495                      | 0.000                            | 0.514                            |
| 2011         | 5,320                      | 0.000                            | 1.830                            | 1.665                      | 0.000                            | 0.573                            |
| 2012         | 5,320                      | 0.000                            | 1.830                            | 1.825                      | 0.000                            | 0.628                            |
| 2013         | 5,320                      | 0.000                            | 1.830                            | 1.974                      | 0.000                            | 0.679                            |
| 2014         | 5,320                      | 0.000                            | 1.830                            | 2.096                      | 0.000                            | 0.721                            |

PROGRAM NAME: COMMERCIAL COOLING

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 5,629                      | 0.000                            | 1.949                            | 0.343                      | 0.000                            | 0.119                            |
| 2006             | 5,629                      | 0.000                            | 1.949                            | 0.749                      | 0.000                            | 0.259                            |
| 2007             | 5,629                      | 0.000                            | 1.949                            | 0.974                      | 0.000                            | 0.337                            |
| 2008             | 5,629                      | 0.000                            | 1.949                            | 1.188                      | 0.000                            | 0.411                            |
| 2009             | 5,629                      | 0.000                            | 1.949                            | 1.390                      | 0.000                            | 0.481                            |
| 2010             | 5,629                      | 0.000                            | 1.949                            | 1.582                      | 0.000                            | 0.548                            |
| 2011             | 5,629                      | 0.000                            | 1.949                            | 1.762                      | 0.000                            | 0.610                            |
| 2012             | 5,629                      | 0.000                            | 1.949                            | 1.931                      | 0.000                            | 0.668                            |
| 2013             | 5,629                      | 0.000                            | 1.949                            | 2.088                      | 0.000                            | 0.723                            |
| 2014             | 5,629                      | 0.000                            | 1.949                            | 2.218                      | 0.000                            | 0.768                            |

PROGRAM NAME: COMMERCIAL PTAC COOLING

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 69,953                    | 0                                  | 0                                     | 0.0%                           | 0  |
| 2006 | 71,177                    | 0                                  | 0                                     | 0.0%                           | 0  |
| 2007 | 72,474                    | 5,798                              | 75                                    | 1.3%                           | 75   |
| 2008 | 73,670                    | 5,894                              | 150                                   | 3.8%                           | 225  |
| 2009 | 74,906                    | 5,992                              | 175                                   | 6.7%                           | 400  |
| 2010 | 76,397                    | 6,112                              | 175                                   | 9.4%                           | 575  |
| 2011 | 77,929                    | 6,234                              | 175                                   | 12.0%                          | 750  |
| 2012 | 79,452                    | 6,356                              | 175                                   | 14.6%                          | 925  |
| 2013 | 80,800                    | 6,464                              | 175                                   | 17.0%                          | 1,100                                      |
| 2014 | 82,160                    | 6,573                              | 175                                   | 19.4%                          | 1,275                                      |

PROGRAM NAME: COMMERCIAL PTAC COOLING

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 744                        | 0.000                            | 0.260                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 744                        | 0.000                            | 0.260                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 744                        | 0.000                            | 0.260                            | 0.056                      | 0.000                            | 0.020                            |
| 2008         | 744                        | 0.000                            | 0.260                            | 0.167                      | 0.000                            | 0.059                            |
| 2009         | 744                        | 0.000                            | 0.260                            | 0.298                      | 0.000                            | 0.104                            |
| 2010         | 744                        | 0.000                            | 0.260                            | 0.428                      | 0.000                            | 0.150                            |
| 2011         | 744                        | 0.000                            | 0.260                            | 0.558                      | 0.000                            | 0.195                            |
| 2012         | 744                        | 0.000                            | 0.260                            | 0.688                      | 0.000                            | 0.241                            |
| 2013         | 744                        | 0.000                            | 0.260                            | 0.818                      | 0.000                            | 0.286                            |
| 2014         | 744                        | 0.000                            | 0.260                            | 0.949                      | 0.000                            | 0.332                            |

PROGRAM NAME: COMMERCIAL PTAC COOLING

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 787                        | 0.000                            | 0.277                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 787                        | 0.000                            | 0.277                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 787                        | 0.000                            | 0.277                            | 0.059                      | 0.000                            | 0.021                            |
| 2008             | 787                        | 0.000                            | 0.277                            | 0.177                      | 0.000                            | 0.062                            |
| 2009             | 787                        | 0.000                            | 0.277                            | 0.315                      | 0.000                            | 0.111                            |
| 2010             | 787                        | 0.000                            | 0.277                            | 0.453                      | 0.000                            | 0.159                            |
| 2011             | 787                        | 0.000                            | 0.277                            | 0.590                      | 0.000                            | 0.208                            |
| 2012             | 787                        | 0.000                            | 0.277                            | 0.728                      | 0.000                            | 0.256                            |
| 2013             | 787                        | 0.000                            | 0.277                            | 0.866                      | 0.000                            | 0.305                            |
| 2014             | 787                        | 0.000                            | 0.277                            | 1.004                      | 0.000                            | 0.353                            |

**Program:** Commercial Chiller Program

**Program Start Date:** 2007

**Program Description**

This is a commercial conservation program that uses incentives for the installation of high efficiency electric water-cooled chillers and electric air-cooled chillers in commercial buildings. The program is aimed at reducing the growth of peak demand and energy by encouraging customers to replace worn out, inefficient cooling equipment with high efficiency equipment that exceeds minimum product manufacturing standards.

**Program Participation Standards**

1. Any new or existing commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. Contractor/customer is to provide cooling and heating load calculations determined by ASHRAE or a Manual N.
3. Contractor/customer must provide copies of invoices, itemized inventory of equipment installed and efficiency certification data.
4. The maximum incentive will be \$100.00 per kW reduction over baseline.
5. Minimum qualification for chillers is as follows;

**Water-Cooled Centrifugal Chillers**

| Under 150 Tons       | 150 – 300 Tons       | Over 300 Tons        |
|----------------------|----------------------|----------------------|
| .65 kW/ton (5.4 COP) | .60 kW/ton (5.9 COP) | .56 kW/ton (6.3 COP) |

**Water-Cooled Scroll or Screw Chillers**

| Under 150 Tons       | 150 – 300 Tons       | Over 300 Tons        |
|----------------------|----------------------|----------------------|
| .72 kW/ton (4.9 COP) | .66 kW/ton (5.3 COP) | .59 kW/ton (5.9 COP) |

**Air-Cooled Electric Chillers (any size)**

|                       |
|-----------------------|
| 1.17 kW/ton (3.0 COP) |
|-----------------------|

6. The HVAC contractor or customer submits an incentive request form to Tampa Electric. The form will be signed by the contractor or customer certifying that the equipment installed is in accordance with the program standards. The customer will sign the form verifying that the equipment was installed and the incentive recipient's name and mailing address are correct.
7. Tampa Electric will perform field verifications on all installations.
8. No payment will be made until Tampa Electric verifies or reviews incentive requests.
9. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program Savings and Costs**

A representative sample of chiller projects in Tampa Electric's service area was utilized to calculate cooling replacement savings. Based on this information, a 1,167 ton chiller was used for purposes of estimating program savings and costs. HVAC system savings are as follows:

| <u>Type System</u> | <u>Winter Demand (kW)</u> | <u>Summer Demand (kW)</u> | <u>Annual Energy (kWh)</u> |
|--------------------|---------------------------|---------------------------|----------------------------|
| 1,167 ton chiller  | 29.75                     | 101.25                    | 232,020                    |

Costs:

|                                      |             |
|--------------------------------------|-------------|
| Incentive cost per participant:      | \$10,125.00 |
| Administrative cost per participant: | \$100.00    |

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.



PROGRAM NAME: COMMERCIAL CHILLER

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 69,953                    | 0                                  | 0                                     | 0.0%                           | 0  |
| 2006 | 71,177                    | 0                                  | 0                                     | 0.0%                           | 0  |
| 2007 | 72,474                    | 3,624                              | 1                                     | 0.0%                           | 1  |
| 2008 | 73,670                    | 3,683                              | 2                                     | 0.1%                           | 3  |
| 2009 | 74,906                    | 3,745                              | 3                                     | 0.2%                           | 6  |
| 2010 | 76,397                    | 3,820                              | 4                                     | 0.3%                           | 10   |
| 2011 | 77,929                    | 3,896                              | 5                                     | 0.4%                           | 15   |
| 2012 | 79,452                    | 3,973                              | 5                                     | 0.5%                           | 20   |
| 2013 | 80,800                    | 4,040                              | 5                                     | 0.6%                           | 25   |
| 2014 | 82,160                    | 4,108                              | 5                                     | 0.7%                           | 30   |

PROGRAM NAME: COMMERCIAL CHILLER

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 232,020                    | 29.750                           | 101.250                          | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 232,020                    | 29.750                           | 101.250                          | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 232,020                    | 29.750                           | 101.250                          | 0.232                      | 0.030                            | 0.101                            |
| 2008         | 232,020                    | 29.750                           | 101.250                          | 0.696                      | 0.089                            | 0.304                            |
| 2009         | 232,020                    | 29.750                           | 101.250                          | 1.392                      | 0.179                            | 0.608                            |
| 2010         | 232,020                    | 29.750                           | 101.250                          | 2.320                      | 0.298                            | 1.013                            |
| 2011         | 232,020                    | 29.750                           | 101.250                          | 3.480                      | 0.446                            | 1.519                            |
| 2012         | 232,020                    | 29.750                           | 101.250                          | 4.640                      | 0.595                            | 2.025                            |
| 2013         | 232,020                    | 29.750                           | 101.250                          | 5.801                      | 0.744                            | 2.531                            |
| 2014         | 232,020                    | 29.750                           | 101.250                          | 6.961                      | 0.893                            | 3.038                            |

PROGRAM NAME: COMMERCIAL CHILLER

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 245,477                    | 31.684                           | 107.831                          | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 245,477                    | 31.684                           | 107.831                          | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 245,477                    | 31.684                           | 107.831                          | 0.245                      | 0.032                            | 0.108                            |
| 2008             | 245,477                    | 31.684                           | 107.831                          | 0.736                      | 0.095                            | 0.323                            |
| 2009             | 245,477                    | 31.684                           | 107.831                          | 1.473                      | 0.190                            | 0.647                            |
| 2010             | 245,477                    | 31.684                           | 107.831                          | 2.455                      | 0.317                            | 1.078                            |
| 2011             | 245,477                    | 31.684                           | 107.831                          | 3.682                      | 0.475                            | 1.617                            |
| 2012             | 245,477                    | 31.684                           | 107.831                          | 4.910                      | 0.634                            | 2.157                            |
| 2013             | 245,477                    | 31.684                           | 107.831                          | 6.137                      | 0.792                            | 2.696                            |
| 2014             | 245,477                    | 31.684                           | 107.831                          | 7.364                      | 0.951                            | 3.235                            |

**Program:** Commercial Lighting Program

**Program Start Date:** January 1991

**Program Description**

This program is design to encourage commercial/industrial customers to invest in more efficient lighting systems. This program includes standards for lighting retrofit projects in both conditioned spaces and non-conditioned spaces.

**Conditioned Space Commercial Lighting**

This is a conservation measure for existing commercial/industrial facilities to encourage investment in more efficient fluorescent lighting technology within conditioned space. Specifically, this program is designed to: 1) affect a significant number of eligible customers, 2) recognize the most probable lighting investment opportunities, and 3) contribute toward weather-sensitive peak demand reduction.

**Standards**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. A minimum of one kW in lighting reduction must be achieved.
3. Reductions in lighting energy caused only by fixture/lamp removal, operational changes, or by "add-on" energy saving devices are not eligible.
4. Retrofit upgrades shall be permanent installations. Due to the lack of permanency, lamp replacements only do not qualify. Delamping installations will require that reflectors be incorporated unless a high output ballast is used in the installation. Delamping/reflector installations will require the removal of spare ballast and lampholders.
5. Only dedicated ballast and lamp systems will be eligible for incentive (i.e., ballast will be designed to operate one specific type and wattage lamp). Ballasts designed to operate multiple wattage lamp types are not eligible (i.e., T-8 lamp and ballast, T-10 lamps and ballast, etc., must be a system where the ballast will only operate the specific lamp installed at time of retrofit).
6. Compact fluorescent lamp (CFL) fixtures are eligible if they are permanent and locking.

7. The customer submits an incentive request form to Tampa Electric with invoice(s) of lighting system purchase(s).
8. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of the participating customers. Forms not selected for field review will have an office verification to validate information.
10. No payment will be made until Tampa Electric verifies or validates incentive certificates.
11. Customer incentive is \$0.15 per watt reduction for replacing current lighting system with more efficient lighting system within conditioned space.
12. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

#### **Program Savings and Costs**

Based on historical data, typical savings per customer is 40.82 kW and 14.16 kW for summer and winter, respectively, and 176,336, kWh per year energy savings. These calculated values include the effects of the lighting reduction on the space cooling and heating equipment.

The incentive per customer based on 800 fixtures and \$0.15 per watt is \$6,123.00 for replacing a standard fluorescent lighting system with a more efficient fluorescent lighting system. Administrative costs are \$358.00 per customer.

#### **Program Monitoring and Evaluation**

Data necessary to substantiate the kW and kWh savings as well as the demand coincidence will be contained on the customer's incentive analysis worksheet that accompanies the incentive application. Sampling with data loggers to confirm operating hours and kWh estimates may be used.

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

**Un-Conditioned Space Commercial Lighting**

This is a conservation measure for existing commercial/industrial facilities to encourage investment in more efficient lighting technology within non-conditioned space. Specifically, this program is designed to: 1) affect a significant number of eligible customers; 2) recognize the most probable lighting investment opportunities; and 3) contribute toward weather-sensitive peak demand reduction.

**Participation Standards**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. A minimum of 1kW in lighting reduction must be achieved.
3. Reductions in lighting energy caused only by fixture/lamp removal, operational changes, or by "add-on" energy saving devices are not eligible.
4. Retrofit upgrades shall be permanent installations. Due to the lack of permanency, lamp replacements only do not qualify. Delamping installations will require that reflectors be incorporated unless a high output ballast is used in the installation. Delamping/reflector installations will require the removal of spare ballast and lamp-holders.
5. Dedicated ballast and lamp systems will be eligible for incentive (i.e., ballast will be designed to operate one specific type and wattage lamp). Ballasts designed to operate multiple wattage lamp types are not eligible (i.e., T-8 lamp and ballast, T-10 lamps and ballast, etc., must be a system where the ballast will only operate the specific lamp installed at time of retrofit).
6. CFL fixtures are eligible if they are permanent and locking.
7. The customer submits an incentive request form to Tampa Electric with invoice(s) of lighting system purchase(s).
8. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of the participating customers. Forms not selected for field review will have an office verification to validate information.
9. No payment will be made until Tampa Electric verifies or validates incentive certificates.

10. Customer incentive is \$0.15 per watt reduction for replacing current lighting system with more efficient lighting system within non-conditioned space.
11. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

#### **Program Savings and Costs**

Based on historical data, typical summer, winter demand and annual energy savings per customer is 46.95 kW and 282,380 kWh respectively. Energy savings is based on an average of 312 fixtures. Administrative costs are \$250.00 per customer.

Incentive costs per customer based on 312 fixtures and \$0.15 per watt are \$7,042.50 for replacing existing lighting system with a more efficient lighting system.

#### **Program Monitoring and Evaluation**

Data necessary to substantiate the kW/kWh savings and demand coincidence will be contained on the customer's incentive analysis worksheet that accompanies the incentive application. Sampling with data loggers to confirm operating hours and kWh estimates may be used.

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME:      CONDITIONED SPACE COMMERCIAL LIGHTING

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 69,953                    | 69,953                             | 29                                    | 0.0%                           | 29   |
| 2006 | 71,177                    | 71,177                             | 20                                    | 0.1%                           | 49   |
| 2007 | 72,474                    | 72,474                             | 15                                    | 0.1%                           | 64   |
| 2008 | 73,670                    | 73,670                             | 14                                    | 0.1%                           | 78   |
| 2009 | 74,906                    | 74,906                             | 13                                    | 0.1%                           | 91   |
| 2010 | 76,397                    | 76,397                             | 12                                    | 0.1%                           | 103  |
| 2011 | 77,929                    | 77,929                             | 11                                    | 0.1%                           | 114  |
| 2012 | 79,452                    | 79,452                             | 10                                    | 0.2%                           | 124  |
| 2013 | 80,800                    | 80,800                             | 7                                     | 0.2%                           | 131  |
| 2014 | 82,160                    | 82,160                             | 4                                     | 0.2%                           | 135  |

\* Previous participation levels not included.



PROGRAM NAME:    CONDITIONED SPACE COMMERCIAL LIGHTING

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 176,336                    | 14.160                           | 40.820                           | 5.114                      | 0.411                            | 1.184                            |
| 2006         | 176,336                    | 14.160                           | 40.820                           | 8.640                      | 0.694                            | 2.000                            |
| 2007         | 176,336                    | 14.160                           | 40.820                           | 11.286                     | 0.906                            | 2.612                            |
| 2008         | 176,336                    | 14.160                           | 40.820                           | 13.754                     | 1.104                            | 3.184                            |
| 2009         | 176,336                    | 14.160                           | 40.820                           | 16.047                     | 1.289                            | 3.715                            |
| 2010         | 176,336                    | 14.160                           | 40.820                           | 18.163                     | 1.458                            | 4.204                            |
| 2011         | 176,336                    | 14.160                           | 40.820                           | 20.102                     | 1.614                            | 4.653                            |
| 2012         | 176,336                    | 14.160                           | 40.820                           | 21.866                     | 1.756                            | 5.062                            |
| 2013         | 176,336                    | 14.160                           | 40.820                           | 23.100                     | 1.855                            | 5.347                            |
| 2014         | 176,336                    | 14.160                           | 40.820                           | 23.805                     | 1.912                            | 5.511                            |

PROGRAM NAME:    CONDITIONED SPACE COMMERCIAL LIGHTING

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 186,563                    | 15.080                           | 43.473                           | 5.410                      | 0.437                            | 1.261                            |
| 2006             | 186,563                    | 15.080                           | 43.473                           | 9.142                      | 0.739                            | 2.130                            |
| 2007             | 186,563                    | 15.080                           | 43.473                           | 11.940                     | 0.965                            | 2.782                            |
| 2008             | 186,563                    | 15.080                           | 43.473                           | 14.552                     | 1.176                            | 3.391                            |
| 2009             | 186,563                    | 15.080                           | 43.473                           | 16.977                     | 1.372                            | 3.956                            |
| 2010             | 186,563                    | 15.080                           | 43.473                           | 19.216                     | 1.553                            | 4.478                            |
| 2011             | 186,563                    | 15.080                           | 43.473                           | 21.268                     | 1.719                            | 4.956                            |
| 2012             | 186,563                    | 15.080                           | 43.473                           | 23.134                     | 1.870                            | 5.391                            |
| 2013             | 186,563                    | 15.080                           | 43.473                           | 24.440                     | 1.976                            | 5.695                            |
| 2014             | 186,563                    | 15.080                           | 43.473                           | 25.186                     | 2.036                            | 5.869                            |

PROGRAM NAME: UNCONDITIONED SPACE COMMERCIAL LIGHTING

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>Level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 69,953                                 | 0  | 0   | 0.0%   | 0  |
| 2006 | 71,177                                 | 0  | 0   | 0.0%   | 0  |
| 2007 | 72,474                                 | 5,436  | 1   | 0.0%   | 1  |
| 2008 | 73,670                                 | 5,525  | 2   | 0.1%   | 3  |
| 2009 | 74,906                                 | 5,618  | 3   | 0.1%   | 6  |
| 2010 | 76,397                                 | 5,730  | 4   | 0.2%   | 10   |
| 2011 | 77,929                                 | 5,845  | 4   | 0.2%   | 14   |
| 2012 | 79,452                                 | 5,959  | 4   | 0.3%   | 18   |
| 2013 | 80,800                                 | 6,060  | 4   | 0.4%   | 22   |
| 2014 | 82,160                                 | 6,162  | 4   | 0.4%   | 26   |

PROGRAM NAME: UNCONDITIONED SPACE COMMERCIAL LIGHTING

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 282,380                    | 46.950                           | 46.950                           | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 282,380                    | 46.950                           | 46.950                           | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 282,380                    | 46.950                           | 46.950                           | 0.282                      | 0.047                            | 0.047                            |
| 2008         | 282,380                    | 46.950                           | 46.950                           | 0.847                      | 0.141                            | 0.141                            |
| 2009         | 282,380                    | 46.950                           | 46.950                           | 1.694                      | 0.282                            | 0.282                            |
| 2010         | 282,380                    | 46.950                           | 46.950                           | 2.824                      | 0.470                            | 0.470                            |
| 2011         | 282,380                    | 46.950                           | 46.950                           | 3.953                      | 0.657                            | 0.657                            |
| 2012         | 282,380                    | 46.950                           | 46.950                           | 5.083                      | 0.845                            | 0.845                            |
| 2013         | 282,380                    | 46.950                           | 46.950                           | 6.212                      | 1.033                            | 1.033                            |
| 2014         | 282,380                    | 46.950                           | 46.950                           | 7.342                      | 1.221                            | 1.221                            |

PROGRAM NAME: UNCONDITIONED SPACE COMMERCIAL LIGHTING

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 298,758                    | 50.002                           | 50.002                           | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 298,758                    | 50.002                           | 50.002                           | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 298,758                    | 50.002                           | 50.002                           | 0.299                      | 0.050                            | 0.050                            |
| 2008             | 298,758                    | 50.002                           | 50.002                           | 0.896                      | 0.150                            | 0.150                            |
| 2009             | 298,758                    | 50.002                           | 50.002                           | 1.793                      | 0.300                            | 0.300                            |
| 2010             | 298,758                    | 50.002                           | 50.002                           | 2.988                      | 0.500                            | 0.500                            |
| 2011             | 298,758                    | 50.002                           | 50.002                           | 4.183                      | 0.700                            | 0.700                            |
| 2012             | 298,758                    | 50.002                           | 50.002                           | 5.378                      | 0.900                            | 0.900                            |
| 2013             | 298,758                    | 50.002                           | 50.002                           | 6.573                      | 1.100                            | 1.100                            |
| 2014             | 298,758                    | 50.002                           | 50.002                           | 7.768                      | 1.300                            | 1.300                            |

**Program:** Commercial Lighting Occupancy Sensor Program

**Program Start Date:** 2007

**Program Description**

This program is aimed at reducing the growth of peak demand and energy by providing an incentive to encourage commercial/industrial customers to install occupancy sensors in any area where indoor lights would be used on peak.

**Program Participation Standards**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. A minimum of one kW in lighting reduction must be achieved.
3. All occupancy installations shall be permanent.
4. The customer/contractor submits a rebate request form to Tampa Electric with invoice(s), and wiring diagrams.
5. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of the participating customers. Forms not selected for field review will have an office verification to validate information.
6. No payment will be made until Tampa Electric verifies or validates incentive certificates.
11. The rebate is \$75 per kW of lighting load controlled.
12. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program Savings and Costs**

Based on industry data and energy analysis, savings per customer is estimated at 0.68 kW summer and 0.51 kW for winter, respectively, and 10,576 kWh per year energy savings. These calculated values include the effects of the lighting reduction on the space cooling and heating equipment.

**Costs:**

|                                      |         |
|--------------------------------------|---------|
| Incentive cost per participant:      | \$51.00 |
| Administrative cost per participant: | \$50.00 |

**Program Monitoring and Evaluation**

Data necessary to substantiate the kW and kWh savings as well as the demand coincidence will be contained on the customer's incentive analysis worksheet that accompanies the incentive application. Sampling with data loggers to confirm operating hours and kWh estimates may be used.

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: COMMERCIAL LIGHTING OCCUPANCY SENSOR

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>Level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 69,953                                 | 69,953   | 0   | 0.0%   | 0  |
| 2006 | 71,177                                 | 71,177   | 0   | 0.0%   | 0  |
| 2007 | 72,474                                 | 72,474   | 5   | 0.0%   | 5  |
| 2008 | 73,670                                 | 73,670   | 10  | 0.0%   | 15   |
| 2009 | 74,906                                 | 74,906   | 15  | 0.0%   | 30   |
| 2010 | 76,397                                 | 76,397   | 20  | 0.1%   | 50   |
| 2011 | 77,929                                 | 77,929   | 20  | 0.1%   | 70   |
| 2012 | 79,452                                 | 79,452   | 25  | 0.1%   | 95   |
| 2013 | 80,800                                 | 80,800   | 25  | 0.1%   | 120  |
| 2014 | 82,160                                 | 82,160   | 20  | 0.2%   | 140  |



PROGRAM NAME: COMMERCIAL LIGHTING OCCUPANCY SENSOR

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 10,576                     | 0.510                            | 0.680                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 10,576                     | 0.510                            | 0.680                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 10,576                     | 0.510                            | 0.680                            | 0.053                      | 0.003                            | 0.003                            |
| 2008         | 10,576                     | 0.510                            | 0.680                            | 0.159                      | 0.008                            | 0.010                            |
| 2009         | 10,576                     | 0.510                            | 0.680                            | 0.317                      | 0.015                            | 0.020                            |
| 2010         | 10,576                     | 0.510                            | 0.680                            | 0.529                      | 0.026                            | 0.034                            |
| 2011         | 10,576                     | 0.510                            | 0.680                            | 0.740                      | 0.036                            | 0.048                            |
| 2012         | 10,576                     | 0.510                            | 0.680                            | 1.005                      | 0.048                            | 0.065                            |
| 2013         | 10,576                     | 0.510                            | 0.680                            | 1.269                      | 0.061                            | 0.082                            |
| 2014         | 10,576                     | 0.510                            | 0.680                            | 1.481                      | 0.071                            | 0.095                            |

PROGRAM NAME: COMMERCIAL LIGHTING OCCUPANCY SENSOR

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 11,189                     | 0.543                            | 0.724                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 11,189                     | 0.543                            | 0.724                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 11,189                     | 0.543                            | 0.724                            | 0.056                      | 0.003                            | 0.004                            |
| 2008             | 11,189                     | 0.543                            | 0.724                            | 0.168                      | 0.008                            | 0.011                            |
| 2009             | 11,189                     | 0.543                            | 0.724                            | 0.336                      | 0.016                            | 0.022                            |
| 2010             | 11,189                     | 0.543                            | 0.724                            | 0.559                      | 0.027                            | 0.036                            |
| 2011             | 11,189                     | 0.543                            | 0.724                            | 0.783                      | 0.038                            | 0.051                            |
| 2012             | 11,189                     | 0.543                            | 0.724                            | 1.063                      | 0.052                            | 0.069                            |
| 2013             | 11,189                     | 0.543                            | 0.724                            | 1.343                      | 0.065                            | 0.087                            |
| 2014             | 11,189                     | 0.543                            | 0.724                            | 1.567                      | 0.076                            | 0.101                            |

**Program:** Commercial Standby Generator

**Program Start Date:** January 1991

**Program Description**

This program is designed to utilize the emergency generation capacity of commercial/industrial facilities in order to reduce weather sensitive peak demand. Tampa Electric provides the participating customers a thirty minute notice that their generation will be required. This allows customers time to start generators and arrange for orderly transfer of load. Tampa Electric meters and issues monthly credits for that portion of the generator's output that could serve normal building load after the notification time. Normal building load is defined as load (type, amount, and time duration) that would have been served by Tampa Electric if the emergency generator did not operate. Under no circumstances will the generator deliver power to Tampa Electric's grid.

**Program Participation Standards**

1. Applicable to any commercial/industrial customer in Tampa Electric's service area on a firm rate schedule with an on-site emergency generator and who signs a tariff agreement for the Provision of Standby Generator Transfer Service.

The normal building load (standby) that is served (or can be served) by the generator must meet the conditions listed below.

- Minimum of 25 kW demand
  - Minimum of 50 percent annual load factor during Tampa Electric's peak hours
  - The generator installation and operation comply with all applicable regulations
2. Customers are responsible for wiring changes and controls related to their generator(s).
  3. The monthly incentive is \$3.50 per kW for average transferable demand of a customer's load to a standby generator(s).
  4. The initial credit will be determined by Tampa Electric in the field at the customer's site by transferring the customer's normal load to the standby generator(s).

5. The customer response time for load transfer to the generator(s) is a maximum of 30 minutes from time of notification.
6. Winter is November through March. Summer is April through October.
7. The company's prime use periods for normal control are as follows:  
Winter - 6:00 A.M. to 11:00 A.M. and 6:00 P.M. to 10:00 P.M. Summer - 2:00 P.M. to 10:00 P.M.
8. Tampa Electric will perform field verifications on all installations.
9. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

#### **Program Savings and Costs**

Demand reduction for this program is achieved through the orderly load transfer to the customer's generator(s). Tampa Electric provides notification equipment and, when necessary, special metering to identify the transferred load. Demand and costs estimates are based on current customer averages. Energy is based on the anticipated generator operation per year.

#### **Demand:**

The average demand reduction is as follows:

Summer: 472 kW per customer

Winter: 430 kW per customer

Energy: 46,780 kWh per customer

#### **Costs:**

Costs are based on present per customer averages.

|                                |          |
|--------------------------------|----------|
| Administration & Installation: | \$6,304  |
| Incentives:                    | \$19,089 |
| Maintenance:                   | \$743    |

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: STANDBY GENERATOR

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 69,953                    | 289                                | 1                                     | 0.3%                           | 1  |
| 2006 | 71,177                    | 295                                | 0                                     | 0.3%                           | 1  |
| 2007 | 72,474                    | 300                                | 1                                     | 0.7%                           | 2  |
| 2008 | 73,670                    | 305                                | 1                                     | 1.0%                           | 3  |
| 2009 | 74,906                    | 310                                | 1                                     | 1.3%                           | 4  |
| 2010 | 76,397                    | 316                                | 1                                     | 1.6%                           | 5  |
| 2011 | 77,929                    | 322                                | 1                                     | 1.9%                           | 6  |
| 2012 | 79,452                    | 328                                | 1                                     | 2.1%                           | 7  |
| 2013 | 80,800                    | 334                                | 1                                     | 2.4%                           | 8  |
| 2014 | 82,160                    | 339                                | 1                                     | 2.7%                           | 9  |

\* Previous participation levels not included.

PROGRAM NAME: STANDBY GENERATOR

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 46,780                     | 430.000                          | 472.000                          | 0.047                      | 0.430                            | 0.472                            |
| 2006         | 46,780                     | 430.000                          | 472.000                          | 0.047                      | 0.430                            | 0.472                            |
| 2007         | 46,780                     | 430.000                          | 472.000                          | 0.094                      | 0.860                            | 0.944                            |
| 2008         | 46,780                     | 430.000                          | 472.000                          | 0.140                      | 1.290                            | 1.416                            |
| 2009         | 46,780                     | 430.000                          | 472.000                          | 0.187                      | 1.720                            | 1.888                            |
| 2010         | 46,780                     | 430.000                          | 472.000                          | 0.234                      | 2.150                            | 2.360                            |
| 2011         | 46,780                     | 430.000                          | 472.000                          | 0.281                      | 2.580                            | 2.832                            |
| 2012         | 46,780                     | 430.000                          | 472.000                          | 0.327                      | 3.010                            | 3.304                            |
| 2013         | 46,780                     | 430.000                          | 472.000                          | 0.374                      | 3.440                            | 3.776                            |
| 2014         | 46,780                     | 430.000                          | 472.000                          | 0.421                      | 3.870                            | 4.248                            |

PROGRAM NAME: STANDBY GENERATOR

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 49,493                     | 457.950                          | 502.680                          | 0.049                      | 0.458                            | 0.503                            |
| 2006             | 49,493                     | 457.950                          | 502.680                          | 0.049                      | 0.458                            | 0.503                            |
| 2007             | 49,493                     | 457.950                          | 502.680                          | 0.099                      | 0.916                            | 1.005                            |
| 2008             | 49,493                     | 457.950                          | 502.680                          | 0.148                      | 1.374                            | 1.508                            |
| 2009             | 49,493                     | 457.950                          | 502.680                          | 0.198                      | 1.832                            | 2.011                            |
| 2010             | 49,493                     | 457.950                          | 502.680                          | 0.247                      | 2.290                            | 2.513                            |
| 2011             | 49,493                     | 457.950                          | 502.680                          | 0.297                      | 2.748                            | 3.016                            |
| 2012             | 49,493                     | 457.950                          | 502.680                          | 0.346                      | 3.206                            | 3.519                            |
| 2013             | 49,493                     | 457.950                          | 502.680                          | 0.396                      | 3.664                            | 4.021                            |
| 2014             | 49,493                     | 457.950                          | 502.680                          | 0.445                      | 4.122                            | 4.524                            |



**Program:** Commercial Refrigeration (Anti-Condensate)

**Program Start Date:** TBD

**Program Description:**

This program is designed to reduce the peak demand and energy consumption for commercial/industrial customers by increasing the use of efficient refrigeration controls and equipment. Tampa Electric will provide incentives to customers who install qualifying controls and equipment that reduce electric strip heater usage in refrigeration equipment.

**Program Participation Standard:**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. The program applies to customers who are retrofitting/replacing existing refrigeration equipment or installing new refrigeration equipment.
3. Refrigeration controls and equipment must be designed and operated to reduce Tampa Electric's peak system demand.
4. The customer or designee will supply Tampa Electric with equipment specification information. Tampa Electric will use electric strip kW display to verify peak demand reduction.
5. The customer will submit an anti-condensate heat control incentive form to Tampa Electric. The form will be signed by the contractor certifying that the equipment installed meets manufacturer's specifications. The customer will sign the form verifying that the equipment was installed and the incentive recipient's name and mailing address are correct.
6. All contractors/customers installing equipment must be a licensed general contractor, mechanical contractor, air-conditioning contractor, or plumbing contractor.

7. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of the participating customers. Forms not selected for field review will have an office verification to validate information.
8. No incentive payment shall be made by Tampa Electric until:
  - Completed anti-condensate heat control incentive form is signed and dated by the customer indicating their acceptance of the installation.
  - A copy of the equipment invoice, contractor's invoice, operation schedule, or customer purchase order is provided.
  - A copy of the manufacturer's performance specification is submitted for Anti-Condensate Heat Control.
9. Incentive amounts will be based on \$135.00 per kW.
10. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

#### **Program Savings and Costs**

Demand and energy savings were determined from a research project completed by Tampa Electric. Estimated savings are as follows:

Summer Demand: 0.92 kW

Winter Demand: 0.92 kW

Energy: 16,344 kWh

Costs:

|                                      |          |
|--------------------------------------|----------|
| Incentive cost per participant:      | \$124.07 |
| Administrative cost per participant: | \$ 35.00 |

#### **Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: COMMERCIAL REFRIGERATION ANTI-CONDENSATE

| Year | (a)<br>Total<br>Number of<br>Customers | (b)<br>Total<br>Number of<br>Eligible<br>Customers | (c)<br>Annual<br>Number of<br>Program<br>Participants | (d)<br>Cumulative<br>Penetration<br>Level<br>% | (e)<br>Cumulative<br>Number of<br>Program<br>Participants* |
|------|--|--|---|--|--|
| 2005 | 69,953                                 | 0  | 0   | 0.0%   | 0  |
| 2006 | 71,177                                 | 0  | 0   | 0.0%   | 0  |
| 2007 | 72,474                                 | 1,812  | 1   | 0.1%   | 1  |
| 2008 | 73,670                                 | 1,842  | 2   | 0.2%   | 3  |
| 2009 | 74,906                                 | 1,873  | 4   | 0.4%   | 7  |
| 2010 | 76,397                                 | 1,910  | 5   | 0.6%   | 12   |
| 2011 | 77,929                                 | 1,948  | 5   | 0.9%   | 17   |
| 2012 | 79,452                                 | 1,986  | 5   | 1.1%   | 22   |
| 2013 | 80,800                                 | 2,020  | 5   | 1.3%   | 27   |
| 2014 | 82,160                                 | 2,054  | 5   | 1.6%   | 32   |

PROGRAM NAME: COMMERCIAL REFRIGERATION ANTI-CONDENSATE

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 16,344                     | 0.920                            | 0.920                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 16,344                     | 0.920                            | 0.920                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 16,344                     | 0.920                            | 0.920                            | 0.016                      | 0.001                            | 0.001                            |
| 2008         | 16,344                     | 0.920                            | 0.920                            | 0.049                      | 0.003                            | 0.003                            |
| 2009         | 16,344                     | 0.920                            | 0.920                            | 0.114                      | 0.006                            | 0.006                            |
| 2010         | 16,344                     | 0.920                            | 0.920                            | 0.196                      | 0.011                            | 0.011                            |
| 2011         | 16,344                     | 0.920                            | 0.920                            | 0.278                      | 0.016                            | 0.016                            |
| 2012         | 16,344                     | 0.920                            | 0.920                            | 0.360                      | 0.020                            | 0.020                            |
| 2013         | 16,344                     | 0.920                            | 0.920                            | 0.441                      | 0.025                            | 0.025                            |
| 2014         | 16,344                     | 0.920                            | 0.920                            | 0.523                      | 0.029                            | 0.029                            |

PROGRAM NAME: COMMERCIAL REFRIGERATION ANTI-CONDENSATE

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 17,292                     | 0.980                            | 0.980                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 17,292                     | 0.980                            | 0.980                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 17,292                     | 0.980                            | 0.980                            | 0.017                      | 0.001                            | 0.001                            |
| 2008             | 17,292                     | 0.980                            | 0.980                            | 0.052                      | 0.003                            | 0.003                            |
| 2009             | 17,292                     | 0.980                            | 0.980                            | 0.121                      | 0.007                            | 0.007                            |
| 2010             | 17,292                     | 0.980                            | 0.980                            | 0.208                      | 0.012                            | 0.012                            |
| 2011             | 17,292                     | 0.980                            | 0.980                            | 0.294                      | 0.017                            | 0.017                            |
| 2012             | 17,292                     | 0.980                            | 0.980                            | 0.380                      | 0.022                            | 0.022                            |
| 2013             | 17,292                     | 0.980                            | 0.980                            | 0.467                      | 0.026                            | 0.026                            |
| 2014             | 17,292                     | 0.980                            | 0.980                            | 0.553                      | 0.031                            | 0.031                            |

**Program:** Commercial Water Heating Program

**Program Start Date:** 2007

**Program Description:**

This is a conservation program designed to encourage commercial/industrial customers to install high efficiency water heating systems thereby reducing future growth of demand and energy consumption. Two technologies covered under this program are heat recovery units (HRU) and heat pump water heaters (HPWH). Customers who are replacing existing water heating equipment or installing new electric water heating equipment may participate if they meet the following requirements:

**Commercial Heat Recovery**

**Program Participation Standards**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. The water heating system must be electric and used to supply heated water to meet domestic or process hot water needs.
3. The customer's facility utilizing the water heating equipment must operate during Tampa Electric peak summer hours (2:00 P.M. to 10:00 P.M.), April through October and winter hours (6:00 A.M. to 11:00 A.M. and 6:00 P.M. to 10:00 P.M.), November through March.
4. The heat recovery unit (HRU) equipment will be installed in accordance with the manufacturer's recommendations and specifications.
5. The contractor or customer will submit a water heating incentive certificate to Tampa Electric. The form will be signed by the contractor certifying that the equipment installed meets manufacturer's specifications. The customer will sign the form verifying that the equipment was installed and the incentive recipient's name and mailing address are correct.
6. All contractors/customers installing HRU equipment must be a licensed general contractor, mechanical contractor, air-conditioning contractor, or plumbing contractor.

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7. Tampa Electric will randomly perform full field verifications on a minimum of 10 percent of the participating customers. Forms not selected for field review will have an office verification to validate information.
8. No incentive payment shall be made by Tampa Electric until:
  - Completed water heating incentive certificate is signed and dated by the customer indicating their acceptance of the installation.
  - A copy of the equipment invoice, contractor's invoice, or customer purchase order is provided.
  - A copy of the manufacturer's performance specification is submitted for the HRU.
9. All water heating equipment must:
  - Be in compliance with all local, state and national codes pertaining to the installation and operation of water heating equipment.
  - Exceed the latest Florida Energy Efficiency Code for Building Construction or American Society of Heating and Air-Conditioning Engineers (ASHRAE) Standard 90.1.
  - Be new and cannot be refurbished or have been previously installed or used.
  - Be a complete system, including any supplemental devices, and be listed by Underwriters Laboratories (UL) or another nationally recognized testing organization.
10. All heat recovery units must:
  - Be rated according to the current ARI Standard 470.
  - Be rated to meet or exceed air conditioner superheat capacity with a minimum recovery rate of 2,000 Btuh per ton.
11. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

## **Commercial Heat Pump Water Heater**

### **Program Participation Standards**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. The water heating system must be electric and used to supply heated water to meet domestic or process hot water needs.
3. The customer's facility utilizing the water heating equipment must operate during Tampa Electric peak summer hours (2:00 P.M. to 10:00 P.M.), April through October and winter hours (6:00 A.M. to 11:00 A.M. and 6:00 P.M. to 10:00 P.M.), November through March.
4. The HPWH equipment will be installed in accordance with the manufacturer's recommendations and specifications.
5. The contractor or customer will submit a water heating incentive certificate to Tampa Electric. The form will be signed by the contractor certifying that the equipment installed meets manufacturer's specifications. The customer will sign the form verifying that the equipment was installed and the incentive recipient's name and mailing address are correct.
6. All contractors/customers installing HPWH equipment must be a licensed general contractor, mechanical contractor, air-conditioning contractor, or plumbing contractor.
7. Tampa Electric will randomly perform full field verifications on a minimum of 10% of the participating customers. Forms not selected for field review will have an office verification to validate information.
8. No incentive payment shall be made by Tampa Electric until:
  - Completed water heating incentive certificate is signed and dated by the customer indicating their acceptance of the installation.
  - A copy of the equipment invoice, contractor's invoice, or customer purchase order is provided.
  - A copy of the manufacturer's performance specification is submitted for HPWH.



9. All water heating equipment must:
- Be in compliance with all local, state and national codes pertaining to the installation and operation of water heating equipment.
  - Exceed the latest Florida Energy Efficiency Code for Building Construction or ASHRAE Standard 90.1.
  - Be new and cannot be refurbished or have been previously installed or used.
  - Be a complete system, including any supplemental devices, and be listed by UL or another nationally recognized testing organization.
10. All heat pump water heaters must:
- Have a minimum coefficient of performance of 3.0.
  - Be based on 120 degree (or greater) leaving water temperature.
  - Have heat source based on 80/67 degree dry/wet bulb (or less) for air source units.
  - Have heat source based on ARI Standard 320 for water source heat pumps, ARI Standard 325 for ground water source heat pumps, ARI Standard 330 for ground source closed loop heat pumps or ARI Standard 870 for performance rating of direct geoechange heat pumps.
11. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

**Program Savings and Costs**

Demand and Energy savings were determined engineering estimates and a research project completed by Tampa Electric. Estimated savings are as follows:

Summer Demand: 0.94 kW

Winter Demand: 0.95 kW

Energy: 8,847 kWh

Costs:

|                                      |          |
|--------------------------------------|----------|
| Incentive cost per participant:      | \$708.75 |
| Administrative cost per participant: | \$ 55.00 |

**Program Monitoring and Evaluation**

Tampa Electric will monitor and evaluate this program through cost-effective techniques approved in the company's previously filed Demand Side Management Monitoring and Evaluation Plan, Docket No. 941173-EG.

PROGRAM NAME: COMMERCIAL WATER HEATING

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 69,953                    | 0                                  | 0                                     | 0.0%                           | 0  |
| 2006 | 71,177                    | 0                                  | 0                                     | 0.0%                           | 0  |
| 2007 | 72,474                    | 1,087                              | 1                                     | 0.1%                           | 1  |
| 2008 | 73,670                    | 1,105                              | 2                                     | 0.3%                           | 3  |
| 2009 | 74,906                    | 1,124                              | 4                                     | 0.6%                           | 7  |
| 2010 | 76,397                    | 1,146                              | 5                                     | 1.0%                           | 12   |
| 2011 | 77,929                    | 1,169                              | 5                                     | 1.5%                           | 17   |
| 2012 | 79,452                    | 1,192                              | 5                                     | 1.8%                           | 22   |
| 2013 | 80,800                    | 1,212                              | 5                                     | 2.2%                           | 27   |
| 2014 | 82,160                    | 1,232                              | 5                                     | 2.6%                           | 32   |

PROGRAM NAME: COMMERCIAL WATER HEATING

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 8,847                      | 0.940                            | 0.950                            | 0.000                      | 0.000                            | 0.000                            |
| 2006         | 8,847                      | 0.940                            | 0.950                            | 0.000                      | 0.000                            | 0.000                            |
| 2007         | 8,847                      | 0.940                            | 0.950                            | 0.009                      | 0.001                            | 0.001                            |
| 2008         | 8,847                      | 0.940                            | 0.950                            | 0.027                      | 0.003                            | 0.003                            |
| 2009         | 8,847                      | 0.940                            | 0.950                            | 0.062                      | 0.007                            | 0.007                            |
| 2010         | 8,847                      | 0.940                            | 0.950                            | 0.106                      | 0.011                            | 0.011                            |
| 2011         | 8,847                      | 0.940                            | 0.950                            | 0.150                      | 0.016                            | 0.016                            |
| 2012         | 8,847                      | 0.940                            | 0.950                            | 0.195                      | 0.021                            | 0.021                            |
| 2013         | 8,847                      | 0.940                            | 0.950                            | 0.239                      | 0.025                            | 0.026                            |
| 2014         | 8,847                      | 0.940                            | 0.950                            | 0.283                      | 0.030                            | 0.030                            |

PROGRAM NAME: COMMERCIAL WATER HEATING

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 9,360                      | 1.001                            | 1.012                            | 0.000                      | 0.000                            | 0.000                            |
| 2006             | 9,360                      | 1.001                            | 1.012                            | 0.000                      | 0.000                            | 0.000                            |
| 2007             | 9,360                      | 1.001                            | 1.012                            | 0.009                      | 0.001                            | 0.001                            |
| 2008             | 9,360                      | 1.001                            | 1.012                            | 0.028                      | 0.003                            | 0.003                            |
| 2009             | 9,360                      | 1.001                            | 1.012                            | 0.066                      | 0.007                            | 0.007                            |
| 2010             | 9,360                      | 1.001                            | 1.012                            | 0.112                      | 0.012                            | 0.012                            |
| 2011             | 9,360                      | 1.001                            | 1.012                            | 0.159                      | 0.017                            | 0.017                            |
| 2012             | 9,360                      | 1.001                            | 1.012                            | 0.206                      | 0.022                            | 0.022                            |
| 2013             | 9,360                      | 1.001                            | 1.012                            | 0.253                      | 0.027                            | 0.027                            |
| 2014             | 9,360                      | 1.001                            | 1.012                            | 0.300                      | 0.032                            | 0.032                            |

**Program:** Conservation Value Program

**Program Start Date:** April 1991

**Program Description**

This is an incentive program available for all commercial/industrial customers on firm rates to recognize and encourage investments in demand shifting or demand reduction measures. Measures funded in this program will not be covered under other Tampa Electric commercial/industrial conservation programs. Candidates are identified through the energy audit, or their engineering consultants can submit proposals for funding which offer energy reduction during weather sensitive peak periods.

