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July 15, 2010

HAND DELIVERED

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

RECEIVED-FPSC  
10 JUL 15 PM 2:45  
COMMISSION  
CLERK

Re: Petition for Approval of Demand-side Management Plan of Tampa Electric Company; FPSC Docket No. 100159-EG

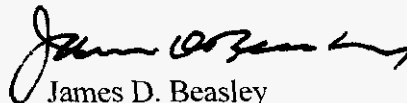
Dear Ms. Cole:

Enclosed for filing in the above docket are the original and five copies of Tampa Electric Company's answers to the Florida Public Service Commission Staff's Data Request No. 2, propounded and served by U. S. Mail on June 25, 2010.

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

Thank you for your assistance in connection with this matter.

Sincerely,

  
James D. Beasley

COM \_\_\_\_\_  
APA \_\_\_\_\_  
ECR \_\_\_\_\_  
GCL \_\_\_\_\_  
RAD 4  
SSC \_\_\_\_\_  
ADM \_\_\_\_\_  
OPC \_\_\_\_\_ JDB/pp  
CLK \_\_\_\_\_ Enclosure

cc: Katherine E. Fleming (w/enc. and CD)  
Vicki Gordon Kaufman (w/enc.)  
John W. McWhirter, Jr. (w/enc.)  
George Cavros (w/enc.)  
Suzanne Brownless (w/enc.)  
Rick D. Chamberlin (w/enc.)

DOCUMENT NUMBER - DATE  
05815 JUL 15 2010  
FPSC - COMMISSION CLERK

**TAMPA ELECTRIC COMPANY**  
**DOCKET NO. 100159-EI**  
**STAFF'S SECOND DATA REQUEST**  
**REQUEST NO. 1**  
**PAGE 1 OF 3**  
**FILED: JULY 15, 2010**

1. Please refer to Staff's First Data Request, No. 14. For each audit program, please provide, for behavioral changes and CFLs separately, the cumulative projected savings over the period 2010 through 2019. As part of this response, please also provide the percentage of the Commission's Authorized Goals and the Company's proposed demand and energy savings met by the measure. Please complete the table below and provide an electronic copy in Excel (.xls file format) with the hard copy response.

<b>Audit Component Information</b>			
Audit Program Name	(-)		
Components	(-)	Behavioral Modification	Compact Fluorescents
<b>Savings Associated with Measure</b>			
Summer Demand	(MW)		
Winter Demand	(MW)		
Annual Energy	(GWh)		
<b>% of Program</b>			
Summer Demand	(%)		
Winter Demand	(%)		
Annual Energy	(%)		
<b>% of Commission Authorized Goal</b>			
Summer Demand	(%)		
Winter Demand	(%)		
Annual Energy	(%)		

- A. The requested information is provided in the tables below and in the attached Excel spreadsheets.

TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 1  
PAGE 2 OF 3  
FILED: JULY 15, 2010

Audit Component Information			
Audit Program Name	(-)	Residential Walk Through	
Components	(-)	Behavioral Modification	Compact Fluorescents
Savings Associated with Measure			
Summer Demand	(MW)	3.174	0.565
Winter Demand	(MW)	4.232	0.847
Annual Energy	(GWh)	14.413	11.433
% of Program			
Summer Demand	(%)	84.9%	15.1%
Winter Demand	(%)	83.3%	16.7%
Annual Energy	(%)	55.8%	44.2%
% of Commission Authorized Goal			
Summer Demand	(%)	3.7%	0.7%
Winter Demand	(%)	4.5%	0.9%
Annual Energy	(%)	7.8%	6.2%

Audit Component Information			
Audit Program Name	(-)	Residential On-Line	
Components	(-)	Behavioral Modification	Compact Fluorescents
Savings Associated with Measure			
Summer Demand	(MW)	0.474	0.111
Winter Demand	(MW)	0.712	0.171
Annual Energy	(GWh)	2.429	2.308
% of Program			
Summer Demand	(%)	80.6%	19.4%
Winter Demand	(%)	80.6%	19.4%
Annual Energy	(%)	51.3%	48.7%
% of Commission Authorized Goal			
Summer Demand	(%)	0.6%	0.1%
Winter Demand	(%)	0.8%	0.2%
Annual Energy	(%)	1.3%	1.3%