**Program Participation Standards**

1. Any commercial/industrial customer on firm rates meeting the company's requirements for participation is eligible.
2. Average kW is defined as the total kWh used in the seasonal peak period divided by the total peak hours in the season.
3. An average minimum 5 kW summer and/or winter savings is required.
4. Measures must comply with all applicable codes.
5. For Tampa Electric to consider measures for potential program participation, the customer must submit their proposal along with a preliminary engineering analysis with relevant demand and energy calculations prior to measure installation. The engineering analysis may require a professional seal.
6. Measure eligibility:
  - a. Eligible Measures - Most commercially available and accepted demand reduction technologies are eligible for consideration including, but not limited to, renewable energy sources, refrigeration measures, thermal energy storage systems in lieu of conventional cooling systems, water heating measures and other measures not covered by other Tampa Electric approved conservation programs.

**TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX B  
FILED: JUNE 15, 2007**

- b. Ineligible Measures - This would include measures potentially in conflict with environmental regulations (CFCs, water conservation, indoor air quality), on-site generation, emergency generation, and cogeneration. If a measure qualifies for two rebates (Tampa Electric and another utility company), Tampa Electric will not pay its rebate so that a double payment is avoided. Additionally, customers on non-firm rates and those that make operational (behavioral) modifications are not eligible.
  - c. Any measure undergoing R & D evaluations is not eligible.
7. The baseline for measure evaluation will be the existing equipment efficiency unless the measure is covered by a minimum product standard or code for efficiency.
  8. Customer's simple payback period, including incentives, shall not be less than two years.
  9. Measures producing an average demand reduction of 50 kW or less which have demonstrated 90 days of successful continued operation will be issued a rebate after field verification.
  10. Measures producing an average demand reduction greater than 50 kW which have demonstrated 90 days of successful continued operation will receive 50 percent of the calculated rebate amount after field verification. The remaining incentive will be dispensed at the end of one year following final field verification for successful operation.
  11. A maximum incentive of \$250.00/avg. kW reduction will be paid based on savings from a baseline case. Tampa Electric will determine the incentive qualification by using the FPSC cost-effectiveness tests described in Rule 25-17.008, F.A.C. A benefit-to-cost ratio of at least 1.0 will be used.
  12. Summer peak is identified as 12:00 (noon) – 9:00 P.M., Monday through Friday, April through October. Winter peak is identified as 6:00 A.M. -10:00 A.M. and 6:00 P.M. -10:00 P.M., Monday through Friday, November through March.
  13. The reporting requirements for this program will follow Rule 25-17.0021 (5), F.A.C. Additionally, program expenses will be identified in the ECCR True-Up and Projection Filings.

### **Program Savings and Costs**

Program costs include estimates for marketing, administration, field verification and incentives. These estimates are used to maintain a minimum benefit-cost-ratio of 1.0 utilizing the prescribed Commission cost-effectiveness methodology. Demand and energy savings of 24.13 kW summer reduction, 13.08 kW winter reduction and 115,844 annual kWh represent an average potential customer; however, actual data will be available from any participating customer.

### **Program Monitoring and Evaluation**

The measures evaluated in this program are specific to each participant. Because of this, every Conservation Value participant is evaluated on a case by case basis, including verification of savings.

Customers and/or their consultants are responsible for demand and energy savings estimates. Tampa Electric will advise the customer of any special metering requirements when conservation measure(s) are submitted for review. If the company does require special metering, the customer will include such provision in the design of the measure. The company may choose to furnish and install metering equipment. The customer may also be requested to assist in data collection for complex measures.



## PROGRAM NAME: CONSERVATION VALUE

|      | (a)                       | (b)                                | (c)                                   | (d)                            | (e)  |
|------|---------------------------|------------------------------------|---------------------------------------|--------------------------------|--|
| Year | Total Number of Customers | Total Number of Eligible Customers | Annual Number of Program Participants | Cumulative Penetration Level % | Cumulative Number of Program Participants* |
| 2005 | 69,953                    | 3,498                              | 2                                     | 0.1%                           | 2  |
| 2006 | 71,177                    | 3,559                              | 3                                     | 0.1%                           | 5  |
| 2007 | 72,474                    | 3,624                              | 1                                     | 0.2%                           | 6  |
| 2008 | 73,670                    | 3,683                              | 1                                     | 0.2%                           | 7  |
| 2009 | 74,906                    | 3,745                              | 1                                     | 0.2%                           | 8  |
| 2010 | 76,397                    | 3,820                              | 1                                     | 0.2%                           | 9  |
| 2011 | 77,929                    | 3,896                              | 1                                     | 0.3%                           | 10   |
| 2012 | 79,452                    | 3,973                              | 1                                     | 0.3%                           | 11   |
| 2013 | 80,800                    | 4,040                              | 1                                     | 0.3%                           | 12   |
| 2014 | 82,160                    | 4,108                              | 1                                     | 0.3%                           | 13   |

\* Previous participation levels not included.

PROGRAM NAME: CONSERVATION VALUE

| AT THE METER |                            |                                  |                                  |                            |                                  |                                  |
|--------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year         | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005         | 115,844                    | 13.080                           | 24.130                           | 0.232                      | 0.026                            | 0.048                            |
| 2006         | 115,844                    | 13.080                           | 24.130                           | 0.579                      | 0.065                            | 0.121                            |
| 2007         | 115,844                    | 13.080                           | 24.130                           | 0.695                      | 0.078                            | 0.145                            |
| 2008         | 115,844                    | 13.080                           | 24.130                           | 0.811                      | 0.092                            | 0.169                            |
| 2009         | 115,844                    | 13.080                           | 24.130                           | 0.927                      | 0.105                            | 0.193                            |
| 2010         | 115,844                    | 13.080                           | 24.130                           | 1.043                      | 0.118                            | 0.217                            |
| 2011         | 115,844                    | 13.080                           | 24.130                           | 1.158                      | 0.131                            | 0.241                            |
| 2012         | 115,844                    | 13.080                           | 24.130                           | 1.274                      | 0.144                            | 0.265                            |
| 2013         | 115,844                    | 13.080                           | 24.130                           | 1.390                      | 0.157                            | 0.290                            |
| 2014         | 115,844                    | 13.080                           | 24.130                           | 1.506                      | 0.170                            | 0.314                            |

PROGRAM NAME: CONSERVATION VALUE

| AT THE GENERATOR |                            |                                  |                                  |                            |                                  |                                  |
|------------------|----------------------------|----------------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------------|
| Year             | Per Customer kWh Reduction | Per Customer Winter kW Reduction | Per Customer Summer kW Reduction | Total Annual GWh Reduction | Total Annual Winter mW Reduction | Total Annual Summer mW Reduction |
| 2005             | 122,563                    | 13.930                           | 25.698                           | 0.245                      | 0.028                            | 0.051                            |
| 2006             | 122,563                    | 13.930                           | 25.698                           | 0.613                      | 0.070                            | 0.128                            |
| 2007             | 122,563                    | 13.930                           | 25.698                           | 0.735                      | 0.084                            | 0.154                            |
| 2008             | 122,563                    | 13.930                           | 25.698                           | 0.858                      | 0.098                            | 0.180                            |
| 2009             | 122,563                    | 13.930                           | 25.698                           | 0.981                      | 0.111                            | 0.206                            |
| 2010             | 122,563                    | 13.930                           | 25.698                           | 1.103                      | 0.125                            | 0.231                            |
| 2011             | 122,563                    | 13.930                           | 25.698                           | 1.226                      | 0.139                            | 0.257                            |
| 2012             | 122,563                    | 13.930                           | 25.698                           | 1.348                      | 0.153                            | 0.283                            |
| 2013             | 122,563                    | 13.930                           | 25.698                           | 1.471                      | 0.167                            | 0.308                            |
| 2014             | 122,563                    | 13.930                           | 25.698                           | 1.593                      | 0.181                            | 0.334                            |

## Appendix C

**INPUT DATA - PART 1**  
**PROGRAM TITLE: Residential Heating & Cooling**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

| PROGRAM DEMAND SAVINGS & LINE LOSSES          |                   |  |
|---|-------------------|--|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 1.020 KW /CUST    |  |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 0.283 KW GEN/CUST |  |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.6 %             |  |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 657 KWH/CUST/YR   |  |
| I. (5) KWH LINE LOSS PERCENTAGE               | 6.0 %             |  |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                 |  |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR     |  |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 618 KWH/CUST/YR   |  |

| ECONOMIC LIFE & K FACTORS                     |          |  |
|---|----------|--|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 15 YEARS |  |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |  |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |  |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |  |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |  |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 1        |  |

| UTILITY & CUSTOMER COSTS                          |                 |  |
|---|-----------------|--|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 37.00 \$/CUST   |  |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |  |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |  |
| III. (4) CUSTOMER EQUIPMENT COST                  | 470.00 \$/CUST  |  |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |  |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |  |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |  |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |  |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |  |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |  |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |  |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |  |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |  |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 167.00 \$/CUST  |  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |  |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |  |

| AVOIDED GENERATOR, TRANS. & DIST COSTS               |                 |  |
|--|-----------------|--|
| IV. (1) BASE YEAR                                    | 2007            |  |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |  |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |  |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |  |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |  |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |  |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |  |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |  |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |  |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |  |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |  |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |  |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |  |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |  |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |  |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |  |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |  |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |  |

| NON-FUEL ENERGY AND DEMAND CHARGES                                      |                 |  |
|---|-----------------|--|
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 4.342 CENTS/KWH |  |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %             |  |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 0.00 \$/KW/MO   |  |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %             |  |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 1               |  |

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.06 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 449  |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.23 |

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TAMPA ELECTRIC COMPANY  
 DSM PROGRAM MODIFICATIONS  
 APPENDIX C  
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TOTAL RESOURCE COST TESTS  
PROGRAM: Residential Heating & Cooling

PSC FORM CE 2.3  
Page 1 of 1  
June 6, 2007

| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |
| 2007          | 0                                       | 37                                     | 470  | 0                         | 507                       | 0  | 0                                       | 18                                    | 0                            | 18                           | (489)                      | (489)  |
| 2008          | 0                                       | 38                                     | 482  | 0                         | 520                       | 0  | 0                                       | 56                                    | 0                            | 56                           | (463)                      | (919)  |
| 2009          | 0                                       | 39                                     | 494  | 0                         | 533                       | 0  | 0                                       | 93                                    | 0                            | 93                           | (440)                      | (1,297)  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 91   | 0                                       | 98                                    | 0                            | 189                          | 189                        | (1,146)  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 93   | 0                                       | 98                                    | 0                            | 190                          | 190                        | (1,006)  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 95   | 0                                       | 98                                    | 0                            | 194                          | 194                        | (874)  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 98   | 0                                       | 96                                    | 0                            | 193                          | 193                        | (751)  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 100  | 0                                       | 101                                   | 0                            | 201                          | 201                        | (633)  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 103  | 0                                       | 101                                   | 0                            | 203                          | 203                        | (522)  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 105  | 0                                       | 105                                   | 0                            | 210                          | 210                        | (416)  |
| 2017          | 0                                       | 0                                      | 0  | 0                         | 0                         | 108  | 0                                       | 109                                   | 0                            | 217                          | 217                        | (314)  |
| 2018          | 0                                       | 0                                      | 0  | 0                         | 0                         | 110  | 0                                       | 120                                   | 0                            | 230                          | 230                        | (214)  |
| 2019          | 0                                       | 0                                      | 0  | 0                         | 0                         | 113  | 0                                       | 140                                   | 0                            | 253                          | 253                        | (113)  |
| 2020          | 0                                       | 0                                      | 0  | 0                         | 0                         | 116  | 0                                       | 150                                   | 0                            | 265                          | 265                        | (14)   |
| 2021          | 0                                       | 0                                      | 0  | 0                         | 0                         | 118  | 0                                       | 162                                   | 0                            | 281                          | 281                        | 83   |
| NOMINAL       | 0                                       | 114                                    | 1,446                                      | 0                         | 1,559                     | 1,250                                      | 0                                       | 1,542                                 | 0                            | 2,792                        | 1,233                      |  |
| NPV:          | 0                                       | 106                                    | 1,341                                      | 0                         | 1,446                     | 664  | 0                                       | 865                                   | 0                            | 1,530                        | 83                         |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (6)]:   |                           |                           |  | 1.06                                    |                                       |                              |                              |                            |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
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PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Residential Heating & Cooling

PSC FORM CE 2.4  
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June 6, 2007

| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 27   | 0                         | 167                           | 0                            | 194                          | 470                                       | 0                                     | 0                         | 470                       | (276)                      | (276)   |
| 2008                         | 80   | 0                         | 167                           | 0                            | 247                          | 482                                       | 0                                     | 0                         | 482                       | (235)                      | (494)   |
| 2009                         | 133  | 0                         | 167                           | 0                            | 300                          | 494                                       | 0                                     | 0                         | 494                       | (194)                      | (661)   |
| 2010                         | 161  | 0                         | 0                             | 0                            | 161                          | 0   | 0                                     | 0                         | 0                         | 161                        | (533)   |
| 2011                         | 162  | 0                         | 0                             | 0                            | 162                          | 0   | 0                                     | 0                         | 0                         | 162                        | (413)   |
| 2012                         | 167  | 0                         | 0                             | 0                            | 167                          | 0   | 0                                     | 0                         | 0                         | 167                        | (299)   |
| 2013                         | 156  | 0                         | 0                             | 0                            | 156                          | 0   | 0                                     | 0                         | 0                         | 156                        | (200)   |
| 2014                         | 161  | 0                         | 0                             | 0                            | 161                          | 0   | 0                                     | 0                         | 0                         | 161                        | (105)   |
| 2015                         | 164  | 0                         | 0                             | 0                            | 164                          | 0   | 0                                     | 0                         | 0                         | 164                        | (16)  |
| 2016                         | 171  | 0                         | 0                             | 0                            | 171                          | 0   | 0                                     | 0                         | 0                         | 171                        | 71  |
| 2017                         | 174  | 0                         | 0                             | 0                            | 174                          | 0   | 0                                     | 0                         | 0                         | 174                        | 152   |
| 2018                         | 182  | 0                         | 0                             | 0                            | 182                          | 0   | 0                                     | 0                         | 0                         | 182                        | 231   |
| 2019                         | 188  | 0                         | 0                             | 0                            | 188                          | 0   | 0                                     | 0                         | 0                         | 188                        | 307   |
| 2020                         | 195  | 0                         | 0                             | 0                            | 195                          | 0   | 0                                     | 0                         | 0                         | 195                        | 380   |
| 2021                         | 200  | 0                         | 0                             | 0                            | 200                          | 0   | 0                                     | 0                         | 0                         | 200                        | 449   |
| NOMINAL                      | 2,321  | 0                         | 501                           | 0                            | 2,822                        | 1,446                                     | 0                                     | 0                         | 1,446                     | 1,376                      |   |
| NPV:                         | 1,324  | 0                         | 465                           | 0                            | 1,790                        | 1,341                                     | 0                                     | 0                         | 1,341                     | 449                        |   |
| in service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
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RATE IMPACT TEST  
PROGRAM: Residential Heating & Cooling

PSC FORM CE 2.5  
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| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)   | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|---|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 37                                     | 167                   | 13                           | 0                         | 217                       | 18  | 0                                       | 0                           | 0                            | 18                           | (200)   | (200)   |
| 2008           | 0                                       | 38                                     | 167                   | 41                           | 0                         | 246                       | 56  | 0                                       | 0                           | 0                            | 56                           | (189)   | (375)   |
| 2009           | 0                                       | 39                                     | 167                   | 68                           | 0                         | 274                       | 93  | 0                                       | 0                           | 0                            | 93                           | (182)   | (531)   |
| 2010           | 0                                       | 0                                      | 0                     | 83                           | 0                         | 83                        | 189   | 0                                       | 0                           | 0                            | 189                          | 106   | (447)   |
| 2011           | 0                                       | 0                                      | 0                     | 84                           | 0                         | 84                        | 190   | 0                                       | 0                           | 0                            | 190                          | 106   | (369)   |
| 2012           | 0                                       | 0                                      | 0                     | 85                           | 0                         | 85                        | 194   | 0                                       | 0                           | 0                            | 194                          | 109   | (294)   |
| 2013           | 0                                       | 0                                      | 0                     | 85                           | 0                         | 85                        | 193   | 0                                       | 0                           | 0                            | 193                          | 108   | (225)   |
| 2014           | 0                                       | 0                                      | 0                     | 86                           | 0                         | 86                        | 201   | 0                                       | 0                           | 0                            | 201                          | 115   | (158)   |
| 2015           | 0                                       | 0                                      | 0                     | 87                           | 0                         | 87                        | 203   | 0                                       | 0                           | 0                            | 203                          | 116   | (94)  |
| 2016           | 0                                       | 0                                      | 0                     | 88                           | 0                         | 88                        | 210   | 0                                       | 0                           | 0                            | 210                          | 122   | (33)  |
| 2017           | 0                                       | 0                                      | 0                     | 89                           | 0                         | 89                        | 217   | 0                                       | 0                           | 0                            | 217                          | 128   | 27  |
| 2018           | 0                                       | 0                                      | 0                     | 90                           | 0                         | 90                        | 230   | 0                                       | 0                           | 0                            | 230                          | 140   | 88  |
| 2019           | 0                                       | 0                                      | 0                     | 91                           | 0                         | 91                        | 253   | 0                                       | 0                           | 0                            | 253                          | 162   | 153   |
| 2020           | 0                                       | 0                                      | 0                     | 92                           | 0                         | 92                        | 265   | 0                                       | 0                           | 0                            | 265                          | 174   | 218   |
| 2021           | 0                                       | 0                                      | 0                     | 93                           | 0                         | 93                        | 281   | 0                                       | 0                           | 0                            | 281                          | 188   | 283   |
| NOMINAL        | 0                                       | 114                                    | 501                   | 1,174                        | 0                         | 1,789                     | 2,792   | 0                                       | 0                           | 0                            | 2,792                        | 1,003   |   |
| NPV:           | 0                                       | 106                                    | 465                   | 676                          | 0                         | 1,247                     | 1,530   | 0                                       | 0                           | 0                            | 1,530                        | 283   |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:                  |   | 1.23                        |                              |                              |   |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007



**INPUT DATA - PART 1**  
**PROGRAM TITLE: Residential Duct Repair**

PSC FORM CE 1.1  
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 RUN DATE: June 6, 2007

|   |                   |
|---|-------------------|
| <b>PROGRAM DEMAND SAVINGS &amp; LINE LOSSES</b>   |                   |
| I. (1) CUSTOMER KW REDUCTION AT THE METER         | 0.396 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER        | 0.434 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                    | 6.6 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER      | 921 KWH/CUST/YR   |
| I. (5) KWH LINE LOSS PERCENTAGE                   | 6.0 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER                 | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER     | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER           | 866 KWH/CUST/YR   |
| <b>ECONOMIC LIFE &amp; K FACTORS</b>              |                   |
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM     | 26 YEARS          |
| II. (2) GENERATOR ECONOMIC LIFE                   | 26 YEARS          |
| II. (3) T & D ECONOMIC LIFE                       | 26 YEARS          |
| II. (4) K FACTOR FOR GENERATION                   | 1.5983            |
| II. (5) K FACTOR FOR T & D                        | 1.5983            |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)      | 0                 |
| <b>UTILITY &amp; CUSTOMER COSTS</b>               |                   |
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 51.00 \$/CUST     |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR   |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %             |
| III. (4) CUSTOMER EQUIPMENT COST                  | 50.00 \$/CUST     |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %             |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR      |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %             |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST         |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %               |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR      |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %               |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788            |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779            |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 233.00 \$/CUST    |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR   |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %               |

|  |                 |
|--|-----------------|
| <b>AVOIDED GENERATOR, TRANS. &amp; DIST COSTS</b>    |                 |
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

|   |                 |
|---|-----------------|
| <b>NON-FUEL ENERGY AND DEMAND CHARGES</b>                               |                 |
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 4.342 CENTS/KWH |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %             |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 0.00 \$/KW/MO   |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %             |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 1               |

|                                      |       |
|--------------------------------------|-------|
| <b>CALCULATED BENEFITS AND COSTS</b> |       |
| (1)* TRC TEST - BENEFIT/COST RATIO   | 12.15 |
| (2)* PARTICIPANT NET BENEFITS (NPV)  | 7,914 |
| (3)* RIM TEST - BENEFIT/COST RATIO   | 1.68  |

TOTAL RESOURCE COST TESTS  
PROGRAM: Residential Duct Repair

PSC FORM CE 2.3  
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| (1)           | (2)                               | (3)                              | (4)                                      | (5)                    | (6)                    | (7)                                  | (8)                               | (9)                             | (10)                      | (11)                      | (12)                    | (13)  |  |
|---------------|-----------------------------------|----------------------------------|--|------------------------|------------------------|--------------------------------------|-----------------------------------|---------------------------------|---------------------------|---------------------------|-------------------------|---|--|
| YEAR          | INCREASED SUPPLY COSTS<br>\$(000) | UTILITY PROGRAM COSTS<br>\$(000) | PARTICIPANT PROGRAM COSTS<br>\$(000)     | OTHER COSTS<br>\$(000) | TOTAL COSTS<br>\$(000) | AVOIDED GEN UNIT BENEFITS<br>\$(000) | AVOIDED T & D BENEFITS<br>\$(000) | PROGRAM FUEL SAVINGS<br>\$(000) | OTHER BENEFITS<br>\$(000) | TOTAL BENEFITS<br>\$(000) | NET BENEFITS<br>\$(000) | CUMULATIVE DISCOUNTED NET BENEFITS<br>\$(000) |  |
| 2007          | 0                                 | 128                              | 125                                      | 0                      | 253                    | 0                                    | 0                                 | 63                              | 0                         | 63                        | (190)                   | (190)   |  |
| 2008          | 0                                 | 131                              | 128                                      | 0                      | 259                    | 0                                    | 0                                 | 201                             | 0                         | 201                       | (57)                    | (243)   |  |
| 2009          | 0                                 | 134                              | 131                                      | 0                      | 265                    | 0                                    | 0                                 | 332                             | 0                         | 332                       | 66                      | (186)   |  |
| 2010          | 0                                 | 0                                | 0  | 0                      | 0                      | 545                                  | 0                                 | 351                             | 0                         | 896                       | 896                     | 528   |  |
| 2011          | 0                                 | 0                                | 0  | 0                      | 0                      | 531                                  | 0                                 | 344                             | 0                         | 876                       | 876                     | 1,175   |  |
| 2012          | 0                                 | 0                                | 0  | 0                      | 0                      | 515                                  | 0                                 | 352                             | 0                         | 867                       | 867                     | 1,768   |  |
| 2013          | 0                                 | 0                                | 0  | 0                      | 0                      | 500                                  | 0                                 | 342                             | 0                         | 842                       | 842                     | 2,302   |  |
| 2014          | 0                                 | 0                                | 0  | 0                      | 0                      | 486                                  | 0                                 | 361                             | 0                         | 847                       | 847                     | 2,801   |  |
| 2015          | 0                                 | 0                                | 0  | 0                      | 0                      | 473                                  | 0                                 | 359                             | 0                         | 833                       | 833                     | 3,255   |  |
| 2016          | 0                                 | 0                                | 0  | 0                      | 0                      | 461                                  | 0                                 | 376                             | 0                         | 837                       | 837                     | 3,677   |  |
| 2017          | 0                                 | 0                                | 0  | 0                      | 0                      | 449                                  | 0                                 | 390                             | 0                         | 839                       | 839                     | 4,070   |  |
| 2018          | 0                                 | 0                                | 0  | 0                      | 0                      | 437                                  | 0                                 | 428                             | 0                         | 866                       | 866                     | 4,446   |  |
| 2019          | 0                                 | 0                                | 0  | 0                      | 0                      | 426                                  | 0                                 | 500                             | 0                         | 925                       | 925                     | 4,818   |  |
| 2020          | 0                                 | 0                                | 0  | 0                      | 0                      | 414                                  | 0                                 | 535                             | 0                         | 948                       | 948                     | 5,172   |  |
| 2021          | 0                                 | 0                                | 0  | 0                      | 0                      | 402                                  | 0                                 | 579                             | 0                         | 982                       | 982                     | 5,512   |  |
| 2022          | 0                                 | 0                                | 0  | 0                      | 0                      | 391                                  | 0                                 | 620                             | 0                         | 1,011                     | 1,011                   | 5,836   |  |
| 2023          | 0                                 | 0                                | 0  | 0                      | 0                      | 379                                  | 0                                 | 616                             | 0                         | 995                       | 995                     | 6,131   |  |
| 2024          | 0                                 | 0                                | 0  | 0                      | 0                      | 368                                  | 0                                 | 628                             | 0                         | 994                       | 994                     | 6,405   |  |
| 2025          | 0                                 | 0                                | 0  | 0                      | 0                      | 358                                  | 0                                 | 630                             | 0                         | 989                       | 989                     | 6,658   |  |
| 2026          | 0                                 | 0                                | 0  | 0                      | 0                      | 353                                  | 0                                 | 642                             | 0                         | 994                       | 994                     | 6,893   |  |
| 2027          | 0                                 | 0                                | 0  | 0                      | 0                      | 349                                  | 0                                 | 659                             | 0                         | 1,008                     | 1,008                   | 7,114   |  |
| 2028          | 0                                 | 0                                | 0  | 0                      | 0                      | 345                                  | 0                                 | 678                             | 0                         | 1,023                     | 1,023                   | 7,322   |  |
| 2029          | 0                                 | 0                                | 0  | 0                      | 0                      | 341                                  | 0                                 | 657                             | 0                         | 999                       | 999                     | 7,510   |  |
| 2030          | 0                                 | 0                                | 0  | 0                      | 0                      | 338                                  | 0                                 | 726                             | 0                         | 1,063                     | 1,063                   | 7,696   |  |
| 2031          | 0                                 | 0                                | 0  | 0                      | 0                      | 334                                  | 0                                 | 742                             | 0                         | 1,078                     | 1,078                   | 7,870   |  |
| 2032          | 0                                 | 0                                | 0  | 0                      | 0                      | 331                                  | 0                                 | 751                             | 0                         | 1,083                     | 1,083                   | 8,033   |  |
| NOMINAL       | 0                                 | 392                              | 384                                      | 0                      | 777                    | 9,529                                | 0                                 | 12,859                          | 0                         | 22,388                    | 21,611                  |   |  |
| NPV:          | 0                                 | 364                              | 357                                      | 0                      | 720                    | 4,027                                | 0                                 | 4,726                           | 0                         | 8,753                     | 8,033                   |   |  |
| Discount Rate |                                   | 0.0788                           | Benefit/Cost Ratio - [col (11)/col (6)]: |                        |                        |                                      |                                   | 12.15                           |                           |                           |                         |   |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
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PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Residential Duct Repair

PSC FORM CE 2.4  
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| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 94   | 0                         | 583                           | 0                            | 677                          | 125                                       | 0                                     | 0                         | 125                       | 552                        | 552   |
| 2008                         | 279  | 0                         | 583                           | 0                            | 862                          | 128                                       | 0                                     | 0                         | 128                       | 733                        | 1,231   |
| 2009                         | 465  | 0                         | 583                           | 0                            | 1,048                        | 131                                       | 0                                     | 0                         | 131                       | 916                        | 2,019   |
| 2010                         | 564  | 0                         | 0                             | 0                            | 564                          | 0   | 0                                     | 0                         | 0                         | 564                        | 2,468   |
| 2011                         | 568  | 0                         | 0                             | 0                            | 568                          | 0   | 0                                     | 0                         | 0                         | 568                        | 2,887   |
| 2012                         | 584  | 0                         | 0                             | 0                            | 584                          | 0   | 0                                     | 0                         | 0                         | 584                        | 3,287   |
| 2013                         | 548  | 0                         | 0                             | 0                            | 548                          | 0   | 0                                     | 0                         | 0                         | 548                        | 3,635   |
| 2014                         | 563  | 0                         | 0                             | 0                            | 563                          | 0   | 0                                     | 0                         | 0                         | 563                        | 3,966   |
| 2015                         | 574  | 0                         | 0                             | 0                            | 574                          | 0   | 0                                     | 0                         | 0                         | 574                        | 4,279   |
| 2016                         | 598  | 0                         | 0                             | 0                            | 598                          | 0   | 0                                     | 0                         | 0                         | 598                        | 4,581   |
| 2017                         | 611  | 0                         | 0                             | 0                            | 611                          | 0   | 0                                     | 0                         | 0                         | 611                        | 4,867   |
| 2018                         | 636  | 0                         | 0                             | 0                            | 636                          | 0   | 0                                     | 0                         | 0                         | 636                        | 5,143   |
| 2019                         | 658  | 0                         | 0                             | 0                            | 658                          | 0   | 0                                     | 0                         | 0                         | 658                        | 5,408   |
| 2020                         | 684  | 0                         | 0                             | 0                            | 684                          | 0   | 0                                     | 0                         | 0                         | 684                        | 5,663   |
| 2021                         | 702  | 0                         | 0                             | 0                            | 702                          | 0   | 0                                     | 0                         | 0                         | 702                        | 5,906   |
| 2022                         | 718  | 0                         | 0                             | 0                            | 718                          | 0   | 0                                     | 0                         | 0                         | 718                        | 6,136   |
| 2023                         | 743  | 0                         | 0                             | 0                            | 743                          | 0   | 0                                     | 0                         | 0                         | 743                        | 6,357   |
| 2024                         | 770  | 0                         | 0                             | 0                            | 770                          | 0   | 0                                     | 0                         | 0                         | 770                        | 6,569   |
| 2025                         | 786  | 0                         | 0                             | 0                            | 786                          | 0   | 0                                     | 0                         | 0                         | 786                        | 6,770   |
| 2026                         | 805  | 0                         | 0                             | 0                            | 805                          | 0   | 0                                     | 0                         | 0                         | 805                        | 6,960   |
| 2027                         | 829  | 0                         | 0                             | 0                            | 829                          | 0   | 0                                     | 0                         | 0                         | 829                        | 7,142   |
| 2028                         | 841  | 0                         | 0                             | 0                            | 841                          | 0   | 0                                     | 0                         | 0                         | 841                        | 7,313   |
| 2029                         | 859  | 0                         | 0                             | 0                            | 859                          | 0   | 0                                     | 0                         | 0                         | 859                        | 7,475   |
| 2030                         | 882  | 0                         | 0                             | 0                            | 882                          | 0   | 0                                     | 0                         | 0                         | 882                        | 7,629   |
| 2031                         | 903  | 0                         | 0                             | 0                            | 903                          | 0   | 0                                     | 0                         | 0                         | 903                        | 7,775   |
| 2032                         | 922  | 0                         | 0                             | 0                            | 922                          | 0   | 0                                     | 0                         | 0                         | 922                        | 7,914   |
| NOMINAL                      | 17,185   | 0                         | 1,748                         | 0                            | 18,933                       | 384                                       | 0                                     | 0                         | 384                       | 18,549                     |   |
| NPV:                         | 6,647  | 0                         | 1,623                         | 0                            | 8,270                        | 357                                       | 0                                     | 0                         | 357                       | 7,914                      |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0786                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
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RATE IMPACT TEST  
PROGRAM: Residential Duct Repair

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| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)   | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|---|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 128                                    | 583                   | 47                           | 0                         | 757                       | 63  | 0                                       | 0                           | 0                            | 63                           | (694)   | (694)   |
| 2008           | 0                                       | 131                                    | 583                   | 142                          | 0                         | 856                       | 201   | 0                                       | 0                           | 0                            | 201                          | (654)   | (1301)  |
| 2009           | 0                                       | 134                                    | 583                   | 240                          | 0                         | 956                       | 332   | 0                                       | 0                           | 0                            | 332                          | (624)   | (1837)  |
| 2010           | 0                                       | 0                                      | 0                     | 291                          | 0                         | 291                       | 896   | 0                                       | 0                           | 0                            | 896                          | 606   | (1355)  |
| 2011           | 0                                       | 0                                      | 0                     | 293                          | 0                         | 293                       | 876   | 0                                       | 0                           | 0                            | 876                          | 582   | (925)   |
| 2012           | 0                                       | 0                                      | 0                     | 296                          | 0                         | 296                       | 867   | 0                                       | 0                           | 0                            | 867                          | 571   | (534)   |
| 2013           | 0                                       | 0                                      | 0                     | 299                          | 0                         | 299                       | 842   | 0                                       | 0                           | 0                            | 842                          | 543   | (190)   |
| 2014           | 0                                       | 0                                      | 0                     | 302                          | 0                         | 302                       | 847   | 0                                       | 0                           | 0                            | 847                          | 545   | 131   |
| 2015           | 0                                       | 0                                      | 0                     | 305                          | 0                         | 305                       | 833   | 0                                       | 0                           | 0                            | 833                          | 527   | 418   |
| 2016           | 0                                       | 0                                      | 0                     | 308                          | 0                         | 308                       | 837   | 0                                       | 0                           | 0                            | 837                          | 528   | 685   |
| 2017           | 0                                       | 0                                      | 0                     | 312                          | 0                         | 312                       | 839   | 0                                       | 0                           | 0                            | 839                          | 527   | 932   |
| 2018           | 0                                       | 0                                      | 0                     | 315                          | 0                         | 315                       | 866   | 0                                       | 0                           | 0                            | 866                          | 551   | 1171  |
| 2019           | 0                                       | 0                                      | 0                     | 318                          | 0                         | 318                       | 925   | 0                                       | 0                           | 0                            | 925                          | 607   | 1416  |
| 2020           | 0                                       | 0                                      | 0                     | 321                          | 0                         | 321                       | 948   | 0                                       | 0                           | 0                            | 948                          | 627   | 1650  |
| 2021           | 0                                       | 0                                      | 0                     | 324                          | 0                         | 324                       | 982   | 0                                       | 0                           | 0                            | 982                          | 657   | 1877  |
| 2022           | 0                                       | 0                                      | 0                     | 327                          | 0                         | 327                       | 1,011   | 0                                       | 0                           | 0                            | 1,011                        | 683   | 2096  |
| 2023           | 0                                       | 0                                      | 0                     | 331                          | 0                         | 331                       | 995   | 0                                       | 0                           | 0                            | 995                          | 664   | 2294  |
| 2024           | 0                                       | 0                                      | 0                     | 334                          | 0                         | 334                       | 994   | 0                                       | 0                           | 0                            | 994                          | 660   | 2475  |
| 2025           | 0                                       | 0                                      | 0                     | 337                          | 0                         | 337                       | 989   | 0                                       | 0                           | 0                            | 989                          | 651   | 2642  |
| 2026           | 0                                       | 0                                      | 0                     | 341                          | 0                         | 341                       | 994   | 0                                       | 0                           | 0                            | 994                          | 653   | 2796  |
| 2027           | 0                                       | 0                                      | 0                     | 344                          | 0                         | 344                       | 1,008   | 0                                       | 0                           | 0                            | 1,008                        | 664   | 2942  |
| 2028           | 0                                       | 0                                      | 0                     | 348                          | 0                         | 348                       | 1,023   | 0                                       | 0                           | 0                            | 1,023                        | 675   | 3079  |
| 2029           | 0                                       | 0                                      | 0                     | 351                          | 0                         | 351                       | 999   | 0                                       | 0                           | 0                            | 999                          | 648   | 3201  |
| 2030           | 0                                       | 0                                      | 0                     | 355                          | 0                         | 355                       | 1,063   | 0                                       | 0                           | 0                            | 1,063                        | 709   | 3325  |
| 2031           | 0                                       | 0                                      | 0                     | 358                          | 0                         | 358                       | 1,076   | 0                                       | 0                           | 0                            | 1,076                        | 718   | 3441  |
| 2032           | 0                                       | 0                                      | 0                     | 362                          | 0                         | 362                       | 1,083   | 0                                       | 0                           | 0                            | 1,083                        | 721   | 3550  |
| NOMINAL        | 0                                       | 392                                    | 1,748                 | 7,901                        | 0                         | 10,041                    | 22,388  | 0                                       | 0                           | 0                            | 22,388                       | 12,347  |   |
| NPV:           | 0                                       | 364                                    | 1,623                 | 3,217                        | 0                         | 5,203                     | 8,753   | 0                                       | 0                           | 0                            | 8,753                        | 3,550   |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:                  |   | 1.68                        |                              |                              |   |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

**INPUT DATA - PART 1**  
**PROGRAM TITLE: Residential Ceiling Insulation**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                   |
|---|-------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 0.400 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 0.224 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.6 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 370 KWH/CUST/YR   |
| I. (5) KWH LINE LOSS PERCENTAGE               | 6.0 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 348 KWH/CUST/YR   |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 26 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 0        |

**UTILITY & CUSTOMER COSTS**

|   |                 |
|---|-----------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 36.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |
| III. (4) CUSTOMER EQUIPMENT COST                  | 409.03 \$/CUST  |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 100.00 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

|   |                 |
|---|-----------------|
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 4.342 CENTS/KWH |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %             |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 0.00 \$/KW/MO   |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %             |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 1               |

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.23 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 180  |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.74 |

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TAMPA ELECTRIC COMPANY  
 DSM PROGRAM MODIFICATIONS  
 APPENDIX C  
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TOTAL RESOURCE COST TESTS  
PROGRAM: Residential Ceiling Insulation

PSC FORM CE 2.3  
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| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |  |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |  |
| 2007          | 0                                       | 36                                     | 409  | 0                         | 445                       | 0  | 0                                       | 10                                    | 0                            | 10                           | (435)                      | (435)  |  |
| 2008          | 0                                       | 37                                     | 419  | 0                         | 456                       | 0  | 0                                       | 32                                    | 0                            | 32                           | (424)                      | (829)  |  |
| 2009          | 0                                       | 38                                     | 430  | 0                         | 468                       | 0  | 0                                       | 52                                    | 0                            | 52                           | (415)                      | (1,185)  |  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 110  | 0                                       | 55                                    | 0                            | 166                          | 166                        | (1,053)  |  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 108  | 0                                       | 54                                    | 0                            | 162                          | 162                        | (934)  |  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 104  | 0                                       | 55                                    | 0                            | 160                          | 160                        | (825)  |  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 101  | 0                                       | 54                                    | 0                            | 155                          | 155                        | (726)  |  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 98   | 0                                       | 57                                    | 0                            | 155                          | 155                        | (635)  |  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 96   | 0                                       | 57                                    | 0                            | 152                          | 152                        | (552)  |  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 93   | 0                                       | 59                                    | 0                            | 152                          | 152                        | (475)  |  |
| 2017          | 0                                       | 0                                      | 0  | 0                         | 0                         | 91   | 0                                       | 61                                    | 0                            | 152                          | 152                        | (404)  |  |
| 2018          | 0                                       | 0                                      | 0  | 0                         | 0                         | 88   | 0                                       | 67                                    | 0                            | 156                          | 156                        | (336)  |  |
| 2019          | 0                                       | 0                                      | 0  | 0                         | 0                         | 86   | 0                                       | 79                                    | 0                            | 165                          | 165                        | (270)  |  |
| 2020          | 0                                       | 0                                      | 0  | 0                         | 0                         | 84   | 0                                       | 84                                    | 0                            | 168                          | 168                        | (207)  |  |
| 2021          | 0                                       | 0                                      | 0  | 0                         | 0                         | 81   | 0                                       | 91                                    | 0                            | 173                          | 173                        | (147)  |  |
| 2022          | 0                                       | 0                                      | 0  | 0                         | 0                         | 79   | 0                                       | 98                                    | 0                            | 177                          | 177                        | (91)   |  |
| 2023          | 0                                       | 0                                      | 0  | 0                         | 0                         | 77   | 0                                       | 97                                    | 0                            | 174                          | 174                        | (39)   |  |
| 2024          | 0                                       | 0                                      | 0  | 0                         | 0                         | 74   | 0                                       | 99                                    | 0                            | 173                          | 173                        | 9  |  |
| 2025          | 0                                       | 0                                      | 0  | 0                         | 0                         | 73   | 0                                       | 99                                    | 0                            | 172                          | 172                        | 53   |  |
| 2026          | 0                                       | 0                                      | 0  | 0                         | 0                         | 71   | 0                                       | 101                                   | 0                            | 172                          | 172                        | 93   |  |
| 2027          | 0                                       | 0                                      | 0  | 0                         | 0                         | 71   | 0                                       | 104                                   | 0                            | 174                          | 174                        | 132  |  |
| 2028          | 0                                       | 0                                      | 0  | 0                         | 0                         | 70   | 0                                       | 107                                   | 0                            | 177                          | 177                        | 168  |  |
| 2029          | 0                                       | 0                                      | 0  | 0                         | 0                         | 69   | 0                                       | 104                                   | 0                            | 173                          | 173                        | 200  |  |
| 2030          | 0                                       | 0                                      | 0  | 0                         | 0                         | 68   | 0                                       | 114                                   | 0                            | 183                          | 183                        | 232  |  |
| 2031          | 0                                       | 0                                      | 0  | 0                         | 0                         | 68   | 0                                       | 117                                   | 0                            | 185                          | 185                        | 262  |  |
| 2032          | 0                                       | 0                                      | 0  | 0                         | 0                         | 67   | 0                                       | 118                                   | 0                            | 185                          | 185                        | 290  |  |
| NOMINAL       | 0                                       | 111                                    | 1,258                                      | 0                         | 1,369                     | 1,928                                      | 0                                       | 2,028                                 | 0                            | 3,954                        | 2,585                      |  |  |
| NPV:          | 0                                       | 103                                    | 1,167                                      | 0                         | 1,270                     | 815  | 0                                       | 744                                   | 0                            | 1,559                        | 290                        |  |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (6)]:   |                           |                           |  |   | 1.29                                  |                              |                              |                            |  |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
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PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Residential Ceiling Insulation

PSC FORM CE 2.4  
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| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 15   | 0                         | 100                           | 0                            | 115                          | 409                                       | 0                                     | 0                         | 409                       | (294)                      | (294)   |
| 2008                         | 45   | 0                         | 100                           | 0                            | 145                          | 419                                       | 0                                     | 0                         | 419                       | (274)                      | (548)   |
| 2009                         | 75   | 0                         | 100                           | 0                            | 175                          | 430                                       | 0                                     | 0                         | 430                       | (255)                      | (767)   |
| 2010                         | 91   | 0                         | 0                             | 0                            | 91                           | 0   | 0                                     | 0                         | 0                         | 91                         | (695)   |
| 2011                         | 91   | 0                         | 0                             | 0                            | 91                           | 0   | 0                                     | 0                         | 0                         | 91                         | (628)   |
| 2012                         | 94   | 0                         | 0                             | 0                            | 94                           | 0   | 0                                     | 0                         | 0                         | 94                         | (563)   |
| 2013                         | 88   | 0                         | 0                             | 0                            | 88                           | 0   | 0                                     | 0                         | 0                         | 88                         | (508)   |
| 2014                         | 91   | 0                         | 0                             | 0                            | 91                           | 0   | 0                                     | 0                         | 0                         | 91                         | (454)   |
| 2015                         | 92   | 0                         | 0                             | 0                            | 92                           | 0   | 0                                     | 0                         | 0                         | 92                         | (404)   |
| 2016                         | 96   | 0                         | 0                             | 0                            | 96                           | 0   | 0                                     | 0                         | 0                         | 96                         | (355)   |
| 2017                         | 98   | 0                         | 0                             | 0                            | 98                           | 0   | 0                                     | 0                         | 0                         | 98                         | (309)   |
| 2018                         | 102  | 0                         | 0                             | 0                            | 102                          | 0   | 0                                     | 0                         | 0                         | 102                        | (265)   |
| 2019                         | 106  | 0                         | 0                             | 0                            | 106                          | 0   | 0                                     | 0                         | 0                         | 106                        | (222)   |
| 2020                         | 110  | 0                         | 0                             | 0                            | 110                          | 0   | 0                                     | 0                         | 0                         | 110                        | (182)   |
| 2021                         | 113  | 0                         | 0                             | 0                            | 113                          | 0   | 0                                     | 0                         | 0                         | 113                        | (142)   |
| 2022                         | 115  | 0                         | 0                             | 0                            | 115                          | 0   | 0                                     | 0                         | 0                         | 115                        | (105)   |
| 2023                         | 119  | 0                         | 0                             | 0                            | 119                          | 0   | 0                                     | 0                         | 0                         | 119                        | (70)  |
| 2024                         | 124  | 0                         | 0                             | 0                            | 124                          | 0   | 0                                     | 0                         | 0                         | 124                        | (36)  |
| 2025                         | 126  | 0                         | 0                             | 0                            | 126                          | 0   | 0                                     | 0                         | 0                         | 126                        | (4)   |
| 2026                         | 129  | 0                         | 0                             | 0                            | 129                          | 0   | 0                                     | 0                         | 0                         | 129                        | 27  |
| 2027                         | 133  | 0                         | 0                             | 0                            | 133                          | 0   | 0                                     | 0                         | 0                         | 133                        | 56  |
| 2028                         | 135  | 0                         | 0                             | 0                            | 135                          | 0   | 0                                     | 0                         | 0                         | 135                        | 84  |
| 2029                         | 138  | 0                         | 0                             | 0                            | 138                          | 0   | 0                                     | 0                         | 0                         | 138                        | 110   |
| 2030                         | 142  | 0                         | 0                             | 0                            | 142                          | 0   | 0                                     | 0                         | 0                         | 142                        | 134   |
| 2031                         | 145  | 0                         | 0                             | 0                            | 145                          | 0   | 0                                     | 0                         | 0                         | 145                        | 158   |
| 2032                         | 148  | 0                         | 0                             | 0                            | 148                          | 0   | 0                                     | 0                         | 0                         | 148                        | 180   |
| NOMINAL                      | 2,762  | 0                         | 300                           | 0                            | 3,062                        | 1,258                                     | 0                                     | 0                         | 1,258                     | 1,804                      |   |
| NPV:                         | 1,068  | 0                         | 279                           | 0                            | 1,347                        | 1,167                                     | 0                                     | 0                         | 1,167                     | 180                        |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