Audit Component Information			
Audit Program Name	(-)	Residential Computer-Assisted	
Components	(-)	Behavioral Modification	Compact Fluorescents
Savings Associated with Measure			
Summer Demand	(MW)	0.0003	0.0001
Winter Demand	(MW)	0.0004	0.0001
Annual Energy	(GWh)	0.001	0.001
% of Program			
Summer Demand	(%)	83.3%	16.7%
Winter Demand	(%)	81.6%	18.4%
Annual Energy	(%)	52.9%	47.1%
% of Commission Authorized Goal			
Summer Demand	(%)	0.0004%	0.0001%
Winter Demand	(%)	0.0005%	0.0001%
Annual Energy	(%)	0.0010%	0.0010%

TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 1  
PAGE 3 OF 3  
FILED: JULY 15, 2010

Audit Component Information			
Audit Program Name	(-)	Residential Phone Assisted	
Components	(-)	Behavioral Modification	Compact Fluorescents
Savings Associated with Measure			
Summer Demand	(MW)	0.01	0.001
Winter Demand	(MW)	0.015	0.002
Annual Energy	(GWh)	0.052	0.026
% of Program			
Summer Demand	(%)	88.8%	11.2%
Winter Demand	(%)	88.8%	11.2%
Annual Energy	(%)	66.7%	33.3%
% of Commission Authorized Goal			
Summer Demand	(%)	0.0118%	0.0015%
Winter Demand	(%)	0.0160%	0.0020%
Annual Energy	(%)	0.0280%	0.0140%

Audit Component Information			
Audit Program Name	(-)	Commercial Free	
Components	(-)	Behavioral Modification	Compact Fluorescents
Savings Associated with Measure			
Summer Demand	(MW)	1.082	0.077
Winter Demand	(MW)	0.812	0.115
Annual Energy	(GWh)	4.582	1.55
% of Program			
Summer Demand	(%)	93.4%	6.6%
Winter Demand	(%)	87.6%	12.4%
Annual Energy	(%)	74.7%	25.3%
% of Commission Authorized Goal			
Summer Demand	(%)	2.0769%	0.1472%
Winter Demand	(%)	5.5968%	0.7932%
Annual Energy	(%)	2.5990%	0.8790%

Audit Component Information			
Audit Program Name	(-)	Commercial Paid	
Components	(-)	Behavioral Modification	Compact Fluorescents
Savings Associated with Measure			
Summer Demand	(MW)	0.0009	0.0001
Winter Demand	(MW)	0.0006	0.0001
Annual Energy	(GWh)	0.0036	0.0013
% of Program			
Summer Demand	(%)	93.0%	7.0%
Winter Demand	(%)	87.0%	13.0%
Annual Energy	(%)	73.6%	26.4%
% of Commission Authorized Goal			
Summer Demand	(%)	0.0016%	0.0001%
Winter Demand	(%)	0.0044%	0.0007%
Annual Energy	(%)	0.0020%	0.0010%

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 2  
PAGE 1 OF 1  
FILED: JULY 15, 2010**

2. Please refer to Staff's First Data Request, No. 7. Please explain or describe the steps in calculating the Residential Rate Impact and Percent of Total ECCR Rate.
  - A. Tampa Electric utilized the following sequential steps to determine the residential rate impact and percent of total ECCR rate found in response to Staff's First Data Request, No. 7:
    1. The total 2010 estimated annual cost for the proposed DSM Plan, including the required renewable expenditure, was determined;
    2. The 2010 total annual cost was then inserted into the company's most recent ECCR projection filing in order to establish the annual residential ECCR factor for this level of expenditure;
    3. The newly estimated annual residential ECCR factor was then applied to 1,200 kWh to determine the average monthly rate impact;
    4. Once the total residential ECCR rate impact for 1,200 kWh was identified, the impact for each program's contribution to that total rate impact was extrapolated from the relationship of each program's first year cost to the total annual cost for the first year of the proposed DSM Plan
    5. Finally, each program's rate impact was divided by the total residential ECCR rate impact to provide the percent of total ECCR rate.