RATE IMPACT TEST  
PROGRAM: Residential Ceiling Insulation

| (1)            | (2)                          | (3)                         | (4)        | (5)               | (6)            | (7)                                      | (8)  | (9)                          | (10)             | (11)              | (12)              | (13)                                   | (14)                                       |
|----------------|------------------------------|-----------------------------|------------|-------------------|----------------|--|--|------------------------------|------------------|-------------------|-------------------|--|--|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS | UTILITY<br>PROGRAM<br>COSTS | INCENTIVES | REVENUE<br>LOSSES | OTHER<br>COSTS | TOTAL<br>COSTS                           | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS | AVOIDED<br>T & D<br>BENEFITS | REVENUE<br>GAINS | OTHER<br>BENEFITS | TOTAL<br>BENEFITS | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT |
|                | \$(000)                      | \$(000)                     | \$(000)    | \$(000)           | \$(000)        | \$(000)                                  | \$(000)  | \$(000)                      | \$(000)          | \$(000)           | \$(000)           | \$(000)                                | \$(000)                                    |
| 2007           | 0                            | 36                          | 100        | 8                 | 0              | 144                                      | 10   | 0                            | 0                | 0                 | 10                | (134)                                  | (134)                                      |
| 2008           | 0                            | 37                          | 100        | 23                | 0              | 160                                      | 32   | 0                            | 0                | 0                 | 32                | (128)                                  | (252)                                      |
| 2009           | 0                            | 38                          | 100        | 39                | 0              | 176                                      | 52   | 0                            | 0                | 0                 | 52                | (124)                                  | (359)                                      |
| 2010           | 0                            | 0                           | 0          | 47                | 0              | 47                                       | 166  | 0                            | 0                | 0                 | 166               | 119                                    | (264)                                      |
| 2011           | 0                            | 0                           | 0          | 47                | 0              | 47                                       | 162  | 0                            | 0                | 0                 | 162               | 115                                    | (180)                                      |
| 2012           | 0                            | 0                           | 0          | 48                | 0              | 48                                       | 160  | 0                            | 0                | 0                 | 160               | 112                                    | (103)                                      |
| 2013           | 0                            | 0                           | 0          | 48                | 0              | 48                                       | 155  | 0                            | 0                | 0                 | 155               | 107                                    | (35)                                       |
| 2014           | 0                            | 0                           | 0          | 49                | 0              | 49                                       | 155  | 0                            | 0                | 0                 | 155               | 107                                    | 28   |
| 2015           | 0                            | 0                           | 0          | 49                | 0              | 49                                       | 152  | 0                            | 0                | 0                 | 152               | 103                                    | 84   |
| 2016           | 0                            | 0                           | 0          | 50                | 0              | 50                                       | 152  | 0                            | 0                | 0                 | 152               | 103                                    | 136  |
| 2017           | 0                            | 0                           | 0          | 50                | 0              | 50                                       | 152  | 0                            | 0                | 0                 | 152               | 102                                    | 184  |
| 2018           | 0                            | 0                           | 0          | 51                | 0              | 51                                       | 156  | 0                            | 0                | 0                 | 156               | 105                                    | 230  |
| 2019           | 0                            | 0                           | 0          | 51                | 0              | 51                                       | 165  | 0                            | 0                | 0                 | 165               | 114                                    | 275  |
| 2020           | 0                            | 0                           | 0          | 52                | 0              | 52                                       | 168  | 0                            | 0                | 0                 | 168               | 116                                    | 319  |
| 2021           | 0                            | 0                           | 0          | 52                | 0              | 52                                       | 173  | 0                            | 0                | 0                 | 173               | 121                                    | 360  |
| 2022           | 0                            | 0                           | 0          | 53                | 0              | 53                                       | 177  | 0                            | 0                | 0                 | 177               | 124                                    | 400  |
| 2023           | 0                            | 0                           | 0          | 53                | 0              | 53                                       | 174  | 0                            | 0                | 0                 | 174               | 121                                    | 436  |
| 2024           | 0                            | 0                           | 0          | 54                | 0              | 54                                       | 173  | 0                            | 0                | 0                 | 173               | 119                                    | 469  |
| 2025           | 0                            | 0                           | 0          | 54                | 0              | 54                                       | 172  | 0                            | 0                | 0                 | 172               | 118                                    | 499  |
| 2026           | 0                            | 0                           | 0          | 55                | 0              | 55                                       | 172  | 0                            | 0                | 0                 | 172               | 118                                    | 527  |
| 2027           | 0                            | 0                           | 0          | 55                | 0              | 55                                       | 174  | 0                            | 0                | 0                 | 174               | 119                                    | 553  |
| 2028           | 0                            | 0                           | 0          | 56                | 0              | 56                                       | 177  | 0                            | 0                | 0                 | 177               | 121                                    | 577  |
| 2029           | 0                            | 0                           | 0          | 56                | 0              | 56                                       | 173  | 0                            | 0                | 0                 | 173               | 116                                    | 599  |
| 2030           | 0                            | 0                           | 0          | 57                | 0              | 57                                       | 183  | 0                            | 0                | 0                 | 183               | 126                                    | 621  |
| 2031           | 0                            | 0                           | 0          | 58                | 0              | 58                                       | 185  | 0                            | 0                | 0                 | 185               | 127                                    | 642  |
| 2032           | 0                            | 0                           | 0          | 58                | 0              | 58                                       | 185  | 0                            | 0                | 0                 | 185               | 127                                    | 661  |
| NOMINAL        | 0                            | 111                         | 300        | 1,270             | 0              | 1,681                                    | 3,954  | 0                            | 0                | 0                 | 3,954             | 2,273                                  |  |
| NPV:           | 0                            | 103                         | 279        | 517               | 0              | 898                                      | 1,559  | 0                            | 0                | 0                 | 1,559             | 661                                    |  |
| Discount rate: |                              |                             | 0.0788     |                   |                | Benefit/Cost Ratio - [col (12)/col (7)]: |  |                              | 1.74             |                   |                   |  |  |

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DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007



**INPUT DATA - PART 1**  
**PROGRAM TITLE: Residential Wall Insulation**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                   |
|---|-------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 1.070 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 0.637 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.6 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 1422 KWH/CUST/YR  |
| I. (5) KWH LINE LOSS PERCENTAGE               | 6.0 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 1337 KWH/CUST/YR  |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 26 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 0        |

**UTILITY & CUSTOMER COSTS**

|   |                 |
|---|-----------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 75.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |
| III. (4) CUSTOMER EQUIPMENT COST                  | 1215.00 \$/CUST |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 200.00 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

|   |                 |
|---|-----------------|
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 4.342 CENTS/KWH |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %             |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 0.00 \$/KW/MO   |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %             |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 1               |

| CALCULATED BENEFITS AND COSTS       |       |
|-------------------------------------|-------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.44  |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 1,196 |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.92  |

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TAMPA ELECTRIC COMPANY  
 DSM PROGRAM MODIFICATIONS  
 APPENDIX C  
 FILED: JUNE 15, 2007

TOTAL RESOURCE COST TESTS  
PROGRAM: Residential Wall Insulation

PSC FORM CE 2.3  
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| (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) |  |
| 2007          | 0                              | 75                            | 1,215                                    | 0                   | 1,290               | 0                                 | 0                              | 39                           | 0                      | 39                     | (1,251)              | (1,251)                                    |  |
| 2008          | 0                              | 77                            | 1,245                                    | 0                   | 1,322               | 0                                 | 0                              | 124                          | 0                      | 124                    | (1,198)              | (2,362)                                    |  |
| 2009          | 0                              | 79                            | 1,277                                    | 0                   | 1,355               | 0                                 | 0                              | 205                          | 0                      | 205                    | (1,150)              | (3,350)                                    |  |
| 2010          | 0                              | 0                             | 0  | 0                   | 0                   | 321                               | 0                              | 217                          | 0                      | 537                    | 537                  | (2,922)                                    |  |
| 2011          | 0                              | 0                             | 0  | 0                   | 0                   | 312                               | 0                              | 219                          | 0                      | 525                    | 525                  | (2,534)                                    |  |
| 2012          | 0                              | 0                             | 0  | 0                   | 0                   | 303                               | 0                              | 217                          | 0                      | 520                    | 520                  | (2,178)                                    |  |
| 2013          | 0                              | 0                             | 0  | 0                   | 0                   | 294                               | 0                              | 211                          | 0                      | 505                    | 505                  | (1,858)                                    |  |
| 2014          | 0                              | 0                             | 0  | 0                   | 0                   | 286                               | 0                              | 223                          | 0                      | 509                    | 509                  | (1,559)                                    |  |
| 2015          | 0                              | 0                             | 0  | 0                   | 0                   | 278                               | 0                              | 222                          | 0                      | 500                    | 500                  | (1,288)                                    |  |
| 2016          | 0                              | 0                             | 0  | 0                   | 0                   | 271                               | 0                              | 232                          | 0                      | 503                    | 503                  | (1,032)                                    |  |
| 2017          | 0                              | 0                             | 0  | 0                   | 0                   | 264                               | 0                              | 241                          | 0                      | 505                    | 505                  | (795)                                      |  |
| 2018          | 0                              | 0                             | 0  | 0                   | 0                   | 257                               | 0                              | 264                          | 0                      | 522                    | 522                  | (569)                                      |  |
| 2019          | 0                              | 0                             | 0  | 0                   | 0                   | 250                               | 0                              | 308                          | 0                      | 559                    | 559                  | (344)                                      |  |
| 2020          | 0                              | 0                             | 0  | 0                   | 0                   | 243                               | 0                              | 330                          | 0                      | 573                    | 573                  | (130)                                      |  |
| 2021          | 0                              | 0                             | 0  | 0                   | 0                   | 236                               | 0                              | 358                          | 0                      | 594                    | 594                  | 75   |  |
| 2022          | 0                              | 0                             | 0  | 0                   | 0                   | 230                               | 0                              | 383                          | 0                      | 613                    | 613                  | 272  |  |
| 2023          | 0                              | 0                             | 0  | 0                   | 0                   | 223                               | 0                              | 380                          | 0                      | 603                    | 603                  | 451  |  |
| 2024          | 0                              | 0                             | 0  | 0                   | 0                   | 216                               | 0                              | 387                          | 0                      | 603                    | 603                  | 617  |  |
| 2025          | 0                              | 0                             | 0  | 0                   | 0                   | 211                               | 0                              | 389                          | 0                      | 600                    | 600                  | 770  |  |
| 2026          | 0                              | 0                             | 0  | 0                   | 0                   | 207                               | 0                              | 396                          | 0                      | 603                    | 603                  | 913  |  |
| 2027          | 0                              | 0                             | 0  | 0                   | 0                   | 205                               | 0                              | 407                          | 0                      | 612                    | 612                  | 1,047                                      |  |
| 2028          | 0                              | 0                             | 0  | 0                   | 0                   | 203                               | 0                              | 418                          | 0                      | 621                    | 621                  | 1,174                                      |  |
| 2029          | 0                              | 0                             | 0  | 0                   | 0                   | 201                               | 0                              | 406                          | 0                      | 607                    | 607                  | 1,288                                      |  |
| 2030          | 0                              | 0                             | 0  | 0                   | 0                   | 199                               | 0                              | 448                          | 0                      | 647                    | 647                  | 1,401                                      |  |
| 2031          | 0                              | 0                             | 0  | 0                   | 0                   | 197                               | 0                              | 458                          | 0                      | 655                    | 655                  | 1,507                                      |  |
| 2032          | 0                              | 0                             | 0  | 0                   | 0                   | 195                               | 0                              | 464                          | 0                      | 659                    | 659                  | 1,606                                      |  |
| NOMINAL       | 0                              | 231                           | 3,737                                    | 0                   | 3,968               | 5,603                             | 0                              | 7,941                        | 0                      | 13,544                 | 9,576                |  |  |
| NPV:          | 0                              | 214                           | 3,466                                    | 0                   | 3,680               | 2,368                             | 0                              | 2,919                        | 0                      | 5,286                  | 1,606                |  |  |
| Discount Rate |                                | 0.0788                        | Benefit/Cost Ratio - [col (11)/col (6)]: |                     |                     |                                   |                                | 1.44                         |                        |                        |                      |  |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
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PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Residential Wall Insulation

PSC FORM CE 2.4  
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| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 58   | 0                         | 200                           | 0                            | 258                          | 1,215                                     | 0                                     | 0                         | 1,215                     | (957)                      | (957)   |
| 2008                         | 172  | 0                         | 200                           | 0                            | 372                          | 1,245                                     | 0                                     | 0                         | 1,245                     | (873)                      | (1,766)   |
| 2009                         | 287  | 0                         | 200                           | 0                            | 487                          | 1,277                                     | 0                                     | 0                         | 1,277                     | (789)                      | (2,444)   |
| 2010                         | 348  | 0                         | 0                             | 0                            | 348                          | 0   | 0                                     | 0                         | 0                         | 348                        | (2,167)   |
| 2011                         | 351  | 0                         | 0                             | 0                            | 351                          | 0   | 0                                     | 0                         | 0                         | 351                        | (1,908)   |
| 2012                         | 361  | 0                         | 0                             | 0                            | 361                          | 0   | 0                                     | 0                         | 0                         | 361                        | (1,651)   |
| 2013                         | 338  | 0                         | 0                             | 0                            | 338                          | 0   | 0                                     | 0                         | 0                         | 338                        | (1,446)   |
| 2014                         | 348  | 0                         | 0                             | 0                            | 348                          | 0   | 0                                     | 0                         | 0                         | 348                        | (1,242)   |
| 2015                         | 355  | 0                         | 0                             | 0                            | 355                          | 0   | 0                                     | 0                         | 0                         | 355                        | (1,049)   |
| 2016                         | 370  | 0                         | 0                             | 0                            | 370                          | 0   | 0                                     | 0                         | 0                         | 370                        | (862)   |
| 2017                         | 377  | 0                         | 0                             | 0                            | 377                          | 0   | 0                                     | 0                         | 0                         | 377                        | (685)   |
| 2018                         | 393  | 0                         | 0                             | 0                            | 393                          | 0   | 0                                     | 0                         | 0                         | 393                        | (515)   |
| 2019                         | 407  | 0                         | 0                             | 0                            | 407                          | 0   | 0                                     | 0                         | 0                         | 407                        | (351)   |
| 2020                         | 422  | 0                         | 0                             | 0                            | 422                          | 0   | 0                                     | 0                         | 0                         | 422                        | (194)   |
| 2021                         | 434  | 0                         | 0                             | 0                            | 434                          | 0   | 0                                     | 0                         | 0                         | 434                        | (44)  |
| 2022                         | 443  | 0                         | 0                             | 0                            | 443                          | 0   | 0                                     | 0                         | 0                         | 443                        | 98  |
| 2023                         | 459  | 0                         | 0                             | 0                            | 459                          | 0   | 0                                     | 0                         | 0                         | 459                        | 235   |
| 2024                         | 476  | 0                         | 0                             | 0                            | 476                          | 0   | 0                                     | 0                         | 0                         | 476                        | 366   |
| 2025                         | 485  | 0                         | 0                             | 0                            | 485                          | 0   | 0                                     | 0                         | 0                         | 485                        | 490   |
| 2026                         | 497  | 0                         | 0                             | 0                            | 497                          | 0   | 0                                     | 0                         | 0                         | 497                        | 607   |
| 2027                         | 512  | 0                         | 0                             | 0                            | 512                          | 0   | 0                                     | 0                         | 0                         | 512                        | 720   |
| 2028                         | 520  | 0                         | 0                             | 0                            | 520                          | 0   | 0                                     | 0                         | 0                         | 520                        | 825   |
| 2029                         | 530  | 0                         | 0                             | 0                            | 530                          | 0   | 0                                     | 0                         | 0                         | 530                        | 925   |
| 2030                         | 545  | 0                         | 0                             | 0                            | 545                          | 0   | 0                                     | 0                         | 0                         | 545                        | 1,020   |
| 2031                         | 557  | 0                         | 0                             | 0                            | 557                          | 0   | 0                                     | 0                         | 0                         | 557                        | 1,111   |
| 2032                         | 569  | 0                         | 0                             | 0                            | 569                          | 0   | 0                                     | 0                         | 0                         | 569                        | 1,196   |
| NOMINAL                      | 10,613   | 0                         | 600                           | 0                            | 11,213                       | 3,737                                     | 0                                     | 0                         | 3,737                     | 7,476                      |   |
| NPV:                         | 4,105  | 0                         | 557                           | 0                            | 4,662                        | 3,466                                     | 0                                     | 0                         | 3,466                     | 1,196                      |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

RATE IMPACT TEST  
PROGRAM: Residential Wall Insulation

PSC FORM CE 2.5  
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| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)   | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|---|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 75                                     | 200                   | 29                           | 0                         | 304                       | 39  | 0                                       | 0                           | 0                            | 39                           | (265)   | (265)   |
| 2008           | 0                                       | 77                                     | 200                   | 88                           | 0                         | 365                       | 124   | 0                                       | 0                           | 0                            | 124                          | (240)   | (488)   |
| 2009           | 0                                       | 79                                     | 200                   | 148                          | 0                         | 427                       | 205   | 0                                       | 0                           | 0                            | 205                          | (222)   | (679)   |
| 2010           | 0                                       | 0                                      | 0                     | 179                          | 0                         | 179                       | 537   | 0                                       | 0                           | 0                            | 537                          | 358   | (394)   |
| 2011           | 0                                       | 0                                      | 0                     | 181                          | 0                         | 181                       | 525   | 0                                       | 0                           | 0                            | 525                          | 344   | (140)   |
| 2012           | 0                                       | 0                                      | 0                     | 183                          | 0                         | 183                       | 520   | 0                                       | 0                           | 0                            | 520                          | 337   | 91  |
| 2013           | 0                                       | 0                                      | 0                     | 185                          | 0                         | 185                       | 505   | 0                                       | 0                           | 0                            | 505                          | 320   | 294   |
| 2014           | 0                                       | 0                                      | 0                     | 187                          | 0                         | 187                       | 509   | 0                                       | 0                           | 0                            | 509                          | 322   | 484   |
| 2015           | 0                                       | 0                                      | 0                     | 189                          | 0                         | 189                       | 500   | 0                                       | 0                           | 0                            | 500                          | 312   | 653   |
| 2016           | 0                                       | 0                                      | 0                     | 190                          | 0                         | 190                       | 503   | 0                                       | 0                           | 0                            | 503                          | 313   | 811   |
| 2017           | 0                                       | 0                                      | 0                     | 192                          | 0                         | 192                       | 505   | 0                                       | 0                           | 0                            | 505                          | 312   | 958   |
| 2018           | 0                                       | 0                                      | 0                     | 194                          | 0                         | 194                       | 522   | 0                                       | 0                           | 0                            | 522                          | 327   | 1100  |
| 2019           | 0                                       | 0                                      | 0                     | 196                          | 0                         | 196                       | 559   | 0                                       | 0                           | 0                            | 559                          | 362   | 1246  |
| 2020           | 0                                       | 0                                      | 0                     | 198                          | 0                         | 198                       | 579   | 0                                       | 0                           | 0                            | 579                          | 375   | 1386  |
| 2021           | 0                                       | 0                                      | 0                     | 200                          | 0                         | 200                       | 594   | 0                                       | 0                           | 0                            | 594                          | 394   | 1522  |
| 2022           | 0                                       | 0                                      | 0                     | 202                          | 0                         | 202                       | 613   | 0                                       | 0                           | 0                            | 613                          | 410   | 1654  |
| 2023           | 0                                       | 0                                      | 0                     | 204                          | 0                         | 204                       | 603   | 0                                       | 0                           | 0                            | 603                          | 399   | 1772  |
| 2024           | 0                                       | 0                                      | 0                     | 206                          | 0                         | 206                       | 603   | 0                                       | 0                           | 0                            | 603                          | 397   | 1881  |
| 2025           | 0                                       | 0                                      | 0                     | 208                          | 0                         | 208                       | 600   | 0                                       | 0                           | 0                            | 600                          | 392   | 1981  |
| 2026           | 0                                       | 0                                      | 0                     | 210                          | 0                         | 210                       | 603   | 0                                       | 0                           | 0                            | 603                          | 393   | 2074  |
| 2027           | 0                                       | 0                                      | 0                     | 213                          | 0                         | 213                       | 612   | 0                                       | 0                           | 0                            | 612                          | 400   | 2162  |
| 2028           | 0                                       | 0                                      | 0                     | 215                          | 0                         | 215                       | 621   | 0                                       | 0                           | 0                            | 621                          | 407   | 2245  |
| 2029           | 0                                       | 0                                      | 0                     | 217                          | 0                         | 217                       | 607   | 0                                       | 0                           | 0                            | 607                          | 390   | 2318  |
| 2030           | 0                                       | 0                                      | 0                     | 219                          | 0                         | 219                       | 647   | 0                                       | 0                           | 0                            | 647                          | 428   | 2393  |
| 2031           | 0                                       | 0                                      | 0                     | 221                          | 0                         | 221                       | 655   | 0                                       | 0                           | 0                            | 655                          | 434   | 2463  |
| 2032           | 0                                       | 0                                      | 0                     | 223                          | 0                         | 223                       | 659   | 0                                       | 0                           | 0                            | 659                          | 435   | 2529  |
| NOMINAL        | 0                                       | 231                                    | 600                   | 4,879                        | 0                         | 5,710                     | 13,544  | 0                                       | 0                           | 0                            | 13,544                       | 7,833   |   |
| NPV:           | 0                                       | 214                                    | 557                   | 1,986                        | 0                         | 2,758                     | 5,286   | 0                                       | 0                           | 0                            | 5,286                        | 2,529   |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:                  |   |                             | 1.92                         |                              |   |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
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**INPUT DATA - PART 1**  
**PROGRAM TITLE: Residential Window Replacement**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                   |
|---|-------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 0.630 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 0.673 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.6 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 1320 KWH/CUST/YR  |
| I. (5) KWH LINE LOSS PERCENTAGE               | 6.0 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 1241 KWH/CUST/YR  |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 26 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 0        |

**UTILITY & CUSTOMER COSTS**

|   |                 |
|---|-----------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 75.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |
| III. (4) CUSTOMER EQUIPMENT COST                  | 1417.50 \$/CUST |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 350.00 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

|   |                   |
|---|-------------------|
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 4.342 CENTS/\$KWH |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %               |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 0.00 \$/KW/MO     |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %               |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 1                 |

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.22 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 742  |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.72 |

TOTAL RESOURCE COST TESTS  
PROGRAM: Residential Window Replacement

PSC FORM CE 2.3  
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| (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) |
| 2007          | 0                              | 75                            | 1,418                                    | 0                   | 1,493               | 0                                 | 0                              | 36                           | 0                      | 36                     | (1,457)              | (1,457)                                    |
| 2008          | 0                              | 77                            | 1,453                                    | 0                   | 1,530               | 0                                 | 0                              | 115                          | 0                      | 115                    | (1,414)              | (2,768)                                    |
| 2009          | 0                              | 79                            | 1,489                                    | 0                   | 1,568               | 0                                 | 0                              | 190                          | 0                      | 190                    | (1,378)              | (3,952)                                    |
| 2010          | 0                              | 0                             | 0  | 0                   | 0                   | 338                               | 0                              | 201                          | 0                      | 540                    | 540                  | (3,522)                                    |
| 2011          | 0                              | 0                             | 0  | 0                   | 0                   | 330                               | 0                              | 197                          | 0                      | 527                    | 527                  | (3,133)                                    |
| 2012          | 0                              | 0                             | 0  | 0                   | 0                   | 320                               | 0                              | 202                          | 0                      | 522                    | 522                  | (2,776)                                    |
| 2013          | 0                              | 0                             | 0  | 0                   | 0                   | 310                               | 0                              | 196                          | 0                      | 506                    | 506                  | (2,454)                                    |
| 2014          | 0                              | 0                             | 0  | 0                   | 0                   | 302                               | 0                              | 207                          | 0                      | 509                    | 509                  | (2,155)                                    |
| 2015          | 0                              | 0                             | 0  | 0                   | 0                   | 294                               | 0                              | 206                          | 0                      | 500                    | 500                  | (1,883)                                    |
| 2016          | 0                              | 0                             | 0  | 0                   | 0                   | 286                               | 0                              | 215                          | 0                      | 501                    | 501                  | (1,629)                                    |
| 2017          | 0                              | 0                             | 0  | 0                   | 0                   | 279                               | 0                              | 223                          | 0                      | 502                    | 502                  | (1,394)                                    |
| 2018          | 0                              | 0                             | 0  | 0                   | 0                   | 271                               | 0                              | 245                          | 0                      | 517                    | 517                  | (1,170)                                    |
| 2019          | 0                              | 0                             | 0  | 0                   | 0                   | 264                               | 0                              | 288                          | 0                      | 550                    | 550                  | (948)                                      |
| 2020          | 0                              | 0                             | 0  | 0                   | 0                   | 257                               | 0                              | 306                          | 0                      | 563                    | 563                  | (738)                                      |
| 2021          | 0                              | 0                             | 0  | 0                   | 0                   | 250                               | 0                              | 332                          | 0                      | 582                    | 582                  | (537)                                      |
| 2022          | 0                              | 0                             | 0  | 0                   | 0                   | 242                               | 0                              | 355                          | 0                      | 598                    | 598                  | (345)                                      |
| 2023          | 0                              | 0                             | 0  | 0                   | 0                   | 235                               | 0                              | 353                          | 0                      | 588                    | 588                  | (171)                                      |
| 2024          | 0                              | 0                             | 0  | 0                   | 0                   | 228                               | 0                              | 359                          | 0                      | 587                    | 587                  | (9)  |
| 2025          | 0                              | 0                             | 0  | 0                   | 0                   | 222                               | 0                              | 361                          | 0                      | 584                    | 584                  | 140  |
| 2026          | 0                              | 0                             | 0  | 0                   | 0                   | 219                               | 0                              | 368                          | 0                      | 587                    | 587                  | 279  |
| 2027          | 0                              | 0                             | 0  | 0                   | 0                   | 216                               | 0                              | 378                          | 0                      | 594                    | 594                  | 409  |
| 2028          | 0                              | 0                             | 0  | 0                   | 0                   | 214                               | 0                              | 388                          | 0                      | 603                    | 603                  | 532  |
| 2029          | 0                              | 0                             | 0  | 0                   | 0                   | 212                               | 0                              | 377                          | 0                      | 589                    | 589                  | 643  |
| 2030          | 0                              | 0                             | 0  | 0                   | 0                   | 210                               | 0                              | 416                          | 0                      | 626                    | 626                  | 752  |
| 2031          | 0                              | 0                             | 0  | 0                   | 0                   | 208                               | 0                              | 425                          | 0                      | 633                    | 633                  | 855  |
| 2032          | 0                              | 0                             | 0  | 0                   | 0                   | 206                               | 0                              | 431                          | 0                      | 636                    | 636                  | 950  |
| NOMINAL       | 0                              | 231                           | 4,360                                    | 0                   | 4,590               | 5,913                             | 0                              | 7,371                        | 0                      | 13,284                 | 8,694                |  |
| NPV:          | 0                              | 214                           | 4,044                                    | 0                   | 4,258               | 2,499                             | 0                              | 2,709                        | 0                      | 5,208                  | 950                  |  |
| Discount Rate |                                | 0.0788                        | Benefit/Cost Ratio - [col (11)/col (6)]: |                     |                     |                                   | 1.22                           |                              |                        |                        |                      |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Residential Window Replacement

PSC FORM CE 2.4  
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| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 54   | 0                         | 350                           | 0                            | 404                          | 1,418                                     | 0                                     | 0                         | 1,418                     | (1,014)                    | (1,014)   |
| 2008                         | 160  | 0                         | 350                           | 0                            | 510                          | 1,453                                     | 0                                     | 0                         | 1,453                     | (943)                      | (1,888)   |
| 2009                         | 267  | 0                         | 350                           | 0                            | 617                          | 1,489                                     | 0                                     | 0                         | 1,489                     | (873)                      | (2,637)   |
| 2010                         | 323  | 0                         | 0                             | 0                            | 323                          | 0   | 0                                     | 0                         | 0                         | 323                        | (2,380)   |
| 2011                         | 326  | 0                         | 0                             | 0                            | 326                          | 0   | 0                                     | 0                         | 0                         | 326                        | (2,140)   |
| 2012                         | 335  | 0                         | 0                             | 0                            | 335                          | 0   | 0                                     | 0                         | 0                         | 335                        | (1,911)   |
| 2013                         | 314  | 0                         | 0                             | 0                            | 314                          | 0   | 0                                     | 0                         | 0                         | 314                        | (1,711)   |
| 2014                         | 323  | 0                         | 0                             | 0                            | 323                          | 0   | 0                                     | 0                         | 0                         | 323                        | (1,521)   |
| 2015                         | 329  | 0                         | 0                             | 0                            | 329                          | 0   | 0                                     | 0                         | 0                         | 329                        | (1,342)   |
| 2016                         | 343  | 0                         | 0                             | 0                            | 343                          | 0   | 0                                     | 0                         | 0                         | 343                        | (1,169)   |
| 2017                         | 350  | 0                         | 0                             | 0                            | 350                          | 0   | 0                                     | 0                         | 0                         | 350                        | (1,005)   |
| 2018                         | 365  | 0                         | 0                             | 0                            | 365                          | 0   | 0                                     | 0                         | 0                         | 365                        | (846)   |
| 2019                         | 377  | 0                         | 0                             | 0                            | 377                          | 0   | 0                                     | 0                         | 0                         | 377                        | (694)   |
| 2020                         | 392  | 0                         | 0                             | 0                            | 392                          | 0   | 0                                     | 0                         | 0                         | 392                        | (548)   |
| 2021                         | 403  | 0                         | 0                             | 0                            | 403                          | 0   | 0                                     | 0                         | 0                         | 403                        | (409)   |
| 2022                         | 411  | 0                         | 0                             | 0                            | 411                          | 0   | 0                                     | 0                         | 0                         | 411                        | (277)   |
| 2023                         | 426  | 0                         | 0                             | 0                            | 426                          | 0   | 0                                     | 0                         | 0                         | 426                        | (151)   |
| 2024                         | 441  | 0                         | 0                             | 0                            | 441                          | 0   | 0                                     | 0                         | 0                         | 441                        | (29)  |
| 2025                         | 451  | 0                         | 0                             | 0                            | 451                          | 0   | 0                                     | 0                         | 0                         | 451                        | 86  |
| 2026                         | 461  | 0                         | 0                             | 0                            | 461                          | 0   | 0                                     | 0                         | 0                         | 461                        | 195   |
| 2027                         | 475  | 0                         | 0                             | 0                            | 475                          | 0   | 0                                     | 0                         | 0                         | 475                        | 299   |
| 2028                         | 482  | 0                         | 0                             | 0                            | 482                          | 0   | 0                                     | 0                         | 0                         | 482                        | 397   |
| 2029                         | 492  | 0                         | 0                             | 0                            | 492                          | 0   | 0                                     | 0                         | 0                         | 492                        | 490   |
| 2030                         | 505  | 0                         | 0                             | 0                            | 505                          | 0   | 0                                     | 0                         | 0                         | 505                        | 578   |
| 2031                         | 517  | 0                         | 0                             | 0                            | 517                          | 0   | 0                                     | 0                         | 0                         | 517                        | 662   |
| 2032                         | 528  | 0                         | 0                             | 0                            | 528                          | 0   | 0                                     | 0                         | 0                         | 528                        | 742   |
| NOMINAL                      | 9,851  | 0                         | 1,050                         | 0                            | 10,901                       | 4,360                                     | 0                                     | 0                         | 4,360                     | 6,541                      |   |
| NPV:                         | 3,810  | 0                         | 975                           | 0                            | 4,785                        | 4,044                                     | 0                                     | 0                         | 4,044                     | 742                        |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

RATE IMPACT TEST  
PROGRAM: Residential Window Replacement

PSC FORM CE 2.5  
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| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)  | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|--|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>& FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 75                                     | 350                   | 27                           | 0                         | 452                       | 36   | 0                                       | 0                           | 0                            | 36                           | (416)   | (416)   |
| 2008           | 0                                       | 77                                     | 350                   | 82                           | 0                         | 509                       | 115  | 0                                       | 0                           | 0                            | 115                          | (393)   | (780)   |
| 2009           | 0                                       | 79                                     | 350                   | 137                          | 0                         | 566                       | 190  | 0                                       | 0                           | 0                            | 190                          | (376)   | (1103)  |
| 2010           | 0                                       | 0                                      | 0                     | 167                          | 0                         | 167                       | 540  | 0                                       | 0                           | 0                            | 540                          | 373   | (806)   |
| 2011           | 0                                       | 0                                      | 0                     | 168                          | 0                         | 168                       | 527  | 0                                       | 0                           | 0                            | 527                          | 359   | (541)   |
| 2012           | 0                                       | 0                                      | 0                     | 170                          | 0                         | 170                       | 522  | 0                                       | 0                           | 0                            | 522                          | 352   | (301)   |
| 2013           | 0                                       | 0                                      | 0                     | 172                          | 0                         | 172                       | 506  | 0                                       | 0                           | 0                            | 506                          | 335   | (88)  |
| 2014           | 0                                       | 0                                      | 0                     | 173                          | 0                         | 173                       | 509  | 0                                       | 0                           | 0                            | 509                          | 335   | 109   |
| 2015           | 0                                       | 0                                      | 0                     | 175                          | 0                         | 175                       | 500  | 0                                       | 0                           | 0                            | 500                          | 325   | 286   |
| 2016           | 0                                       | 0                                      | 0                     | 177                          | 0                         | 177                       | 501  | 0                                       | 0                           | 0                            | 501                          | 325   | 450   |
| 2017           | 0                                       | 0                                      | 0                     | 179                          | 0                         | 179                       | 502  | 0                                       | 0                           | 0                            | 502                          | 324   | 602   |
| 2018           | 0                                       | 0                                      | 0                     | 180                          | 0                         | 180                       | 517  | 0                                       | 0                           | 0                            | 517                          | 337   | 748   |
| 2019           | 0                                       | 0                                      | 0                     | 182                          | 0                         | 182                       | 550  | 0                                       | 0                           | 0                            | 550                          | 368   | 896   |
| 2020           | 0                                       | 0                                      | 0                     | 184                          | 0                         | 184                       | 563  | 0                                       | 0                           | 0                            | 563                          | 379   | 1037  |
| 2021           | 0                                       | 0                                      | 0                     | 186                          | 0                         | 186                       | 582  | 0                                       | 0                           | 0                            | 582                          | 396   | 1174  |
| 2022           | 0                                       | 0                                      | 0                     | 188                          | 0                         | 188                       | 598  | 0                                       | 0                           | 0                            | 598                          | 410   | 1306  |
| 2023           | 0                                       | 0                                      | 0                     | 190                          | 0                         | 190                       | 588  | 0                                       | 0                           | 0                            | 588                          | 399   | 1424  |
| 2024           | 0                                       | 0                                      | 0                     | 191                          | 0                         | 191                       | 587  | 0                                       | 0                           | 0                            | 587                          | 396   | 1533  |
| 2025           | 0                                       | 0                                      | 0                     | 193                          | 0                         | 193                       | 584  | 0                                       | 0                           | 0                            | 584                          | 390   | 1633  |
| 2026           | 0                                       | 0                                      | 0                     | 195                          | 0                         | 195                       | 587  | 0                                       | 0                           | 0                            | 587                          | 391   | 1726  |
| 2027           | 0                                       | 0                                      | 0                     | 197                          | 0                         | 197                       | 594  | 0                                       | 0                           | 0                            | 594                          | 397   | 1813  |
| 2028           | 0                                       | 0                                      | 0                     | 199                          | 0                         | 199                       | 603  | 0                                       | 0                           | 0                            | 603                          | 403   | 1895  |
| 2029           | 0                                       | 0                                      | 0                     | 201                          | 0                         | 201                       | 589  | 0                                       | 0                           | 0                            | 589                          | 387   | 1968  |
| 2030           | 0                                       | 0                                      | 0                     | 203                          | 0                         | 203                       | 626  | 0                                       | 0                           | 0                            | 626                          | 422   | 2041  |
| 2031           | 0                                       | 0                                      | 0                     | 205                          | 0                         | 205                       | 633  | 0                                       | 0                           | 0                            | 633                          | 428   | 2111  |
| 2032           | 0                                       | 0                                      | 0                     | 207                          | 0                         | 207                       | 636  | 0                                       | 0                           | 0                            | 636                          | 429   | 2175  |
| NOMINAL        | 0                                       | 231                                    | 1,050                 | 4,529                        | 0                         | 5,810                     | 13,284   | 0                                       | 0                           | 0                            | 13,284                       | 7,475   |   |
| NPV:           | 0                                       | 214                                    | 975                   | 1,844                        | 0                         | 3,033                     | 5,208  | 0                                       | 0                           | 0                            | 5,208                        | 2,175   |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:             |   | 1.72                        |                              |                              |   |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007



**INPUT DATA - PART 1**  
**PROGRAM TITLE: Residential Window Film**

PSC FORM CE 1.1  
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 RUN DATE: June 6, 2007

|   |                   |
|---|-------------------|
| <b>PROGRAM DEMAND SAVINGS &amp; LINE LOSSES</b> |                   |
| I. (1) CUSTOMER KW REDUCTION AT THE METER       | 0.220 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER      | 0.219 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                  | 6.6 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER    | 841 KWH/CUST/YR   |
| I. (5) KWH LINE LOSS PERCENTAGE                 | 6.0 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER               | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER   | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER         | 791 KWH/CUST/YR   |

|   |          |
|---|----------|
| <b>ECONOMIC LIFE &amp; K FACTORS</b>          |          |
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 20 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 1        |

|   |                 |
|---|-----------------|
| <b>UTILITY &amp; CUSTOMER COSTS</b>               |                 |
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 50.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |
| III. (4) CUSTOMER EQUIPMENT COST                  | 608.00 \$/CUST  |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 135.00 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |

|  |                 |
|--|-----------------|
| <b>AVOIDED GENERATOR, TRANS. &amp; DIST COSTS</b>    |                 |
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

|   |                 |
|---|-----------------|
| <b>NON-FUEL ENERGY AND DEMAND CHARGES</b>                               |                 |
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 4.342 CENTS/KWH |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %             |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 0.00 \$/KW/MO   |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %             |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 1               |

|                                      |      |
|--------------------------------------|------|
| <b>CALCULATED BENEFITS AND COSTS</b> |      |
| (1)* TRC TEST - BENEFIT/COST RATIO   | 1.13 |
| (2)* PARTICIPANT NET BENEFITS (NPV)  | 722  |
| (3)* RIM TEST - BENEFIT/COST RATIO   | 1.36 |

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TAMPA ELECTRIC COMPANY  
 DSM PROGRAM MODIFICATIONS  
 APPENDIX C  
 FILED: JUNE 15, 2007

TOTAL RESOURCE COST TESTS  
PROGRAM: Residential Window Film

PSC FORM CE 2.3  
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June 6, 2007

| (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) |
| 2007          | 0                              | 50                            | 608                                      | 0                   | 658                 | 0                                 | 0                              | 23                           | 0                      | 23                     | (635)                | (635)                                      |
| 2008          | 0                              | 51                            | 623                                      | 0                   | 674                 | 0                                 | 0                              | 74                           | 0                      | 74                     | (601)                | (1,192)                                    |
| 2009          | 0                              | 53                            | 639                                      | 0                   | 691                 | 0                                 | 0                              | 121                          | 0                      | 121                    | (570)                | (1,682)                                    |
| 2010          | 0                              | 0                             | 0  | 0                   | 0                   | 72                                | 0                              | 128                          | 0                      | 200                    | 200                  | (1,522)                                    |
| 2011          | 0                              | 0                             | 0  | 0                   | 0                   | 74                                | 0                              | 126                          | 0                      | 200                    | 200                  | (1,375)                                    |
| 2012          | 0                              | 0                             | 0  | 0                   | 0                   | 76                                | 0                              | 129                          | 0                      | 204                    | 204                  | (1,235)                                    |
| 2013          | 0                              | 0                             | 0  | 0                   | 0                   | 77                                | 0                              | 125                          | 0                      | 202                    | 202                  | (1,107)                                    |
| 2014          | 0                              | 0                             | 0  | 0                   | 0                   | 79                                | 0                              | 132                          | 0                      | 211                    | 211                  | (983)                                      |
| 2015          | 0                              | 0                             | 0  | 0                   | 0                   | 81                                | 0                              | 131                          | 0                      | 213                    | 213                  | (867)                                      |
| 2016          | 0                              | 0                             | 0  | 0                   | 0                   | 83                                | 0                              | 137                          | 0                      | 220                    | 220                  | (755)                                      |
| 2017          | 0                              | 0                             | 0  | 0                   | 0                   | 85                                | 0                              | 142                          | 0                      | 228                    | 228                  | (649)                                      |
| 2018          | 0                              | 0                             | 0  | 0                   | 0                   | 87                                | 0                              | 156                          | 0                      | 244                    | 244                  | (543)                                      |
| 2019          | 0                              | 0                             | 0  | 0                   | 0                   | 89                                | 0                              | 182                          | 0                      | 272                    | 272                  | (434)                                      |
| 2020          | 0                              | 0                             | 0  | 0                   | 0                   | 92                                | 0                              | 195                          | 0                      | 287                    | 287                  | (327)                                      |
| 2021          | 0                              | 0                             | 0  | 0                   | 0                   | 94                                | 0                              | 212                          | 0                      | 305                    | 305                  | (221)                                      |
| 2022          | 0                              | 0                             | 0  | 0                   | 0                   | 96                                | 0                              | 227                          | 0                      | 323                    | 323                  | (118)                                      |
| 2023          | 0                              | 0                             | 0  | 0                   | 0                   | 98                                | 0                              | 225                          | 0                      | 323                    | 323                  | (21)                                       |
| 2024          | 0                              | 0                             | 0  | 0                   | 0                   | 101                               | 0                              | 229                          | 0                      | 330                    | 330                  | 69   |
| 2025          | 0                              | 0                             | 0  | 0                   | 0                   | 103                               | 0                              | 230                          | 0                      | 333                    | 333                  | 154  |
| 2026          | 0                              | 0                             | 0  | 0                   | 0                   | 106                               | 0                              | 234                          | 0                      | 340                    | 340                  | 235  |
| NOMINAL       | 0                              | 154                           | 1,870                                    | 0                   | 2,024               | 1,494                             | 0                              | 3,159                        | 0                      | 4,653                  | 2,629                |  |
| NPV:          | 0                              | 143                           | 1,735                                    | 0                   | 1,877               | 665                               | 0                              | 1,447                        | 0                      | 2,112                  | 235                  |  |
| Discount Rate |                                | 0.0788                        | Benefit/Cost Ratio - [col (11)/col (6)]: |                     |                     |                                   | 1.13                           |                              |                        |                        |                      |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Residential Window Film

PSC FORM CE 2.4  
Page 1 of 1  
June 6, 2007

| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 34   | 0                         | 135                           | 0                            | 169                          | 608                                       | 0                                     | 0                         | 608                       | (439)                      | (439)   |
| 2008                         | 102  | 0                         | 135                           | 0                            | 237                          | 623                                       | 0                                     | 0                         | 623                       | (386)                      | (797)   |
| 2009                         | 170  | 0                         | 135                           | 0                            | 305                          | 639                                       | 0                                     | 0                         | 639                       | (334)                      | (1,084)   |
| 2010                         | 206  | 0                         | 0                             | 0                            | 206                          | 0   | 0                                     | 0                         | 0                         | 206                        | (919)   |
| 2011                         | 208  | 0                         | 0                             | 0                            | 208                          | 0   | 0                                     | 0                         | 0                         | 208                        | (766)   |
| 2012                         | 213  | 0                         | 0                             | 0                            | 213                          | 0   | 0                                     | 0                         | 0                         | 213                        | (620)   |
| 2013                         | 200  | 0                         | 0                             | 0                            | 200                          | 0   | 0                                     | 0                         | 0                         | 200                        | (493)   |
| 2014                         | 206  | 0                         | 0                             | 0                            | 206                          | 0   | 0                                     | 0                         | 0                         | 206                        | (372)   |
| 2015                         | 210  | 0                         | 0                             | 0                            | 210                          | 0   | 0                                     | 0                         | 0                         | 210                        | (258)   |
| 2016                         | 219  | 0                         | 0                             | 0                            | 219                          | 0   | 0                                     | 0                         | 0                         | 219                        | (147)   |
| 2017                         | 223  | 0                         | 0                             | 0                            | 223                          | 0   | 0                                     | 0                         | 0                         | 223                        | (43)  |
| 2018                         | 232  | 0                         | 0                             | 0                            | 232                          | 0   | 0                                     | 0                         | 0                         | 232                        | 58  |
| 2019                         | 241  | 0                         | 0                             | 0                            | 241                          | 0   | 0                                     | 0                         | 0                         | 241                        | 155   |
| 2020                         | 250  | 0                         | 0                             | 0                            | 250                          | 0   | 0                                     | 0                         | 0                         | 250                        | 248   |
| 2021                         | 257  | 0                         | 0                             | 0                            | 257                          | 0   | 0                                     | 0                         | 0                         | 257                        | 337   |
| 2022                         | 262  | 0                         | 0                             | 0                            | 262                          | 0   | 0                                     | 0                         | 0                         | 262                        | 421   |
| 2023                         | 271  | 0                         | 0                             | 0                            | 271                          | 0   | 0                                     | 0                         | 0                         | 271                        | 501   |
| 2024                         | 281  | 0                         | 0                             | 0                            | 281                          | 0   | 0                                     | 0                         | 0                         | 281                        | 579   |
| 2025                         | 287  | 0                         | 0                             | 0                            | 287                          | 0   | 0                                     | 0                         | 0                         | 287                        | 652   |
| 2026                         | 294  | 0                         | 0                             | 0                            | 294                          | 0   | 0                                     | 0                         | 0                         | 294                        | 722   |
| NOMINAL                      | 4,366  | 0                         | 405                           | 0                            | 4,771                        | 1,870                                     | 0                                     | 0                         | 1,870                     | 2,901                      |   |
| NPV:                         | 2,080  | 0                         | 376                           | 0                            | 2,456                        | 1,735                                     | 0                                     | 0                         | 1,735                     | 722                        |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007



**INPUT DATA - PART 1**  
**PROGRAM TITLE: Residential New Construction**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                   |
|---|-------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 0.528 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 0.572 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.6 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 1173 KWH/CUST/YR  |
| I. (5) KWH LINE LOSS PERCENTAGE               | 6.0 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 1103 KWH/CUST/YR  |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 21 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 1        |

**UTILITY & CUSTOMER COSTS**

|   |                 |
|---|-----------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 50.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |
| III. (4) CUSTOMER EQUIPMENT COST                  | 1093.00 \$/CUST |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 408.00 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

|   |                 |
|---|-----------------|
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 4.342 CENTS/KWH |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %             |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 0.00 \$/KW/MO   |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %             |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 1               |

**CALCULATED BENEFITS AND COSTS**

|                                     |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.19 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 506  |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.41 |

TOTAL RESOURCE COST TESTS  
PROGRAM: Residential New Construction

PSC FORM CE 2.3  
Page 1 of 1  
June 6, 2007

| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |  |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |  |
| 2007          | 0                                       | 25                                     | 547  | 0                         | 572                       | 0  | 0                                       | 16                                    | 0                            | 16                           | (556)                      | (556)  |  |
| 2008          | 0                                       | 26                                     | 560  | 0                         | 586                       | 0  | 0                                       | 51                                    | 0                            | 51                           | (534)                      | (1,051)  |  |
| 2009          | 0                                       | 26                                     | 574  | 0                         | 600                       | 0  | 0                                       | 85                                    | 0                            | 85                           | (516)                      | (1,494)  |  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 94   | 0                                       | 89                                    | 0                            | 183                          | 183                        | (1,348)  |  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 96   | 0                                       | 88                                    | 0                            | 184                          | 184                        | (1,212)  |  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 99   | 0                                       | 90                                    | 0                            | 188                          | 188                        | (1,084)  |  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 101  | 0                                       | 87                                    | 0                            | 188                          | 188                        | (964)  |  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 103  | 0                                       | 92                                    | 0                            | 195                          | 195                        | (848)  |  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 106  | 0                                       | 92                                    | 0                            | 197                          | 197                        | (742)  |  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 108  | 0                                       | 96                                    | 0                            | 204                          | 204                        | (639)  |  |
| 2017          | 0                                       | 0                                      | 0  | 0                         | 0                         | 111  | 0                                       | 99                                    | 0                            | 210                          | 210                        | (540)  |  |
| 2018          | 0                                       | 0                                      | 0  | 0                         | 0                         | 114  | 0                                       | 109                                   | 0                            | 223                          | 223                        | (443)  |  |
| 2019          | 0                                       | 0                                      | 0  | 0                         | 0                         | 117  | 0                                       | 127                                   | 0                            | 244                          | 244                        | (345)  |  |
| 2020          | 0                                       | 0                                      | 0  | 0                         | 0                         | 119  | 0                                       | 136                                   | 0                            | 256                          | 256                        | (250)  |  |
| 2021          | 0                                       | 0                                      | 0  | 0                         | 0                         | 122  | 0                                       | 148                                   | 0                            | 270                          | 270                        | (157)  |  |
| 2022          | 0                                       | 0                                      | 0  | 0                         | 0                         | 125  | 0                                       | 158                                   | 0                            | 283                          | 283                        | (68)   |  |
| 2023          | 0                                       | 0                                      | 0  | 0                         | 0                         | 128  | 0                                       | 157                                   | 0                            | 285                          | 285                        | 19   |  |
| 2024          | 0                                       | 0                                      | 0  | 0                         | 0                         | 131  | 0                                       | 160                                   | 0                            | 291                          | 291                        | 99   |  |
| 2025          | 0                                       | 0                                      | 0  | 0                         | 0                         | 135  | 0                                       | 181                                   | 0                            | 295                          | 295                        | 174  |  |
| 2026          | 0                                       | 0                                      | 0  | 0                         | 0                         | 138  | 0                                       | 163                                   | 0                            | 301                          | 301                        | 246  |  |
| 2027          | 0                                       | 0                                      | 0  | 0                         | 0                         | 141  | 0                                       | 168                                   | 0                            | 309                          | 309                        | 314  |  |
| NOMINAL       | 0                                       | 77                                     | 1,681                                      | 0                         | 1,758                     | 2,089                                      | 0                                       | 2,370                                 | 0                            | 4,459                        | 2,702                      |  |  |
| NPV:          | 0                                       | 71                                     | 1,559                                      | 0                         | 1,630                     | 898  | 0                                       | 1,046                                 | 0                            | 1,944                        | 314                        |  |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (6)]:   |                           |                           |  |   | 1.19                                  |                              |                              |                            |  |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Residential New Construction

PSC FORM CE 2.4  
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June 6, 2007

| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 24   | 0                         | 204                           | 0                            | 228                          | 547                                       | 0                                     | 0                         | 547                       | (319)                      | (319)   |
| 2008                         | 71   | 0                         | 204                           | 0                            | 275                          | 560                                       | 0                                     | 0                         | 560                       | (285)                      | (583)   |
| 2009                         | 118  | 0                         | 204                           | 0                            | 322                          | 574                                       | 0                                     | 0                         | 574                       | (252)                      | (799)   |
| 2010                         | 144  | 0                         | 0                             | 0                            | 144                          | 0   | 0                                     | 0                         | 0                         | 144                        | (685)   |
| 2011                         | 145  | 0                         | 0                             | 0                            | 145                          | 0   | 0                                     | 0                         | 0                         | 145                        | (578)   |
| 2012                         | 149  | 0                         | 0                             | 0                            | 149                          | 0   | 0                                     | 0                         | 0                         | 149                        | (476)   |
| 2013                         | 140  | 0                         | 0                             | 0                            | 140                          | 0   | 0                                     | 0                         | 0                         | 140                        | (387)   |
| 2014                         | 144  | 0                         | 0                             | 0                            | 144                          | 0   | 0                                     | 0                         | 0                         | 144                        | (309)   |
| 2015                         | 146  | 0                         | 0                             | 0                            | 146                          | 0   | 0                                     | 0                         | 0                         | 146                        | (223)   |
| 2016                         | 152  | 0                         | 0                             | 0                            | 152                          | 0   | 0                                     | 0                         | 0                         | 152                        | (146)   |
| 2017                         | 156  | 0                         | 0                             | 0                            | 156                          | 0   | 0                                     | 0                         | 0                         | 156                        | (73)  |
| 2018                         | 162  | 0                         | 0                             | 0                            | 162                          | 0   | 0                                     | 0                         | 0                         | 162                        | (9)   |
| 2019                         | 168  | 0                         | 0                             | 0                            | 168                          | 0   | 0                                     | 0                         | 0                         | 168                        | 64  |
| 2020                         | 174  | 0                         | 0                             | 0                            | 174                          | 0   | 0                                     | 0                         | 0                         | 174                        | 129   |
| 2021                         | 179  | 0                         | 0                             | 0                            | 179                          | 0   | 0                                     | 0                         | 0                         | 179                        | 191   |
| 2022                         | 183  | 0                         | 0                             | 0                            | 183                          | 0   | 0                                     | 0                         | 0                         | 183                        | 250   |
| 2023                         | 189  | 0                         | 0                             | 0                            | 189                          | 0   | 0                                     | 0                         | 0                         | 189                        | 306   |
| 2024                         | 196  | 0                         | 0                             | 0                            | 196                          | 0   | 0                                     | 0                         | 0                         | 196                        | 360   |
| 2025                         | 200  | 0                         | 0                             | 0                            | 200                          | 0   | 0                                     | 0                         | 0                         | 200                        | 411   |
| 2026                         | 205  | 0                         | 0                             | 0                            | 205                          | 0   | 0                                     | 0                         | 0                         | 205                        | 460   |
| 2027                         | 211  | 0                         | 0                             | 0                            | 211                          | 0   | 0                                     | 0                         | 0                         | 211                        | 506   |
| NOMINAL                      | 3,255  | 0                         | 612                           | 0                            | 3,867                        | 1,681                                     | 0                                     | 0                         | 1,681                     | 2,186                      |   |
| NPV:                         | 1,497  | 0                         | 568                           | 0                            | 2,065                        | 1,559                                     | 0                                     | 0                         | 1,559                     | 506                        |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

RATE IMPACT TEST  
PROGRAM: Residential New Construction

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| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)   | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|---|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 25                                     | 204                   | 12                           | 0                         | 241                       | 16  | 0                                       | 0                           | 0                            | 16                           | (225)   | (225)   |
| 2008           | 0                                       | 26                                     | 204                   | 36                           | 0                         | 266                       | 51  | 0                                       | 0                           | 0                            | 51                           | (215)   | (424)   |
| 2009           | 0                                       | 26                                     | 204                   | 61                           | 0                         | 291                       | 85  | 0                                       | 0                           | 0                            | 85                           | (207)   | (602)   |
| 2010           | 0                                       | 0                                      | 0                     | 74                           | 0                         | 74                        | 183   | 0                                       | 0                           | 0                            | 183                          | 109   | (515)   |
| 2011           | 0                                       | 0                                      | 0                     | 75                           | 0                         | 75                        | 184   | 0                                       | 0                           | 0                            | 184                          | 109   | (434)   |
| 2012           | 0                                       | 0                                      | 0                     | 76                           | 0                         | 76                        | 188   | 0                                       | 0                           | 0                            | 188                          | 113   | (357)   |
| 2013           | 0                                       | 0                                      | 0                     | 76                           | 0                         | 76                        | 188   | 0                                       | 0                           | 0                            | 188                          | 112   | (286)   |
| 2014           | 0                                       | 0                                      | 0                     | 77                           | 0                         | 77                        | 195   | 0                                       | 0                           | 0                            | 195                          | 118   | (216)   |
| 2015           | 0                                       | 0                                      | 0                     | 78                           | 0                         | 78                        | 197   | 0                                       | 0                           | 0                            | 197                          | 120   | (151)   |
| 2016           | 0                                       | 0                                      | 0                     | 79                           | 0                         | 79                        | 204   | 0                                       | 0                           | 0                            | 204                          | 126   | (88)  |
| 2017           | 0                                       | 0                                      | 0                     | 79                           | 0                         | 79                        | 210   | 0                                       | 0                           | 0                            | 210                          | 131   | (26)  |
| 2018           | 0                                       | 0                                      | 0                     | 80                           | 0                         | 80                        | 223   | 0                                       | 0                           | 0                            | 223                          | 143   | 36  |
| 2019           | 0                                       | 0                                      | 0                     | 81                           | 0                         | 81                        | 244   | 0                                       | 0                           | 0                            | 244                          | 163   | 101   |
| 2020           | 0                                       | 0                                      | 0                     | 82                           | 0                         | 82                        | 256   | 0                                       | 0                           | 0                            | 256                          | 174   | 166   |
| 2021           | 0                                       | 0                                      | 0                     | 83                           | 0                         | 83                        | 270   | 0                                       | 0                           | 0                            | 270                          | 187   | 231   |
| 2022           | 0                                       | 0                                      | 0                     | 83                           | 0                         | 83                        | 283   | 0                                       | 0                           | 0                            | 283                          | 200   | 295   |
| 2023           | 0                                       | 0                                      | 0                     | 84                           | 0                         | 84                        | 285   | 0                                       | 0                           | 0                            | 285                          | 201   | 355   |
| 2024           | 0                                       | 0                                      | 0                     | 85                           | 0                         | 85                        | 291   | 0                                       | 0                           | 0                            | 291                          | 206   | 411   |
| 2025           | 0                                       | 0                                      | 0                     | 86                           | 0                         | 86                        | 295   | 0                                       | 0                           | 0                            | 295                          | 209   | 465   |
| 2026           | 0                                       | 0                                      | 0                     | 87                           | 0                         | 87                        | 301   | 0                                       | 0                           | 0                            | 301                          | 214   | 515   |
| 2027           | 0                                       | 0                                      | 0                     | 88                           | 0                         | 88                        | 309   | 0                                       | 0                           | 0                            | 309                          | 221   | 564   |
| NOMINAL        | 0                                       | 77                                     | 612                   | 1,561                        | 0                         | 2,250                     | 4,459   | 0                                       | 0                           | 0                            | 4,459                        | 2,209   |   |
| NPV:           | 0                                       | 71                                     | 568                   | 740                          | 0                         | 1,380                     | 1,944   | 0                                       | 0                           | 0                            | 1,944                        | 564   |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:                  |   |                             | 1.41                         |                              |   |   |

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**INPUT DATA - PART 1**  
**PROGRAM TITLE: Residential Low Income Weatherization**

|   |                   |  |  |
|---|-------------------|--|--|
| <b>PROGRAM DEMAND SAVINGS &amp; LINE LOSSES</b>                         |                   |  |  |
| I. (1) CUSTOMER KWH REDUCTION AT THE METER                              | 1,340 KW /CUST    |  |  |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER                              | 0.508 KW GEN/CUST |  |  |
| I. (3) KW LINE LOSS PERCENTAGE  | 6.6 %             |  |  |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER                            | 1816 KWH/CUST/YR  |  |  |
| I. (5) KWH LINE LOSS PERCENTAGE   | 6.0 %             |  |  |
| I. (6) GROUP LINE LOSS MULTIPLIER                                       | 1                 |  |  |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER                           | 0 KWH/CUST/YR     |  |  |
| I. (8)* CUSTOMER KWH REDUCTION AT METER                                 | 1707 KWH/CUST/YR  |  |  |
| <b>ECONOMIC LIFE &amp; K FACTORS</b>                                    |                   |  |  |
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM                           | 10 YEARS          |  |  |
| II. (2) GENERATOR ECONOMIC LIFE   | 26 YEARS          |  |  |
| II. (3) T & D ECONOMIC LIFE   | 26 YEARS          |  |  |
| II. (4) K FACTOR FOR GENERATION   | 1.5983            |  |  |
| II. (5) K FACTOR FOR T & D  | 1.5983            |  |  |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)                            | 1                 |  |  |
| <b>UTILITY &amp; CUSTOMER COSTS</b>                                     |                   |  |  |
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER                         | 70.00 \$/CUST     |  |  |
| III. (2) UTILITY RECURRING COST PER CUSTOMER                            | 0.00 \$/CUST/YR   |  |  |
| III. (3) UTILITY COST ESCALATION RATE                                   | 2.5 %             |  |  |
| III. (4) CUSTOMER EQUIPMENT ESCALATION RATE                             | 0.00 \$/CUST      |  |  |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE                             | 2.5 %             |  |  |
| III. (6) CUSTOMER O & M COST  | 0 \$/CUST/YR      |  |  |
| III. (7) CUSTOMER O & M ESCALATION RATE                                 | 2.5 %             |  |  |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION                          | 0 \$/CUST         |  |  |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE                           | 0 %               |  |  |
| III. (10)* INCREASED SUPPLY COSTS                                       | 0 \$/CUST/YR      |  |  |
| III. (11)* SUPPLY COSTS ESCALATION RATE                                 | 0 %               |  |  |
| III. (12)* UTILITY DISCOUNT RATE  | 0.0788            |  |  |
| III. (13)* UTILITY ARIUDC RATE  | 0.0779            |  |  |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE                       | 180.00 \$/CUST    |  |  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE                           | 0.00 \$/CUST/YR   |  |  |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE                          | 0 %               |  |  |
| <b>AVOIDED GENERATOR, TRANS. &amp; DIST COSTS</b>                       |                   |  |  |
| IV. (1) BASE YEAR   | 2007              |  |  |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT                     | 2010              |  |  |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D                               | 2010              |  |  |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST                          | 574.13 \$/KW      |  |  |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST                             | 0 \$/KW           |  |  |
| IV. (6) BASE YEAR DISTRIBUTION COST                                     | 0 \$/KW           |  |  |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE                          | 2.3 %             |  |  |
| IV. (8) GENERATOR FIXED O & M COST                                      | 8.87 \$/KW/YR     |  |  |
| IV. (9) GENERATOR O&M ESCALATION RATE                                   | 2.3 %             |  |  |
| IV. (10) TRANSMISSION FIXED O & M COST                                  | 0 \$/KW/YR        |  |  |
| IV. (11) DISTRIBUTION FIXED O & M COST                                  | 0 \$/KW/YR        |  |  |
| IV. (12) T&D FIXED O&M ESCALATION RATE                                  | 2.3 %             |  |  |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS                          | 0.272 CENTS/KWH   |  |  |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE                    | 2.3 %             |  |  |
| IV. (15) GENERATOR CAPACITY FACTOR                                      | 5.6 %             |  |  |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST                              | 2.72 CENTS/KWH    |  |  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE                          | 3.16 %            |  |  |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW                         | 0 \$/KW/YR        |  |  |
| IV. (19)* CAPACITY COST ESCALATION RATE                                 | 0 %               |  |  |
| <b>NON-FUEL ENERGY AND DEMAND CHARGES</b>                               |                   |  |  |
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 4.342 CENTS/KWH   |  |  |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %               |  |  |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 0.00 \$/KW/MO     |  |  |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %               |  |  |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 1                 |  |  |
| <b>CALCULATED BENEFITS AND COSTS</b>                                    |                   |  |  |
| (1)* TRC TEST - BENEFIT/COST RATIO                                      | 12.25             |  |  |
| (2)* PARTICIPANT NET BENEFITS (NPV)                                     | 238               |  |  |
| (3)* RIM TEST - BENEFIT/COST RATIO                                      | 1.20              |  |  |

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TOTAL RESOURCE COST TESTS  
 PROGRAM: Residential Low Income Weatherization

| (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) |
| 2007          | 0                              | 4                             | 0                                 | 0                   | 4                   | 0                                 | 0                              | 3                            | 0                      | 3                      | 3                    | (1)  |
| 2008          | 0                              | 5                             | 0                                 | 0                   | 5                   | 0                                 | 0                              | 10                           | 0                      | 10                     | 5                    | 3  |
| 2009          | 0                              | 7                             | 0                                 | 0                   | 7                   | 0                                 | 0                              | 19                           | 0                      | 19                     | 12                   | 14   |
| 2010          | 0                              | 0                             | 0                                 | 0                   | 0                   | 13                                | 0                              | 22                           | 0                      | 35                     | 35                   | 41   |
| 2011          | 0                              | 0                             | 0                                 | 0                   | 0                   | 13                                | 0                              | 21                           | 0                      | 35                     | 35                   | 67   |
| 2012          | 0                              | 0                             | 0                                 | 0                   | 0                   | 14                                | 0                              | 22                           | 0                      | 35                     | 35                   | 91   |
| 2013          | 0                              | 0                             | 0                                 | 0                   | 0                   | 14                                | 0                              | 21                           | 0                      | 35                     | 35                   | 113  |
| 2014          | 0                              | 0                             | 0                                 | 0                   | 0                   | 14                                | 0                              | 22                           | 0                      | 37                     | 37                   | 135  |
| 2015          | 0                              | 0                             | 0                                 | 0                   | 0                   | 15                                | 0                              | 22                           | 0                      | 37                     | 37                   | 155  |
| 2016          | 0                              | 0                             | 0                                 | 0                   | 0                   | 15                                | 0                              | 23                           | 0                      | 38                     | 38                   | 174  |
| NOMINAL       | 0                              | 17                            | 0                                 | 0                   | 17                  | 98                                | 0                              | 188                          | 0                      | 284                    | 267                  |  |
| NPV:          | 0                              | 16                            | 0                                 | 0                   | 16                  | 63                                | 0                              | 127                          | 0                      | 190                    | 174                  |  |
| Discount Rate |                                |                               |                                   |                     |                     |                                   |                                |                              |                        |                        |                      |  |
|               |                                | 0.0788                        |                                   |                     |                     |                                   |                                |                              |                        |                        |                      |  |
|               |                                |                               |                                   |                     |                     |                                   | 12.25                          |                              |                        |                        |                      |  |
|               |                                |                               |                                   |                     |                     |                                   |                                |                              |                        |                        |                      |  |
|               |                                |                               |                                   |                     |                     |                                   |                                |                              |                        |                        |                      |  |

PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Residential Low Income Weatherization

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| (1)                          | (2)                                   | (3)            | (4)                | (5)               | (6)               | (7)                            | (8)                        | (9)            | (10)           | (11)            | (12)                                     |
|------------------------------|---------------------------------------|----------------|--------------------|-------------------|-------------------|--------------------------------|----------------------------|----------------|----------------|-----------------|--|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL | TAX<br>CREDITS | UTILITY<br>REBATES | OTHER<br>BENEFITS | TOTAL<br>BENEFITS | CUSTOMER<br>EQUIPMENT<br>COSTS | CUSTOMER<br>O & M<br>COSTS | OTHER<br>COSTS | TOTAL<br>COSTS | NET<br>BENEFITS | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS |
|                              | \$(000)                               | \$(000)        | \$(000)            | \$(000)           | \$(000)           | \$(000)                        | \$(000)                    | \$(000)        | \$(000)        | \$(000)         | \$(000)                                  |
| 2007                         | 4                                     | 0              | 11                 | 0                 | 15                | 0                              | 0                          | 0              | 0              | 15              | 15                                       |
| 2008                         | 14                                    | 0              | 14                 | 0                 | 28                | 0                              | 0                          | 0              | 0              | 28              | 41                                       |
| 2009                         | 27                                    | 0              | 18                 | 0                 | 45                | 0                              | 0                          | 0              | 0              | 45              | 80                                       |
| 2010                         | 35                                    | 0              | 0                  | 0                 | 35                | 0                              | 0                          | 0              | 0              | 35              | 108                                      |
| 2011                         | 35                                    | 0              | 0                  | 0                 | 35                | 0                              | 0                          | 0              | 0              | 35              | 133                                      |
| 2012                         | 36                                    | 0              | 0                  | 0                 | 36                | 0                              | 0                          | 0              | 0              | 36              | 158                                      |
| 2013                         | 34                                    | 0              | 0                  | 0                 | 34                | 0                              | 0                          | 0              | 0              | 34              | 180                                      |
| 2014                         | 35                                    | 0              | 0                  | 0                 | 35                | 0                              | 0                          | 0              | 0              | 35              | 200                                      |
| 2015                         | 35                                    | 0              | 0                  | 0                 | 35                | 0                              | 0                          | 0              | 0              | 35              | 219                                      |
| 2016                         | 37                                    | 0              | 0                  | 0                 | 37                | 0                              | 0                          | 0              | 0              | 37              | 238                                      |
| NOMINAL                      | 298                                   | 0              | 42                 | 0                 | 335               | 0                              | 0                          | 0              | 0              | 335             |  |
| NPV:                         | 199                                   | 0              | 39                 | 0                 | 238               | 0                              | 0                          | 0              | 0              | 238             |  |
| In service year of gen unit: |                                       |                | 2004               |                   |                   |                                |                            |                |                |                 |  |
| Discount rate:               |                                       |                | 0.0788             |                   |                   |                                |                            |                |                |                 |  |

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RATE IMPACT TEST  
 PROGRAM: Residential Low Income Weatherization

| (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) |
| 2007           | 0  | 4                             | 11                 | 2                      | 0                   | 17                  | 3  | 0                              | 0                     | 0                      | 3                      | (14)                                  | (14)                                      |
| 2008           | 0  | 5                             | 14                 | 7                      | 0                   | 26                  | 10                                       | 0                              | 0                     | 0                      | 10                     | (18)                                  | (29)                                      |
| 2009           | 0  | 7                             | 18                 | 14                     | 0                   | 39                  | 19                                       | 0                              | 0                     | 0                      | 19                     | (20)                                  | (46)                                      |
| 2010           | 0  | 0                             | 0                  | 18                     | 0                   | 18                  | 35                                       | 0                              | 0                     | 0                      | 35                     | 17                                    | (33)                                      |
| 2011           | 0  | 0                             | 0                  | 18                     | 0                   | 18                  | 35                                       | 0                              | 0                     | 0                      | 35                     | 16                                    | (21)                                      |
| 2012           | 0  | 0                             | 0                  | 18                     | 0                   | 18                  | 35                                       | 0                              | 0                     | 0                      | 35                     | 17                                    | (9)                                       |
| 2013           | 0  | 0                             | 0                  | 18                     | 0                   | 18                  | 35                                       | 0                              | 0                     | 0                      | 35                     | 17                                    | 2   |
| 2014           | 0  | 0                             | 0                  | 19                     | 0                   | 19                  | 37                                       | 0                              | 0                     | 0                      | 37                     | 18                                    | 12  |
| 2015           | 0  | 0                             | 0                  | 19                     | 0                   | 19                  | 37                                       | 0                              | 0                     | 0                      | 37                     | 18                                    | 22  |
| 2016           | 0  | 0                             | 0                  | 19                     | 0                   | 19                  | 38                                       | 0                              | 0                     | 0                      | 38                     | 19                                    | 32  |
| NOMINAL        | 0  | 17                            | 42                 | 153                    | 0                   | 212                 | 284                                      | 0                              | 0                     | 0                      | 284                    | 72                                    |   |
| NPV:           | 0  | 16                            | 39                 | 104                    | 0                   | 158                 | 190                                      | 0                              | 0                     | 0                      | 190                    | 32                                    |   |
| Discount rate: | Benefit/Cost Ratio - [col (12)/col (7)]: |                               |                    |                        |                     |                     |  |                                |                       |                        |                        |                                       | 1.20                                      |

**INPUT DATA - PART 1**  
**PROGRAM TITLE: Commercial Duct Repair**

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**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                   |
|---|-------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 0.474 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 0.491 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 726 KWH/CUST/YR   |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 684 KWH/CUST/YR   |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 26 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 0        |

**UTILITY & CUSTOMER COSTS**

|   |                 |
|---|-----------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 50.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |
| III. (4) CUSTOMER EQUIPMENT COST                  | 450.00 \$/CUST  |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 200.00 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

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

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 2.34 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 21   |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.37 |

TOTAL RESOURCE COST TESTS  
PROGRAM: Commercial Duct Repair

PSC FORM CE 2.3  
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June 8, 2007

| (1)           | (2)                               | (3)                              | (4)                                      | (5)                    | (6)                    | (7)                                  | (8)                               | (9)                             | (10)                      | (11)                      | (12)                    | (13)  |  |
|---------------|-----------------------------------|----------------------------------|--|------------------------|------------------------|--------------------------------------|-----------------------------------|---------------------------------|---------------------------|---------------------------|-------------------------|---|--|
| YEAR          | INCREASED SUPPLY COSTS<br>\$(000) | UTILITY PROGRAM COSTS<br>\$(000) | PARTICIPANT PROGRAM COSTS<br>\$(000)     | OTHER COSTS<br>\$(000) | TOTAL COSTS<br>\$(000) | AVOIDED GEN UNIT BENEFITS<br>\$(000) | AVOIDED T & D BENEFITS<br>\$(000) | PROGRAM FUEL SAVINGS<br>\$(000) | OTHER BENEFITS<br>\$(000) | TOTAL BENEFITS<br>\$(000) | NET BENEFITS<br>\$(000) | CUMULATIVE DISCOUNTED NET BENEFITS<br>\$(000) |  |
| 2007          | 0                                 | 1                                | 5  | 0                      | 5                      | 0                                    | 0                                 | 0                               | 0                         | 0                         | (5)                     | (5)   |  |
| 2008          | 0                                 | 1                                | 5  | 0                      | 5                      | 0                                    | 0                                 | 1                               | 0                         | 1                         | (4)                     | (9)   |  |
| 2009          | 0                                 | 1                                | 5  | 0                      | 5                      | 0                                    | 0                                 | 1                               | 0                         | 1                         | (4)                     | (13)  |  |
| 2010          | 0                                 | 0                                | 0  | 0                      | 0                      | 3                                    | 0                                 | 1                               | 0                         | 4                         | 4                       | (10)  |  |
| 2011          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 1                               | 0                         | 4                         | 4                       | (7)   |  |
| 2012          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 1                               | 0                         | 3                         | 3                       | (5)   |  |
| 2013          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 1                               | 0                         | 3                         | 3                       | (3)   |  |
| 2014          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 1                               | 0                         | 3                         | 3                       | (1)   |  |
| 2015          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 1                               | 0                         | 3                         | 3                       | 1   |  |
| 2016          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 1                               | 0                         | 3                         | 3                       | 3   |  |
| 2017          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 1                               | 0                         | 3                         | 3                       | 4   |  |
| 2018          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 1                               | 0                         | 3                         | 3                       | 6   |  |
| 2019          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 7   |  |
| 2020          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 9   |  |
| 2021          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 10  |  |
| 2022          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 11  |  |
| 2023          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 12  |  |
| 2024          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 13  |  |
| 2025          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 14  |  |
| 2026          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 15  |  |
| 2027          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 16  |  |
| 2028          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 17  |  |
| 2029          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 17  |  |
| 2030          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 18  |  |
| 2031          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 19  |  |
| 2032          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 2                               | 0                         | 4                         | 4                       | 19  |  |
| NOMINAL       | 0                                 | 2                                | 14                                       | 0                      | 15                     | 44                                   | 0                                 | 41                              | 0                         | 84                        | 69                      |   |  |
| NPV:          | 0                                 | 1                                | 13                                       | 0                      | 14                     | 18                                   | 0                                 | 15                              | 0                         | 33                        | 19                      |   |  |
| Discount Rate |                                   | 0.0788                           | Benefit/Cost Ratio - [col (11)/col (6)]: |                        |                        |                                      | 2.34                              |                                 |                           |                           |                         |   |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
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PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Commercial Duct Repair

PSC FORM CE 2.4  
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June 6, 2007

| (1)                          | (2)   | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|---|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANT'S<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 0   | 0                         | 2                             | 0                            | 2                            | 5   | 0                                     | 0                         | 5                         | (2)                        | (2)   |
| 2008                         | 1   | 0                         | 2                             | 0                            | 3                            | 5   | 0                                     | 0                         | 5                         | (1)                        | (3)   |
| 2009                         | 2   | 0                         | 2                             | 0                            | 4                            | 5   | 0                                     | 0                         | 5                         | (1)                        | (4)   |
| 2010                         | 2   | 0                         | 0                             | 0                            | 2                            | 0   | 0                                     | 0                         | 0                         | 2                          | (2)   |
| 2011                         | 2   | 0                         | 0                             | 0                            | 2                            | 0   | 0                                     | 0                         | 0                         | 2                          | (0)   |
| 2012                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 1   |
| 2013                         | 2   | 0                         | 0                             | 0                            | 2                            | 0   | 0                                     | 0                         | 0                         | 2                          | 3   |
| 2014                         | 2   | 0                         | 0                             | 0                            | 2                            | 0   | 0                                     | 0                         | 0                         | 2                          | 4   |
| 2015                         | 2   | 0                         | 0                             | 0                            | 2                            | 0   | 0                                     | 0                         | 0                         | 2                          | 6   |
| 2016                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 7   |
| 2017                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 8   |
| 2018                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 9   |
| 2019                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 11  |
| 2020                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 12  |
| 2021                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 13  |
| 2022                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 14  |
| 2023                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 15  |
| 2024                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 15  |
| 2025                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 16  |
| 2026                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 17  |
| 2027                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 18  |
| 2028                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 18  |
| 2029                         | 3   | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 19  |
| 2030                         | 4   | 0                         | 0                             | 0                            | 4                            | 0   | 0                                     | 0                         | 0                         | 4                          | 20  |
| 2031                         | 4   | 0                         | 0                             | 0                            | 4                            | 0   | 0                                     | 0                         | 0                         | 4                          | 20  |
| 2032                         | 4   | 0                         | 0                             | 0                            | 4                            | 0   | 0                                     | 0                         | 0                         | 4                          | 21  |
| NOMINAL                      | 72  | 0                         | 6                             | 0                            | 78                           | 14  | 0                                     | 0                         | 14                        | 64                         |   |
| NPV:                         | 28  | 0                         | 6                             | 0                            | 34                           | 13  | 0                                     | 0                         | 13                        | 21                         |   |
| In service year of gen unit: |   |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |   |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
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RATE IMPACT TEST  
 PROGRAM: Commercial Duct Repair

PSC FORM CE 2.5  
 Page 1 of 1  
 June 6, 2007

| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)  | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|--|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>& FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 1                                      | 2                     | 0                            | 0                         | 3                         | 0  | 0                                       | 0                           | 0                            | 0                            | (3)   | (3)   |
| 2008           | 0                                       | 1                                      | 2                     | 1                            | 0                         | 3                         | 1  | 0                                       | 0                           | 0                            | 1                            | (3)   | (5)   |
| 2009           | 0                                       | 1                                      | 2                     | 1                            | 0                         | 4                         | 1  | 0                                       | 0                           | 0                            | 1                            | (3)   | (7)   |
| 2010           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | (8)   |
| 2011           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | (4)   |
| 2012           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 3  | 0                                       | 0                           | 0                            | 3                            | 2   | (3)   |
| 2013           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 3  | 0                                       | 0                           | 0                            | 3                            | 2   | (2)   |
| 2014           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 3  | 0                                       | 0                           | 0                            | 3                            | 2   | (1)   |
| 2015           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 3  | 0                                       | 0                           | 0                            | 3                            | 2   | 0   |
| 2016           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 3  | 0                                       | 0                           | 0                            | 3                            | 2   | 1   |
| 2017           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 3  | 0                                       | 0                           | 0                            | 3                            | 2   | 2   |
| 2018           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 3  | 0                                       | 0                           | 0                            | 3                            | 2   | 2   |
| 2019           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 3   |
| 2020           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 4   |
| 2021           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 4   |
| 2022           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 5   |
| 2023           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 6   |
| 2024           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 6   |
| 2025           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 7   |
| 2026           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 7   |
| 2027           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 7   |
| 2028           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 8   |
| 2029           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 8   |
| 2030           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 8   |
| 2031           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 8   |
| 2032           | 0                                       | 0                                      | 0                     | 2                            | 0                         | 2                         | 4  | 0                                       | 0                           | 0                            | 4                            | 2   | 9   |
| NOMINAL        | 0                                       | 2                                      | 6                     | 43                           | 0                         | 50                        | 84   | 0                                       | 0                           | 0                            | 84                           | 34  |   |
| NPV:           | 0                                       | 1                                      | 6                     | 17                           | 0                         | 24                        | 33   | 0                                       | 0                           | 0                            | 33                           | 9   |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           |  |   |                             | 1.37                         |                              |   |   |

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TAMPA ELECTRIC COMPANY  
 DSM PROGRAM MODIFICATIONS  
 APPENDIX C  
 FILED: JUNE 15, 2007



**INPUT DATA - PART 1**  
**PROGRAM TITLE: Commercial Solar Window Film**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

- PROGRAM DEMAND SAVINGS & LINE LOSSES**
- I. (1) CUSTOMER KW REDUCTION AT THE METER
  - I. (2) GENERATOR KW REDUCTION PER CUSTOMER
  - I. (3) KW LINE LOSS PERCENTAGE
  - I. (4) GENERATION KWH REDUCTION PER CUSTOMER
  - I. (5) KWH LINE LOSS PERCENTAGE
  - I. (6) GROUP LINE LOSS MULTIPLIER
  - I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER
  - I. (8)\* CUSTOMER KWH REDUCTION AT METER

0.835 KW /CUST  
 0.832 KW GEN/CUST  
 6.5 %  
 3896 KWH/CUST/YR  
 5.8 %  
 1  
 0 KWH/CUST/YR  
 3670 KWH/CUST/YR

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

15 YEARS  
 26 YEARS  
 26 YEARS  
 1.5983  
 1.5983  
 1

- UTILITY & CUSTOMER COSTS**
- III. (1) UTILITY NONRECURRING COST PER CUSTOMER
  - III. (2) UTILITY RECURRING COST PER CUSTOMER
  - III. (3) UTILITY COST ESCALATION RATE
  - III. (4) CUSTOMER EQUIPMENT COST
  - III. (5) CUSTOMER EQUIPMENT ESCALATION RATE
  - III. (6) CUSTOMER O & M COST
  - III. (7) CUSTOMER O & M ESCALATION RATE
  - III. (8)\* CUSTOMER TAX CREDIT PER INSTALLATION
  - III. (9)\* CUSTOMER TAX CREDIT ESCALATION RATE
  - III. (10)\* INCREASED SUPPLY COSTS
  - III. (11)\* SUPPLY COSTS ESCALATION RATE
  - III. (12)\* UTILITY DISCOUNT RATE
  - III. (13)\* UTILITY AFUDC RATE
  - III. (14)\* UTILITY NON RECURRING REBATE/INCENTIVE
  - III. (15)\* UTILITY RECURRING REBATE/INCENTIVE
  - III. (16)\* UTILITY REBATE/INCENTIVE ESCAL RATE

50.00 \$/CUST  
 0.00 \$/CUST/YR  
 2.5 %  
 1980.00 \$/CUST  
 2.5 %  
 0 \$/CUST/YR  
 2.5 %  
 0 \$/CUST  
 0 %  
 0 \$/CUST/YR  
 0 %  
 0.0788  
 0.0779  
 440.00 \$/CUST  
 0.00 \$/CUST/YR  
 0 %

- AVOIDED GENERATOR, TRANS. & DIST COSTS**
- IV. (1) BASE YEAR
  - IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT
  - IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D
  - IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST
  - IV. (5) BASE YEAR AVOIDED TRANSMISSION COST
  - IV. (6) BASE YEAR DISTRIBUTION COST
  - IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE
  - IV. (8) GENERATOR FIXED O & M COST
  - IV. (9) GENERATOR FIXED O&M ESCALATION RATE
  - IV. (10) TRANSMISSION FIXED O & M COST
  - IV. (11) DISTRIBUTION FIXED O & M COST
  - IV. (12) T&D FIXED O&M ESCALATION RATE
  - IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS
  - IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE
  - IV. (15) GENERATOR CAPACITY FACTOR
  - IV. (16) AVOIDED GENERATING UNIT FUEL COST
  - IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE
  - IV. (18)\* AVOIDED PURCHASE CAPACITY COST PER KW
  - IV. (19)\* CAPACITY COST ESCALATION RATE

2007  
 2010  
 2010  
 674.13 \$/KW  
 0 \$/KW  
 0 \$/KW  
 2.3 %  
 8.87 \$/KW/YR  
 2.3 %  
 0 \$/KW/YR  
 0 \$/KW/YR  
 2.3 %  
 0.272 CENTS/KWH  
 2.3 %  
 5.6 %  
 2.72 CENTS/KWH  
 3.16 %  
 0 \$/KW/YR  
 0 %

- NON-FUEL ENERGY AND DEMAND CHARGES**
- V. (1) NON-FUEL COST IN CUSTOMER BILL
  - V. (2) NON-FUEL ESCALATION RATE
  - V. (3) CUSTOMER DEMAND CHARGE PER KW
  - V. (4) DEMAND CHARGE ESCALATION RATE
  - V. (5)\* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL

1.370 CENTS/KWH  
 1 %  
 7.25 \$/KW/MO  
 1 %  
 1

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.24 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 38   |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.61 |

**TAMPA ELECTRIC COMPANY**  
**DSM PROGRAM MODIFICATIONS**  
**APPENDIX C**  
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TOTAL RESOURCE COST TESTS  
PROGRAM: Commercial Solar Window Film

PSC FORM CE 2.3  
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| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |  |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |  |
| 2007          | 0                                       | 1                                      | 30   | 0                         | 30                        | 0  | 0                                       | 2                                     | 0                            | 2                            | (29)                       | (29)   |  |
| 2008          | 0                                       | 1                                      | 30   | 0                         | 31                        | 0  | 0                                       | 5                                     | 0                            | 5                            | (26)                       | (53)   |  |
| 2009          | 0                                       | 1                                      | 31   | 0                         | 32                        | 0  | 0                                       | 8                                     | 0                            | 8                            | (24)                       | (73)   |  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 9                                     | 0                            | 13                           | 13                         | (63)   |  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 9                                     | 0                            | 13                           | 13                         | (53)   |  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 9                                     | 0                            | 13                           | 13                         | (44)   |  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 9                                     | 0                            | 13                           | 13                         | (36)   |  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 9                                     | 0                            | 14                           | 14                         | (28)   |  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 9                                     | 0                            | 14                           | 14                         | (21)   |  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 10                                    | 0                            | 14                           | 14                         | (13)   |  |
| 2017          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 10                                    | 0                            | 15                           | 15                         | (7)  |  |
| 2018          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 11                                    | 0                            | 16                           | 16                         | 0  |  |
| 2019          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 13                                    | 0                            | 18                           | 18                         | 7  |  |
| 2020          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 14                                    | 0                            | 19                           | 19                         | 14   |  |
| 2021          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 15                                    | 0                            | 20                           | 20                         | 21   |  |
| NOMINAL       | 0                                       | 2                                      | 91   | 0                         | 94                        | 56   | 0                                       | 140                                   | 0                            | 196                          | 102                        |  |  |
| NPV:          | 0                                       | 2                                      | 85   | 0                         | 87                        | 30   | 0                                       | 78                                    | 0                            | 108                          | 21                         |  |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (8)]:   |                           |                           |  |   | 1.24                                  |                              |                              |                            |  |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Commercial Solar Window Film

PSC FORM CE 2.4  
Page 1 of 1  
June 6, 2007

| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 2  | 0                         | 7                             | 0                            | 9                            | 30  | 0                                     | 0                         | 30                        | (21)                       | (21)  |
| 2008                         | 6  | 0                         | 7                             | 0                            | 13                           | 30  | 0                                     | 0                         | 30                        | (18)                       | (37)  |
| 2009                         | 10   | 0                         | 7                             | 0                            | 17                           | 31  | 0                                     | 0                         | 31                        | (14)                       | (49)  |
| 2010                         | 13   | 0                         | 0                             | 0                            | 13                           | 0   | 0                                     | 0                         | 0                         | 13                         | (39)  |
| 2011                         | 13   | 0                         | 0                             | 0                            | 13                           | 0   | 0                                     | 0                         | 0                         | 13                         | (30)  |
| 2012                         | 13   | 0                         | 0                             | 0                            | 13                           | 0   | 0                                     | 0                         | 0                         | 13                         | (21)  |
| 2013                         | 12   | 0                         | 0                             | 0                            | 12                           | 0   | 0                                     | 0                         | 0                         | 12                         | (13)  |
| 2014                         | 13   | 0                         | 0                             | 0                            | 13                           | 0   | 0                                     | 0                         | 0                         | 13                         | (6)   |
| 2015                         | 13   | 0                         | 0                             | 0                            | 13                           | 0   | 0                                     | 0                         | 0                         | 13                         | 1   |
| 2016                         | 13   | 0                         | 0                             | 0                            | 13                           | 0   | 0                                     | 0                         | 0                         | 13                         | 8   |
| 2017                         | 14   | 0                         | 0                             | 0                            | 14                           | 0   | 0                                     | 0                         | 0                         | 14                         | 14  |
| 2018                         | 14   | 0                         | 0                             | 0                            | 14                           | 0   | 0                                     | 0                         | 0                         | 14                         | 21  |
| 2019                         | 15   | 0                         | 0                             | 0                            | 15                           | 0   | 0                                     | 0                         | 0                         | 15                         | 27  |
| 2020                         | 16   | 0                         | 0                             | 0                            | 16                           | 0   | 0                                     | 0                         | 0                         | 16                         | 32  |
| 2021                         | 16   | 0                         | 0                             | 0                            | 16                           | 0   | 0                                     | 0                         | 0                         | 16                         | 38  |
| NOMINAL                      | 183  | 0                         | 20                            | 0                            | 203                          | 91  | 0                                     | 0                         | 91                        | 111                        |   |
| NPV:                         | 104  | 0                         | 18                            | 0                            | 123                          | 85  | 0                                     | 0                         | 85                        | 38                         |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

RATE IMPACT TEST  
PROGRAM: Commercial Solar Window Film

PSC FORM CE 2.5  
Page 1 of 1  
June 6, 2007

| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)  | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|--|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>& FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 1                                      | 7                     | 1                            | 0                         | 8                         | 2  | 0                                       | 0                           | 0                            | 2                            | (7)   | (7)   |
| 2008           | 0                                       | 1                                      | 7                     | 3                            | 0                         | 10                        | 5  | 0                                       | 0                           | 0                            | 5                            | (5)   | (11)  |
| 2009           | 0                                       | 1                                      | 7                     | 5                            | 0                         | 12                        | 8  | 0                                       | 0                           | 0                            | 8                            | (4)   | (15)  |
| 2010           | 0                                       | 0                                      | 0                     | 6                            | 0                         | 6                         | 13   | 0                                       | 0                           | 0                            | 13                           | 7   | (9)   |
| 2011           | 0                                       | 0                                      | 0                     | 6                            | 0                         | 6                         | 13   | 0                                       | 0                           | 0                            | 13                           | 7   | (3)   |
| 2012           | 0                                       | 0                                      | 0                     | 6                            | 0                         | 6                         | 13   | 0                                       | 0                           | 0                            | 13                           | 7   | 2   |
| 2013           | 0                                       | 0                                      | 0                     | 6                            | 0                         | 6                         | 13   | 0                                       | 0                           | 0                            | 13                           | 7   | 6   |
| 2014           | 0                                       | 0                                      | 0                     | 6                            | 0                         | 6                         | 14   | 0                                       | 0                           | 0                            | 14                           | 8   | 11  |
| 2015           | 0                                       | 0                                      | 0                     | 6                            | 0                         | 6                         | 14   | 0                                       | 0                           | 0                            | 14                           | 8   | 15  |
| 2016           | 0                                       | 0                                      | 0                     | 6                            | 0                         | 6                         | 14   | 0                                       | 0                           | 0                            | 14                           | 8   | 19  |
| 2017           | 0                                       | 0                                      | 0                     | 6                            | 0                         | 6                         | 15   | 0                                       | 0                           | 0                            | 15                           | 9   | 23  |
| 2018           | 0                                       | 0                                      | 0                     | 6                            | 0                         | 6                         | 16   | 0                                       | 0                           | 0                            | 16                           | 10  | 27  |
| 2019           | 0                                       | 0                                      | 0                     | 6                            | 0                         | 6                         | 18   | 0                                       | 0                           | 0                            | 18                           | 11  | 32  |
| 2020           | 0                                       | 0                                      | 0                     | 6                            | 0                         | 6                         | 19   | 0                                       | 0                           | 0                            | 19                           | 12  | 36  |
| 2021           | 0                                       | 0                                      | 0                     | 6                            | 0                         | 6                         | 20   | 0                                       | 0                           | 0                            | 20                           | 14  | 41  |
| NOMINAL        | 0                                       | 2                                      | 20                    | 81                           | 0                         | 103                       | 196  | 0                                       | 0                           | 0                            | 196                          | 93  |   |
| NPV:           | 0                                       | 2                                      | 18                    | 46                           | 0                         | 67                        | 108  | 0                                       | 0                           | 0                            | 108                          | 41  |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:             |   | 1.61                        |                              |                              |   |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

**INPUT DATA - PART 1**  
**PROGRAM TITLE: Commercial Ceiling Insulation**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 5, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                   |
|---|-------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 0.512 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 0.530 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 951 KWH/CUST/YR   |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 896 KWH/CUST/YR   |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 26 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 0        |

**UTILITY & CUSTOMER COSTS**

|   |                 |
|---|-----------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 50.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |
| III. (4) CUSTOMER EQUIPMENT COST                  | 669.00 \$/CUST  |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 160.00 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

|   |                 |
|---|-----------------|
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 1.370 CENTS/KWH |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %             |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 7.25 \$/KW/MO   |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %             |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 0.9             |

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.92 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 17   |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.65 |