For example, the monthly residential rate impact of the ceiling insulation component of the Building Envelope Program was determined in the following manner. The total 2010 estimated annual cost for the proposed DSM Plan is \$47,606,668. By inserting this amount in the most recent ECCR projection filing, a residential factor of \$0.002817 per kWh is established. When this factor is multiplied by a monthly usage of 1,200 kWh, the resulting rate impact is \$3.38 per month. The 2010 annual cost for ceiling insulation is estimated to be \$414,893. Therefore, the ratio of \$414,893 to \$47,606,668 was applied to \$3.38 to estimate the ceiling insulation measure contribution to the total residential monthly rate impact or 2.95 cents per month. Lastly, the ceiling insulation's monthly impact was divided by the total monthly impact to determine the measure's percent of total ECCR rate or 0.872 percent.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 3  
PAGE 1 OF 3  
FILED: JULY 15, 2010**

3. Please refer to Staff's First Data Request, No. 7. Please provide for each audit measure, the estimated cumulative net present value of all expenditures required over the period 2010 through 2019. If available, please provide the values broken down into categories including administrative, marketing, equipment (CFLs, other items provided to customers). As part of this response, please also provide the percentage that each category represents of the total measure expenditures. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

<b>Audit Information</b>		
Audit Program Name	(-)	
<b>Measure Cost (Cumulative NPV)</b>		
Total Cost	(\$)	
Administrative	(\$)	
Education, Surveys, Marketing	(\$)	
CFLs, Other Provided Items	(\$)	
<b>Measure Cost (% of Program)</b>		
Total Cost	(%)	
Administrative	(%)	
Education, Surveys, Marketing	(%)	
CFLs, Other Provided Items	(%)	

- A. The requested information is provided in the tables below and in the attached Excel spreadsheets.

TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 3  
PAGE 2 OF 3  
FILED: JULY 15, 2010

Audit Information		
Audit Program Name	(-)	Residential Walk Through
<b>Measure Cost (Cumulative NPV)</b>		
Total Cost	(\$)	\$24,929,981
Administrative	(\$)	\$14,067,277
Education, Surveys, Marketing	(\$)	\$10,480,256
CFLs, Other Provided Items	(\$)	\$382,448
<b>Measure Cost (% of Program)</b>		
Total Cost	(%)	100.00%
Administrative	(%)	56.43%
Education, Surveys, Marketing	(%)	42.04%
CFLs, Other Provided Items	(%)	1.53%

Audit Information		
Audit Program Name	(-)	Residential On-Line
<b>Measure Cost (Cumulative NPV)</b>		
Total Cost	(\$)	\$5,352,529
Administrative	(\$)	\$1,438,019
Education, Surveys, Marketing	(\$)	\$3,837,066
CFLs, Other Provided Items	(\$)	\$77,444
<b>Measure Cost (% of Program)</b>		
Total Cost	(%)	100.00%
Administrative	(%)	26.87%
Education, Surveys, Marketing	(%)	71.69%
CFLs, Other Provided Items	(%)	1.45%

Audit Information		
Audit Program Name	(-)	Residential Computer-Assisted
<b>Measure Cost (Cumulative NPV)</b>		
Total Cost	(\$)	\$553,861
Administrative	(\$)	\$2,226
Education, Surveys, Marketing	(\$)	\$551,592
CFLs, Other Provided Items	(\$)	\$43
<b>Measure Cost (% of Program)</b>		
Total Cost	(%)	100.00%
Administrative	(%)	0.40%
Education, Surveys, Marketing	(%)	99.59%
CFLs, Other Provided Items	(%)	0.01%



TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 3  
PAGE 3 OF 3  
FILED: JULY 15, 2010