TOTAL RESOURCE COST TESTS  
PROGRAM: Commercial Ceiling Insulation

PSC FORM CE 2.3  
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June 6, 2007

| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |  |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |  |
| 2007          | 0                                       | 1                                      | 7  | 0                         | 7                         | 0  | 0                                       | 0                                     | 0                            | 0                            | (7)                        | (7)  |  |
| 2008          | 0                                       | 1                                      | 7  | 0                         | 7                         | 0  | 0                                       | 1                                     | 0                            | 1                            | (7)                        | (13)   |  |
| 2009          | 0                                       | 1                                      | 7  | 0                         | 8                         | 0  | 0                                       | 1                                     | 0                            | 1                            | (6)                        | (18)   |  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 3  | 0                                       | 1                                     | 0                            | 4                            | 4                          | (15)   |  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 3  | 0                                       | 1                                     | 0                            | 4                            | 4                          | (12)   |  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 3  | 0                                       | 1                                     | 0                            | 4                            | 4                          | (9)  |  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 1                                     | 0                            | 4                            | 4                          | (7)  |  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 1                                     | 0                            | 4                            | 4                          | (5)  |  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 1                                     | 0                            | 4                            | 4                          | (2)  |  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 2                                     | 0                            | 4                            | 4                          | (1)  |  |
| 2017          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 2                                     | 0                            | 4                            | 4                          | 1  |  |
| 2018          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 2                                     | 0                            | 4                            | 4                          | 3  |  |
| 2019          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 2                                     | 0                            | 4                            | 4                          | 5  |  |
| 2020          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 2                                     | 0                            | 4                            | 4                          | 6  |  |
| 2021          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 2                                     | 0                            | 4                            | 4                          | 8  |  |
| 2022          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 3                                     | 0                            | 4                            | 4                          | 9  |  |
| 2023          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 3                                     | 0                            | 4                            | 4                          | 10   |  |
| 2024          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 3                                     | 0                            | 4                            | 4                          | 12   |  |
| 2025          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 3                                     | 0                            | 4                            | 4                          | 13   |  |
| 2026          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 3                                     | 0                            | 4                            | 4                          | 14   |  |
| 2027          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 3                                     | 0                            | 4                            | 4                          | 15   |  |
| 2028          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 3                                     | 0                            | 4                            | 4                          | 16   |  |
| 2029          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 3                                     | 0                            | 4                            | 4                          | 17   |  |
| 2030          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 3                                     | 0                            | 5                            | 5                          | 17   |  |
| 2031          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 3                                     | 0                            | 5                            | 5                          | 18   |  |
| 2032          | 0                                       | 0                                      | 0  | 0                         | 0                         | 2  | 0                                       | 3                                     | 0                            | 5                            | 5                          | 19   |  |
| NOMINAL       | 0                                       | 2                                      | 21   | 0                         | 22                        | 47   | 0                                       | 53                                    | 0                            | 100                          | 78                         |  |  |
| NPV:          | 0                                       | 1                                      | 19   | 0                         | 21                        | 20   | 0                                       | 20                                    | 0                            | 39                           | 19                         |  |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (6)]:   |                           |                           |  |   | 1.92                                  |                              |                              |                            |  |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Commercial Ceiling Insulation

PSC FORM CE 2.4  
Page 1 of 1  
June 6, 2007

| (1)     | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|---------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR    | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007    | 0  | 0                         | 2                             | 0                            | 2                            | 7   | 0                                     | 0                         | 7                         | (5)                        | (5)   |
| 2008    | 1  | 0                         | 2                             | 0                            | 3                            | 7   | 0                                     | 0                         | 7                         | (4)                        | (8)   |
| 2009    | 2  | 0                         | 2                             | 0                            | 4                            | 7   | 0                                     | 0                         | 7                         | (3)                        | (11)  |
| 2010    | 3  | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | (9)   |
| 2011    | 3  | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | (7)   |
| 2012    | 3  | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | (5)   |
| 2013    | 3  | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | (3)   |
| 2014    | 3  | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | (1)   |
| 2015    | 3  | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 0   |
| 2016    | 3  | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 2   |
| 2017    | 3  | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 3   |
| 2018    | 3  | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 4   |
| 2019    | 3  | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 6   |
| 2020    | 3  | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 7   |
| 2021    | 3  | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 8   |
| 2022    | 3  | 0                         | 0                             | 0                            | 3                            | 0   | 0                                     | 0                         | 0                         | 3                          | 9   |
| 2023    | 4  | 0                         | 0                             | 0                            | 4                            | 0   | 0                                     | 0                         | 0                         | 4                          | 10  |
| 2024    | 4  | 0                         | 0                             | 0                            | 4                            | 0   | 0                                     | 0                         | 0                         | 4                          | 11  |
| 2025    | 4  | 0                         | 0                             | 0                            | 4                            | 0   | 0                                     | 0                         | 0                         | 4                          | 12  |
| 2026    | 4  | 0                         | 0                             | 0                            | 4                            | 0   | 0                                     | 0                         | 0                         | 4                          | 13  |
| 2027    | 4  | 0                         | 0                             | 0                            | 4                            | 0   | 0                                     | 0                         | 0                         | 4                          | 14  |
| 2028    | 4  | 0                         | 0                             | 0                            | 4                            | 0   | 0                                     | 0                         | 0                         | 4                          | 15  |
| 2029    | 4  | 0                         | 0                             | 0                            | 4                            | 0   | 0                                     | 0                         | 0                         | 4                          | 15  |
| 2030    | 4  | 0                         | 0                             | 0                            | 4                            | 0   | 0                                     | 0                         | 0                         | 4                          | 16  |
| 2031    | 4  | 0                         | 0                             | 0                            | 4                            | 0   | 0                                     | 0                         | 0                         | 4                          | 17  |
| 2032    | 4  | 0                         | 0                             | 0                            | 4                            | 0   | 0                                     | 0                         | 0                         | 4                          | 17  |
| NOMINAL | 82   | 0                         | 5                             | 0                            | 87                           | 21  | 0                                     | 0                         | 21                        | 67                         |   |
| NPV:    | 32   | 0                         | 4                             | 0                            | 37                           | 19  | 0                                     | 0                         | 19                        | 17                         |   |

In service year of gen unit: 2004  
Discount rate: 0.0788

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

RATE IMPACT TEST  
PROGRAM: Commercial Ceiling Insulation

PSC FORM CE 2.5  
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| (1)            | (2)                               | (3)                              | (4)                   | (5)                       | (6)                    | (7)                    | (8)   | (9)                               | (10)                     | (11)                      | (12)                      | (13)                                     | (14)  |
|----------------|-----------------------------------|----------------------------------|-----------------------|---------------------------|------------------------|------------------------|---|-----------------------------------|--------------------------|---------------------------|---------------------------|--|---|
| YEAR           | INCREASED SUPPLY COSTS<br>\$(000) | UTILITY PROGRAM COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE LOSSES<br>\$(000) | OTHER COSTS<br>\$(000) | TOTAL COSTS<br>\$(000) | AVOIDED GEN UNIT & FUEL BENEFITS<br>\$(000) | AVOIDED T & D BENEFITS<br>\$(000) | REVENUE GAINS<br>\$(000) | OTHER BENEFITS<br>\$(000) | TOTAL BENEFITS<br>\$(000) | NET BENEFITS TO ALL CUSTOMERS<br>\$(000) | CUMULATIVE DISCOUNTED NET BENEFIT<br>\$(000)  |
| 2007           | 0                                 | 1                                | 2                     | 0                         | 0                      | 2                      | 0   | 0                                 | 0                        | 0                         | 0                         | (2)                                      | (2)   |
| 2008           | 0                                 | 1                                | 2                     | 1                         | 0                      | 3                      | 1   | 0                                 | 0                        | 0                         | 1                         | (2)                                      | (4)   |
| 2009           | 0                                 | 1                                | 2                     | 1                         | 0                      | 3                      | 1   | 0                                 | 0                        | 0                         | 1                         | (2)                                      | (6)   |
| 2010           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 3  | (4)   |
| 2011           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 2  | (2)   |
| 2012           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 2  | (0)   |
| 2013           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 2  | 1   |
| 2014           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 2  | 2   |
| 2015           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 2  | 3   |
| 2016           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 2  | 4   |
| 2017           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 2  | 5   |
| 2018           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 2  | 6   |
| 2019           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 2  | 7   |
| 2020           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 2  | 8   |
| 2021           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 3  | 9   |
| 2022           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 3  | 10  |
| 2023           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 3  | 11  |
| 2024           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 3  | 11  |
| 2025           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 2  | 12  |
| 2026           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 2  | 13  |
| 2027           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 3  | 13  |
| 2028           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 3  | 14  |
| 2029           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 4   | 0                                 | 0                        | 0                         | 4                         | 2  | 14  |
| 2030           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 5   | 0                                 | 0                        | 0                         | 5                         | 3  | 15  |
| 2031           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 5   | 0                                 | 0                        | 0                         | 5                         | 3  | 15  |
| 2032           | 0                                 | 0                                | 0                     | 2                         | 0                      | 2                      | 5   | 0                                 | 0                        | 0                         | 5                         | 3  | 15  |
| NOMINAL        | 0                                 | 2                                | 5                     | 44                        | 0                      | 50                     | 100   | 0                                 | 0                        | 0                         | 100                       | 50                                       |   |
| NPV:           | 0                                 | 1                                | 4                     | 18                        | 0                      | 24                     | 39  | 0                                 | 0                        | 0                         | 39                        | 15                                       |   |
| Discount rate: |                                   |                                  | 0.0788                |                           |                        |                        |   |                                   |                          |                           |                           |  |   |
|                |                                   |                                  |                       |                           |                        |                        |   |                                   |                          |                           |                           |  | Benefit/Cost Ratio - [col (12)/col (7)]: 1.65 |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007



**INPUT DATA - PART 1**  
**PROGRAM TITLE: Commercial Wall Insulation**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                   |
|---|-------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 0.709 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 0.579 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 1914 KWH/CUST/YR  |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 1803 KWH/CUST/YR  |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 26 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 0        |

**UTILITY & CUSTOMER COSTS**

|   |                 |
|---|-----------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 50.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |
| III. (4) CUSTOMER EQUIPMENT COST                  | 1121.00 \$/CUST |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 299.00 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

|   |                 |
|---|-----------------|
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 1.370 CENTS/KWH |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %             |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 7.25 \$/KW/MO   |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %             |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 0.9             |

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.81 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 32   |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.62 |

TOTAL RESOURCE COST TESTS  
PROGRAM: Commercial Wall Insulation

PSC FORM CE 2.3  
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| (1)           | (2)                               | (3)                              | (4)                                      | (5)                    | (6)                    | (7)                                  | (8)                               | (9)                             | (10)                      | (11)                      | (12)                    | (13)  |  |
|---------------|-----------------------------------|----------------------------------|--|------------------------|------------------------|--------------------------------------|-----------------------------------|---------------------------------|---------------------------|---------------------------|-------------------------|---|--|
| YEAR          | INCREASED SUPPLY COSTS<br>\$(000) | UTILITY PROGRAM COSTS<br>\$(000) | PARTICIPANT PROGRAM COSTS<br>\$(000)     | OTHER COSTS<br>\$(000) | TOTAL COSTS<br>\$(000) | AVOIDED GEN UNIT BENEFITS<br>\$(000) | AVOIDED T & D BENEFITS<br>\$(000) | PROGRAM FUEL SAVINGS<br>\$(000) | OTHER BENEFITS<br>\$(000) | TOTAL BENEFITS<br>\$(000) | NET BENEFITS<br>\$(000) | CUMULATIVE DISCOUNTED NET BENEFITS<br>\$(000) |  |
| 2007          | 0                                 | 1                                | 11                                       | 0                      | 12                     | 0                                    | 0                                 | 1                               | 0                         | 1                         | (11)                    | (11)  |  |
| 2008          | 0                                 | 1                                | 11                                       | 0                      | 12                     | 0                                    | 0                                 | 2                               | 0                         | 2                         | (10)                    | (21)  |  |
| 2009          | 0                                 | 1                                | 12                                       | 0                      | 12                     | 0                                    | 0                                 | 3                               | 0                         | 3                         | (10)                    | (29)  |  |
| 2010          | 0                                 | 0                                | 0  | 0                      | 0                      | 3                                    | 0                                 | 3                               | 0                         | 6                         | 6                       | (24)  |  |
| 2011          | 0                                 | 0                                | 0  | 0                      | 0                      | 3                                    | 0                                 | 3                               | 0                         | 6                         | 6                       | (20)  |  |
| 2012          | 0                                 | 0                                | 0  | 0                      | 0                      | 3                                    | 0                                 | 3                               | 0                         | 6                         | 6                       | (16)  |  |
| 2013          | 0                                 | 0                                | 0  | 0                      | 0                      | 3                                    | 0                                 | 3                               | 0                         | 5                         | 5                       | (13)  |  |
| 2014          | 0                                 | 0                                | 0  | 0                      | 0                      | 3                                    | 0                                 | 3                               | 0                         | 6                         | 6                       | (10)  |  |
| 2015          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 3                               | 0                         | 5                         | 5                       | (7)   |  |
| 2016          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 3                               | 0                         | 6                         | 6                       | (4)   |  |
| 2017          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 3                               | 0                         | 6                         | 6                       | (1)   |  |
| 2018          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 4                               | 0                         | 6                         | 6                       | 1   |  |
| 2019          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 4                               | 0                         | 6                         | 6                       | 4   |  |
| 2020          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 4                               | 0                         | 7                         | 7                       | 6   |  |
| 2021          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 5                               | 0                         | 7                         | 7                       | 9   |  |
| 2022          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 5                               | 0                         | 7                         | 7                       | 11  |  |
| 2023          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 5                               | 0                         | 7                         | 7                       | 13  |  |
| 2024          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 5                               | 0                         | 7                         | 7                       | 15  |  |
| 2025          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 5                               | 0                         | 7                         | 7                       | 17  |  |
| 2026          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 5                               | 0                         | 7                         | 7                       | 19  |  |
| 2027          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 5                               | 0                         | 7                         | 7                       | 20  |  |
| 2028          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 6                               | 0                         | 7                         | 7                       | 22  |  |
| 2029          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 5                               | 0                         | 7                         | 7                       | 23  |  |
| 2030          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 6                               | 0                         | 8                         | 8                       | 25  |  |
| 2031          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 6                               | 0                         | 8                         | 8                       | 26  |  |
| 2032          | 0                                 | 0                                | 0  | 0                      | 0                      | 2                                    | 0                                 | 6                               | 0                         | 8                         | 8                       | 27  |  |
| NOMINAL       | 0                                 | 2                                | 34                                       | 0                      | 36                     | 50                                   | 0                                 | 107                             | 0                         | 157                       | 121                     |   |  |
| NPV:          | 0                                 | 1                                | 32                                       | 0                      | 33                     | 21                                   | 0                                 | 39                              | 0                         | 60                        | 27                      |   |  |
| Discount Rate |                                   | 0.0788                           | Benefit/Cost Ratio - [col (11)/col (6)]: |                        |                        |                                      |                                   | 1.81                            |                           |                           |                         |   |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
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PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Commercial Wall Insulation

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| (1)     | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|---------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR    | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007    | 1  | 0                         | 3                             | 0                            | 4                            | 11  | 0                                     | 0                         | 11                        | (7)                        | (7)   |
| 2008    | 2  | 0                         | 3                             | 0                            | 5                            | 11  | 0                                     | 0                         | 11                        | (6)                        | (13)  |
| 2009    | 4  | 0                         | 3                             | 0                            | 7                            | 12  | 0                                     | 0                         | 12                        | (5)                        | (17)  |
| 2010    | 5  | 0                         | 0                             | 0                            | 5                            | 0   | 0                                     | 0                         | 0                         | 5                          | (14)  |
| 2011    | 5  | 0                         | 0                             | 0                            | 5                            | 0   | 0                                     | 0                         | 0                         | 5                          | (10)  |
| 2012    | 5  | 0                         | 0                             | 0                            | 5                            | 0   | 0                                     | 0                         | 0                         | 5                          | (7)   |
| 2013    | 5  | 0                         | 0                             | 0                            | 5                            | 0   | 0                                     | 0                         | 0                         | 5                          | (4)   |
| 2014    | 5  | 0                         | 0                             | 0                            | 5                            | 0   | 0                                     | 0                         | 0                         | 5                          | (1)   |
| 2015    | 5  | 0                         | 0                             | 0                            | 5                            | 0   | 0                                     | 0                         | 0                         | 5                          | 2   |
| 2016    | 5  | 0                         | 0                             | 0                            | 5                            | 0   | 0                                     | 0                         | 0                         | 5                          | 4   |
| 2017    | 5  | 0                         | 0                             | 0                            | 5                            | 0   | 0                                     | 0                         | 0                         | 5                          | 7   |
| 2018    | 5  | 0                         | 0                             | 0                            | 5                            | 0   | 0                                     | 0                         | 0                         | 5                          | 9   |
| 2019    | 6  | 0                         | 0                             | 0                            | 6                            | 0   | 0                                     | 0                         | 0                         | 6                          | 11  |
| 2020    | 6  | 0                         | 0                             | 0                            | 6                            | 0   | 0                                     | 0                         | 0                         | 6                          | 13  |
| 2021    | 6  | 0                         | 0                             | 0                            | 6                            | 0   | 0                                     | 0                         | 0                         | 6                          | 15  |
| 2022    | 6  | 0                         | 0                             | 0                            | 6                            | 0   | 0                                     | 0                         | 0                         | 6                          | 17  |
| 2023    | 6  | 0                         | 0                             | 0                            | 6                            | 0   | 0                                     | 0                         | 0                         | 6                          | 19  |
| 2024    | 6  | 0                         | 0                             | 0                            | 6                            | 0   | 0                                     | 0                         | 0                         | 6                          | 21  |
| 2025    | 7  | 0                         | 0                             | 0                            | 7                            | 0   | 0                                     | 0                         | 0                         | 7                          | 23  |
| 2026    | 7  | 0                         | 0                             | 0                            | 7                            | 0   | 0                                     | 0                         | 0                         | 7                          | 24  |
| 2027    | 7  | 0                         | 0                             | 0                            | 7                            | 0   | 0                                     | 0                         | 0                         | 7                          | 26  |
| 2028    | 7  | 0                         | 0                             | 0                            | 7                            | 0   | 0                                     | 0                         | 0                         | 7                          | 27  |
| 2029    | 7  | 0                         | 0                             | 0                            | 7                            | 0   | 0                                     | 0                         | 0                         | 7                          | 29  |
| 2030    | 7  | 0                         | 0                             | 0                            | 7                            | 0   | 0                                     | 0                         | 0                         | 7                          | 30  |
| 2031    | 8  | 0                         | 0                             | 0                            | 8                            | 0   | 0                                     | 0                         | 0                         | 8                          | 31  |
| 2032    | 8  | 0                         | 0                             | 0                            | 8                            | 0   | 0                                     | 0                         | 0                         | 8                          | 32  |
| NOMINAL | 145  | 0                         | 9                             | 0                            | 154                          | 34  | 0                                     | 0                         | 34                        | 119                        |   |
| NPV:    | 56   | 0                         | 8                             | 0                            | 64                           | 32  | 0                                     | 0                         | 32                        | 32                         |   |

In service year of gen unit: 2004  
Discount rate: 0.0788

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

RATE IMPACT TEST  
PROGRAM: Commercial Wall Insulation

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| (1)            | (2)                          | (3)                         | (4)        | (5)               | (6)            | (7)            | (8)  | (9)                          | (10)             | (11)              | (12)              | (13)                                   | (14)                                       |
|----------------|------------------------------|-----------------------------|------------|-------------------|----------------|----------------|--|------------------------------|------------------|-------------------|-------------------|--|--|
|                | INCREASED<br>SUPPLY<br>COSTS | UTILITY<br>PROGRAM<br>COSTS | INCENTIVES | REVENUE<br>LOSSES | OTHER<br>COSTS | TOTAL<br>COSTS | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS | AVOIDED<br>T & D<br>BENEFITS | REVENUE<br>GAINS | OTHER<br>BENEFITS | TOTAL<br>BENEFITS | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT |
| YEAR           | \$(000)                      | \$(000)                     | \$(000)    | \$(000)           | \$(000)        | \$(000)        | \$(000)  | \$(000)                      | \$(000)          | \$(000)           | \$(000)           | \$(000)                                | \$(000)                                    |
| 2007           | 0                            | 1                           | 3          | 0                 | 0              | 4              | 1  | 0                            | 0                | 0                 | 1                 | (3)                                    | (3)  |
| 2008           | 0                            | 1                           | 3          | 1                 | 0              | 5              | 2  | 0                            | 0                | 0                 | 2                 | (3)                                    | (6)  |
| 2009           | 0                            | 1                           | 3          | 2                 | 0              | 6              | 3  | 0                            | 0                | 0                 | 3                 | (3)                                    | (9)  |
| 2010           | 0                            | 0                           | 0          | 2                 | 0              | 2              | 6  | 0                            | 0                | 0                 | 6                 | 3                                      | (6)  |
| 2011           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 6  | 0                            | 0                | 0                 | 6                 | 3                                      | (4)  |
| 2012           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 6  | 0                            | 0                | 0                 | 6                 | 3                                      | (2)  |
| 2013           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 5  | 0                            | 0                | 0                 | 5                 | 3                                      | 0  |
| 2014           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 6  | 0                            | 0                | 0                 | 6                 | 3                                      | 2  |
| 2015           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 5  | 0                            | 0                | 0                 | 5                 | 3                                      | 4  |
| 2016           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 6  | 0                            | 0                | 0                 | 6                 | 3                                      | 5  |
| 2017           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 6  | 0                            | 0                | 0                 | 6                 | 3                                      | 6  |
| 2018           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 6  | 0                            | 0                | 0                 | 6                 | 3                                      | 8  |
| 2019           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 6  | 0                            | 0                | 0                 | 6                 | 4                                      | 9  |
| 2020           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 7  | 0                            | 0                | 0                 | 7                 | 4                                      | 11   |
| 2021           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 7  | 0                            | 0                | 0                 | 7                 | 4                                      | 12   |
| 2022           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 7  | 0                            | 0                | 0                 | 7                 | 4                                      | 14   |
| 2023           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 7  | 0                            | 0                | 0                 | 7                 | 4                                      | 15   |
| 2024           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 7  | 0                            | 0                | 0                 | 7                 | 4                                      | 16   |
| 2025           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 7  | 0                            | 0                | 0                 | 7                 | 4                                      | 17   |
| 2026           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 7  | 0                            | 0                | 0                 | 7                 | 4                                      | 18   |
| 2027           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 7  | 0                            | 0                | 0                 | 7                 | 4                                      | 19   |
| 2028           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 7  | 0                            | 0                | 0                 | 7                 | 4                                      | 20   |
| 2029           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 7  | 0                            | 0                | 0                 | 7                 | 4                                      | 21   |
| 2030           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 8  | 0                            | 0                | 0                 | 8                 | 5                                      | 22   |
| 2031           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 8  | 0                            | 0                | 0                 | 8                 | 5                                      | 22   |
| 2032           | 0                            | 0                           | 0          | 3                 | 0              | 3              | 8  | 0                            | 0                | 0                 | 8                 | 5                                      | 23   |
| NOMINAL        | 0                            | 2                           | 9          | 67                | 0              | 78             | 157  | 0                            | 0                | 0                 | 157               | 79                                     |  |
| NPV:           | 0                            | 1                           | 8          | 27                | 0              | 37             | 60   | 0                            | 0                | 0                 | 60                | 23                                     |  |
| Discount rate: |                              |                             | 0.0788     |                   |                |                | Benefit/Cost Ratio - [col (12)/col (7)]:       |                              | 1.62             |                   |                   |  |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

**INPUT DATA - PART 1**  
**PROGRAM TITLE: Energy Efficient Motors**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

|   |                   |
|---|-------------------|
| <b>PROGRAM DEMAND SAVINGS &amp; LINE LOSSES</b> |                   |
| I. (1) CUSTOMER KW REDUCTION AT THE METER       | 1.000 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER      | 1.107 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                  | 6.5 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER    | 2635 KWH/CUST/YR  |
| I. (5) KWH LINE LOSS PERCENTAGE                 | 5.8 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER               | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER   | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER         | 2482 KWH/CUST/YR  |

|   |          |
|---|----------|
| <b>ECONOMIC LIFE &amp; K FACTORS</b>          |          |
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 20 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 1        |

|   |                 |
|---|-----------------|
| <b>UTILITY &amp; CUSTOMER COSTS</b>               |                 |
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 50.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |
| III. (4) CUSTOMER EQUIPMENT COST                  | 1800.00 \$/CUST |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 187.50 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |

|  |                 |
|--|-----------------|
| <b>AVOIDED GENERATOR, TRANS. &amp; DIST COSTS</b>    |                 |
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

|   |                 |
|---|-----------------|
| <b>NON-FUEL ENERGY AND DEMAND CHARGES</b>                               |                 |
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 1.370 CENTS/KWH |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %             |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 7.25 \$/KW/MO   |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %             |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 1               |

|                                      |      |
|--------------------------------------|------|
| <b>CALCULATED BENEFITS AND COSTS</b> |      |
| (1)* TRC TEST - BENEFIT/COST RATIO   | 1.49 |
| (2)* PARTICIPANT NET BENEFITS (NPV)  | 58   |
| (3)* RIM TEST - BENEFIT/COST RATIO   | 1.83 |

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 DSM PROGRAM MODIFICATIONS  
 APPENDIX C  
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TAMPA ELECTRIC COMPANY  
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TOTAL RESOURCE COST TESTS  
 PROGRAM: Energy Efficient Motors

| (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) |
| 2007          | 0                              | 0                             | 1                                 | 45                  | 46                  | 0                                 | 0  | 0                            | 0                      | 2                      | 2                    | (44)                                       |
| 2008          | 0                              | 0                             | 1                                 | 46                  | 47                  | 0                                 | 0  | 6                            | 0                      | 6                      | 6                    | (83)                                       |
| 2009          | 0                              | 0                             | 1                                 | 47                  | 49                  | 0                                 | 0  | 9                            | 0                      | 9                      | 9                    | (117)                                      |
| 2010          | 0                              | 0                             | 0                                 | 0                   | 0                   | 9                                 | 0  | 10                           | 0                      | 19                     | 19                   | (101)                                      |
| 2011          | 0                              | 0                             | 0                                 | 0                   | 0                   | 9                                 | 0  | 10                           | 0                      | 19                     | 19                   | (87)                                       |
| 2012          | 0                              | 0                             | 0                                 | 0                   | 0                   | 10                                | 0  | 10                           | 0                      | 20                     | 20                   | (74)                                       |
| 2013          | 0                              | 0                             | 0                                 | 0                   | 0                   | 10                                | 0  | 10                           | 0                      | 20                     | 20                   | (61)                                       |
| 2014          | 0                              | 0                             | 0                                 | 0                   | 0                   | 10                                | 0  | 10                           | 0                      | 20                     | 20                   | (50)                                       |
| 2015          | 0                              | 0                             | 0                                 | 0                   | 0                   | 10                                | 0  | 10                           | 0                      | 21                     | 21                   | (38)                                       |
| 2016          | 0                              | 0                             | 0                                 | 0                   | 0                   | 10                                | 0  | 11                           | 0                      | 21                     | 21                   | (28)                                       |
| 2017          | 0                              | 0                             | 0                                 | 0                   | 0                   | 11                                | 0  | 11                           | 0                      | 22                     | 22                   | (17)                                       |
| 2018          | 0                              | 0                             | 0                                 | 0                   | 0                   | 11                                | 0  | 12                           | 0                      | 23                     | 23                   | (7)  |
| 2019          | 0                              | 0                             | 0                                 | 0                   | 0                   | 11                                | 0  | 14                           | 0                      | 26                     | 26                   | 3  |
| 2020          | 0                              | 0                             | 0                                 | 0                   | 0                   | 12                                | 0  | 15                           | 0                      | 27                     | 27                   | 13   |
| 2021          | 0                              | 0                             | 0                                 | 0                   | 0                   | 12                                | 0  | 17                           | 0                      | 28                     | 28                   | 23   |
| 2022          | 0                              | 0                             | 0                                 | 0                   | 0                   | 12                                | 0  | 18                           | 0                      | 30                     | 30                   | 32   |
| 2023          | 0                              | 0                             | 0                                 | 0                   | 0                   | 12                                | 0  | 18                           | 0                      | 30                     | 30                   | 41   |
| 2024          | 0                              | 0                             | 0                                 | 0                   | 0                   | 13                                | 0  | 18                           | 0                      | 31                     | 31                   | 50   |
| 2025          | 0                              | 0                             | 0                                 | 0                   | 0                   | 13                                | 0  | 18                           | 0                      | 31                     | 31                   | 58   |
| 2026          | 0                              | 0                             | 0                                 | 0                   | 0                   | 13                                | 0  | 18                           | 0                      | 32                     | 32                   | 65   |
| NOMINAL       | 0                              | 4                             | 4                                 | 138                 | 142                 | 188                               | 0  | 247                          | 0                      | 436                    | 294                  |  |
| NPV:          | 0                              | 4                             | 4                                 | 128                 | 132                 | 84                                | 0  | 113                          | 0                      | 197                    | 65                   |  |
| Discount Rate |                                |                               | 0.0788                            |                     |                     |                                   | Benefit/Cost Ratio - [col (11)/col (6)]: |                              |                        |                        |                      | 1.49                                       |

PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Energy Efficient Motors

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| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 3  | 0                         | 5                             | 0                            | 8                            | 45  | 0                                     | 0                         | 45                        | (37)                       | (37)  |
| 2008                         | 8  | 0                         | 5                             | 0                            | 13                           | 46  | 0                                     | 0                         | 46                        | (33)                       | (68)  |
| 2009                         | 14   | 0                         | 5                             | 0                            | 19                           | 47  | 0                                     | 0                         | 47                        | (28)                       | (92)  |
| 2010                         | 17   | 0                         | 0                             | 0                            | 17                           | 0   | 0                                     | 0                         | 0                         | 17                         | (79)  |
| 2011                         | 17   | 0                         | 0                             | 0                            | 17                           | 0   | 0                                     | 0                         | 0                         | 17                         | (66)  |
| 2012                         | 18   | 0                         | 0                             | 0                            | 18                           | 0   | 0                                     | 0                         | 0                         | 18                         | (54)  |
| 2013                         | 17   | 0                         | 0                             | 0                            | 17                           | 0   | 0                                     | 0                         | 0                         | 17                         | (43)  |
| 2014                         | 17   | 0                         | 0                             | 0                            | 17                           | 0   | 0                                     | 0                         | 0                         | 17                         | (33)  |
| 2015                         | 18   | 0                         | 0                             | 0                            | 18                           | 0   | 0                                     | 0                         | 0                         | 18                         | (23)  |
| 2016                         | 18   | 0                         | 0                             | 0                            | 18                           | 0   | 0                                     | 0                         | 0                         | 18                         | (14)  |
| 2017                         | 19   | 0                         | 0                             | 0                            | 19                           | 0   | 0                                     | 0                         | 0                         | 19                         | (6)   |
| 2018                         | 19   | 0                         | 0                             | 0                            | 19                           | 0   | 0                                     | 0                         | 0                         | 19                         | 3   |
| 2019                         | 20   | 0                         | 0                             | 0                            | 20                           | 0   | 0                                     | 0                         | 0                         | 20                         | 11  |
| 2020                         | 21   | 0                         | 0                             | 0                            | 21                           | 0   | 0                                     | 0                         | 0                         | 21                         | 19  |
| 2021                         | 21   | 0                         | 0                             | 0                            | 21                           | 0   | 0                                     | 0                         | 0                         | 21                         | 26  |
| 2022                         | 22   | 0                         | 0                             | 0                            | 22                           | 0   | 0                                     | 0                         | 0                         | 22                         | 33  |
| 2023                         | 22   | 0                         | 0                             | 0                            | 22                           | 0   | 0                                     | 0                         | 0                         | 22                         | 40  |
| 2024                         | 23   | 0                         | 0                             | 0                            | 23                           | 0   | 0                                     | 0                         | 0                         | 23                         | 46  |
| 2025                         | 24   | 0                         | 0                             | 0                            | 24                           | 0   | 0                                     | 0                         | 0                         | 24                         | 52  |
| 2026                         | 24   | 0                         | 0                             | 0                            | 24                           | 0   | 0                                     | 0                         | 0                         | 24                         | 58  |
| NOMINAL                      | 363  | 0                         | 14                            | 0                            | 377                          | 138                                       | 0                                     | 0                         | 138                       | 239                        |   |
| NPV:                         | 173  | 0                         | 13                            | 0                            | 186                          | 128                                       | 0                                     | 0                         | 128                       | 58                         |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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RATE IMPACT TEST  
PROGRAM: Energy Efficient Motors

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| (1)            | (2)                               | (3)                              | (4)                   | (5)                       | (6)                    | (7)                    | (8)   | (9)                                      | (10)                     | (11)                      | (12)                      | (13)                                     | (14)   |
|----------------|-----------------------------------|----------------------------------|-----------------------|---------------------------|------------------------|------------------------|---|--|--------------------------|---------------------------|---------------------------|--|--|
| YEAR           | INCREASED SUPPLY COSTS<br>\$(000) | UTILITY PROGRAM COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE LOSSES<br>\$(000) | OTHER COSTS<br>\$(000) | TOTAL COSTS<br>\$(000) | AVOIDED GEN UNIT & FUEL BENEFITS<br>\$(000) | AVOIDED T & D BENEFITS<br>\$(000)        | REVENUE GAINS<br>\$(000) | OTHER BENEFITS<br>\$(000) | TOTAL BENEFITS<br>\$(000) | NET BENEFITS TO ALL CUSTOMERS<br>\$(000) | CUMULATIVE DISCOUNTED NET BENEFIT<br>\$(000) |
| 2007           | 0                                 | 1                                |                       | 5                         | 2                      | 0                      | 7   | 2  | 0                        | 0                         | 0                         | 2  | (6)  |
| 2008           | 0                                 | 1                                |                       | 5                         | 5                      | 0                      | 11  | 6  | 0                        | 0                         | 0                         | 6  | (10)   |
| 2009           | 0                                 | 1                                |                       | 5                         | 8                      | 0                      | 14  | 9  | 0                        | 0                         | 0                         | 9  | (14)   |
| 2010           | 0                                 | 0                                |                       | 0                         | 9                      | 0                      | 9   | 19                                       | 0                        | 0                         | 0                         | 19                                       | (6)  |
| 2011           | 0                                 | 0                                |                       | 0                         | 9                      | 0                      | 9   | 19                                       | 0                        | 0                         | 0                         | 19                                       | 1  |
| 2012           | 0                                 | 0                                |                       | 0                         | 10                     | 0                      | 10  | 20                                       | 0                        | 0                         | 0                         | 20                                       | 8  |
| 2013           | 0                                 | 0                                |                       | 0                         | 10                     | 0                      | 10  | 20                                       | 0                        | 0                         | 0                         | 20                                       | 14   |
| 2014           | 0                                 | 0                                |                       | 0                         | 10                     | 0                      | 10  | 20                                       | 0                        | 0                         | 0                         | 20                                       | 21   |
| 2015           | 0                                 | 0                                |                       | 0                         | 10                     | 0                      | 10  | 21                                       | 0                        | 0                         | 0                         | 21                                       | 26   |
| 2016           | 0                                 | 0                                |                       | 0                         | 10                     | 0                      | 10  | 21                                       | 0                        | 0                         | 0                         | 21                                       | 32   |
| 2017           | 0                                 | 0                                |                       | 0                         | 10                     | 0                      | 10  | 22                                       | 0                        | 0                         | 0                         | 22                                       | 38   |
| 2018           | 0                                 | 0                                |                       | 0                         | 10                     | 0                      | 10  | 23                                       | 0                        | 0                         | 0                         | 23                                       | 43   |
| 2019           | 0                                 | 0                                |                       | 0                         | 10                     | 0                      | 10  | 26                                       | 0                        | 0                         | 0                         | 26                                       | 50   |
| 2020           | 0                                 | 0                                |                       | 0                         | 10                     | 0                      | 10  | 27                                       | 0                        | 0                         | 0                         | 27                                       | 56   |
| 2021           | 0                                 | 0                                |                       | 0                         | 10                     | 0                      | 10  | 28                                       | 0                        | 0                         | 0                         | 28                                       | 62   |
| 2022           | 0                                 | 0                                |                       | 0                         | 11                     | 0                      | 11  | 30                                       | 0                        | 0                         | 0                         | 30                                       | 68   |
| 2023           | 0                                 | 0                                |                       | 0                         | 11                     | 0                      | 11  | 30                                       | 0                        | 0                         | 0                         | 30                                       | 74   |
| 2024           | 0                                 | 0                                |                       | 0                         | 11                     | 0                      | 11  | 31                                       | 0                        | 0                         | 0                         | 31                                       | 79   |
| 2025           | 0                                 | 0                                |                       | 0                         | 11                     | 0                      | 11  | 31                                       | 0                        | 0                         | 0                         | 31                                       | 85   |
| 2026           | 0                                 | 0                                |                       | 0                         | 11                     | 0                      | 11  | 32                                       | 0                        | 0                         | 0                         | 32                                       | 89   |
| NOMINAL        | 0                                 | 4                                |                       | 14                        | 186                    | 0                      | 204   | 436                                      | 0                        | 0                         | 0                         | 436                                      | 232  |
| NPV:           | 0                                 | 4                                |                       | 13                        | 91                     | 0                      | 108   | 197                                      | 0                        | 0                         | 0                         | 197                                      | 89   |
| Discount rate: |                                   |                                  | 0.0788                |                           |                        |                        |   | Benefit/Cost Ratio - [col (12)/col (7)]: |                          | 1.83                      |                           |  |  |

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APPENDIX C  
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**INPUT DATA - PART 1**  
**PROGRAM TITLE: Commercial Load Man. Cyclic**

PSC FORM CE 1.1  
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 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                    |
|---|--------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 13.200 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 13.153 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %              |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 0 KWH/CUST/YR      |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %              |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                  |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR      |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 0 KWH/CUST/YR      |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 26 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 0        |

**UTILITY & CUSTOMER COSTS**

|   |                   |
|---|-------------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 820.00 \$/CUST    |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 16.00 \$/CUST/YR  |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %             |
| III. (4) CUSTOMER EQUIPMENT COST                  | 0.00 \$/CUST      |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %             |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR      |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %             |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST         |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %               |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR      |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %               |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788            |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779            |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 0.00 \$/CUST      |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 385.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %               |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN. TRAN. & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

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

| <b>CALCULATED BENEFITS AND COSTS</b> |       |
|--------------------------------------|-------|
| (1)* TRC TEST - BENEFIT/COST RATIO   | 16.27 |
| (2)* PARTICIPANT NET BENEFITS (NPV)  | 12    |
| (3)* RIM TEST - BENEFIT/COST RATIO   | 3.24  |

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TOTAL RESOURCE COST TESTS  
PROGRAM: Commercial Load Man. Cyclic

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| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |
| 2007          | 0                                       | 1                                      | 0  | 0                         | 1                         | 0  | 0                                       | 0                                     | 0                            | 0                            | (1)                        | (1)  |
| 2008          | 0                                       | 1                                      | 0  | 0                         | 1                         | 0  | 0                                       | 0                                     | 0                            | 0                            | (1)                        | (2)  |
| 2009          | 0                                       | 1                                      | 0  | 0                         | 1                         | 0  | 0                                       | 0                                     | 0                            | 0                            | (1)                        | (2)  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 7  | 0                                       | 0                                     | 0                            | 7                            | 7                          | 3  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 0                                     | 0                            | 6                            | 6                          | 7  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 0                                     | 0                            | 6                            | 6                          | 12   |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 0                                     | 0                            | 6                            | 6                          | 15   |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 0                                     | 0                            | 6                            | 6                          | 19   |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 0                                     | 0                            | 6                            | 6                          | 22   |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 0                                     | 0                            | 6                            | 5                          | 25   |
| 2017          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 0                                     | 0                            | 5                            | 5                          | 27   |
| 2018          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 0                                     | 0                            | 5                            | 5                          | 29   |
| 2019          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 0                                     | 0                            | 5                            | 5                          | 31   |
| 2020          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 0                                     | 0                            | 5                            | 5                          | 33   |
| 2021          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 0                                     | 0                            | 5                            | 5                          | 35   |
| 2022          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 0                                     | 0                            | 5                            | 5                          | 36   |
| 2023          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 0                                     | 0                            | 5                            | 4                          | 38   |
| 2024          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 0                                     | 0                            | 4                            | 4                          | 39   |
| 2025          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 0                                     | 0                            | 4                            | 4                          | 40   |
| 2026          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 0                                     | 0                            | 4                            | 4                          | 41   |
| 2027          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 0                                     | 0                            | 4                            | 4                          | 42   |
| 2028          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 0                                     | 0                            | 4                            | 4                          | 43   |
| 2029          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 0                                     | 0                            | 4                            | 4                          | 44   |
| 2030          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 0                                     | 0                            | 4                            | 4                          | 44   |
| 2031          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 0                                     | 0                            | 4                            | 4                          | 45   |
| 2032          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 0                                     | 0                            | 4                            | 4                          | 45   |
| NOMINAL       | 0                                       | 4                                      | 0  | 0                         | 4                         | 115  | 0                                       | 0                                     | 0                            | 115                          | 110                        |  |
| NPV:          | 0                                       | 3                                      | 0  | 0                         | 3                         | 48   | 0                                       | 0                                     | 0                            | 48                           | 45                         |  |
| Discount Rate |   | 0.0788                                 |  |                           |                           |  |   |                                       |                              |                              |                            |  |
|               |   |  |  |                           |                           |  |   |                                       |                              |                              |                            | Benefit/Cost Ratio - [col (11)/col (6)]:               |
|               |   |  |  |                           |                           |  |   |                                       |                              |                              |                            | 16.27  |

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PARTICIPANT COSTS AND BENEFITS  
 PROGRAM: Commercial Load Man. Cyclic

| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 0  | 0                         | 0                             | 0                            | 0                            | 0   | 0                                     | 0                         | 0                         | 0                          | 0   |
| 2008                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 1   |
| 2009                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 2   |
| 2010                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 2   |
| 2011                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 3   |
| 2012                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 4   |
| 2013                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 5   |
| 2014                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 6   |
| 2015                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 6   |
| 2016                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 7   |
| 2017                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 7   |
| 2018                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 8   |
| 2019                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 8   |
| 2020                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 9   |
| 2021                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 9   |
| 2022                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 9   |
| 2023                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 10  |
| 2024                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 10  |
| 2025                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 10  |
| 2026                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 11  |
| 2027                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 11  |
| 2028                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 11  |
| 2029                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 11  |
| 2030                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 12  |
| 2031                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 12  |
| 2032                         | 0  | 0                         | 1                             | 0                            | 1                            | 0   | 0                                     | 0                         | 0                         | 1                          | 12  |
| NOMINAL                      | 0  | 0                         | 28                            | 0                            | 28                           | 0   | 0                                     | 0                         | 0                         | 0                          | 28  |
| NPV:                         | 0  | 0                         | 12                            | 0                            | 12                           | 0   | 0                                     | 0                         | 0                         | 0                          | 12  |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

RATE IMPACT TEST  
PROGRAM: Commercial Load Man. Cyclic

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| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)   | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|---|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 1                                      | 0                     | 0                            | 0                         | 1                         | 0   | 0                                       | 0                           | 0                            | 0                            | (1)   | (1)   |
| 2008           | 0                                       | 1                                      | 1                     | 0                            | 0                         | 1                         | 0   | 0                                       | 0                           | 0                            | 0                            | (1)   | (2)   |
| 2009           | 0                                       | 1                                      | 1                     | 0                            | 0                         | 2                         | 0   | 0                                       | 0                           | 0                            | 0                            | (2)   | (4)   |
| 2010           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 7   | 0                                       | 0                           | 0                            | 7                            | 5   | 0   |
| 2011           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 6   | 0                                       | 0                           | 0                            | 6                            | 5   | 4   |
| 2012           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 6   | 0                                       | 0                           | 0                            | 6                            | 5   | 8   |
| 2013           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 6   | 0                                       | 0                           | 0                            | 6                            | 5   | 11  |
| 2014           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 6   | 0                                       | 0                           | 0                            | 6                            | 5   | 13  |
| 2015           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 6   | 0                                       | 0                           | 0                            | 6                            | 4   | 16  |
| 2016           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 6   | 0                                       | 0                           | 0                            | 6                            | 4   | 18  |
| 2017           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 5   | 0                                       | 0                           | 0                            | 5                            | 4   | 20  |
| 2018           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 5   | 0                                       | 0                           | 0                            | 5                            | 4   | 22  |
| 2019           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 5   | 0                                       | 0                           | 0                            | 5                            | 4   | 23  |
| 2020           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 5   | 0                                       | 0                           | 0                            | 5                            | 4   | 25  |
| 2021           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 5   | 0                                       | 0                           | 0                            | 5                            | 4   | 26  |
| 2022           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 5   | 0                                       | 0                           | 0                            | 5                            | 3   | 27  |
| 2023           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 5   | 0                                       | 0                           | 0                            | 5                            | 3   | 28  |
| 2024           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 4   | 0                                       | 0                           | 0                            | 4                            | 3   | 29  |
| 2025           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 4   | 0                                       | 0                           | 0                            | 4                            | 3   | 30  |
| 2026           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 4   | 0                                       | 0                           | 0                            | 4                            | 3   | 30  |
| 2027           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 4   | 0                                       | 0                           | 0                            | 4                            | 3   | 31  |
| 2028           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 4   | 0                                       | 0                           | 0                            | 4                            | 3   | 32  |
| 2029           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 4   | 0                                       | 0                           | 0                            | 4                            | 3   | 32  |
| 2030           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 4   | 0                                       | 0                           | 0                            | 4                            | 3   | 33  |
| 2031           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 4   | 0                                       | 0                           | 0                            | 4                            | 3   | 33  |
| 2032           | 0                                       | 0                                      | 1                     | 0                            | 0                         | 1                         | 4   | 0                                       | 0                           | 0                            | 4                            | 3   | 34  |
| NOMINAL        | 0                                       | 4                                      | 28                    | 0                            | 0                         | 32                        | 115   | 0                                       | 0                           | 0                            | 115                          | 82  |   |
| NPV:           | 0                                       | 3                                      | 12                    | 0                            | 0                         | 15                        | 48  | 0                                       | 0                           | 0                            | 48                           | 34  |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:                  |   | 3.24                        |                              |                              |   |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

**INPUT DATA - PART 1**  
**PROGRAM TITLE: Commercial Demand Response**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                     |
|---|---------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 500.000 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 553.581 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %               |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 39809 KWH/CUST/YR   |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %               |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                   |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR       |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 37500 KWH/CUST/YR   |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 26 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 0        |

**UTILITY & CUSTOMER COSTS**

|   |                     |
|---|---------------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 0.00 \$/CUST        |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 24500.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %               |
| III. (4) CUSTOMER EQUIPMENT COST                  | 0.00 \$/CUST        |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %               |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR        |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %               |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST           |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %                 |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR        |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %                 |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788              |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779              |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 0.00 \$/CUST        |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 24000.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %                 |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

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

**CALCULATED BENEFITS AND COSTS**

|                                     |        |
|-------------------------------------|--------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 2.25   |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 10,593 |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.27   |

**TAMPA ELECTRIC COMPANY**  
**DSM PROGRAM MODIFICATIONS**  
**APPENDIX C**  
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TOTAL RESOURCE COST TESTS  
PROGRAM: Commercial Demand Response

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| (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) |
| 2007          | 0                              | 61                            | 0                                 | 0                   | 61                  | 0                                 | 0                              | 5                            | 0                      | 5                      | (56)                 | (56)                                       |
| 2008          | 0                              | 314                           | 0                                 | 0                   | 314                 | 0                                 | 0                              | 29                           | 0                      | 29                     | (285)                | (320)                                      |
| 2009          | 0                              | 772                           | 0                                 | 0                   | 772                 | 0                                 | 0                              | 69                           | 0                      | 69                     | (703)                | (924)                                      |
| 2010          | 0                              | 1,055                         | 0                                 | 0                   | 1,055               | 3,714                             | 0                              | 81                           | 0                      | 3,795                  | 2,740                | 1,258                                      |
| 2011          | 0                              | 1,082                         | 0                                 | 0                   | 1,082               | 3,619                             | 0                              | 79                           | 0                      | 3,698                  | 2,616                | 3,189                                      |
| 2012          | 0                              | 1,109                         | 0                                 | 0                   | 1,109               | 3,509                             | 0                              | 81                           | 0                      | 3,590                  | 2,481                | 4,887                                      |
| 2013          | 0                              | 1,136                         | 0                                 | 0                   | 1,136               | 3,407                             | 0                              | 79                           | 0                      | 3,486                  | 2,349                | 6,378                                      |
| 2014          | 0                              | 1,165                         | 0                                 | 0                   | 1,165               | 3,312                             | 0                              | 83                           | 0                      | 3,395                  | 2,230                | 7,689                                      |
| 2015          | 0                              | 1,194                         | 0                                 | 0                   | 1,194               | 3,224                             | 0                              | 83                           | 0                      | 3,307                  | 2,113                | 8,841                                      |
| 2016          | 0                              | 1,224                         | 0                                 | 0                   | 1,224               | 3,141                             | 0                              | 87                           | 0                      | 3,227                  | 2,003                | 9,853                                      |
| 2017          | 0                              | 1,254                         | 0                                 | 0                   | 1,254               | 3,059                             | 0                              | 90                           | 0                      | 3,149                  | 1,894                | 10,740                                     |
| 2018          | 0                              | 1,286                         | 0                                 | 0                   | 1,286               | 2,978                             | 0                              | 99                           | 0                      | 3,077                  | 1,791                | 11,518                                     |
| 2019          | 0                              | 1,318                         | 0                                 | 0                   | 1,318               | 2,898                             | 0                              | 115                          | 0                      | 3,013                  | 1,695                | 12,200                                     |
| 2020          | 0                              | 1,351                         | 0                                 | 0                   | 1,351               | 2,818                             | 0                              | 123                          | 0                      | 2,941                  | 1,590                | 12,793                                     |
| 2021          | 0                              | 1,385                         | 0                                 | 0                   | 1,385               | 2,739                             | 0                              | 134                          | 0                      | 2,872                  | 1,488                | 13,308                                     |
| 2022          | 0                              | 1,419                         | 0                                 | 0                   | 1,419               | 2,660                             | 0                              | 143                          | 0                      | 2,803                  | 1,384                | 13,751                                     |
| 2023          | 0                              | 1,455                         | 0                                 | 0                   | 1,455               | 2,582                             | 0                              | 142                          | 0                      | 2,724                  | 1,269                | 14,129                                     |
| 2024          | 0                              | 1,491                         | 0                                 | 0                   | 1,491               | 2,505                             | 0                              | 144                          | 0                      | 2,649                  | 1,158                | 14,447                                     |
| 2025          | 0                              | 1,528                         | 0                                 | 0                   | 1,528               | 2,440                             | 0                              | 145                          | 0                      | 2,586                  | 1,057                | 14,717                                     |
| 2026          | 0                              | 1,567                         | 0                                 | 0                   | 1,567               | 2,401                             | 0                              | 148                          | 0                      | 2,549                  | 982                  | 14,950                                     |
| 2027          | 0                              | 1,606                         | 0                                 | 0                   | 1,606               | 2,375                             | 0                              | 152                          | 0                      | 2,527                  | 921                  | 15,152                                     |
| 2028          | 0                              | 1,646                         | 0                                 | 0                   | 1,646               | 2,350                             | 0                              | 156                          | 0                      | 2,506                  | 860                  | 15,327                                     |
| 2029          | 0                              | 1,687                         | 0                                 | 0                   | 1,687               | 2,325                             | 0                              | 151                          | 0                      | 2,477                  | 789                  | 15,476                                     |
| 2030          | 0                              | 1,729                         | 0                                 | 0                   | 1,729               | 2,301                             | 0                              | 167                          | 0                      | 2,468                  | 739                  | 15,605                                     |
| 2031          | 0                              | 1,773                         | 0                                 | 0                   | 1,773               | 2,278                             | 0                              | 171                          | 0                      | 2,449                  | 676                  | 15,714                                     |
| 2032          | 0                              | 1,817                         | 0                                 | 0                   | 1,817               | 2,256                             | 0                              | 173                          | 0                      | 2,429                  | 612                  | 15,806                                     |
| NOMINAL       | 0                              | 33,425                        | 0                                 | 0                   | 33,425              | 64,891                            | 0                              | 2,929                        | 0                      | 67,820                 | 34,395               |  |
| NPV:          | 0                              | 12,674                        | 0                                 | 0                   | 12,674              | 27,423                            | 0                              | 1,057                        | 0                      | 28,480                 | 15,806               |  |
| Discount Rate |                                | 0.0788                        |                                   |                     |                     |                                   |                                | 2.25                         |                        |                        |                      |  |
|               |                                |                               |                                   |                     |                     |                                   |                                |                              |                        |                        |                      | Benefit/Cost Ratio - [col (11)/col (6)]:   |

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PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Commercial Demand Response

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| (1)                          | (2)                                   | (3)            | (4)                | (5)               | (6)               | (7)                            | (8)                        | (9)            | (10)           | (11)            | (12)                                     |
|------------------------------|---------------------------------------|----------------|--------------------|-------------------|-------------------|--------------------------------|----------------------------|----------------|----------------|-----------------|--|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL | TAX<br>CREDITS | UTILITY<br>REBATES | OTHER<br>BENEFITS | TOTAL<br>BENEFITS | CUSTOMER<br>EQUIPMENT<br>COSTS | CUSTOMER<br>O & M<br>COSTS | OTHER<br>COSTS | TOTAL<br>COSTS | NET<br>BENEFITS | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS |
|                              | \$(000)                               | \$(000)        | \$(000)            | \$(000)           | \$(000)           | \$(000)                        | \$(000)                    | \$(000)        | \$(000)        | \$(000)         | \$(000)                                  |
| 2007                         | 5                                     | 0              | 60                 | 0                 | 65                | 0                              | 0                          | 0              | 0              | 65              | 65                                       |
| 2008                         | 26                                    | 0              | 300                | 0                 | 326               | 0                              | 0                          | 0              | 0              | 326             | 368                                      |
| 2009                         | 63                                    | 0              | 720                | 0                 | 783               | 0                              | 0                          | 0              | 0              | 783             | 1,040                                    |
| 2010                         | 84                                    | 0              | 960                | 0                 | 1,044             | 0                              | 0                          | 0              | 0              | 1,044           | 1,872                                    |
| 2011                         | 85                                    | 0              | 960                | 0                 | 1,045             | 0                              | 0                          | 0              | 0              | 1,045           | 2,643                                    |
| 2012                         | 88                                    | 0              | 960                | 0                 | 1,048             | 0                              | 0                          | 0              | 0              | 1,048           | 3,361                                    |
| 2013                         | 79                                    | 0              | 960                | 0                 | 1,039             | 0                              | 0                          | 0              | 0              | 1,039           | 4,020                                    |
| 2014                         | 82                                    | 0              | 960                | 0                 | 1,042             | 0                              | 0                          | 0              | 0              | 1,042           | 4,633                                    |
| 2015                         | 84                                    | 0              | 960                | 0                 | 1,044             | 0                              | 0                          | 0              | 0              | 1,044           | 5,202                                    |
| 2016                         | 89                                    | 0              | 960                | 0                 | 1,049             | 0                              | 0                          | 0              | 0              | 1,049           | 5,732                                    |
| 2017                         | 92                                    | 0              | 960                | 0                 | 1,052             | 0                              | 0                          | 0              | 0              | 1,052           | 6,225                                    |
| 2018                         | 97                                    | 0              | 960                | 0                 | 1,057             | 0                              | 0                          | 0              | 0              | 1,057           | 6,684                                    |
| 2019                         | 102                                   | 0              | 960                | 0                 | 1,062             | 0                              | 0                          | 0              | 0              | 1,062           | 7,111                                    |
| 2020                         | 107                                   | 0              | 960                | 0                 | 1,067             | 0                              | 0                          | 0              | 0              | 1,067           | 7,509                                    |
| 2021                         | 111                                   | 0              | 960                | 0                 | 1,071             | 0                              | 0                          | 0              | 0              | 1,071           | 7,880                                    |
| 2022                         | 114                                   | 0              | 960                | 0                 | 1,074             | 0                              | 0                          | 0              | 0              | 1,074           | 8,224                                    |
| 2023                         | 119                                   | 0              | 960                | 0                 | 1,079             | 0                              | 0                          | 0              | 0              | 1,079           | 8,545                                    |
| 2024                         | 125                                   | 0              | 960                | 0                 | 1,085             | 0                              | 0                          | 0              | 0              | 1,085           | 8,843                                    |
| 2025                         | 128                                   | 0              | 960                | 0                 | 1,088             | 0                              | 0                          | 0              | 0              | 1,088           | 9,121                                    |
| 2026                         | 132                                   | 0              | 960                | 0                 | 1,092             | 0                              | 0                          | 0              | 0              | 1,092           | 9,380                                    |
| 2027                         | 137                                   | 0              | 960                | 0                 | 1,097             | 0                              | 0                          | 0              | 0              | 1,097           | 9,620                                    |
| 2028                         | 139                                   | 0              | 960                | 0                 | 1,099             | 0                              | 0                          | 0              | 0              | 1,099           | 9,844                                    |
| 2029                         | 143                                   | 0              | 960                | 0                 | 1,103             | 0                              | 0                          | 0              | 0              | 1,103           | 10,052                                   |
| 2030                         | 148                                   | 0              | 960                | 0                 | 1,108             | 0                              | 0                          | 0              | 0              | 1,108           | 10,245                                   |
| 2031                         | 152                                   | 0              | 960                | 0                 | 1,112             | 0                              | 0                          | 0              | 0              | 1,112           | 10,425                                   |
| 2032                         | 156                                   | 0              | 960                | 0                 | 1,116             | 0                              | 0                          | 0              | 0              | 1,116           | 10,593                                   |
| NOMINAL                      | 2,688                                 | 0              | 23,160             | 0                 | 25,848            | 0                              | 0                          | 0              | 0              | 25,848          |  |
| NPV:                         | 997                                   | 0              | 9,596              | 0                 | 10,593            | 0                              | 0                          | 0              | 0              | 10,593          |  |
| In service year of gen unit: |                                       |                | 2004               |                   |                   |                                |                            |                |                |                 |  |
| Discount rate:               |                                       |                | 0.0788             |                   |                   |                                |                            |                |                |                 |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
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RATE IMPACT TEST  
PROGRAM: Commercial Demand Response

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| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)   | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|---|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 61                                     | 60                    | 1                            | 0                         | 123                       | 5   | 0                                       | 0                           | 0                            | 5                            | (117)   | (117)   |
| 2008           | 0                                       | 314                                    | 300                   | 6                            | 0                         | 620                       | 29  | 0                                       | 0                           | 0                            | 29                           | (591)   | (665)   |
| 2009           | 0                                       | 772                                    | 720                   | 16                           | 0                         | 1,508                     | 69  | 0                                       | 0                           | 0                            | 69                           | (1,439)   | (1902)  |
| 2010           | 0                                       | 1,055                                  | 960                   | 21                           | 0                         | 2,037                     | 3,795   | 0                                       | 0                           | 0                            | 3,795                        | 1,759   | (501)   |
| 2011           | 0                                       | 1,082                                  | 960                   | 21                           | 0                         | 2,063                     | 3,698   | 0                                       | 0                           | 0                            | 3,698                        | 1,635   | 706   |
| 2012           | 0                                       | 1,109                                  | 960                   | 22                           | 0                         | 2,090                     | 3,590   | 0                                       | 0                           | 0                            | 3,590                        | 1,499   | 1732  |
| 2013           | 0                                       | 1,136                                  | 960                   | 22                           | 0                         | 2,118                     | 3,486   | 0                                       | 0                           | 0                            | 3,486                        | 1,367   | 2599  |
| 2014           | 0                                       | 1,165                                  | 960                   | 22                           | 0                         | 2,147                     | 3,395   | 0                                       | 0                           | 0                            | 3,395                        | 1,248   | 3333  |
| 2015           | 0                                       | 1,194                                  | 960                   | 22                           | 0                         | 2,176                     | 3,307   | 0                                       | 0                           | 0                            | 3,307                        | 1,131   | 3950  |
| 2016           | 0                                       | 1,224                                  | 960                   | 22                           | 0                         | 2,206                     | 3,227   | 0                                       | 0                           | 0                            | 3,227                        | 1,021   | 4465  |
| 2017           | 0                                       | 1,254                                  | 960                   | 23                           | 0                         | 2,237                     | 3,149   | 0                                       | 0                           | 0                            | 3,149                        | 912   | 4893  |
| 2018           | 0                                       | 1,286                                  | 960                   | 23                           | 0                         | 2,269                     | 3,077   | 0                                       | 0                           | 0                            | 3,077                        | 808   | 5243  |
| 2019           | 0                                       | 1,318                                  | 960                   | 23                           | 0                         | 2,301                     | 3,013   | 0                                       | 0                           | 0                            | 3,013                        | 712   | 5530  |
| 2020           | 0                                       | 1,351                                  | 960                   | 23                           | 0                         | 2,334                     | 2,941   | 0                                       | 0                           | 0                            | 2,941                        | 607   | 5756  |
| 2021           | 0                                       | 1,385                                  | 960                   | 24                           | 0                         | 2,388                     | 2,872   | 0                                       | 0                           | 0                            | 2,872                        | 504   | 5931  |
| 2022           | 0                                       | 1,419                                  | 960                   | 24                           | 0                         | 2,403                     | 2,803   | 0                                       | 0                           | 0                            | 2,803                        | 400   | 6059  |
| 2023           | 0                                       | 1,455                                  | 960                   | 24                           | 0                         | 2,439                     | 2,724   | 0                                       | 0                           | 0                            | 2,724                        | 285   | 6144  |
| 2024           | 0                                       | 1,491                                  | 960                   | 24                           | 0                         | 2,476                     | 2,649   | 0                                       | 0                           | 0                            | 2,649                        | 174   | 6191  |
| 2025           | 0                                       | 1,528                                  | 960                   | 25                           | 0                         | 2,513                     | 2,586   | 0                                       | 0                           | 0                            | 2,586                        | 73  | 6210  |
| 2026           | 0                                       | 1,567                                  | 960                   | 25                           | 0                         | 2,552                     | 2,549   | 0                                       | 0                           | 0                            | 2,549                        | (2)   | 6209  |
| 2027           | 0                                       | 1,606                                  | 960                   | 25                           | 0                         | 2,591                     | 2,527   | 0                                       | 0                           | 0                            | 2,527                        | (64)  | 6195  |
| 2028           | 0                                       | 1,646                                  | 960                   | 25                           | 0                         | 2,631                     | 2,506   | 0                                       | 0                           | 0                            | 2,506                        | (125)   | 6170  |
| 2029           | 0                                       | 1,687                                  | 960                   | 26                           | 0                         | 2,673                     | 2,477   | 0                                       | 0                           | 0                            | 2,477                        | (196)   | 6133  |
| 2030           | 0                                       | 1,729                                  | 960                   | 26                           | 0                         | 2,715                     | 2,468   | 0                                       | 0                           | 0                            | 2,468                        | (247)   | 6090  |
| 2031           | 0                                       | 1,773                                  | 960                   | 26                           | 0                         | 2,759                     | 2,449   | 0                                       | 0                           | 0                            | 2,449                        | (310)   | 6040  |
| 2032           | 0                                       | 1,817                                  | 960                   | 26                           | 0                         | 2,803                     | 2,429   | 0                                       | 0                           | 0                            | 2,429                        | (374)   | 5983  |
| NOMINAL        | 0                                       | 33,425                                 | 23,160                | 568                          | 0                         | 57,153                    | 67,820  | 0                                       | 0                           | 0                            | 67,820                       | 10,667  |   |
| NPV:           | 0                                       | 12,674                                 | 9,596                 | 227                          | 0                         | 22,497                    | 28,460  | 0                                       | 0                           | 0                            | 28,460                       | 5,983   |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:                  |   |                             | 1.27                         |                              |   |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007



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**INPUT DATA - PART 1**  
**PROGRAM TITLE: Commercial Cooling Direct Expansion**

PSC FORM CE 1.1  
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 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                   |
|---|-------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 1,830 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 1,823 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 5648 KWH/CUST/YR  |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 5320 KWH/CUST/YR  |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 15 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 1        |

**UTILITY & CUSTOMER COSTS**

|   |                 |
|---|-----------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 75.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |
| III. (4) CUSTOMER EQUIPMENT COST                  | 1636.83 \$/CUST |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 402.50 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                   |
|--|-------------------|
| IV. (1) BASE YEAR                                    | 2007              |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010              |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010              |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW      |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW           |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW           |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %             |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR     |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %             |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR        |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR        |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %             |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS\$/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %             |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %             |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS\$/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %            |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR        |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %               |

**NON-FUEL ENERGY AND DEMAND CHARGES**

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

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.84 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 788  |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.25 |

TAMPA ELECTRIC COMPANY  
 DSM PROGRAM MODIFICATIONS  
 APPENDIX C  
 FILED: JUNE 15, 2007

TOTAL RESOURCE COST TESTS  
PROGRAM: Commercial Cooling Direct Expansion

PSC FORM CE 2.3  
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| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |  |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |  |
| 2007          | 0                                       | 8                                      | 164  | 0                         | 171                       | 0  | 0                                       | 12                                    | 0                            | 12                           | (160)                      | (160)  |  |
| 2008          | 0                                       | 8                                      | 168  | 0                         | 175                       | 0  | 0                                       | 37                                    | 0                            | 37                           | (138)                      | (288)  |  |
| 2009          | 0                                       | 8                                      | 172  | 0                         | 180                       | 0  | 0                                       | 61                                    | 0                            | 61                           | (119)                      | (390)  |  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 45   | 0                                       | 65                                    | 0                            | 109                          | 109                        | (303)  |  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 46   | 0                                       | 63                                    | 0                            | 109                          | 109                        | (222)  |  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 47   | 0                                       | 65                                    | 0                            | 112                          | 112                        | (146)  |  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 48   | 0                                       | 63                                    | 0                            | 111                          | 111                        | (75)   |  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 49   | 0                                       | 66                                    | 0                            | 116                          | 116                        | (7)  |  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 51   | 0                                       | 66                                    | 0                            | 117                          | 117                        | 57   |  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 52   | 0                                       | 69                                    | 0                            | 121                          | 121                        | 118  |  |
| 2017          | 0                                       | 0                                      | 0  | 0                         | 0                         | 53   | 0                                       | 72                                    | 0                            | 125                          | 125                        | 176  |  |
| 2018          | 0                                       | 0                                      | 0  | 0                         | 0                         | 54   | 0                                       | 79                                    | 0                            | 133                          | 133                        | 234  |  |
| 2019          | 0                                       | 0                                      | 0  | 0                         | 0                         | 56   | 0                                       | 92                                    | 0                            | 148                          | 148                        | 293  |  |
| 2020          | 0                                       | 0                                      | 0  | 0                         | 0                         | 57   | 0                                       | 98                                    | 0                            | 155                          | 155                        | 351  |  |
| 2021          | 0                                       | 0                                      | 0  | 0                         | 0                         | 58   | 0                                       | 107                                   | 0                            | 165                          | 165                        | 408  |  |
| NOMINAL       | 0                                       | 23                                     | 503  | 0                         | 526                       | 617  | 0                                       | 1,014                                 | 0                            | 1,631                        | 1,104                      |  |  |
| NPV:          | 0                                       | 21                                     | 467  | 0                         | 488                       | 328  | 0                                       | 569                                   | 0                            | 897                          | 408                        |  |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (6)]:   |                           |                           |  |   | 1.84                                  |                              |                              |                            |  |  |

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DSM PROGRAM MODIFICATIONS  
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PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Commercial Cooling Direct Expansion

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| (1)     | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|---------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR    | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007    | 29   | 0                         | 40                            | 0                            | 63                           | 164                                       | 0                                     | 0                         | 164                       | (100)                      | (100)   |
| 2008    | 69   | 0                         | 40                            | 0                            | 109                          | 168                                       | 0                                     | 0                         | 168                       | (59)                       | (155)   |
| 2009    | 115  | 0                         | 40                            | 0                            | 155                          | 172                                       | 0                                     | 0                         | 172                       | (17)                       | (169)   |
| 2010    | 139  | 0                         | 0                             | 0                            | 139                          | 0   | 0                                     | 0                         | 0                         | 139                        | (59)  |
| 2011    | 140  | 0                         | 0                             | 0                            | 140                          | 0   | 0                                     | 0                         | 0                         | 140                        | 44  |
| 2012    | 144  | 0                         | 0                             | 0                            | 144                          | 0   | 0                                     | 0                         | 0                         | 144                        | 143   |
| 2013    | 135  | 0                         | 0                             | 0                            | 135                          | 0   | 0                                     | 0                         | 0                         | 135                        | 229   |
| 2014    | 139  | 0                         | 0                             | 0                            | 139                          | 0   | 0                                     | 0                         | 0                         | 139                        | 310   |
| 2015    | 141  | 0                         | 0                             | 0                            | 141                          | 0   | 0                                     | 0                         | 0                         | 141                        | 387   |
| 2016    | 147  | 0                         | 0                             | 0                            | 147                          | 0   | 0                                     | 0                         | 0                         | 147                        | 462   |
| 2017    | 150  | 0                         | 0                             | 0                            | 150                          | 0   | 0                                     | 0                         | 0                         | 150                        | 532   |
| 2018    | 157  | 0                         | 0                             | 0                            | 157                          | 0   | 0                                     | 0                         | 0                         | 157                        | 600   |
| 2019    | 162  | 0                         | 0                             | 0                            | 162                          | 0   | 0                                     | 0                         | 0                         | 162                        | 666   |
| 2020    | 168  | 0                         | 0                             | 0                            | 168                          | 0   | 0                                     | 0                         | 0                         | 168                        | 728   |
| 2021    | 173  | 0                         | 0                             | 0                            | 173                          | 0   | 0                                     | 0                         | 0                         | 173                        | 788   |
| NOMINAL | 2,002  | 0                         | 121                           | 0                            | 2,123                        | 503                                       | 0                                     | 0                         | 503                       | 1,620                      |   |
| NPV:    | 1,143  | 0                         | 112                           | 0                            | 1,255                        | 467                                       | 0                                     | 0                         | 467                       | 788                        |   |

In service year of gen unit: 2004  
Discount rate: 0.0788

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DSM PROGRAM MODIFICATIONS  
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RATE IMPACT TEST  
PROGRAM: Commercial Cooling Direct Expansion

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| (1)            | (2)                          | (3)                         | (4)        | (5)               | (6)            | (7)            | (8)  | (9)                          | (10)             | (11)              | (12)              | (13)                                   | (14)                                       |
|----------------|------------------------------|-----------------------------|------------|-------------------|----------------|----------------|--|------------------------------|------------------|-------------------|-------------------|--|--|
|                | INCREASED<br>SUPPLY<br>COSTS | UTILITY<br>PROGRAM<br>COSTS | INCENTIVES | REVENUE<br>LOSSES | OTHER<br>COSTS | TOTAL<br>COSTS | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS | AVOIDED<br>T & D<br>BENEFITS | REVENUE<br>GAINS | OTHER<br>BENEFITS | TOTAL<br>BENEFITS | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT |
| YEAR           | \$(000)                      | \$(000)                     | \$(000)    | \$(000)           | \$(000)        | \$(000)        | \$(000)  | \$(000)                      | \$(000)          | \$(000)           | \$(000)           | \$(000)                                | \$(000)                                    |
| 2007           | 0                            | 8                           | 40         | 12                | 0              | 59             | 12   | 0                            | 0                | 0                 | 12                | (48)                                   | (48)                                       |
| 2008           | 0                            | 8                           | 40         | 35                | 0              | 83             | 37   | 0                            | 0                | 0                 | 37                | (46)                                   | (91)                                       |
| 2009           | 0                            | 8                           | 40         | 59                | 0              | 107            | 61   | 0                            | 0                | 0                 | 61                | (46)                                   | (130)                                      |
| 2010           | 0                            | 0                           | 0          | 72                | 0              | 72             | 109  | 0                            | 0                | 0                 | 109               | 38                                     | (100)                                      |
| 2011           | 0                            | 0                           | 0          | 72                | 0              | 72             | 109  | 0                            | 0                | 0                 | 109               | 37                                     | (73)                                       |
| 2012           | 0                            | 0                           | 0          | 73                | 0              | 73             | 112  | 0                            | 0                | 0                 | 112               | 39                                     | (47)                                       |
| 2013           | 0                            | 0                           | 0          | 74                | 0              | 74             | 111  | 0                            | 0                | 0                 | 111               | 37                                     | (23)                                       |
| 2014           | 0                            | 0                           | 0          | 75                | 0              | 75             | 116  | 0                            | 0                | 0                 | 116               | 41                                     | 1  |
| 2015           | 0                            | 0                           | 0          | 75                | 0              | 75             | 117  | 0                            | 0                | 0                 | 117               | 41                                     | 24   |
| 2016           | 0                            | 0                           | 0          | 76                | 0              | 76             | 121  | 0                            | 0                | 0                 | 121               | 45                                     | 46   |
| 2017           | 0                            | 0                           | 0          | 77                | 0              | 77             | 125  | 0                            | 0                | 0                 | 125               | 48                                     | 69   |
| 2018           | 0                            | 0                           | 0          | 78                | 0              | 78             | 133  | 0                            | 0                | 0                 | 133               | 55                                     | 93   |
| 2019           | 0                            | 0                           | 0          | 78                | 0              | 78             | 148  | 0                            | 0                | 0                 | 148               | 69                                     | 121  |
| 2020           | 0                            | 0                           | 0          | 79                | 0              | 79             | 155  | 0                            | 0                | 0                 | 155               | 76                                     | 149  |
| 2021           | 0                            | 0                           | 0          | 80                | 0              | 80             | 165  | 0                            | 0                | 0                 | 165               | 85                                     | 178  |
| NOMINAL        | 0                            | 23                          | 121        | 1,016             | 0              | 1,180          | 1,631  | 0                            | 0                | 0                 | 1,631             | 471                                    |  |
| NPV:           | 0                            | 21                          | 112        | 585               | 0              | 718            | 897  | 0                            | 0                | 0                 | 897               | 178                                    |  |
| Discount rate: |                              |                             | 0.0788     |                   |                |                | Benefit/Cost Ratio - [col (12)/col (7)]:       |                              | 1.25             |                   |                   |  |  |

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DSM PROGRAM MODIFICATIONS  
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**INPUT DATA - PART 1**  
**PROGRAM TITLE: Commercial Cooling Package Terminal AC**

PSC FORM CE 1.1  
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 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                   |
|---|-------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 0.260 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 0.259 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 790 KWH/CUST/YR   |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 744 KWH/CUST/YR   |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 15 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 1        |

**UTILITY & CUSTOMER COSTS**

|   |                 |
|---|-----------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 50.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |
| III. (4) CUSTOMER EQUIPMENT COST                  | 91.50 \$/CUST   |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 22.50 \$/CUST   |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

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

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 3.11 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 182  |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.23 |

TAMPA ELECTRIC COMPANY  
 DSM PROGRAM MODIFICATIONS  
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TOTAL RESOURCE COST TESTS  
PROGRAM: Commercial Cooling Package Terminal AC

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| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |  |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |  |
| 2007          | 0                                       | 4                                      | 7  | 0                         | 11                        | 0  | 0                                       | 1                                     | 0                            | 1                            | (9)                        | (9)  |  |
| 2008          | 0                                       | 8                                      | 14   | 0                         | 22                        | 0  | 0                                       | 5                                     | 0                            | 5                            | (17)                       | (25)   |  |
| 2009          | 0                                       | 9                                      | 17   | 0                         | 26                        | 0  | 0                                       | 11                                    | 0                            | 11                           | (15)                       | (38)   |  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 9  | 0                                       | 12                                    | 0                            | 21                           | 21                         | (22)   |  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 9  | 0                                       | 12                                    | 0                            | 21                           | 21                         | (6)  |  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 9  | 0                                       | 12                                    | 0                            | 21                           | 21                         | 8  |  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 9  | 0                                       | 12                                    | 0                            | 21                           | 21                         | 21   |  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 9  | 0                                       | 12                                    | 0                            | 22                           | 22                         | 34   |  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 10   | 0                                       | 12                                    | 0                            | 22                           | 22                         | 46   |  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 10   | 0                                       | 13                                    | 0                            | 23                           | 23                         | 57   |  |
| 2017          | 0                                       | 0                                      | 0  | 0                         | 0                         | 10   | 0                                       | 13                                    | 0                            | 23                           | 23                         | 68   |  |
| 2018          | 0                                       | 0                                      | 0  | 0                         | 0                         | 10   | 0                                       | 15                                    | 0                            | 25                           | 25                         | 79   |  |
| 2019          | 0                                       | 0                                      | 0  | 0                         | 0                         | 11   | 0                                       | 17                                    | 0                            | 28                           | 28                         | 90   |  |
| 2020          | 0                                       | 0                                      | 0  | 0                         | 0                         | 11   | 0                                       | 18                                    | 0                            | 29                           | 29                         | 101  |  |
| 2021          | 0                                       | 0                                      | 0  | 0                         | 0                         | 11   | 0                                       | 20                                    | 0                            | 31                           | 31                         | 112  |  |
| NOMINAL       | 0                                       | 21                                     | 38   | 0                         | 58                        | 117  | 0                                       | 186                                   | 0                            | 303                          | 245                        |  |  |
| NPV:          | 0                                       | 19                                     | 34   | 0                         | 53                        | 62   | 0                                       | 103                                   | 0                            | 165                          | 112                        |  |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (6)]:   |                           |                           |  |   | 3.11                                  |                              |                              |                            |  |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Commercial Cooling Package Terminal AC

PSC FORM CE 2.4  
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June 6, 2007

| (1)     | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|---------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR    | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007    | 2  | 0                         | 2                             | 0                            | 4                            | 7   | 0                                     | 0                         | 7                         | (3)                        | (3)   |
| 2008    | 10   | 0                         | 3                             | 0                            | 13                           | 14  | 0                                     | 0                         | 14                        | (1)                        | (4)   |
| 2009    | 20   | 0                         | 4                             | 0                            | 24                           | 17  | 0                                     | 0                         | 17                        | 7                          | 3   |
| 2010    | 26   | 0                         | 0                             | 0                            | 26                           | 0   | 0                                     | 0                         | 0                         | 26                         | 23  |
| 2011    | 26   | 0                         | 0                             | 0                            | 26                           | 0   | 0                                     | 0                         | 0                         | 26                         | 43  |
| 2012    | 27   | 0                         | 0                             | 0                            | 27                           | 0   | 0                                     | 0                         | 0                         | 27                         | 61  |
| 2013    | 25   | 0                         | 0                             | 0                            | 25                           | 0   | 0                                     | 0                         | 0                         | 25                         | 77  |
| 2014    | 26   | 0                         | 0                             | 0                            | 26                           | 0   | 0                                     | 0                         | 0                         | 26                         | 93  |
| 2015    | 27   | 0                         | 0                             | 0                            | 27                           | 0   | 0                                     | 0                         | 0                         | 27                         | 107   |
| 2016    | 28   | 0                         | 0                             | 0                            | 28                           | 0   | 0                                     | 0                         | 0                         | 28                         | 121   |
| 2017    | 28   | 0                         | 0                             | 0                            | 28                           | 0   | 0                                     | 0                         | 0                         | 28                         | 134   |
| 2018    | 29   | 0                         | 0                             | 0                            | 29                           | 0   | 0                                     | 0                         | 0                         | 29                         | 147   |
| 2019    | 30   | 0                         | 0                             | 0                            | 30                           | 0   | 0                                     | 0                         | 0                         | 30                         | 159   |
| 2020    | 32   | 0                         | 0                             | 0                            | 32                           | 0   | 0                                     | 0                         | 0                         | 32                         | 171   |
| 2021    | 32   | 0                         | 0                             | 0                            | 32                           | 0   | 0                                     | 0                         | 0                         | 32                         | 182   |
| NOMINAL | 369  | 0                         | 9                             | 0                            | 378                          | 38  | 0                                     | 0                         | 38                        | 340                        |   |
| NPV:    | 208  | 0                         | 8                             | 0                            | 216                          | 34  | 0                                     | 0                         | 34                        | 182                        |   |

In service year of gen unit: 2004  
Discount rate: 0.0788

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
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RATE IMPACT TEST  
PROGRAM: Commercial Cooling Package Terminal AC

PSC FORM CE 2.5  
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| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)   | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|---|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 4                                      | 2                     | 1                            | 0                         | 7                         | 1   | 0                                       | 0                           | 0                            | 1                            | (5)   | (5)   |
| 2008           | 0                                       | 8                                      | 3                     | 5                            | 0                         | 16                        | 5   | 0                                       | 0                           | 0                            | 5                            | (11)  | (16)  |
| 2009           | 0                                       | 9                                      | 4                     | 10                           | 0                         | 24                        | 11  | 0                                       | 0                           | 0                            | 11                           | (13)  | (27)  |
| 2010           | 0                                       | 0                                      | 0                     | 14                           | 0                         | 14                        | 21  | 0                                       | 0                           | 0                            | 21                           | 7   | (21)  |
| 2011           | 0                                       | 0                                      | 0                     | 14                           | 0                         | 14                        | 21  | 0                                       | 0                           | 0                            | 21                           | 7   | (16)  |
| 2012           | 0                                       | 0                                      | 0                     | 14                           | 0                         | 14                        | 21  | 0                                       | 0                           | 0                            | 21                           | 7   | (11)  |
| 2013           | 0                                       | 0                                      | 0                     | 14                           | 0                         | 14                        | 21  | 0                                       | 0                           | 0                            | 21                           | 7   | (7)   |
| 2014           | 0                                       | 0                                      | 0                     | 14                           | 0                         | 14                        | 22  | 0                                       | 0                           | 0                            | 22                           | 8   | (2)   |
| 2015           | 0                                       | 0                                      | 0                     | 14                           | 0                         | 14                        | 22  | 0                                       | 0                           | 0                            | 22                           | 8   | 2   |
| 2016           | 0                                       | 0                                      | 0                     | 14                           | 0                         | 14                        | 23  | 0                                       | 0                           | 0                            | 23                           | 8   | 6   |
| 2017           | 0                                       | 0                                      | 0                     | 14                           | 0                         | 14                        | 23  | 0                                       | 0                           | 0                            | 23                           | 9   | 11  |
| 2018           | 0                                       | 0                                      | 0                     | 15                           | 0                         | 15                        | 25  | 0                                       | 0                           | 0                            | 25                           | 10  | 15  |
| 2019           | 0                                       | 0                                      | 0                     | 15                           | 0                         | 15                        | 28  | 0                                       | 0                           | 0                            | 28                           | 13  | 20  |
| 2020           | 0                                       | 0                                      | 0                     | 15                           | 0                         | 15                        | 29  | 0                                       | 0                           | 0                            | 29                           | 14  | 26  |
| 2021           | 0                                       | 0                                      | 0                     | 15                           | 0                         | 15                        | 31  | 0                                       | 0                           | 0                            | 31                           | 16  | 31  |
| NOMINAL        | 0                                       | 21                                     | 9                     | 188                          | 0                         | 218                       | 303   | 0                                       | 0                           | 0                            | 303                          | 85  |   |
| NPV:           | 0                                       | 19                                     | 8                     | 107                          | 0                         | 134                       | 165   | 0                                       | 0                           | 0                            | 165                          | 31  |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:                  |   | 1.23                        |                              |                              |   |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
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**INPUT DATA - PART 1**  
**PROGRAM TITLE: Commercial Chiller Replacement**

PSC FORM CE 1.1  
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 RUN DATE: June 6, 2007

| <b>PROGRAM DEMAND SAVINGS &amp; LINE LOSSES</b> |                     |
|---|---------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER       | 101.250 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER      | 104.184 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                  | 6.5 %               |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER    | 246306 KWH/CUST/YR  |
| I. (5) KWH LINE LOSS PERCENTAGE                 | 5.8 %               |
| I. (6) GROUP LINE LOSS MULTIPLIER               | 1                   |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER   | 0 KWH/CUST/YR       |
| I. (8)* CUSTOMER KWH REDUCTION AT METER         | 232020 KWH/CUST/YR  |

| <b>ECONOMIC LIFE &amp; K FACTORS</b>          |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 20 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 1        |

| <b>UTILITY &amp; CUSTOMER COSTS</b>               |                   |
|---|-------------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 100.00 \$/CUST    |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR   |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %             |
| III. (4) CUSTOMER EQUIPMENT COST                  | 100245.30 \$/CUST |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %             |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR      |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %             |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST         |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %               |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR      |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %               |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788            |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779            |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 10125.00 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR   |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %               |

| <b>AVOIDED GENERATOR, TRANS. &amp; DIST COSTS</b>    |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

| <b>NON-FUEL ENERGY AND DEMAND CHARGES</b>                               |                 |
|---|-----------------|
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 1.370 CENTS/KWH |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %             |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 7.25 \$/KW/MO   |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %             |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 1               |

| <b>CALCULATED BENEFITS AND COSTS</b> |        |
|--------------------------------------|--------|
| (1)* TRC TEST - BENEFIT/COST RATIO   | 1.67   |
| (2)* PARTICIPANT NET BENEFITS (NPV)  | 14,351 |
| (3)* RIM TEST - BENEFIT/COST RATIO   | 1.23   |

TAMPA ELECTRIC COMPANY  
 DSM PROGRAM MODIFICATIONS  
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TOTAL RESOURCE COST TESTS  
PROGRAM: Commercial Chiller Replacement

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| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |  |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |  |
| 2007          | 0                                       | 4                                      | 3,509                                      | 0                         | 3,512                     | 0  | 0                                       | 154                                   | 0                            | 154                          | (3,358)                    | (3,358)  |  |
| 2008          | 0                                       | 4                                      | 3,596                                      | 0                         | 3,600                     | 0  | 0                                       | 496                                   | 0                            | 496                          | (3,104)                    | (6,235)  |  |
| 2009          | 0                                       | 4                                      | 3,686                                      | 0                         | 3,690                     | 0  | 0                                       | 809                                   | 0                            | 809                          | (2,884)                    | (8,711)  |  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 776  | 0                                       | 850                                   | 0                            | 1,627                        | 1,627                      | (7,415)  |  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 795  | 0                                       | 835                                   | 0                            | 1,629                        | 1,629                      | (6,212)  |  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 814  | 0                                       | 853                                   | 0                            | 1,667                        | 1,667                      | (5,071)  |  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 834  | 0                                       | 829                                   | 0                            | 1,663                        | 1,663                      | (4,016)  |  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 854  | 0                                       | 875                                   | 0                            | 1,729                        | 1,729                      | (3,000)  |  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 875  | 0                                       | 871                                   | 0                            | 1,746                        | 1,746                      | (2,048)  |  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 896  | 0                                       | 910                                   | 0                            | 1,806                        | 1,806                      | (1,136)  |  |
| 2017          | 0                                       | 0                                      | 0  | 0                         | 0                         | 917  | 0                                       | 945                                   | 0                            | 1,862                        | 1,862                      | (263)  |  |
| 2018          | 0                                       | 0                                      | 0  | 0                         | 0                         | 940  | 0                                       | 1,038                                 | 0                            | 1,978                        | 1,978                      | 595  |  |
| 2019          | 0                                       | 0                                      | 0  | 0                         | 0                         | 962  | 0                                       | 1,211                                 | 0                            | 2,173                        | 2,173                      | 1,470  |  |
| 2020          | 0                                       | 0                                      | 0  | 0                         | 0                         | 988  | 0                                       | 1,296                                 | 0                            | 2,282                        | 2,282                      | 2,321  |  |
| 2021          | 0                                       | 0                                      | 0  | 0                         | 0                         | 1,010                                      | 0                                       | 1,405                                 | 0                            | 2,414                        | 2,414                      | 3,156  |  |
| 2022          | 0                                       | 0                                      | 0  | 0                         | 0                         | 1,034                                      | 0                                       | 1,503                                 | 0                            | 2,537                        | 2,537                      | 3,969  |  |
| 2023          | 0                                       | 0                                      | 0  | 0                         | 0                         | 1,059                                      | 0                                       | 1,493                                 | 0                            | 2,552                        | 2,552                      | 4,727  |  |
| 2024          | 0                                       | 0                                      | 0  | 0                         | 0                         | 1,085                                      | 0                                       | 1,518                                 | 0                            | 2,603                        | 2,603                      | 5,444  |  |
| 2025          | 0                                       | 0                                      | 0  | 0                         | 0                         | 1,111                                      | 0                                       | 1,527                                 | 0                            | 2,639                        | 2,639                      | 6,118  |  |
| 2026          | 0                                       | 0                                      | 0  | 0                         | 0                         | 1,138                                      | 0                                       | 1,555                                 | 0                            | 2,693                        | 2,693                      | 6,755  |  |
| NOMINAL       | 0                                       | 11                                     | 10,791                                     | 0                         | 10,802                    | 16,086                                     | 0                                       | 20,973                                | 0                            | 37,059                       | 26,257                     |  |  |
| NPV:          | 0                                       | 10                                     | 10,010                                     | 0                         | 10,020                    | 7,163                                      | 0                                       | 9,612                                 | 0                            | 16,775                       | 6,755                      |  |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (6)]:   |                           |                           |  |   | 1.67                                  |                              |                              |                            |  |  |

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TAMPA ELECTRIC COMPANY  
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PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Commercial Chiller Replacement

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| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 387  | 0                         | 354                           | 0                            | 741                          | 3,509                                     | 0                                     | 0                         | 3,509                     | (2,768)                    | (2,768)   |
| 2008                         | 1,148  | 0                         | 354                           | 0                            | 1,503                        | 3,596                                     | 0                                     | 0                         | 3,596                     | (2,094)                    | (4,709)   |
| 2009                         | 1,915  | 0                         | 354                           | 0                            | 2,270                        | 3,686                                     | 0                                     | 0                         | 3,686                     | (1,417)                    | (5,926)   |
| 2010                         | 2,322  | 0                         | 0                             | 0                            | 2,322                        | 0   | 0                                     | 0                         | 0                         | 2,322                      | (4,076)   |
| 2011                         | 2,339  | 0                         | 0                             | 0                            | 2,339                        | 0   | 0                                     | 0                         | 0                         | 2,339                      | (2,349)   |
| 2012                         | 2,402  | 0                         | 0                             | 0                            | 2,402                        | 0   | 0                                     | 0                         | 0                         | 2,402                      | (705)   |
| 2013                         | 2,268  | 0                         | 0                             | 0                            | 2,268                        | 0   | 0                                     | 0                         | 0                         | 2,268                      | 734   |
| 2014                         | 2,329  | 0                         | 0                             | 0                            | 2,329                        | 0   | 0                                     | 0                         | 0                         | 2,329                      | 2,104   |
| 2015                         | 2,372  | 0                         | 0                             | 0                            | 2,372                        | 0   | 0                                     | 0                         | 0                         | 2,372                      | 3,396   |
| 2016                         | 2,464  | 0                         | 0                             | 0                            | 2,464                        | 0   | 0                                     | 0                         | 0                         | 2,464                      | 4,641   |
| 2017                         | 2,513  | 0                         | 0                             | 0                            | 2,513                        | 0   | 0                                     | 0                         | 0                         | 2,513                      | 5,818   |
| 2018                         | 2,609  | 0                         | 0                             | 0                            | 2,609                        | 0   | 0                                     | 0                         | 0                         | 2,609                      | 6,951   |
| 2019                         | 2,696  | 0                         | 0                             | 0                            | 2,696                        | 0   | 0                                     | 0                         | 0                         | 2,696                      | 8,036   |
| 2020                         | 2,792  | 0                         | 0                             | 0                            | 2,792                        | 0   | 0                                     | 0                         | 0                         | 2,792                      | 9,078   |
| 2021                         | 2,865  | 0                         | 0                             | 0                            | 2,865                        | 0   | 0                                     | 0                         | 0                         | 2,865                      | 10,069  |
| 2022                         | 2,925  | 0                         | 0                             | 0                            | 2,925                        | 0   | 0                                     | 0                         | 0                         | 2,925                      | 11,006  |
| 2023                         | 3,021  | 0                         | 0                             | 0                            | 3,021                        | 0   | 0                                     | 0                         | 0                         | 3,021                      | 11,904  |
| 2024                         | 3,127  | 0                         | 0                             | 0                            | 3,127                        | 0   | 0                                     | 0                         | 0                         | 3,127                      | 12,765  |
| 2025                         | 3,188  | 0                         | 0                             | 0                            | 3,188                        | 0   | 0                                     | 0                         | 0                         | 3,188                      | 13,579  |
| 2026                         | 3,261  | 0                         | 0                             | 0                            | 3,261                        | 0   | 0                                     | 0                         | 0                         | 3,261                      | 14,351  |
| NOMINAL                      | 48,945   | 0                         | 1,063                         | 0                            | 50,008                       | 10,791                                    | 0                                     | 0                         | 10,791                    | 39,217                     |   |
| NPV:                         | 23,373   | 0                         | 987                           | 0                            | 24,360                       | 10,010                                    | 0                                     | 0                         | 10,010                    | 14,351                     |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
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FILED: JUNE 15, 2007