Audit Information		
Audit Program Name	(-)	Residential Phone Assisted
<b>Measure Cost (Cumulative NPV)</b>		
Total Cost	(\$)	\$1,297,714
Administrative	(\$)	\$17,832
Education, Surveys, Marketing	(\$)	\$1,279,022
CFLs, Other Provided Items	(\$)	\$860
<b>Measure Cost (% of Program)</b>		
Total Cost	(%)	100.00%
Administrative	(%)	1.37%
Education, Surveys, Marketing	(%)	98.56%
CFLs, Other Provided Items	(%)	0.07%

Audit Information		
Audit Program Name	(-)	Commercial Free
<b>Measure Cost (Cumulative NPV)</b>		
Total Cost	(\$)	\$6,092,015
Administrative	(\$)	\$2,852,695
Education, Surveys, Marketing	(\$)	\$3,187,364
CFLs, Other Provided Items	(\$)	\$51,956
<b>Measure Cost (% of Program)</b>		
Total Cost	(%)	100.00%
Administrative	(%)	46.83%
Education, Surveys, Marketing	(%)	52.32%
CFLs, Other Provided Items	(%)	0.85%

Audit Information		
Audit Program Name	(-)	Commercial Paid
<b>Measure Cost (Cumulative NPV)</b>		
Total Cost	(\$)	\$174,174
Administrative	(\$)	\$6,375
Education, Surveys, Marketing	(\$)	\$167,756
CFLs, Other Provided Items	(\$)	\$43
<b>Measure Cost (% of Program)</b>		
Total Cost	(%)	100.00%
Administrative	(%)	3.66%
Education, Surveys, Marketing	(%)	96.32%
CFLs, Other Provided Items	(%)	0.02%



TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 4  
PAGE 1 OF 1  
FILED: JULY 15, 2010

4. Please refer to Staff's First Data Request, No. 7. Please provide for each audit measure, the estimated Lost Revenues associated with the demand and energy savings of the program.
- A. The requested information based on Commission approved cost-effectiveness methodology is provided in the table below.

<b>Audit Information</b>	
<b>Audit Program Name</b>	<b>Lost Revenues \$(000)</b>
Residential Walk Through	9,828.2
Residential On-Line	1,811.2
Residential Computer-Assisted	1.8
Residential Phone Assisted	24.7
Commercial Free	2,121.9
Commercial Paid	2.4

**TAMPA ELECTRIC COMPANY**  
**DOCKET NO. 100159-EI**  
**STAFF'S SECOND DATA REQUEST**  
**REQUEST NO. 5**  
**PAGE 1 OF 3**  
**FILED: JULY 15, 2010**

5. Please conduct a cost-effectiveness analysis on each audit program, using the E-TRC, E-RIM, and Participants Tests. As part of this response, please include the cumulative net present values of all benefits and costs. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

Audit Information		
Audit Program Name	(-)	
E-TRC Test Results		
Total Benefits	(\$)	
Total Costs	(\$)	
Ratio	(-)	
E-Rim Test Results		
Total Benefits	(\$)	
Total Costs	(\$)	
Ratio	(-)	
Participants Test Results		
Total Benefits	(\$)	
Total Costs	(\$)	
Ratio	(-)	

- A. The requested information is provided in the tables below and in the attached Excel spreadsheets.

TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 5  
PAGE 2 OF 3  
FILED: JULY 15, 2010

Audit Information		
Audit Program Name	(-)	Residential Walk Through
E-TRC Test Results		
Total Benefits	(\$)	6,361.19
Total Costs	(\$)	3,061.82
Ratio	(-)	2.08
E-Rim Test Results		
Total Benefits	(\$)	6,361.19
Total Costs	(\$)	9,608.10
Ratio	(-)	0.66
Participants Test Results		
Total Benefits	(\$)	6546.28
Total Costs	(\$)	0
Ratio	(-)	N/A

Audit Information		
Audit Program Name	(-)	Residential On-Line
E-TRC Test Results		
Total Benefits	(\$)	1,228.92
Total Costs	(\$)	304.49
Ratio	(-)	4.04
E-Rim Test Results		
Total Benefits	(\$)	1,228.92
Total Costs	(\$)	1,590.11
Ratio	(-)	0.77
Participants Test Results		
Total Benefits	(\$)	1,285.62
Total Costs	(\$)	0
Ratio	(-)	N/A