RATE IMPACT TEST  
PROGRAM: Commercial Chiller Replacement

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June 6, 2007

| (1)            | (2)                    | (3)                   | (4)        | (5)            | (6)         | (7)         | (8)                                      | (9)                    | (10)          | (11)           | (12)           | (13)                          | (14)                              |
|----------------|------------------------|-----------------------|------------|----------------|-------------|-------------|--|------------------------|---------------|----------------|----------------|-------------------------------|-----------------------------------|
| YEAR           | INCREASED SUPPLY COSTS | UTILITY PROGRAM COSTS | INCENTIVES | REVENUE LOSSES | OTHER COSTS | TOTAL COSTS | AVOIDED GEN UNIT UNIT & FUEL BENEFITS    | AVOIDED T & D BENEFITS | REVENUE GAINS | OTHER BENEFITS | TOTAL BENEFITS | NET BENEFITS TO ALL CUSTOMERS | CUMULATIVE DISCOUNTED NET BENEFIT |
|                | \$(000)                | \$(000)               | \$(000)    | \$(000)        | \$(000)     | \$(000)     | \$(000)                                  | \$(000)                | \$(000)       | \$(000)        | \$(000)        | \$(000)                       | \$(000)                           |
| 2007           | 0                      | 4                     | 354        | 210            | 0           | 568         | 154                                      | 0                      | 0             | 0              | 154            | (413)                         | (413)                             |
| 2008           | 0                      | 4                     | 354        | 636            | 0           | 994         | 496                                      | 0                      | 0             | 0              | 496            | (498)                         | (875)                             |
| 2009           | 0                      | 4                     | 354        | 1,070          | 0           | 1,428       | 809                                      | 0                      | 0             | 0              | 809            | (619)                         | (1407)                            |
| 2010           | 0                      | 0                     | 0          | 1,297          | 0           | 1,297       | 1,627                                    | 0                      | 0             | 0              | 1,627          | 330                           | (1144)                            |
| 2011           | 0                      | 0                     | 0          | 1,310          | 0           | 1,310       | 1,629                                    | 0                      | 0             | 0              | 1,629          | 320                           | (908)                             |
| 2012           | 0                      | 0                     | 0          | 1,323          | 0           | 1,323       | 1,667                                    | 0                      | 0             | 0              | 1,667          | 344                           | (673)                             |
| 2013           | 0                      | 0                     | 0          | 1,336          | 0           | 1,336       | 1,663                                    | 0                      | 0             | 0              | 1,663          | 327                           | (485)                             |
| 2014           | 0                      | 0                     | 0          | 1,349          | 0           | 1,349       | 1,729                                    | 0                      | 0             | 0              | 1,729          | 379                           | (242)                             |
| 2015           | 0                      | 0                     | 0          | 1,363          | 0           | 1,363       | 1,746                                    | 0                      | 0             | 0              | 1,746          | 383                           | (34)                              |
| 2016           | 0                      | 0                     | 0          | 1,377          | 0           | 1,377       | 1,806                                    | 0                      | 0             | 0              | 1,806          | 429                           | 183                               |
| 2017           | 0                      | 0                     | 0          | 1,390          | 0           | 1,390       | 1,862                                    | 0                      | 0             | 0              | 1,862          | 472                           | 404                               |
| 2018           | 0                      | 0                     | 0          | 1,404          | 0           | 1,404       | 1,978                                    | 0                      | 0             | 0              | 1,978          | 573                           | 653                               |
| 2019           | 0                      | 0                     | 0          | 1,418          | 0           | 1,418       | 2,173                                    | 0                      | 0             | 0              | 2,173          | 755                           | 957                               |
| 2020           | 0                      | 0                     | 0          | 1,432          | 0           | 1,432       | 2,282                                    | 0                      | 0             | 0              | 2,282          | 849                           | 1274                              |
| 2021           | 0                      | 0                     | 0          | 1,447          | 0           | 1,447       | 2,414                                    | 0                      | 0             | 0              | 2,414          | 967                           | 1608                              |
| 2022           | 0                      | 0                     | 0          | 1,461          | 0           | 1,461       | 2,537                                    | 0                      | 0             | 0              | 2,537          | 1,076                         | 1953                              |
| 2023           | 0                      | 0                     | 0          | 1,476          | 0           | 1,476       | 2,552                                    | 0                      | 0             | 0              | 2,552          | 1,076                         | 2273                              |
| 2024           | 0                      | 0                     | 0          | 1,491          | 0           | 1,491       | 2,603                                    | 0                      | 0             | 0              | 2,603          | 1,113                         | 2579                              |
| 2025           | 0                      | 0                     | 0          | 1,506          | 0           | 1,506       | 2,639                                    | 0                      | 0             | 0              | 2,639          | 1,133                         | 2869                              |
| 2026           | 0                      | 0                     | 0          | 1,521          | 0           | 1,521       | 2,693                                    | 0                      | 0             | 0              | 2,693          | 1,173                         | 3146                              |
| NOMINAL        | 0                      | 11                    | 1,063      | 25,816         | 0           | 26,890      | 37,059                                   | 0                      | 0             | 0              | 37,059         | 10,169                        |                                   |
| NPV:           | 0                      | 10                    | 987        | 12,631         | 0           | 13,629      | 16,775                                   | 0                      | 0             | 0              | 16,775         | 3,146                         |                                   |
| Discount rate: |                        |                       | 0.0788     |                |             |             | Benefit/Cost Ratio - [col (12)/col (7)]: |                        |               | 1.23           |                |                               |                                   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

**INPUT DATA - PART 1**  
**PROGRAM TITLE: Conditioned Space Commercial Lighting**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                    |
|---|--------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 40.820 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 42.243 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %              |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 187193 KWH/CUST/YR |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %              |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                  |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR      |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 176336 KWH/CUST/YR |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 15 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 1        |

**UTILITY & CUSTOMER COSTS**

|   |                  |
|---|------------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 358.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR  |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %            |
| III. (4) CUSTOMER EQUIPMENT COST                  | 79195.00 \$/CUST |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %            |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR     |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %            |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST        |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %              |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR     |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %              |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788           |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779           |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 6123.00 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR  |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %              |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

|   |                 |
|---|-----------------|
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 1.370 CENTS/KWH |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %             |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 7.25 \$/KW/MO   |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %             |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 1.4             |

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.17 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 649  |
| (3)* RM TEST - BENEFIT/COST RATIO   | 1.30 |

TAMPA ELECTRIC COMPANY  
 DSM PROGRAM MODIFICATIONS  
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TOTAL RESOURCE COST TESTS  
PROGRAM: Conditioned Space Commercial Lighting

PSC FORM CE 2.3  
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| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |  |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |  |
| 2007          | 0                                       | 1                                      | 317  | 0                         | 318                       | 0  | 0                                       | 15                                    | 0                            | 15                           | (303)                      | (303)  |  |
| 2008          | 0                                       | 1                                      | 325  | 0                         | 326                       | 0  | 0                                       | 49                                    | 0                            | 49                           | (277)                      | (560)  |  |
| 2009          | 0                                       | 2                                      | 333  | 0                         | 334                       | 0  | 0                                       | 81                                    | 0                            | 81                           | (253)                      | (777)  |  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 42   | 0                                       | 86                                    | 0                            | 127                          | 127                        | (676)  |  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 43   | 0                                       | 84                                    | 0                            | 127                          | 127                        | (583)  |  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 44   | 0                                       | 86                                    | 0                            | 129                          | 129                        | (494)  |  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 45   | 0                                       | 83                                    | 0                            | 128                          | 128                        | (413)  |  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 46   | 0                                       | 88                                    | 0                            | 134                          | 134                        | (334)  |  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 47   | 0                                       | 88                                    | 0                            | 135                          | 135                        | (261)  |  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 48   | 0                                       | 92                                    | 0                            | 140                          | 140                        | (190)  |  |
| 2017          | 0                                       | 0                                      | 0  | 0                         | 0                         | 49   | 0                                       | 95                                    | 0                            | 144                          | 144                        | (123)  |  |
| 2018          | 0                                       | 0                                      | 0  | 0                         | 0                         | 50   | 0                                       | 104                                   | 0                            | 155                          | 155                        | (56)   |  |
| 2019          | 0                                       | 0                                      | 0  | 0                         | 0                         | 52   | 0                                       | 122                                   | 0                            | 173                          | 173                        | 14   |  |
| 2020          | 0                                       | 0                                      | 0  | 0                         | 0                         | 53   | 0                                       | 130                                   | 0                            | 183                          | 183                        | 83   |  |
| 2021          | 0                                       | 0                                      | 0  | 0                         | 0                         | 54   | 0                                       | 141                                   | 0                            | 195                          | 195                        | 150  |  |
| NOMINAL       | 0                                       | 4                                      | 974  | 0                         | 979                       | 572  | 0                                       | 1,344                                 | 0                            | 1,916                        | 937                        |  |  |
| NPV:          | 0                                       | 4                                      | 904  | 0                         | 908                       | 304  | 0                                       | 754                                   | 0                            | 1,058                        | 150                        |  |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (8)]:   |                           |                           |  |   | 1.17                                  |                              |                              |                            |  |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
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PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Conditioned Space Commercial Lighting

PSC FORM CE 2.4  
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| (1)     | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|---------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR    | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007    | 30   | 0                         | 24                            | 0                            | 55                           | 317                                       | 0                                     | 0                         | 317                       | (262)                      | (262)   |
| 2008    | 89   | 0                         | 24                            | 0                            | 114                          | 325                                       | 0                                     | 0                         | 325                       | (211)                      | (458)   |
| 2009    | 149  | 0                         | 24                            | 0                            | 173                          | 333                                       | 0                                     | 0                         | 333                       | (160)                      | (595)   |
| 2010    | 180  | 0                         | 0                             | 0                            | 180                          | 0   | 0                                     | 0                         | 0                         | 180                        | (451)   |
| 2011    | 182  | 0                         | 0                             | 0                            | 182                          | 0   | 0                                     | 0                         | 0                         | 182                        | (317)   |
| 2012    | 187  | 0                         | 0                             | 0                            | 187                          | 0   | 0                                     | 0                         | 0                         | 187                        | (189)   |
| 2013    | 175  | 0                         | 0                             | 0                            | 175                          | 0   | 0                                     | 0                         | 0                         | 175                        | (78)  |
| 2014    | 180  | 0                         | 0                             | 0                            | 180                          | 0   | 0                                     | 0                         | 0                         | 180                        | 28  |
| 2015    | 184  | 0                         | 0                             | 0                            | 184                          | 0   | 0                                     | 0                         | 0                         | 184                        | 128   |
| 2016    | 191  | 0                         | 0                             | 0                            | 191                          | 0   | 0                                     | 0                         | 0                         | 191                        | 225   |
| 2017    | 195  | 0                         | 0                             | 0                            | 195                          | 0   | 0                                     | 0                         | 0                         | 195                        | 316   |
| 2018    | 204  | 0                         | 0                             | 0                            | 204                          | 0   | 0                                     | 0                         | 0                         | 204                        | 405   |
| 2019    | 211  | 0                         | 0                             | 0                            | 211                          | 0   | 0                                     | 0                         | 0                         | 211                        | 490   |
| 2020    | 219  | 0                         | 0                             | 0                            | 219                          | 0   | 0                                     | 0                         | 0                         | 219                        | 571   |
| 2021    | 225  | 0                         | 0                             | 0                            | 225                          | 0   | 0                                     | 0                         | 0                         | 225                        | 649   |
| NOMINAL | 2,601  | 0                         | 73                            | 0                            | 2,675                        | 974                                       | 0                                     | 0                         | 974                       | 1,701                      |   |
| NPV:    | 1,485  | 0                         | 68                            | 0                            | 1,553                        | 904                                       | 0                                     | 0                         | 904                       | 649                        |   |

In service year of gen unit: 2004  
Discount rate: 0.0788

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
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RATE IMPACT TEST  
PROGRAM: Conditioned Space Commercial Lighting

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| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)   | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|---|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 1                                      | 24                    | 15                           | 0                         | 41                        | 15  | 0                                       | 0                           | 0                            | 15                           | (25)  | (25)  |
| 2008           | 0                                       | 1                                      | 24                    | 45                           | 0                         | 71                        | 49  | 0                                       | 0                           | 0                            | 49                           | (22)  | (45)  |
| 2009           | 0                                       | 2                                      | 24                    | 75                           | 0                         | 101                       | 81  | 0                                       | 0                           | 0                            | 81                           | (20)  | (63)  |
| 2010           | 0                                       | 0                                      | 0                     | 91                           | 0                         | 91                        | 127   | 0                                       | 0                           | 0                            | 127                          | 36  | (34)  |
| 2011           | 0                                       | 0                                      | 0                     | 92                           | 0                         | 92                        | 127   | 0                                       | 0                           | 0                            | 127                          | 34  | (9)   |
| 2012           | 0                                       | 0                                      | 0                     | 93                           | 0                         | 93                        | 129   | 0                                       | 0                           | 0                            | 129                          | 36  | 16  |
| 2013           | 0                                       | 0                                      | 0                     | 94                           | 0                         | 94                        | 128   | 0                                       | 0                           | 0                            | 128                          | 34  | 37  |
| 2014           | 0                                       | 0                                      | 0                     | 95                           | 0                         | 95                        | 134   | 0                                       | 0                           | 0                            | 134                          | 39  | 60  |
| 2015           | 0                                       | 0                                      | 0                     | 96                           | 0                         | 96                        | 135   | 0                                       | 0                           | 0                            | 135                          | 39  | 81  |
| 2016           | 0                                       | 0                                      | 0                     | 97                           | 0                         | 97                        | 140   | 0                                       | 0                           | 0                            | 140                          | 43  | 103   |
| 2017           | 0                                       | 0                                      | 0                     | 98                           | 0                         | 98                        | 144   | 0                                       | 0                           | 0                            | 144                          | 46  | 124   |
| 2018           | 0                                       | 0                                      | 0                     | 99                           | 0                         | 99                        | 155   | 0                                       | 0                           | 0                            | 155                          | 56  | 149   |
| 2019           | 0                                       | 0                                      | 0                     | 100                          | 0                         | 100                       | 173   | 0                                       | 0                           | 0                            | 173                          | 74  | 178   |
| 2020           | 0                                       | 0                                      | 0                     | 101                          | 0                         | 101                       | 183   | 0                                       | 0                           | 0                            | 183                          | 82  | 209   |
| 2021           | 0                                       | 0                                      | 0                     | 102                          | 0                         | 102                       | 185   | 0                                       | 0                           | 0                            | 185                          | 94  | 241   |
| NOMINAL        | 0                                       | 4                                      | 73                    | 1,293                        | 0                         | 1,371                     | 1,916   | 0                                       | 0                           | 0                            | 1,916                        | 545   |   |
| NPV:           | 0                                       | 4                                      | 68                    | 744                          | 0                         | 817                       | 1,058   | 0                                       | 0                           | 0                            | 1,058                        | 241   |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:                  |   |                             | 1.30                         |                              |   |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007



**INPUT DATA - PART 1**  
**PROGRAM TITLE: Un-conditioned Space Commercial Lighting**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                    |
|---|--------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 46.950 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 51.981 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %              |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 299766 KWH/CUST/YR |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %              |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                  |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR      |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 282380 KWH/CUST/YR |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 15 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 1        |

**UTILITY & CUSTOMER COSTS**

|   |                  |
|---|------------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 250.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR  |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %            |
| III. (4) CUSTOMER EQUIPMENT COST                  | 91479.00 \$/CUST |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %            |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR     |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %            |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST        |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %              |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR     |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %              |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788           |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779           |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 7042.50 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR  |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %              |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

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

**CALCULATED BENEFITS AND COSTS**

|                                     |       |
|-------------------------------------|-------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.34  |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 1,021 |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.59  |

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 DSM PROGRAM MODIFICATIONS  
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TOTAL RESOURCE COST TESTS  
PROGRAM: Un-conditioned Space Commercial Lighting

PSC FORM CE 2.3  
Page 1 of 1  
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| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |  |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |  |
| 2007          | 0                                       | 1                                      | 366  | 0                         | 367                       | 0  | 0                                       | 24                                    | 0                            | 24                           | (342)                      | (342)  |  |
| 2008          | 0                                       | 1                                      | 375  | 0                         | 376                       | 0  | 0                                       | 70                                    | 0                            | 70                           | (306)                      | (626)  |  |
| 2009          | 0                                       | 1                                      | 384  | 0                         | 385                       | 0  | 0                                       | 112                                   | 0                            | 112                          | (273)                      | (861)  |  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 46   | 0                                       | 122                                   | 0                            | 167                          | 167                        | (728)  |  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 47   | 0                                       | 119                                   | 0                            | 166                          | 166                        | (605)  |  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 48   | 0                                       | 122                                   | 0                            | 170                          | 170                        | (489)  |  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 49   | 0                                       | 119                                   | 0                            | 168                          | 168                        | (382)  |  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 50   | 0                                       | 125                                   | 0                            | 175                          | 175                        | (279)  |  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 51   | 0                                       | 125                                   | 0                            | 176                          | 176                        | (183)  |  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 53   | 0                                       | 130                                   | 0                            | 183                          | 183                        | (91)   |  |
| 2017          | 0                                       | 0                                      | 0  | 0                         | 0                         | 54   | 0                                       | 135                                   | 0                            | 189                          | 189                        | (2)  |  |
| 2018          | 0                                       | 0                                      | 0  | 0                         | 0                         | 55   | 0                                       | 149                                   | 0                            | 204                          | 204                        | 86   |  |
| 2019          | 0                                       | 0                                      | 0  | 0                         | 0                         | 57   | 0                                       | 173                                   | 0                            | 230                          | 230                        | 179  |  |
| 2020          | 0                                       | 0                                      | 0  | 0                         | 0                         | 58   | 0                                       | 186                                   | 0                            | 243                          | 243                        | 270  |  |
| 2021          | 0                                       | 0                                      | 0  | 0                         | 0                         | 59   | 0                                       | 201                                   | 0                            | 260                          | 260                        | 360  |  |
| NOMINAL       | 0                                       | 3                                      | 1,125                                      | 0                         | 1,128                     | 626  | 0                                       | 1,913                                 | 0                            | 2,539                        | 1,410                      |  |  |
| NPV:          | 0                                       | 3                                      | 1,044                                      | 0                         | 1,047                     | 333  | 0                                       | 1,074                                 | 0                            | 1,406                        | 360                        |  |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (6)]:   |                           |                           |  |   | 1.34                                  |                              |                              |                            |  |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Un-conditioned Space Commercial Lighting

PSC FORM CE 2.4  
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June 6, 2007

| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 40   | 0                         | 28                            | 0                            | 68                           | 366                                       | 0                                     | 0                         | 366                       | (297)                      | (297)   |
| 2008                         | 119  | 0                         | 28                            | 0                            | 148                          | 375                                       | 0                                     | 0                         | 375                       | (227)                      | (508)   |
| 2009                         | 199  | 0                         | 28                            | 0                            | 227                          | 384                                       | 0                                     | 0                         | 384                       | (158)                      | (643)   |
| 2010                         | 241  | 0                         | 0                             | 0                            | 241                          | 0   | 0                                     | 0                         | 0                         | 241                        | (452)   |
| 2011                         | 243  | 0                         | 0                             | 0                            | 243                          | 0   | 0                                     | 0                         | 0                         | 243                        | (272)   |
| 2012                         | 250  | 0                         | 0                             | 0                            | 250                          | 0   | 0                                     | 0                         | 0                         | 250                        | (101)   |
| 2013                         | 231  | 0                         | 0                             | 0                            | 231                          | 0   | 0                                     | 0                         | 0                         | 231                        | 45  |
| 2014                         | 239  | 0                         | 0                             | 0                            | 239                          | 0   | 0                                     | 0                         | 0                         | 239                        | 186   |
| 2015                         | 244  | 0                         | 0                             | 0                            | 244                          | 0   | 0                                     | 0                         | 0                         | 244                        | 319   |
| 2016                         | 256  | 0                         | 0                             | 0                            | 256                          | 0   | 0                                     | 0                         | 0                         | 256                        | 448   |
| 2017                         | 262  | 0                         | 0                             | 0                            | 262                          | 0   | 0                                     | 0                         | 0                         | 262                        | 570   |
| 2018                         | 274  | 0                         | 0                             | 0                            | 274                          | 0   | 0                                     | 0                         | 0                         | 274                        | 689   |
| 2019                         | 285  | 0                         | 0                             | 0                            | 285                          | 0   | 0                                     | 0                         | 0                         | 285                        | 804   |
| 2020                         | 298  | 0                         | 0                             | 0                            | 298                          | 0   | 0                                     | 0                         | 0                         | 298                        | 915   |
| 2021                         | 307  | 0                         | 0                             | 0                            | 307                          | 0   | 0                                     | 0                         | 0                         | 307                        | 1,021   |
| NOMINAL                      | 3,487  | 0                         | 85                            | 0                            | 3,572                        | 1,125                                     | 0                                     | 0                         | 1,125                     | 2,446                      |   |
| NPV:                         | 1,987  | 0                         | 78                            | 0                            | 2,065                        | 1,044                                     | 0                                     | 0                         | 1,044                     | 1,021                      |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
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RATE IMPACT TEST  
PROGRAM: Un-conditioned Space Commercial Lighting

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| (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) |
| 2007           | 0                              | 1                             | 28                 | 16                     | 0  | 45                  | 24                                       | 0                              | 0                     | 0                      | 24                     | (21)                                  | (21)                                      |
| 2008           | 0                              | 1                             | 28                 | 48                     | 0  | 77                  | 70                                       | 0                              | 0                     | 0                      | 70                     | (7)                                   | (28)                                      |
| 2009           | 0                              | 1                             | 28                 | 81                     | 0  | 110                 | 112                                      | 0                              | 0                     | 0                      | 112                    | 2                                     | (26)                                      |
| 2010           | 0                              | 0                             | 0                  | 98                     | 0  | 98                  | 167                                      | 0                              | 0                     | 0                      | 167                    | 69                                    | 29  |
| 2011           | 0                              | 0                             | 0                  | 99                     | 0  | 99                  | 166                                      | 0                              | 0                     | 0                      | 166                    | 67                                    | 78  |
| 2012           | 0                              | 0                             | 0                  | 100                    | 0  | 100                 | 170                                      | 0                              | 0                     | 0                      | 170                    | 70                                    | 126                                       |
| 2013           | 0                              | 0                             | 0                  | 101                    | 0  | 101                 | 168                                      | 0                              | 0                     | 0                      | 168                    | 66                                    | 168                                       |
| 2014           | 0                              | 0                             | 0                  | 102                    | 0  | 102                 | 175                                      | 0                              | 0                     | 0                      | 175                    | 73                                    | 211                                       |
| 2015           | 0                              | 0                             | 0                  | 103                    | 0  | 103                 | 178                                      | 0                              | 0                     | 0                      | 178                    | 73                                    | 251                                       |
| 2016           | 0                              | 0                             | 0                  | 104                    | 0  | 104                 | 183                                      | 0                              | 0                     | 0                      | 183                    | 79                                    | 291                                       |
| 2017           | 0                              | 0                             | 0                  | 105                    | 0  | 105                 | 189                                      | 0                              | 0                     | 0                      | 189                    | 84                                    | 330                                       |
| 2018           | 0                              | 0                             | 0                  | 106                    | 0  | 106                 | 204                                      | 0                              | 0                     | 0                      | 204                    | 97                                    | 372                                       |
| 2019           | 0                              | 0                             | 0                  | 108                    | 0  | 108                 | 230                                      | 0                              | 0                     | 0                      | 230                    | 122                                   | 421                                       |
| 2020           | 0                              | 0                             | 0                  | 109                    | 0  | 109                 | 243                                      | 0                              | 0                     | 0                      | 243                    | 135                                   | 471                                       |
| 2021           | 0                              | 0                             | 0                  | 110                    | 0  | 110                 | 260                                      | 0                              | 0                     | 0                      | 260                    | 151                                   | 524                                       |
| NOMINAL        | 0                              | 3                             | 85                 | 1,392                  | 0  | 1,480               | 2,539                                    | 0                              | 0                     | 0                      | 2,539                  | 1,059                                 |   |
| NPV:           | 0                              | 3                             | 78                 | 801                    | 0  | 883                 | 1,406                                    | 0                              | 0                     | 0                      | 1,406                  | 524                                   |   |
| Discount rate: |                                |                               |                    | 0.0788                 | Benefit/Cost Ratio - [col (12)/col (7)]: |                     |  |                                | 1.59                  |                        |                        |                                       |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

**INPUT DATA - PART 1**  
**PROGRAM TITLE: Commercial Lighting Occupancy Sensor**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                   |
|---|-------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 0.680 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 0.734 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 11227 KWH/CUST/YR |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 10576 KWH/CUST/YR |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 15 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 1        |

**UTILITY & CUSTOMER COSTS**

|   |                 |
|---|-----------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 50.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |
| III. (4) CUSTOMER EQUIPMENT COST                  | 2400.00 \$/CUST |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 51.00 \$/CUST   |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

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

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.57 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 236  |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 2.03 |

**TAMPA ELECTRIC COMPANY**  
**DSM PROGRAM MODIFICATIONS**  
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TOTAL RESOURCE COST TESTS  
PROGRAM: Commercial Lighting Occupancy Sensor

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| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |  |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |  |
| 2007          | 0                                       | 1                                      | 60   | 0                         | 61                        | 0  | 0                                       | 5                                     | 0                            | 5                            | (56)                       | (56)   |  |
| 2008          | 0                                       | 1                                      | 62   | 0                         | 63                        | 0  | 0                                       | 16                                    | 0                            | 16                           | (47)                       | (100)  |  |
| 2009          | 0                                       | 1                                      | 63   | 0                         | 64                        | 0  | 0                                       | 27                                    | 0                            | 27                           | (38)                       | (132)  |  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 28                                    | 0                            | 32                           | 32                         | (107)  |  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 27                                    | 0                            | 31                           | 31                         | (84)   |  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 28                                    | 0                            | 32                           | 32                         | (62)   |  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 27                                    | 0                            | 31                           | 31                         | (42)   |  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 29                                    | 0                            | 33                           | 33                         | (22)   |  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 4  | 0                                       | 29                                    | 0                            | 33                           | 33                         | (4)  |  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 30                                    | 0                            | 34                           | 34                         | 13   |  |
| 2017          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 31                                    | 0                            | 36                           | 36                         | 30   |  |
| 2018          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 34                                    | 0                            | 39                           | 39                         | 47   |  |
| 2019          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 40                                    | 0                            | 45                           | 45                         | 65   |  |
| 2020          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 43                                    | 0                            | 48                           | 48                         | 83   |  |
| 2021          | 0                                       | 0                                      | 0  | 0                         | 0                         | 5  | 0                                       | 46                                    | 0                            | 51                           | 51                         | 100  |  |
| NOMINAL       | 0                                       | 4                                      | 185  | 0                         | 188                       | 54   | 0                                       | 439                                   | 0                            | 493                          | 305                        |  |  |
| NPV:          | 0                                       | 4                                      | 171  | 0                         | 175                       | 29   | 0                                       | 246                                   | 0                            | 275                          | 100                        |  |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (6)]:   |                           |                           |  |   | 1.57                                  |                              |                              |                            |  |  |

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PARTICIPANT COSTS AND BENEFITS  
 PROGRAM: Commercial Lighting Occupancy Sensor

| (1)     | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|---------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR    | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007    | 8  | 0                         | 1                             | 0                            | 10                           | 60  | 0                                     | 0                         | 60                        | (50)                       | (50)  |
| 2008    | 24   | 0                         | 1                             | 0                            | 26                           | 62  | 0                                     | 0                         | 62                        | (36)                       | (84)  |
| 2009    | 41   | 0                         | 1                             | 0                            | 42                           | 63  | 0                                     | 0                         | 63                        | (21)                       | (102)   |
| 2010    | 49   | 0                         | 0                             | 0                            | 49                           | 0   | 0                                     | 0                         | 0                         | .49                        | (63)  |
| 2011    | 49   | 0                         | 0                             | 0                            | 49                           | 0   | 0                                     | 0                         | 0                         | .49                        | (26)  |
| 2012    | 51   | 0                         | 0                             | 0                            | 51                           | 0   | 0                                     | 0                         | 0                         | .51                        | 9   |
| 2013    | 47   | 0                         | 0                             | 0                            | 47                           | 0   | 0                                     | 0                         | 0                         | .47                        | 38  |
| 2014    | 48   | 0                         | 0                             | 0                            | 48                           | 0   | 0                                     | 0                         | 0                         | .48                        | 67  |
| 2015    | 49   | 0                         | 0                             | 0                            | 49                           | 0   | 0                                     | 0                         | 0                         | .49                        | 94  |
| 2016    | 52   | 0                         | 0                             | 0                            | 52                           | 0   | 0                                     | 0                         | 0                         | .52                        | 120   |
| 2017    | 53   | 0                         | 0                             | 0                            | 53                           | 0   | 0                                     | 0                         | 0                         | .53                        | 145   |
| 2018    | 56   | 0                         | 0                             | 0                            | 56                           | 0   | 0                                     | 0                         | 0                         | .56                        | 170   |
| 2019    | 59   | 0                         | 0                             | 0                            | 59                           | 0   | 0                                     | 0                         | 0                         | .59                        | 193   |
| 2020    | 62   | 0                         | 0                             | 0                            | 62                           | 0   | 0                                     | 0                         | 0                         | .62                        | 216   |
| 2021    | 64   | 0                         | 0                             | 0                            | 64                           | 0   | 0                                     | 0                         | 0                         | .64                        | 238   |
| NOMINAL | 714  | 0                         | 4                             | 0                            | 717                          | 185                                       | 0                                     | 0                         | 185                       | 533                        |   |
| NPV:    | 406  | 0                         | 4                             | 0                            | 410                          | 171                                       | 0                                     | 0                         | 171                       | 238                        |   |

In service year of gen unit: 2004  
 Discount rate: 0.0788

RATE IMPACT TEST  
PROGRAM: Commercial Lighting Occupancy Sensor

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| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)   | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|---|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 1                                      | 1                     | 3                            | 0                         | 5                         | 5   | 0                                       | 0                           | 0                            | 5                            | (0)   | (0)   |
| 2008           | 0                                       | 1                                      | 1                     | 8                            | 0                         | 10                        | 16  | 0                                       | 0                           | 0                            | 16                           | 6   | 5   |
| 2009           | 0                                       | 1                                      | 1                     | 13                           | 0                         | 16                        | 27  | 0                                       | 0                           | 0                            | 27                           | 11  | 15  |
| 2010           | 0                                       | 0                                      | 0                     | 16                           | 0                         | 16                        | 32  | 0                                       | 0                           | 0                            | 32                           | 16  | 27  |
| 2011           | 0                                       | 0                                      | 0                     | 16                           | 0                         | 16                        | 31  | 0                                       | 0                           | 0                            | 31                           | 16  | 39  |
| 2012           | 0                                       | 0                                      | 0                     | 16                           | 0                         | 16                        | 32  | 0                                       | 0                           | 0                            | 32                           | 16  | 50  |
| 2013           | 0                                       | 0                                      | 0                     | 16                           | 0                         | 16                        | 31  | 0                                       | 0                           | 0                            | 31                           | 15  | 59  |
| 2014           | 0                                       | 0                                      | 0                     | 16                           | 0                         | 16                        | 33  | 0                                       | 0                           | 0                            | 33                           | 17  | 69  |
| 2015           | 0                                       | 0                                      | 0                     | 17                           | 0                         | 17                        | 33  | 0                                       | 0                           | 0                            | 33                           | 16  | 78  |
| 2016           | 0                                       | 0                                      | 0                     | 17                           | 0                         | 17                        | 34  | 0                                       | 0                           | 0                            | 34                           | 18  | 87  |
| 2017           | 0                                       | 0                                      | 0                     | 17                           | 0                         | 17                        | 36  | 0                                       | 0                           | 0                            | 36                           | 19  | 96  |
| 2018           | 0                                       | 0                                      | 0                     | 17                           | 0                         | 17                        | 39  | 0                                       | 0                           | 0                            | 39                           | 22  | 105   |
| 2019           | 0                                       | 0                                      | 0                     | 17                           | 0                         | 17                        | 45  | 0                                       | 0                           | 0                            | 45                           | 27  | 117   |
| 2020           | 0                                       | 0                                      | 0                     | 17                           | 0                         | 17                        | 48  | 0                                       | 0                           | 0                            | 48                           | 30  | 128   |
| 2021           | 0                                       | 0                                      | 0                     | 18                           | 0                         | 18                        | 51  | 0                                       | 0                           | 0                            | 51                           | 34  | 139   |
| NOMINAL        | 0                                       | 4                                      | 4                     | 223                          | 0                         | 231                       | 493   | 0                                       | 0                           | 0                            | 493                          | 262   |   |
| NPV:           | 0                                       | 4                                      | 4                     | 129                          | 0                         | 136                       | 275   | 0                                       | 0                           | 0                            | 275                          | 139   |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:                  |   |                             | 2.03                         |                              |   |   |

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DSM PROGRAM MODIFICATIONS  
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**INPUT DATA - PART 1**  
**PROGRAM TITLE: Standby Generator**

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**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                     |
|---|---------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 472.000 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 517.930 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %               |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 49660 KWH/CUST/YR   |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %               |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                   |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR       |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 46780 KWH/CUST/YR   |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 26 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 0        |

**UTILITY & CUSTOMER COSTS**

|   |                     |
|---|---------------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 6304.00 \$/CUST     |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 743.00 \$/CUST/YR   |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %               |
| III. (4) CUSTOMER EQUIPMENT COST                  | 0.00 \$/CUST        |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %               |
| III. (6) CUSTOMER O & M COST                      | 4872.85 \$/CUST/YR  |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %               |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST           |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %                 |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR        |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %                 |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788              |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779              |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 0.00 \$/CUST        |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 19089.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %                 |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

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

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 8.38 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 494  |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 3.06 |

TOTAL RESOURCE COST TESTS  
PROGRAM: Standby Generator

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| (1)           | (2)                               | (3)                              | (4)                                      | (5)                    | (6)                    | (7)                                  | (8)                               | (9)                             | (10)                      | (11)                      | (12)                    | (13)  |  |
|---------------|-----------------------------------|----------------------------------|--|------------------------|------------------------|--------------------------------------|-----------------------------------|---------------------------------|---------------------------|---------------------------|-------------------------|---|--|
| YEAR          | INCREASED SUPPLY COSTS<br>\$(000) | UTILITY PROGRAM COSTS<br>\$(000) | PARTICIPANT PROGRAM COSTS<br>\$(000)     | OTHER COSTS<br>\$(000) | TOTAL COSTS<br>\$(000) | AVOIDED GEN UNIT BENEFITS<br>\$(000) | AVOIDED T & D BENEFITS<br>\$(000) | PROGRAM FUEL SAVINGS<br>\$(000) | OTHER BENEFITS<br>\$(000) | TOTAL BENEFITS<br>\$(000) | NET BENEFITS<br>\$(000) | CUMULATIVE DISCOUNTED NET BENEFITS<br>\$(000) |  |
| 2007          | 0                                 | 7                                | 2  | 0                      | 9                      | 0                                    | 0                                 | 1                               | 0                         | 1                         | (8)                     | (8)   |  |
| 2008          | 0                                 | 8                                | 7  | 0                      | 15                     | 0                                    | 0                                 | 4                               | 0                         | 4                         | (11)                    | (18)  |  |
| 2009          | 0                                 | 9                                | 13                                       | 0                      | 21                     | 0                                    | 0                                 | 7                               | 0                         | 7                         | (14)                    | (30)  |  |
| 2010          | 0                                 | 2                                | 16                                       | 0                      | 18                     | 261                                  | 0                                 | 8                               | 0                         | 268                       | 250                     | 169   |  |
| 2011          | 0                                 | 2                                | 16                                       | 0                      | 19                     | 254                                  | 0                                 | 7                               | 0                         | 261                       | 243                     | 348   |  |
| 2012          | 0                                 | 3                                | 17                                       | 0                      | 19                     | 246                                  | 0                                 | 8                               | 0                         | 254                       | 235                     | 509   |  |
| 2013          | 0                                 | 3                                | 17                                       | 0                      | 20                     | 239                                  | 0                                 | 7                               | 0                         | 246                       | 227                     | 653   |  |
| 2014          | 0                                 | 3                                | 17                                       | 0                      | 20                     | 232                                  | 0                                 | 8                               | 0                         | 240                       | 220                     | 783   |  |
| 2015          | 0                                 | 3                                | 18                                       | 0                      | 21                     | 226                                  | 0                                 | 8                               | 0                         | 234                       | 213                     | 899   |  |
| 2016          | 0                                 | 3                                | 18                                       | 0                      | 21                     | 220                                  | 0                                 | 8                               | 0                         | 229                       | 207                     | 1,004   |  |
| 2017          | 0                                 | 3                                | 19                                       | 0                      | 22                     | 215                                  | 0                                 | 8                               | 0                         | 223                       | 202                     | 1,098   |  |
| 2018          | 0                                 | 3                                | 19                                       | 0                      | 22                     | 209                                  | 0                                 | 9                               | 0                         | 218                       | 196                     | 1,183   |  |
| 2019          | 0                                 | 3                                | 20                                       | 0                      | 23                     | 203                                  | 0                                 | 11                              | 0                         | 214                       | 191                     | 1,260   |  |
| 2020          | 0                                 | 3                                | 20                                       | 0                      | 23                     | 198                                  | 0                                 | 12                              | 0                         | 209                       | 186                     | 1,330   |  |
| 2021          | 0                                 | 3                                | 21                                       | 0                      | 24                     | 192                                  | 0                                 | 12                              | 0                         | 205                       | 181                     | 1,392   |  |
| 2022          | 0                                 | 3                                | 21                                       | 0                      | 24                     | 187                                  | 0                                 | 13                              | 0                         | 200                       | 176                     | 1,449   |  |
| 2023          | 0                                 | 3                                | 22                                       | 0                      | 25                     | 181                                  | 0                                 | 13                              | 0                         | 194                       | 169                     | 1,499   |  |
| 2024          | 0                                 | 3                                | 22                                       | 0                      | 26                     | 176                                  | 0                                 | 14                              | 0                         | 189                       | 164                     | 1,544   |  |
| 2025          | 0                                 | 3                                | 23                                       | 0                      | 26                     | 171                                  | 0                                 | 14                              | 0                         | 185                       | 159                     | 1,585   |  |
| 2026          | 0                                 | 4                                | 23                                       | 0                      | 27                     | 169                                  | 0                                 | 14                              | 0                         | 182                       | 155                     | 1,621   |  |
| 2027          | 0                                 | 4                                | 24                                       | 0                      | 28                     | 167                                  | 0                                 | 14                              | 0                         | 181                       | 153                     | 1,655   |  |
| 2028          | 0                                 | 4                                | 25                                       | 0                      | 28                     | 165                                  | 0                                 | 15                              | 0                         | 180                       | 151                     | 1,686   |  |
| 2029          | 0                                 | 4                                | 25                                       | 0                      | 29                     | 163                                  | 0                                 | 14                              | 0                         | 177                       | 148                     | 1,714   |  |
| 2030          | 0                                 | 4                                | 26                                       | 0                      | 30                     | 161                                  | 0                                 | 16                              | 0                         | 177                       | 147                     | 1,739   |  |
| 2031          | 0                                 | 4                                | 26                                       | 0                      | 30                     | 160                                  | 0                                 | 16                              | 0                         | 176                       | 145                     | 1,763   |  |
| 2032          | 0                                 | 4                                | 27                                       | 0                      | 31                     | 158                                  | 0                                 | 16                              | 0                         | 174                       | 143                     | 1,784   |  |
| NOMINAL       | 0                                 | 96                               | 504                                      | 0                      | 600                    | 4,554                                | 0                                 | 277                             | 0                         | 4,831                     | 4,231                   |   |  |
| NPV:          | 0                                 | 48                               | 194                                      | 0                      | 242                    | 1,924                                | 0                                 | 102                             | 0                         | 2,026                     | 1,784                   |   |  |
| Discount Rate |                                   | 0.0788                           | Benefit/Cost Ratio - [col (11)/col (6)]: |                        |                        |                                      |                                   | 8.38                            |                           |                           |                         |   |  |

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PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Standby Generator

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| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 1  | 0                         | 10                            | 0                            | 11                           | 0   | 2                                     | 0                         | 2                         | 8                          | 8   |
| 2008                         | 4  | 0                         | 29                            | 0                            | 33                           | 0   | 7                                     | 0                         | 7                         | 25                         | 32  |
| 2009                         | 7  | 0                         | 48                            | 0                            | 54                           | 0   | 13                                    | 0                         | 13                        | 41                         | 67  |
| 2010                         | 8  | 0                         | 57                            | 0                            | 65                           | 0   | 16                                    | 0                         | 16                        | 49                         | 107   |
| 2011                         | 8  | 0                         | 57                            | 0                            | 65                           | 0   | 16                                    | 0                         | 16                        | 49                         | 143   |
| 2012                         | 8  | 0                         | 57                            | 0                            | 66                           | 0   | 17                                    | 0                         | 17                        | 49                         | 176   |
| 2013                         | 7  | 0                         | 57                            | 0                            | 65                           | 0   | 17                                    | 0                         | 17                        | 48                         | 207   |
| 2014                         | 8  | 0                         | 57                            | 0                            | 65                           | 0   | 17                                    | 0                         | 17                        | 48                         | 235   |
| 2015                         | 8  | 0                         | 57                            | 0                            | 65                           | 0   | 18                                    | 0                         | 18                        | 47                         | 260   |
| 2016                         | 8  | 0                         | 57                            | 0                            | 66                           | 0   | 18                                    | 0                         | 18                        | 47                         | 284   |
| 2017                         | 9  | 0                         | 57                            | 0                            | 66                           | 0   | 19                                    | 0                         | 19                        | 47                         | 306   |
| 2018                         | 9  | 0                         | 57                            | 0                            | 66                           | 0   | 19                                    | 0                         | 19                        | 47                         | 327   |
| 2019                         | 10   | 0                         | 57                            | 0                            | 67                           | 0   | 20                                    | 0                         | 20                        | 47                         | 346   |
| 2020                         | 10   | 0                         | 57                            | 0                            | 67                           | 0   | 20                                    | 0                         | 20                        | 47                         | 363   |
| 2021                         | 10   | 0                         | 57                            | 0                            | 68                           | 0   | 21                                    | 0                         | 21                        | 47                         | 380   |
| 2022                         | 11   | 0                         | 57                            | 0                            | 68                           | 0   | 21                                    | 0                         | 21                        | 47                         | 395   |
| 2023                         | 11   | 0                         | 57                            | 0                            | 68                           | 0   | 22                                    | 0                         | 22                        | 47                         | 409   |
| 2024                         | 12   | 0                         | 57                            | 0                            | 69                           | 0   | 22                                    | 0                         | 22                        | 47                         | 421   |
| 2025                         | 12   | 0                         | 57                            | 0                            | 69                           | 0   | 23                                    | 0                         | 23                        | 46                         | 433   |
| 2026                         | 12   | 0                         | 57                            | 0                            | 70                           | 0   | 23                                    | 0                         | 23                        | 46                         | 444   |
| 2027                         | 13   | 0                         | 57                            | 0                            | 70                           | 0   | 24                                    | 0                         | 24                        | 46                         | 454   |
| 2028                         | 13   | 0                         | 57                            | 0                            | 70                           | 0   | 25                                    | 0                         | 25                        | 46                         | 464   |
| 2029                         | 13   | 0                         | 57                            | 0                            | 71                           | 0   | 25                                    | 0                         | 25                        | 45                         | 472   |
| 2030                         | 14   | 0                         | 57                            | 0                            | 71                           | 0   | 26                                    | 0                         | 26                        | 45                         | 480   |
| 2031                         | 14   | 0                         | 57                            | 0                            | 71                           | 0   | 26                                    | 0                         | 26                        | 45                         | 487   |
| 2032                         | 15   | 0                         | 57                            | 0                            | 72                           | 0   | 27                                    | 0                         | 27                        | 45                         | 494   |
| NOMINAL                      | 254  | 0                         | 1,403                         | 0                            | 1,658                        | 0   | 504                                   | 0                         | 504                       | 1,153                      |   |
| NPV:                         | 96   | 0                         | 592                           | 0                            | 688                          | 0   | 194                                   | 0                         | 194                       | 494                        |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
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RATE IMPACT TEST  
PROGRAM: Standby Generator

PSC FORM CE 2.5  
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| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)   | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|---|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 7                                      | 10                    | 0                            | 0                         | 17                        | 1   | 0                                       | 0                           | 0                            | 1                            | (15)  | (15)  |
| 2008           | 0                                       | 8                                      | 29                    | 1                            | 0                         | 37                        | 4   | 0                                       | 0                           | 0                            | 4                            | (33)  | (46)  |
| 2009           | 0                                       | 9                                      | 48                    | 2                            | 0                         | 58                        | 7   | 0                                       | 0                           | 0                            | 7                            | (51)  | (89)  |
| 2010           | 0                                       | 2                                      | 57                    | 2                            | 0                         | 62                        | 268   | 0                                       | 0                           | 0                            | 268                          | 207   | 75  |
| 2011           | 0                                       | 2                                      | 57                    | 2                            | 0                         | 62                        | 261   | 0                                       | 0                           | 0                            | 261                          | 200   | 223   |
| 2012           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 62                        | 254   | 0                                       | 0                           | 0                            | 254                          | 192   | 354   |
| 2013           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 62                        | 246   | 0                                       | 0                           | 0                            | 246                          | 185   | 471   |
| 2014           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 62                        | 240   | 0                                       | 0                           | 0                            | 240                          | 178   | 578   |
| 2015           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 62                        | 234   | 0                                       | 0                           | 0                            | 234                          | 172   | 670   |
| 2016           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 62                        | 229   | 0                                       | 0                           | 0                            | 229                          | 166   | 754   |
| 2017           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 62                        | 223   | 0                                       | 0                           | 0                            | 223                          | 161   | 829   |
| 2018           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 62                        | 218   | 0                                       | 0                           | 0                            | 218                          | 156   | 897   |
| 2019           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 62                        | 214   | 0                                       | 0                           | 0                            | 214                          | 152   | 958   |
| 2020           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 63                        | 209   | 0                                       | 0                           | 0                            | 209                          | 147   | 1013  |
| 2021           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 63                        | 205   | 0                                       | 0                           | 0                            | 205                          | 142   | 1062  |
| 2022           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 63                        | 200   | 0                                       | 0                           | 0                            | 200                          | 137   | 1106  |
| 2023           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 63                        | 194   | 0                                       | 0                           | 0                            | 194                          | 132   | 1145  |
| 2024           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 63                        | 189   | 0                                       | 0                           | 0                            | 189                          | 126   | 1180  |
| 2025           | 0                                       | 3                                      | 57                    | 2                            | 0                         | 63                        | 185   | 0                                       | 0                           | 0                            | 185                          | 122   | 1211  |
| 2026           | 0                                       | 4                                      | 57                    | 2                            | 0                         | 63                        | 182   | 0                                       | 0                           | 0                            | 182                          | 119   | 1239  |
| 2027           | 0                                       | 4                                      | 57                    | 2                            | 0                         | 63                        | 181   | 0                                       | 0                           | 0                            | 181                          | 118   | 1265  |
| 2028           | 0                                       | 4                                      | 57                    | 2                            | 0                         | 63                        | 180   | 0                                       | 0                           | 0                            | 180                          | 116   | 1288  |
| 2029           | 0                                       | 4                                      | 57                    | 2                            | 0                         | 63                        | 177   | 0                                       | 0                           | 0                            | 177                          | 114   | 1310  |
| 2030           | 0                                       | 4                                      | 57                    | 2                            | 0                         | 64                        | 177   | 0                                       | 0                           | 0                            | 177                          | 114   | 1330  |
| 2031           | 0                                       | 4                                      | 57                    | 2                            | 0                         | 64                        | 176   | 0                                       | 0                           | 0                            | 176                          | 112   | 1348  |
| 2032           | 0                                       | 4                                      | 57                    | 2                            | 0                         | 64                        | 174   | 0                                       | 0                           | 0                            | 174                          | 111   | 1364  |
| NOMINAL        | 0                                       | 96                                     | 1,403                 | 54                           | 0                         | 1,553                     | 4,831   | 0                                       | 0                           | 0                            | 4,831                        | 3,278   |   |
| NPV:           | 0                                       | 48                                     | 592                   | 22                           | 0                         | 662                       | 2,026   | 0                                       | 0                           | 0                            | 2,026                        | 1,364   |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:                  |   | 3.06                        |                              |                              |   |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

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**INPUT DATA - PART 1**  
**PROGRAM TITLE: Commercial Refrigeration (Anti-Condensate)**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                   |
|---|-------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 0.919 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 1.017 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %             |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 17350 KWH/CUST/YR |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %             |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                 |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR     |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 16344 KWH/CUST/YR |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 10 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 1        |

**UTILITY & CUSTOMER COSTS**

|   |                 |
|---|-----------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 35.00 \$/CUST   |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |
| III. (4) CUSTOMER EQUIPMENT COST                  | 2100.00 \$/CUST |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 124.07 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.8 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

|   |                 |
|---|-----------------|
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 1.370 CENTS/KWH |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %             |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 7.25 \$/KW/MO   |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %             |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 1.1             |

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.46 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 423  |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.44 |

TAMPA ELECTRIC COMPANY  
 DSM PROGRAM MODIFICATIONS  
 APPENDIX C  
 FILED: JUNE 15, 2007

TOTAL RESOURCE COST TESTS  
PROGRAM: Commercial Refrigeration (Anti-Condensate)

PSC FORM CE 2.3  
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June 6, 2007

| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |  |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |  |
| 2007          | 0                                       | 1                                      | 74   | 0                         | 75                        | 0  | 0                                       | 9                                     | 0                            | 9                            | (66)                       | (66)   |  |
| 2008          | 0                                       | 1                                      | 75   | 0                         | 77                        | 0  | 0                                       | 27                                    | 0                            | 27                           | (50)                       | (112)  |  |
| 2009          | 0                                       | 1                                      | 77   | 0                         | 79                        | 0  | 0                                       | 44                                    | 0                            | 44                           | (35)                       | (142)  |  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 47                                    | 0                            | 53                           | 53                         | (100)  |  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 46                                    | 0                            | 52                           | 52                         | (62)   |  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 47                                    | 0                            | 53                           | 53                         | (26)   |  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 46                                    | 0                            | 52                           | 52                         | 7  |  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 7  | 0                                       | 48                                    | 0                            | 55                           | 55                         | 39   |  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 7  | 0                                       | 48                                    | 0                            | 54                           | 54                         | 69   |  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 7  | 0                                       | 50                                    | 0                            | 57                           | 57                         | 98   |  |
| NOMINAL       | 0                                       | 4                                      | 226  | 0                         | 230                       | 45   | 0                                       | 410                                   | 0                            | 455                          | 225                        |  |  |
| NPV:          | 0                                       | 3                                      | 210  | 0                         | 213                       | 28   | 0                                       | 283                                   | 0                            | 311                          | 98                         |  |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (6)]:   |                           |                           |  |   | 1.46                                  |                              |                              |                            |  |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Commercial Refrigeration (Anti-Condensate)

PSC FORM CE 2.4  
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| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 18   | 0                         | 4                             | 0                            | 22                           | 74  | 0                                     | 0                         | 74                        | (51)                       | (51)  |
| 2008                         | 53   | 0                         | 4                             | 0                            | 57                           | 75  | 0                                     | 0                         | 75                        | (18)                       | (68)  |
| 2009                         | 87   | 0                         | 4                             | 0                            | 92                           | 77  | 0                                     | 0                         | 77                        | 14                         | (56)  |
| 2010                         | 106  | 0                         | 0                             | 0                            | 106                          | 0   | 0                                     | 0                         | 0                         | 106                        | 29  |
| 2011                         | 107  | 0                         | 0                             | 0                            | 107                          | 0   | 0                                     | 0                         | 0                         | 107                        | 107   |
| 2012                         | 110  | 0                         | 0                             | 0                            | 110                          | 0   | 0                                     | 0                         | 0                         | 110                        | 183   |
| 2013                         | 100  | 0                         | 0                             | 0                            | 100                          | 0   | 0                                     | 0                         | 0                         | 100                        | 247   |
| 2014                         | 104  | 0                         | 0                             | 0                            | 104                          | 0   | 0                                     | 0                         | 0                         | 104                        | 308   |
| 2015                         | 107  | 0                         | 0                             | 0                            | 107                          | 0   | 0                                     | 0                         | 0                         | 107                        | 366   |
| 2016                         | 112  | 0                         | 0                             | 0                            | 112                          | 0   | 0                                     | 0                         | 0                         | 112                        | 423   |
| NOMINAL                      | 904  | 0                         | 13                            | 0                            | 917                          | 226                                       | 0                                     | 0                         | 226                       | 691                        |   |
| NPV:                         | 620  | 0                         | 12                            | 0                            | 632                          | 210                                       | 0                                     | 0                         | 210                       | 423                        |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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RATE IMPACT TEST  
PROGRAM: Commercial Refrigeration (Anti-Condensate)

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| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)   | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|---|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 1                                      | 4                     | 5                            | 0                         | 11                        | 9   | 0                                       | 0                           | 0                            | 9                            | (3)   | (3)   |
| 2008           | 0                                       | 1                                      | 4                     | 17                           | 0                         | 22                        | 27  | 0                                       | 0                           | 0                            | 27                           | 5   | 2   |
| 2009           | 0                                       | 1                                      | 4                     | 28                           | 0                         | 33                        | 44  | 0                                       | 0                           | 0                            | 44                           | 11  | 11  |
| 2010           | 0                                       | 0                                      | 0                     | 34                           | 0                         | 34                        | 53  | 0                                       | 0                           | 0                            | 53                           | 19  | 26  |
| 2011           | 0                                       | 0                                      | 0                     | 34                           | 0                         | 34                        | 52  | 0                                       | 0                           | 0                            | 52                           | 18  | 39  |
| 2012           | 0                                       | 0                                      | 0                     | 34                           | 0                         | 34                        | 53  | 0                                       | 0                           | 0                            | 53                           | 19  | 52  |
| 2013           | 0                                       | 0                                      | 0                     | 35                           | 0                         | 35                        | 52  | 0                                       | 0                           | 0                            | 52                           | 17  | 63  |
| 2014           | 0                                       | 0                                      | 0                     | 35                           | 0                         | 35                        | 55  | 0                                       | 0                           | 0                            | 55                           | 19  | 74  |
| 2015           | 0                                       | 0                                      | 0                     | 35                           | 0                         | 35                        | 54  | 0                                       | 0                           | 0                            | 54                           | 19  | 84  |
| 2016           | 0                                       | 0                                      | 0                     | 36                           | 0                         | 36                        | 57  | 0                                       | 0                           | 0                            | 57                           | 21  | 95  |
| NOMINAL        | 0                                       | 4                                      | 13                    | 293                          | 0                         | 310                       | 455   | 0                                       | 0                           | 0                            | 455                          | 145   |   |
| NPV:           | 0                                       | 3                                      | 12                    | 200                          | 0                         | 216                       | 311   | 0                                       | 0                           | 0                            | 311                          | 95  |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:                  |   | 1.44                        |                              |                              |   |   |

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**INPUT DATA - PART 1**  
**PROGRAM TITLE: Commercial Water Heating**

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| PROGRAM DEMAND SAVINGS & LINE LOSSES          |                   |  |
|---|-------------------|--|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 0.945 KW /CUST    |  |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 1.045 KW GEN/CUST |  |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %             |  |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 9392 KWH/CUST/YR  |  |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %             |  |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                 |  |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR     |  |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 8847 KWH/CUST/YR  |  |

| ECONOMIC LIFE & K FACTORS                     |          |  |
|---|----------|--|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 10 YEARS |  |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |  |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |  |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |  |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |  |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 1        |  |

| UTILITY & CUSTOMER COSTS                          |                 |  |
|---|-----------------|--|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 55.00 \$/CUST   |  |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR |  |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %           |  |
| III. (4) CUSTOMER EQUIPMENT COST                  | 3368.00 \$/CUST |  |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %           |  |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR    |  |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %           |  |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST       |  |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %             |  |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR    |  |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %             |  |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788          |  |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779          |  |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 708.75 \$/CUST  |  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR |  |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %             |  |

| AVOIDED GENERATOR, TRANS. & DIST COSTS               |                 |  |
|--|-----------------|--|
| IV. (1) BASE YEAR                                    | 2007            |  |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |  |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |  |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |  |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |  |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |  |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |  |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |  |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |  |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |  |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |  |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |  |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |  |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |  |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |  |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |  |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |  |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |  |

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

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.06 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 91   |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.76 |

**TAMPA ELECTRIC COMPANY**  
**DSM PROGRAM MODIFICATIONS**  
**APPENDIX C**  
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TOTAL RESOURCE COST TESTS  
PROGRAM: Commercial Water Heating

PSC FORM CE 2.3  
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| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |  |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |  |
| 2007          | 0                                       | 2                                      | 118  | 0                         | 120                       | 0  | 0                                       | 9                                     | 0                            | 9                            | (111)                      | (111)  |  |
| 2008          | 0                                       | 2                                      | 121  | 0                         | 123                       | 0  | 0                                       | 29                                    | 0                            | 29                           | (84)                       | (198)  |  |
| 2009          | 0                                       | 2                                      | 124  | 0                         | 126                       | 0  | 0                                       | 47                                    | 0                            | 47                           | (79)                       | (266)  |  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 12   | 0                                       | 50                                    | 0                            | 62                           | 62                         | (216)  |  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 12   | 0                                       | 48                                    | 0                            | 61                           | 61                         | (171)  |  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 13   | 0                                       | 50                                    | 0                            | 63                           | 63                         | (128)  |  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 13   | 0                                       | 49                                    | 0                            | 62                           | 62                         | (88)   |  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 13   | 0                                       | 52                                    | 0                            | 65                           | 65                         | (50)   |  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 14   | 0                                       | 51                                    | 0                            | 65                           | 65                         | (15)   |  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 14   | 0                                       | 54                                    | 0                            | 67                           | 67                         | 19   |  |
| NOMINAL       | 0                                       | 6                                      | 363  | 0                         | 368                       | 91   | 0                                       | 440                                   | 0                            | 530                          | 162                        |  |  |
| NPV:          | 0                                       | 5                                      | 336  | 0                         | 342                       | 58   | 0                                       | 303                                   | 0                            | 361                          | 19                         |  |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (6)]:   |                           |                           |  |   | 1.06                                  |                              |                              |                            |  |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
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PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Commercial Water Heating

PSC FORM CE 2.4  
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| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 10   | 0                         | 25                            | 0                            | 35                           | 118                                       | 0                                     | 0                         | 118                       | (83)                       | (83)  |
| 2008                         | 30   | 0                         | 25                            | 0                            | 55                           | 121                                       | 0                                     | 0                         | 121                       | (66)                       | (144)   |
| 2009                         | 50   | 0                         | 25                            | 0                            | 75                           | 124                                       | 0                                     | 0                         | 124                       | (49)                       | (185)   |
| 2010                         | 61   | 0                         | 0                             | 0                            | 61                           | 0   | 0                                     | 0                         | 0                         | 61                         | (137)   |
| 2011                         | 61   | 0                         | 0                             | 0                            | 61                           | 0   | 0                                     | 0                         | 0                         | 61                         | (91)  |
| 2012                         | 64   | 0                         | 0                             | 0                            | 64                           | 0   | 0                                     | 0                         | 0                         | 64                         | (48)  |
| 2013                         | 58   | 0                         | 0                             | 0                            | 58                           | 0   | 0                                     | 0                         | 0                         | 58                         | (11)  |
| 2014                         | 60   | 0                         | 0                             | 0                            | 60                           | 0   | 0                                     | 0                         | 0                         | 60                         | 24  |
| 2015                         | 62   | 0                         | 0                             | 0                            | 62                           | 0   | 0                                     | 0                         | 0                         | 62                         | 58  |
| 2016                         | 65   | 0                         | 0                             | 0                            | 65                           | 0   | 0                                     | 0                         | 0                         | 65                         | 91  |
| NOMINAL                      | 522  | 0                         | 74                            | 0                            | 597                          | 363                                       | 0                                     | 0                         | 363                       | 234                        |   |
| NPV:                         | 358  | 0                         | 69                            | 0                            | 427                          | 336                                       | 0                                     | 0                         | 336                       | 91                         |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
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RATE IMPACT TEST  
PROGRAM: Commercial Water Heating

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| (1)            | (2)                                     | (3)                                    | (4)                   | (5)                          | (6)                       | (7)                       | (8)   | (9)                                     | (10)                        | (11)                         | (12)                         | (13)  | (14)  |
|----------------|---|--|-----------------------|------------------------------|---------------------------|---------------------------|---|---|-----------------------------|------------------------------|------------------------------|---|---|
| YEAR           | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | INCENTIVES<br>\$(000) | REVENUE<br>LOSSES<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>UNIT & FUEL<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | REVENUE<br>GAINS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>TO ALL<br>CUSTOMERS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFIT<br>\$(000) |
| 2007           | 0                                       | 2                                      | 25                    | 4                            | 0                         | 30                        | 9   | 0                                       | 0                           | 0                            | 9                            | (21)  | (21)  |
| 2008           | 0                                       | 2                                      | 25                    | 11                           | 0                         | 38                        | 29  | 0                                       | 0                           | 0                            | 29                           | (9)   | (30)  |
| 2009           | 0                                       | 2                                      | 25                    | 18                           | 0                         | 45                        | 47  | 0                                       | 0                           | 0                            | 47                           | 2   | (27)  |
| 2010           | 0                                       | 0                                      | 0                     | 22                           | 0                         | 22                        | 62  | 0                                       | 0                           | 0                            | 62                           | 40  | 4   |
| 2011           | 0                                       | 0                                      | 0                     | 22                           | 0                         | 22                        | 61  | 0                                       | 0                           | 0                            | 61                           | 39  | 33  |
| 2012           | 0                                       | 0                                      | 0                     | 22                           | 0                         | 22                        | 63  | 0                                       | 0                           | 0                            | 63                           | 40  | 61  |
| 2013           | 0                                       | 0                                      | 0                     | 23                           | 0                         | 23                        | 62  | 0                                       | 0                           | 0                            | 62                           | 39  | 86  |
| 2014           | 0                                       | 0                                      | 0                     | 23                           | 0                         | 23                        | 65  | 0                                       | 0                           | 0                            | 65                           | 42  | 111   |
| 2015           | 0                                       | 0                                      | 0                     | 23                           | 0                         | 23                        | 65  | 0                                       | 0                           | 0                            | 65                           | 42  | 133   |
| 2016           | 0                                       | 0                                      | 0                     | 23                           | 0                         | 23                        | 67  | 0                                       | 0                           | 0                            | 67                           | 44  | 156   |
| NOMINAL        | 0                                       | 6                                      | 74                    | 191                          | 0                         | 272                       | 530   | 0                                       | 0                           | 0                            | 530                          | 259   |   |
| NPV:           | 0                                       | 5                                      | 69                    | 131                          | 0                         | 205                       | 361   | 0                                       | 0                           | 0                            | 361                          | 156   |   |
| Discount rate: |   |  | 0.0788                |                              |                           |                           | Benefit/Cost Ratio - [col (12)/col (7)]:                  |   |                             |                              | 1.76                         |   |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

**INPUT DATA - PART 1**  
**PROGRAM TITLE: Conservation Value**

PSC FORM CE 1.1  
 PAGE 1 OF 1  
 RUN DATE: June 6, 2007

**PROGRAM DEMAND SAVINGS & LINE LOSSES**

|   |                    |
|---|--------------------|
| I. (1) CUSTOMER KW REDUCTION AT THE METER     | 24.130 KW /CUST    |
| I. (2) GENERATOR KW REDUCTION PER CUSTOMER    | 25.492 KW GEN/CUST |
| I. (3) KW LINE LOSS PERCENTAGE                | 6.5 %              |
| I. (4) GENERATION KWH REDUCTION PER CUSTOMER  | 122977 KWH/CUST/YR |
| I. (5) KWH LINE LOSS PERCENTAGE               | 5.8 %              |
| I. (6) GROUP LINE LOSS MULTIPLIER             | 1                  |
| I. (7) CUSTOMER KWH PROGRAM INCREASE AT METER | 0 KWH/CUST/YR      |
| I. (8)* CUSTOMER KWH REDUCTION AT METER       | 115844 KWH/CUST/YR |

**ECONOMIC LIFE & K FACTORS**

|   |          |
|---|----------|
| II. (1) STUDY PERIOD FOR CONSERVATION PROGRAM | 20 YEARS |
| II. (2) GENERATOR ECONOMIC LIFE               | 26 YEARS |
| II. (3) T & D ECONOMIC LIFE                   | 26 YEARS |
| II. (4) K FACTOR FOR GENERATION               | 1.5983   |
| II. (5) K FACTOR FOR T & D                    | 1.5983   |
| II. (6)* SWITCH REV REQ(0) OR VAL-OF-DEF (1)  | 1        |

**UTILITY & CUSTOMER COSTS**

|   |                  |
|---|------------------|
| III. (1) UTILITY NONRECURRING COST PER CUSTOMER   | 1933.00 \$/CUST  |
| III. (2) UTILITY RECURRING COST PER CUSTOMER      | 0.00 \$/CUST/YR  |
| III. (3) UTILITY COST ESCALATION RATE             | 2.5 %            |
| III. (4) CUSTOMER EQUIPMENT COST                  | 41719.00 \$/CUST |
| III. (5) CUSTOMER EQUIPMENT ESCALATION RATE       | 2.5 %            |
| III. (6) CUSTOMER O & M COST                      | 0 \$/CUST/YR     |
| III. (7) CUSTOMER O & M ESCALATION RATE           | 2.5 %            |
| III. (8)* CUSTOMER TAX CREDIT PER INSTALLATION    | 0 \$/CUST        |
| III. (9)* CUSTOMER TAX CREDIT ESCALATION RATE     | 0 %              |
| III. (10)* INCREASED SUPPLY COSTS                 | 0 \$/CUST/YR     |
| III. (11)* SUPPLY COSTS ESCALATION RATE           | 0 %              |
| III. (12)* UTILITY DISCOUNT RATE                  | 0.0788           |
| III. (13)* UTILITY AFUDC RATE                     | 0.0779           |
| III. (14)* UTILITY NON RECURRING REBATE/INCENTIVE | 6032.50 \$/CUST  |
| III. (15)* UTILITY RECURRING REBATE/INCENTIVE     | 0.00 \$/CUST/YR  |
| III. (16)* UTILITY REBATE/INCENTIVE ESCAL RATE    | 0 %              |

**AVOIDED GENERATOR, TRANS. & DIST COSTS**

|  |                 |
|--|-----------------|
| IV. (1) BASE YEAR                                    | 2007            |
| IV. (2) IN-SERVICE YEAR FOR AVOIDED GENERATING UNIT  | 2010            |
| IV. (3) IN-SERVICE YEAR FOR AVOIDED T & D            | 2010            |
| IV. (4) BASE YEAR AVOIDED GENERATING UNIT COST       | 674.13 \$/KW    |
| IV. (5) BASE YEAR AVOIDED TRANSMISSION COST          | 0 \$/KW         |
| IV. (6) BASE YEAR DISTRIBUTION COST                  | 0 \$/KW         |
| IV. (7) GEN, TRAN, & DIST COST ESCALATION RATE       | 2.3 %           |
| IV. (8) GENERATOR FIXED O & M COST                   | 8.87 \$/KW/YR   |
| IV. (9) GENERATOR FIXED O&M ESCALATION RATE          | 2.3 %           |
| IV. (10) TRANSMISSION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (11) DISTRIBUTION FIXED O & M COST               | 0 \$/KW/YR      |
| IV. (12) T&D FIXED O&M ESCALATION RATE               | 2.3 %           |
| IV. (13) AVOIDED GEN UNIT VARIABLE O & M COSTS       | 0.272 CENTS/KWH |
| IV. (14) GENERATOR VARIABLE O&M COST ESCALATION RATE | 2.3 %           |
| IV. (15) GENERATOR CAPACITY FACTOR                   | 5.6 %           |
| IV. (16) AVOIDED GENERATING UNIT FUEL COST           | 2.72 CENTS/KWH  |
| IV. (17) AVOIDED GEN UNIT FUEL ESCALATION RATE       | 3.16 %          |
| IV. (18)* AVOIDED PURCHASE CAPACITY COST PER KW      | 0 \$/KW/YR      |
| IV. (19)* CAPACITY COST ESCALATION RATE              | 0 %             |

**NON-FUEL ENERGY AND DEMAND CHARGES**

|   |                 |
|---|-----------------|
| V. (1) NON-FUEL COST IN CUSTOMER BILL                                   | 1.370 CENTS/KWH |
| V. (2) NON-FUEL ESCALATION RATE   | 1 %             |
| V. (3) CUSTOMER DEMAND CHARGE PER KW                                    | 7.25 \$/KW/MO   |
| V. (4) DEMAND CHARGE ESCALATION RATE                                    | 1 %             |
| V. (5)* DIVERSITY and ANNUAL DEMAND ADJUSTMENT FACTOR FOR CUSTOMER BILL | 1.4             |

| CALCULATED BENEFITS AND COSTS       |      |
|-------------------------------------|------|
| (1)* TRC TEST - BENEFIT/COST RATIO  | 1.60 |
| (2)* PARTICIPANT NET BENEFITS (NPV) | 187  |
| (3)* RIM TEST - BENEFIT/COST RATIO  | 1.25 |

TOTAL RESOURCE COST TESTS  
PROGRAM: Conservation Value

PSC FORM CE 2.3  
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| (1)           | (2)                                     | (3)                                    | (4)  | (5)                       | (6)                       | (7)  | (8)                                     | (9)                                   | (10)                         | (11)                         | (12)                       | (13)   |  |
|---------------|---|--|--|---------------------------|---------------------------|--|---|---------------------------------------|------------------------------|------------------------------|----------------------------|--|--|
| YEAR          | INCREASED<br>SUPPLY<br>COSTS<br>\$(000) | UTILITY<br>PROGRAM<br>COSTS<br>\$(000) | PARTICIPANT<br>PROGRAM<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | AVOIDED<br>GEN UNIT<br>BENEFITS<br>\$(000) | AVOIDED<br>T & D<br>BENEFITS<br>\$(000) | PROGRAM<br>FUEL<br>SAVINGS<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET<br>BENEFITS<br>\$(000) |  |
| 2007          | 0                                       | 2                                      | 42   | 0                         | 44                        | 0  | 0                                       | 3                                     | 0                            | 3                            | (40)                       | (40)   |  |
| 2008          | 0                                       | 2                                      | 43   | 0                         | 45                        | 0  | 0                                       | 11                                    | 0                            | 11                           | (34)                       | (72)   |  |
| 2009          | 0                                       | 2                                      | 44   | 0                         | 46                        | 0  | 0                                       | 14                                    | 0                            | 14                           | (32)                       | (99)   |  |
| 2010          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 12                                    | 0                            | 18                           | 18                         | (85)   |  |
| 2011          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 12                                    | 0                            | 18                           | 18                         | (71)   |  |
| 2012          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 13                                    | 0                            | 18                           | 18                         | (59)   |  |
| 2013          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 12                                    | 0                            | 18                           | 18                         | (47)   |  |
| 2014          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 13                                    | 0                            | 19                           | 19                         | (36)   |  |
| 2015          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 13                                    | 0                            | 19                           | 19                         | (26)   |  |
| 2016          | 0                                       | 0                                      | 0  | 0                         | 0                         | 6  | 0                                       | 13                                    | 0                            | 20                           | 20                         | (16)   |  |
| 2017          | 0                                       | 0                                      | 0  | 0                         | 0                         | 7  | 0                                       | 14                                    | 0                            | 20                           | 20                         | (6)  |  |
| 2018          | 0                                       | 0                                      | 0  | 0                         | 0                         | 7  | 0                                       | 15                                    | 0                            | 22                           | 22                         | 3  |  |
| 2019          | 0                                       | 0                                      | 0  | 0                         | 0                         | 7  | 0                                       | 18                                    | 0                            | 25                           | 25                         | 13   |  |
| 2020          | 0                                       | 0                                      | 0  | 0                         | 0                         | 7  | 0                                       | 19                                    | 0                            | 26                           | 26                         | 23   |  |
| 2021          | 0                                       | 0                                      | 0  | 0                         | 0                         | 7  | 0                                       | 21                                    | 0                            | 28                           | 28                         | 33   |  |
| 2022          | 0                                       | 0                                      | 0  | 0                         | 0                         | 7  | 0                                       | 22                                    | 0                            | 30                           | 30                         | 42   |  |
| 2023          | 0                                       | 0                                      | 0  | 0                         | 0                         | 8  | 0                                       | 22                                    | 0                            | 30                           | 30                         | 51   |  |
| 2024          | 0                                       | 0                                      | 0  | 0                         | 0                         | 8  | 0                                       | 22                                    | 0                            | 30                           | 30                         | 59   |  |
| 2025          | 0                                       | 0                                      | 0  | 0                         | 0                         | 8  | 0                                       | 22                                    | 0                            | 30                           | 30                         | 67   |  |
| 2026          | 0                                       | 0                                      | 0  | 0                         | 0                         | 8  | 0                                       | 23                                    | 0                            | 31                           | 31                         | 74   |  |
| NOMINAL       | 0                                       | 6                                      | 128  | 0                         | 134                       | 116  | 0                                       | 315                                   | 0                            | 431                          | 296                        |  |  |
| NPV:          | 0                                       | 6                                      | 119  | 0                         | 125                       | 52   | 0                                       | 147                                   | 0                            | 199                          | 74                         |  |  |
| Discount Rate |   | 0.0788                                 | Benefit/Cost Ratio - [col (11)/col (6)]:   |                           |                           |  |   | 1.60                                  |                              |                              |                            |  |  |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007

PARTICIPANT COSTS AND BENEFITS  
PROGRAM: Conservation Value

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| (1)                          | (2)  | (3)                       | (4)                           | (5)                          | (6)                          | (7)                                       | (8)                                   | (9)                       | (10)                      | (11)                       | (12)  |
|------------------------------|--|---------------------------|-------------------------------|------------------------------|------------------------------|---|---------------------------------------|---------------------------|---------------------------|----------------------------|---|
| YEAR                         | SAVINGS<br>IN<br>PARTICIPANTS<br>BILL<br>\$(000) | TAX<br>CREDITS<br>\$(000) | UTILITY<br>REBATES<br>\$(000) | OTHER<br>BENEFITS<br>\$(000) | TOTAL<br>BENEFITS<br>\$(000) | CUSTOMER<br>EQUIPMENT<br>COSTS<br>\$(000) | CUSTOMER<br>O & M<br>COSTS<br>\$(000) | OTHER<br>COSTS<br>\$(000) | TOTAL<br>COSTS<br>\$(000) | NET<br>BENEFITS<br>\$(000) | CUMULATIVE<br>DISCOUNTED<br>NET BENEFITS<br>\$(000) |
| 2007                         | 5  | 0                         | 6                             | 0                            | 11                           | 42  | 0                                     | 0                         | 42                        | (31)                       | (31)  |
| 2008                         | 14   | 0                         | 6                             | 0                            | 20                           | 43  | 0                                     | 0                         | 43                        | (23)                       | (52)  |
| 2009                         | 24   | 0                         | 6                             | 0                            | 30                           | 44  | 0                                     | 0                         | 44                        | (14)                       | (64)  |
| 2010                         | 29   | 0                         | 0                             | 0                            | 29                           | 0   | 0                                     | 0                         | 0                         | 29                         | (41)  |
| 2011                         | 29   | 0                         | 0                             | 0                            | 29                           | 0   | 0                                     | 0                         | 0                         | 29                         | (20)  |
| 2012                         | 30   | 0                         | 0                             | 0                            | 30                           | 0   | 0                                     | 0                         | 0                         | 30                         | 0   |
| 2013                         | 28   | 0                         | 0                             | 0                            | 28                           | 0   | 0                                     | 0                         | 0                         | 28                         | 18  |
| 2014                         | 29   | 0                         | 0                             | 0                            | 29                           | 0   | 0                                     | 0                         | 0                         | 29                         | 35  |
| 2015                         | 29   | 0                         | 0                             | 0                            | 29                           | 0   | 0                                     | 0                         | 0                         | 29                         | 51  |
| 2016                         | 30   | 0                         | 0                             | 0                            | 30                           | 0   | 0                                     | 0                         | 0                         | 30                         | 66  |
| 2017                         | 31   | 0                         | 0                             | 0                            | 31                           | 0   | 0                                     | 0                         | 0                         | 31                         | 80  |
| 2018                         | 32   | 0                         | 0                             | 0                            | 32                           | 0   | 0                                     | 0                         | 0                         | 32                         | 94  |
| 2019                         | 34   | 0                         | 0                             | 0                            | 34                           | 0   | 0                                     | 0                         | 0                         | 34                         | 108   |
| 2020                         | 35   | 0                         | 0                             | 0                            | 35                           | 0   | 0                                     | 0                         | 0                         | 35                         | 121   |
| 2021                         | 36   | 0                         | 0                             | 0                            | 36                           | 0   | 0                                     | 0                         | 0                         | 36                         | 133   |
| 2022                         | 37   | 0                         | 0                             | 0                            | 37                           | 0   | 0                                     | 0                         | 0                         | 37                         | 145   |
| 2023                         | 38   | 0                         | 0                             | 0                            | 38                           | 0   | 0                                     | 0                         | 0                         | 38                         | 156   |
| 2024                         | 39   | 0                         | 0                             | 0                            | 39                           | 0   | 0                                     | 0                         | 0                         | 39                         | 167   |
| 2025                         | 40   | 0                         | 0                             | 0                            | 40                           | 0   | 0                                     | 0                         | 0                         | 40                         | 178   |
| 2026                         | 41   | 0                         | 0                             | 0                            | 41                           | 0   | 0                                     | 0                         | 0                         | 41                         | 187   |
| NOMINAL                      | 608  | 0                         | 18                            | 0                            | 627                          | 128                                       | 0                                     | 0                         | 128                       | 498                        |   |
| NPV:                         | 289  | 0                         | 17                            | 0                            | 306                          | 119                                       | 0                                     | 0                         | 119                       | 187                        |   |
| In service year of gen unit: |  |                           | 2004                          |                              |                              |   |                                       |                           |                           |                            |   |
| Discount rate:               |  |                           | 0.0788                        |                              |                              |   |                                       |                           |                           |                            |   |

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TAMPA ELECTRIC COMPANY  
DSM PROGRAM MODIFICATIONS  
APPENDIX C  
FILED: JUNE 15, 2007





## Appendix D



**GENERAL SERVICE  
LOAD MANAGEMENT RIDER**

SCHEDULE: GSLM-1

AVAILABLE: At the option of the customer, available to commercial and industrial customers on rate schedules GS, GSD, and GSLD for Short Cyclic Control and GS, GST, GSD, GSdT, GSLD and GSLDT for Extended Control who sign a Tariff Agreement for the Provision of Load Management Service.

CHARACTER OF SERVICE: Electric service to specifically controlled items of customer's electrical equipment may be interrupted at the option of the Company by means of load management devices installed on the customer's equipment.

MONTHLY CREDITS: Credits will be applied each month (regardless of whether actual interruptions of service by the Company occur or not) to the regular bill submitted under the GS, GSD, or GSLD schedule. No credit will be applied to a minimum bill, nor shall the credit exceed 40 percent of the non-fuel energy and demand charges.

Credit:

1. \$3.00/KW/Month of Measured Controlled Demand of Customer's Electrical Equipment  
(Extended Interruption Schedule)
2. \$2.50/KW/Month of Calculated Controlled Demand of Customer's Air Conditioning Equipment in the Summer Season  
(Short Cyclic Interruption Schedule)

Controlled Demand:

1. Defined as the measured monthly average hourly demand registered during the non-interrupted periods during the prime hours (as defined in Interruption Schedule)
2. Defined as the calculated hourly demand using the nameplate electrical capacity of the controlled air conditioning equipment; or using an actual measured thirty (30) minute integrated demand of the air conditioning equipment acquired through testing of equipment operation by the Company.

Continued to Sheet No. 3.151



**STANDBY GENERATOR RIDER**

SCHEDULE: GSSG-1

AVAILABLE: At the option of the customer, available to commercial and industrial customers on rate schedule GSD, GSDT, GSLD, GSLDT, SBF, and SBFT who sign a Tariff Agreement for the Provision of Standby Generator Transfer Service.

CHARACTER OF SERVICE: Upon notification by Tampa Electric Company, electric service to all or a portion of the customer's firm load will be transferred by the customer to a standby generator(s) for service.

MONTHLY CREDITS: Credits will be applied each billing period to the regular bill submitted under the GSD, GSDT, GSLD, GSLDT, SBF, or SBFT rate schedule, for credits generated in the previous billing period.

Credit:

1. \$3.50/KW/Month payment for Average Transferable Demand of a customer's load to a standby generator(s).

INITIAL TRANSFERABLE DEMAND: To begin participation under this tariff, Initial Transferable Demand will be determined by Tampa Electric in the field at the customer's site by transferring the customer's normal load to the standby generator(s).

AVERAGE TRANSFERABLE DEMAND: For a control month, Transferable Demand is calculated by totaling the KWH produced by the standby generator(s) during all the control(s) in the month divided by the total control hours in the month (less the 30 minute customer response time to transfer load per control). This demand is then averaged with the calculated Transferable Demands from the previous service months (for a maximum of eleven) to determine the Average Transferable Demand. For non-control months, the Average Transferable Demand is the average of the calculated Transferable Demands of the previous twelve months.

NOTIFICATION SCHEDULE: All time periods stated in clock time. (Meters are programmed to automatically adjust for changes from standard to daylight savings time and vice versa.)

Normally the Company will notify customers to transfer load to standby generator(s) during the prime hours. These periods are:

Continued to Sheet No. 3.201



**GENERAL SERVICE  
LOAD MANAGEMENT RIDER**

SCHEDULE: GSLM-1

AVAILABLE: At the option of the customer, available to commercial and industrial customers on rate schedules GS, GSD, and GSLD for Short Cyclic Control and GS, GST, GSD, GSdT, GSLD and GSLDT for Extended Control who sign a Tariff Agreement for the Provision of Load Management Service.

CHARACTER OF SERVICE: Electric service to specifically controlled items of customer's electrical equipment may be interrupted at the option of the Company by means of load management devices installed on the customer's equipment.

MONTHLY CREDITS: Credits will be applied each month (regardless of whether actual interruptions of service by the Company occur or not) to the regular bill submitted under the GS, GSD, or GSLD schedule. No credit will be applied to a minimum bill, nor shall the credit exceed 40 percent of the non-fuel energy and demand charges.

Credit:

1. \$3.00/KW/Month of Measured Controlled Demand of Customer's Electrical Equipment  
(Extended Interruption Schedule)
2. ~~\$2.50~~\$1.00/KW/Month of Calculated Controlled Demand of Customer's Air Conditioning Equipment in the Summer Season  
(Short Cyclic Interruption Schedule)

Controlled Demand:

1. Defined as the measured monthly average hourly demand registered during the non-interrupted periods during the prime hours (as defined in Interruption Schedule)
2. Defined as the calculated hourly demand using the nameplate electrical capacity of the controlled air conditioning equipment; or using an actual measured thirty (30) minute integrated demand of the air conditioning equipment acquired through testing of equipment operation by the Company.

Continued to Sheet No. 3.151



**STANDBY GENERATOR RIDER**

SCHEDULE: GSSG-1

AVAILABLE: At the option of the customer, available to commercial and industrial customers on rate schedule GSD, GSDT, GSLD, GSLDT, SBF, and SBFT who sign a Tariff Agreement for the Provision of Standby Generator Transfer Service.

CHARACTER OF SERVICE: Upon notification by Tampa Electric Company, electric service to all or a portion of the customer's firm load will be transferred by the customer to a standby generator(s) for service.

MONTHLY CREDITS: Credits will be applied each billing period to the regular bill submitted under the GSD, GSDT, GSLD, GSLDT, SBF, or SBFT rate schedule, for credits generated in the previous billing period.

Credit:

1. ~~\$3.50~~~~\$3.00~~/KW/Month payment for Average Transferable Demand of a customer's load to a standby generator(s).

INITIAL TRANSFERABLE DEMAND: To begin participation under this tariff, Initial Transferable Demand will be determined by Tampa Electric in the field at the customer's site by transferring the customer's normal load to the standby generator(s).

AVERAGE TRANSFERABLE DEMAND: For a control month, Transferable Demand is calculated by totaling the KWH produced by the standby generator(s) during all the control(s) in the month divided by the total control hours in the month (less the 30 minute customer response time to transfer load per control). This demand is then averaged with the calculated Transferable Demands from the previous service months (for a maximum of eleven) to determine the Average Transferable Demand. For non-control months, the Average Transferable Demand is the average of the calculated Transferable Demands of the previous twelve months.

NOTIFICATION SCHEDULE: All time periods stated in clock time. (Meters are programmed to automatically adjust for changes from standard to daylight savings time and vice versa.)

Normally the Company will notify customers to transfer load to standby generator(s) during the prime hours. These periods are:

Continued to Sheet No. 3.201

## Appendix E

**Residential Market Sector Demand and Energy Data  
Current 2005 - 2014 Goals**

| Year | Projected Summer Demand Savings (MW) |      | Commission Approved Summer MW Goal (Cum.) | Projected Winter Demand Savings (MW) |      | Commission Approved Winter MW Goal (Cum.) | Projected Annual Energy Savings (GWH) |      | Commission Approved Annual GWH Goal (Cum.) |
|------|--------------------------------------|------|---|--------------------------------------|------|---|---------------------------------------|------|--|
|      | Incr.                                | Cum. |   | Incr.                                | Cum. |   | Incr.                                 | Cum. |  |
| 2005 | 3.0                                  | 3.0  | 2.4                                       | 5.1                                  | 5.1  | 4.0                                       | 8.6                                   | 8.6  | 7.0  |
| 2006 | 2.1                                  | 5.1  | 4.4                                       | 2.9                                  | 8.0  | 6.7                                       | 6.2                                   | 14.8 | 12.6                                       |
| 2007 | 1.9                                  | 7.0  | 6.2                                       | 2.6                                  | 10.5 | 9.1                                       | 5.6                                   | 20.4 | 17.9                                       |
| 2008 | 1.7                                  | 8.7  | 7.9                                       | 2.3                                  | 12.8 | 11.4                                      | 5.1                                   | 25.5 | 22.7                                       |
| 2009 | 1.5                                  | 10.2 | 9.5                                       | 2.0                                  | 14.9 | 13.4                                      | 4.6                                   | 30.1 | 27.2                                       |
| 2010 | 1.3                                  | 11.5 | 10.9                                      | 1.7                                  | 16.6 | 15.2                                      | 3.9                                   | 34.0 | 31.2                                       |
| 2011 | 1.1                                  | 12.6 | 12.2                                      | 1.5                                  | 18.0 | 16.7                                      | 3.4                                   | 37.4 | 34.9                                       |
| 2012 | 1.0                                  | 13.7 | 13.3                                      | 1.2                                  | 19.3 | 18.1                                      | 3.0                                   | 40.5 | 38.2                                       |
| 2013 | 0.9                                  | 14.6 | 14.3                                      | 1.1                                  | 20.3 | 19.2                                      | 2.7                                   | 43.1 | 41.0                                       |
| 2014 | 0.8                                  | 15.4 | 15.2                                      | 0.9                                  | 21.2 | 20.1                                      | 2.3                                   | 45.5 | 43.5                                       |

Commercial / Industrial Market Sector Demand and Energy Data  
Current 2005 - 2014 Goals

| Year | Projected Summer Demand Savings (MW) |      | Commission Approved Summer MW Goal (Cum.) | Projected Winter Demand Savings (MW) |      | Commission Approved Winter MW Goal (Cum.) | Projected Annual Energy Savings (GWH) |      | Commission Approved Annual GWH Goal (Cum.) |
|------|--------------------------------------|------|---|--------------------------------------|------|---|---------------------------------------|------|--|
|      | Incr.                                | Cum. |   | Incr.                                | Cum. |   | Incr.                                 | Cum. |  |
| 2005 | 2.3                                  | 2.3  | 2.1                                       | 1.1                                  | 1.1  | 1.0                                       | 7.2                                   | 7.2  | 6.7  |
| 2006 | 2.1                                  | 4.4  | 4.4                                       | 1.0                                  | 2.1  | 2.0                                       | 6.7                                   | 13.9 | 12.8                                       |
| 2007 | 2.0                                  | 6.4  | 6.0                                       | 1.0                                  | 3.1  | 2.9                                       | 6.1                                   | 20.0 | 18.4                                       |
| 2008 | 1.9                                  | 8.2  | 7.7                                       | 0.9                                  | 4.0  | 3.8                                       | 5.5                                   | 25.5 | 23.4                                       |
| 2009 | 1.7                                  | 9.9  | 9.3                                       | 0.9                                  | 4.9  | 4.7                                       | 5.0                                   | 30.5 | 27.8                                       |
| 2010 | 1.5                                  | 11.4 | 10.7                                      | 0.8                                  | 5.7  | 5.5                                       | 3.9                                   | 34.4 | 31.7                                       |
| 2011 | 1.3                                  | 12.7 | 12.1                                      | 0.8                                  | 6.4  | 6.2                                       | 3.3                                   | 37.7 | 35.0                                       |
| 2012 | 1.2                                  | 13.9 | 13.3                                      | 0.7                                  | 7.2  | 6.9                                       | 2.7                                   | 40.4 | 37.7                                       |
| 2013 | 1.1                                  | 15.0 | 14.3                                      | 0.7                                  | 7.8  | 7.6                                       | 2.2                                   | 42.6 | 39.9                                       |
| 2014 | 0.9                                  | 15.9 | 15.3                                      | 0.6                                  | 8.4  | 8.2                                       | 1.6                                   | 44.2 | 41.5                                       |



**Residential Market Sector Demand and Energy Data  
Proposed 2005 - 2014 Goals**

| Year | Projected Summer Demand Savings (MW) |      | Commission Approved Summer MW Goal (Cum.) | Projected Winter Demand Savings (MW) |      | Commission Approved Winter MW Goal (Cum.) | Projected Annual Energy Savings (GWH) |      | Commission Approved Annual GWH Goal (Cum.) |
|------|--------------------------------------|------|---|--------------------------------------|------|---|---------------------------------------|------|--|
|      | Incr.                                | Cum. |   | Incr.                                | Cum. |   | Incr.                                 | Cum. |  |
| 2005 | 2.8                                  | 2.8  | 2.4                                       | 4.2                                  | 4.2  | 4.0                                       | 7.7                                   | 7.7  | 7.0  |
| 2006 | 3.3                                  | 6.1  | 4.4                                       | 4.0                                  | 8.2  | 6.7                                       | 8.6                                   | 16.3 | 12.6                                       |
| 2007 | 2.4                                  | 8.5  | 8.5                                       | 3.8                                  | 12.0 | 12.0                                      | 6.2                                   | 22.5 | 22.5                                       |
| 2008 | 2.1                                  | 10.7 | 10.7                                      | 3.4                                  | 15.4 | 15.4                                      | 5.6                                   | 28.1 | 28.1                                       |
| 2009 | 2.0                                  | 12.7 | 12.7                                      | 3.1                                  | 18.5 | 18.5                                      | 5.2                                   | 33.3 | 33.3                                       |
| 2010 | 1.9                                  | 14.6 | 14.6                                      | 2.8                                  | 21.3 | 21.3                                      | 4.9                                   | 38.2 | 38.2                                       |
| 2011 | 1.8                                  | 16.3 | 16.3                                      | 2.5                                  | 23.8 | 23.8                                      | 4.7                                   | 42.9 | 42.9                                       |
| 2012 | 1.7                                  | 18.0 | 18.0                                      | 2.2                                  | 25.9 | 25.9                                      | 4.4                                   | 47.3 | 47.3                                       |
| 2013 | 1.6                                  | 19.6 | 19.6                                      | 1.9                                  | 27.9 | 27.9                                      | 4.2                                   | 51.4 | 51.4                                       |
| 2014 | 1.5                                  | 21.2 | 21.2                                      | 1.7                                  | 29.6 | 29.6                                      | 3.9                                   | 55.4 | 55.4                                       |

**Commercial / Industrial Market Sector Demand and Energy Data  
Proposed 2005 - 2014 Goals**

| Year | Projected Summer Demand Savings (MW) |      | Commission Approved Summer MW Goal (Cum.) | Projected Winter Demand Savings (MW) |      | Commission Approved Winter MW Goal (Cum.) | Projected Annual Energy Savings (GWH) |      | Commission Approved Annual GWH Goal (Cum.) |
|------|--------------------------------------|------|---|--------------------------------------|------|---|---------------------------------------|------|--|
|      | Incr.                                | Cum. |   | Incr.                                | Cum. |   | Incr.                                 | Cum. |  |
| 2005 | 4.3                                  | 4.3  | 2.1                                       | 3.4                                  | 3.4  | 1.0                                       | 7.9                                   | 7.9  | 6.7  |
| 2006 | 1.5                                  | 5.8  | 4.4                                       | 0.4                                  | 3.8  | 2.0                                       | 7.4                                   | 15.3 | 12.8                                       |
| 2007 | 4.7                                  | 10.5 | 10.5                                      | 4.0                                  | 7.8  | 7.8                                       | 4.2                                   | 19.5 | 19.5                                       |
| 2008 | 4.8                                  | 15.3 | 15.3                                      | 4.1                                  | 11.9 | 11.9                                      | 4.7                                   | 24.2 | 24.2                                       |
| 2009 | 4.9                                  | 20.2 | 20.2                                      | 4.1                                  | 16.0 | 16.0                                      | 5.1                                   | 29.3 | 29.3                                       |
| 2010 | 5.0                                  | 25.3 | 25.3                                      | 4.2                                  | 20.3 | 20.3                                      | 5.5                                   | 34.7 | 34.7                                       |
| 2011 | 5.1                                  | 30.3 | 30.3                                      | 4.2                                  | 24.5 | 24.5                                      | 5.5                                   | 40.2 | 40.2                                       |
| 2012 | 5.0                                  | 35.4 | 35.4                                      | 4.2                                  | 28.7 | 28.7                                      | 5.4                                   | 45.6 | 45.6                                       |
| 2013 | 4.9                                  | 40.3 | 40.3                                      | 4.2                                  | 32.9 | 32.9                                      | 4.8                                   | 50.4 | 50.4                                       |
| 2014 | 4.8                                  | 45.1 | 45.1                                      | 4.1                                  | 37.0 | 37.0                                      | 4.2                                   | 54.6 | 54.6                                       |