Audit Information		
Audit Program Name	(-)	Residential Computer-Assisted
E-TRC Test Results		
Total Benefits	(\$)	0.7
Total Costs	(\$)	0.56
Ratio	(-)	1.25
E-Rim Test Results		
Total Benefits	(\$)	0.7
Total Costs	(\$)	1.33
Ratio	(-)	0.53
0.77		
Total Benefits	(\$)	0.77
Total Costs	(\$)	0
Ratio	(-)	N/A

Audit Information		
Audit Program Name	(-)	Residential Phone Assisted
E-TRC Test Results		
Total Benefits	(\$)	12.22
Total Costs	(\$)	1.8
Ratio	(-)	6.79
E-Rim Test Results		
Total Benefits	(\$)	12.22
Total Costs	(\$)	14.39
Ratio	(-)	0.85
Participants Test Results		
Total Benefits	(\$)	12.59
Total Costs	(\$)	0
Ratio	(-)	N/A

Audit Information		
Audit Program Name	(-)	Commercial Free
E-TRC Test Results		
Total Benefits	(\$)	1,229.25
Total Costs	(\$)	647.37
Ratio	(-)	1.90
E-Rim Test Results		
Total Benefits	(\$)	1,229.25
Total Costs	(\$)	1,638.31
Ratio	(-)	0.75
Participants Test Results		
Total Benefits	(\$)	0.77
Total Costs	(\$)	0
Ratio	(-)	N/A

Audit Information		
Audit Program Name	(-)	Commercial Paid
E-TRC Test Results		
Total Benefits	(\$)	0.98
Total Costs	(\$)	1.57
Ratio	(-)	0.62
E-Rim Test Results		
Total Benefits	(\$)	0.98
Total Costs	(\$)	2.44
Ratio	(-)	0.40
Participants Test Results		
Total Benefits	(\$)	0.86
Total Costs	(\$)	0
Ratio	(-)	N/A

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 6  
PAGE 1 OF 2  
FILED: JULY 15, 2010**

6. Please refer to TECO's petition, pages 9 through 28 and 124 through 132. Please provide, for each audit program, the estimated cost per audit. As part of this response, please indicate the amount spent on administrative & other costs, separate from the cost of compact fluorescent light bulbs and other items provided to the customer for free. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

<b>Audit Information</b>		
Audit Program Name	(-)	
<b>Audit Costs</b>		
Administrative & Other Costs	(\$/Customer)	
CFLs, Other Free Items	(\$/Customer)	

- A. The requested information is provided in the tables below and in the attached Excel spreadsheets.

Audit Information		
Audit Program Name	(-)	Residential Walk Through
Audit Costs		
Administrative & Other Costs	(\$/Customer)	\$158.63
CFLs, Other Free Items	(\$/Customer)	\$15.37

Audit Information		
Audit Program Name	(-)	Residential On-Line
Audit Costs		
Administrative & Other Costs	(\$/Customer)	\$18.63
CFLs, Other Free Items	(\$/Customer)	\$15.37

Audit Information		
Audit Program Name	(-)	Residential Computer-Assisted
Audit Costs		
Administrative & Other Costs	(\$/Customer)	\$269.63
CFLs, Other Free Items	(\$/Customer)	\$15.37

Audit Information		
Audit Program Name	(-)	Residential Phone Assisted
Audit Costs		
Administrative & Other Costs	(\$/Customer)	\$51.63
CFLs, Other Free Items	(\$/Customer)	\$15.37

Audit Information		
Audit Program Name	(-)	Commercial Free
Audit Costs		
Administrative & Other Costs	(\$/Customer)	\$172.63
CFLs, Other Free Items	(\$/Customer)	\$15.37

Audit Information		
Audit Program Name	(-)	Commercial Paid
Audit Costs		
Administrative & Other Costs	(\$/Customer)	\$790.63
CFLs, Other Free Items	(\$/Customer)	\$15.37

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 7  
PAGE 1 OF 1  
FILED: JULY 15, 2010**

7. Please refer to Staff's First Data Request, No. 14. Please provide the estimated duration of behavioral changes that result from an energy audit. Please provide supporting documentation of these values.
- A. The duration of behavioral changes that result from an energy audit is estimated to be 10 years which is the length of the study period used in the program cost-effectiveness calculation. Utilities are required to provide energy audits to its customers in accordance with Section 366.82, Florida Statutes, and Rule 25-17, Florida Administrative Code; therefore, cost-effectiveness calculations are not explicitly required. However, in Tampa Electric's response to Staff's Second Data Request, No. 5, the company has provided cost-effectiveness calculations and utilized the 10-year study period.

The energy audit is primarily an educational program designed to motivate customers to a higher level of energy consumption awareness. Awareness entails both energy efficiency measures and behavioral changes to lifestyles. Detailed information is collected, reviewed and provided to the customer. Tampa Electric reinforces its initial recommendations with ongoing education made available through bill inserts, customer newsletters, bill messaging, company website and media advertising to sustain energy conservation behavioral changes developed by the customer as a direct result of having an energy audit performed on their residence.



**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 8  
PAGE 1 OF 1  
FILED: JULY 15, 2010**

- 8.** Please explain or describe how TECO intends to measure and monitor actual savings of its audit programs, as required by Commission Rules. As part of this response, please explain and describe the procedures used to verify savings.
  - A.** Tampa Electric has provided a detailed explanation of how the company monitors and determines the savings attributed to energy audits in its response to Staff's First Data Request, No. 14. Included in that response is the treatment of savings from CFLs for the 2010-2012 period. In 2013, a federal standard will eliminate the production of incandescent lamps; therefore, CFLs will become the lamp of customer choice. At that point, the company will no longer account for incremental CFL savings.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 9  
PAGE 1 OF 1  
FILED: JULY 15, 2010**

- 9.** Please state whether TECO has historically included savings associated with energy audits towards its conservation goals. Please state whether this inclusion of audit savings were approved in the Commission's previous rulings on conservation goals for TECO.
- A.** Since 1995 Tampa Electric has counted the savings from energy audits toward its conservation goals. These savings have been and will continue to be based on audit-induced customer modifications of practices and behaviors. Any savings attributable to DSM program participation that occurs subsequent to an audit are only captured by the specific DSM program and not the energy audit. Due to this methodology energy audits have always been a component of Tampa Electric's Commission-approved DSM plans designed and implemented to meet the company's 10-year DSM goals approved by the Commission.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 10  
PAGE 1 OF 2  
FILED: JULY 15, 2010**

10. Please refer to TECO's Petition, pages 315 through 317. Please provide, for the Renewable Energy Systems Initiative Program as a whole, and on an individual measure basis, the cumulative net present value of expenditures required over the period 2010 through 2019. Please provide the values broken down into categories including administrative, marketing, equipment, and incentives. As part of this response, please also provide the percentage that each category represents of the total program and measure expenditures. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

<b>Renewable Energy Systems Initiative</b>						
Measure Name	(-)	Residential & Commercial PV	Residential SWH	School PV	Low Income SWH	Total Program
<b>Cost (Cumulative NPV)</b>						
Administrative	(\$)					
Education, Surveys, Marketing	(\$)					
Equipment, Installation, O&M	(\$)					
Incentives / Rebates	(\$)					
Total Cost	(\$)					
<b>Cost (% of Program)</b>						
Administrative	(%)					
Education, Surveys, Marketing	(%)					
Equipment, Installation, O&M	(%)					
Incentives / Rebates	(%)					

- A. The requested information is provided in the table below and in the attached Excel spreadsheets.

TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 10  
PAGE 2 OF 2  
FILED: JULY 15, 2010

Renewable Energy Systems Initiative						
Measure Name	(-)	Residential & Commercial PV	Residential SWH	School PV	Low Income SWH	Total Program
<b>Cost (Cumulative NPV)</b>						
Administrative	(\$)	\$6,912	\$15,553	\$2,160	\$734	\$25,359
Education, Surveys, Marketing	(\$)	\$449,480	\$54,858	\$0	\$1,613	\$505,951
Equipment, Installation, O&M	(\$)	\$15,614,705	\$3,297,464	\$648,038	\$109,915	\$19,670,122
Incentives / Rebates	(\$)	\$4,320,253	\$648,038	\$648,038	\$109,915	\$5,726,244
Total Cost	(\$)	\$20,391,350	\$4,015,913	\$650,198	\$112,262	\$25,169,723
<b>Cost (% of Program)</b>						
Administrative	(%)	0.03%	0.39%	0.33%	0.65%	0.10%
Education, Surveys, Marketing	(%)	2.20%	1.37%	0.00%	1.44%	2.01%
Equipment, Installation, O&M	(%)	76.58%	82.11%	99.67%	97.91%	78.15%
Incentives / Rebates	(%)	21.19%	16.14%	0.00%	0.00%	22.75%

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 11  
PAGE 1 OF 2  
FILED: JULY 15, 2010**

11. Please refer to TECO's Petition, pages 315 through 317. Please provide, for the Renewable Energy Systems Initiative Program as a whole, and on an individual measure basis, the estimated customer costs for each measure of the Renewable Energy Systems Initiative Program. For each measure, provide the incentive / rebate rate, and its associated units. For example, in \$/Watt or in \$/Participant. Also provide the associated non-recurring and recurring expenses, including administrative, equipment, incentives, and O&M. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

<b>Renewable Energy Systems Initiative</b>					
Measure Name	(-)	Residential & Commercial PV	Residential SWH	School PV	Low Income SWH
<b>Measure Incentives &amp; Duration</b>					
Incentive / Rebate Rate					
Incentive / Rebate Unit					
Participant Equipment Cost	(\$)				
<b>Non-recurring Measure Expenses</b>					
Administrative	(\$/Part)				
Equipment	(\$/Part)				
Incentive / Rebate	(\$/Part)				
<b>Recurring Measure Expenses</b>					
Administrative	(\$/Part/Yr)				
Equipment	(\$/Part/Yr)				
O&M	(\$/Part/Yr)				

- A. The requested information is provided in the table below and in the attached Excel spreadsheets.

Renewable Energy Systems Initiative					
Measure Name	(-)	Residential & Commercial PV	Residential SWH	School PV	Low Income SWH
<b>Measure Incentives &amp; Duration</b>					
Incentive / Rebate Rate		\$2.00 /watt			
Incentive / Rebate Unit		\$12,500	\$1,000	\$150,000	\$5,000
Participant Equipment Cost	(\$)	\$41,619	\$5,000	\$0	\$0
<b>Non-recurring Measure Expenses</b>					
Administrative	(\$/Part)	\$20	\$24	\$500	\$34
Equipment	(\$/Part)	\$41,619	\$5,000	\$150,000	\$5,000
Incentive / Rebate	(\$/Part)	\$12,500	\$1,000	\$150,000	\$5,000
<b>Recurring Measure Expenses</b>					
Administrative	(\$/Part/Yr)	\$0	\$0	\$0	\$0
Equipment	(\$/Part/Yr)	\$0	\$0	\$0	\$0
O&M	(\$/Part/Yr)	\$950	\$0	\$950	\$0

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 12  
PAGE 1 OF 2  
FILED: JULY 15, 2010**

12. Please conduct a cost-effectiveness analysis on the Renewable Energy Systems Initiative, and its component measures, using the E-TRC, E-RIM, and Participants Tests. As part of this response, please include the cumulative net present values of all benefits and costs. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

<b>Renewable Energy Systems Initiative</b>						
Measure Name	(-)	Residential & Commercial PV	Residential SWH	School PV	Low Income SWH	Total Program
<b>E-TRC Test Results</b>						
Total Benefits	(\$)					
Total Costs	(\$)					
Ratio	(-)					
<b>E-Rim Test Results</b>						
Total Benefits	(\$)					
Total Costs	(\$)					
Ratio	(-)					
<b>Participants Test Results</b>						
Total Benefits	(\$)					
Total Costs	(\$)					
Ratio	(-)					

- A. The requested information is provided in the table below and in the attached Excel spreadsheets.



TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 12  
PAGE 2 OF 2  
FILED: JULY 15, 2010

Renewable Energy Systems Initiative						
Measure Name	(-)	Residential & Commercial PV	Residential SWH	School PV	Low Income SWH	Total Program
<b>E-TRC Test Results</b>						
Total Benefits	(\$)	3,010.77	675.28	675.28	22.69	4,384.02
Total Costs	(\$)	8,828.65	1,469.55	1,469.55	49.08	11,816.83
Ratio	(-)	0.34	0.46	0.46	0.46	0.37
<b>E-Rite Test Results</b>						
Total Benefits	(\$)	3,010.77	675.28	675.28	22.69	4,384.02
Total Costs	(\$)	4,083.83	925.19	925.19	69.47	6,003.68
Ratio	(-)	0.74	0.73	0.73	0.33	0.73
<b>Participant Test Results</b>						
Total Benefits	(\$)	5,416.75	1,265.01	1,265.01	69.14	8,015.91
Total Costs	(\$)	8,814.92	1,462.53	1,462.53	48.75	11,788.73
Ratio	(-)	0.61	0.86	0.86	1.42	0.68

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 13  
PAGE 1 OF 1  
FILED: JULY 15, 2010**

13. Please explain or describe why, for the School PV measure, the photovoltaic systems are not intended to be owned by the school from the outset of the measure, similar to the Low Income SWH program. As part of this response, please explain or describe any benefits or disadvantages that TECO's suggested five year ownership period may provide over providing the system initially. For example, does the five year period correspond to any major maintenance requirement?
  - A. Tampa Electric intends to own the PV systems installed on schools for five years to ensure system functionality from the outset and manage any associated maintenance. During that five-year period, the company will also provide school personnel the education needed to sustain ongoing system viability at the time of ownership transfer. Based on current Florida Solar Energy Center data, the schools will have 20 years of useful life remaining on the systems. Additionally, the company will assist with providing students the necessary educational opportunity that will support the advancement of PV into the future. The company believes this type of partnership with the schools affords the best technology transfer mechanism.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 14  
PAGE 1 OF 1  
FILED: JULY 15, 2010**

14. Please provide the estimated savings if the total funds allocated to the Renewable Energy System Initiative Program were split equally between the four measures: Residential & Commercial PV, Residential SWH, PV for Schools, and Low Income SWH.

A. Due to the limited number of schools designated as emergency shelters and the modest number of homes constructed by non-profit organizations in Tampa Electric's service area, the company does not foresee additional opportunities for these two programs to utilize added funding. Therefore, the company's response below demonstrates maintaining these programs' costs as filed while allocating the balance of expenditures equally across the other renewable programs.

The tables below show the estimated savings with equal allocations for Residential and Commercial PV and Residential SWH after expenses for PV for Schools and Low Income SWH are removed.

Annual Allocation	\$1,531,018
PV for schools	150,000
Low Income SHW	<u>25,000</u>
Total	\$175,000
Remaining balance	\$1,356,018
Admin. costs	<u>\$135,602</u>
Incentive allocation	\$1,220,416
Equal incentive allocation per program	<u>\$406,805</u>

	<b>Estimated Annual Saving</b>		
	Residential Solar SHW	Residential PV	Commercial PV
Annual Participation	407	41	20
Winter KW	248.3	0.0	0.0
Summer KW	122.1	114.8	112.0
Annual Energy KWH	967,032	323,244	315,360

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 15  
PAGE 1 OF 2  
FILED: JULY 15, 2010**

15. Please refer to TECO's Petition, pages 331. Please provide, for the Renewable Energy Program as a whole, the cumulative net present value of expenditures required over the period 2010 through 2019. Please provide the values broken down into categories including administrative, marketing, and other. As part of this response, please also provide the percentage that each category represents of the total program expenditures. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

<b>Renewable Energy Program</b>		
<b>Cost (Cumulative NPV)</b>		
Administrative	(\$)	
Education, Surveys, Marketing	(\$)	
Other	(\$)	
<b>Cost (% of Program)</b>		
Administrative	(%)	
Education, Surveys, Marketing	(%)	
Other	(%)	

- A. Tampa Electric's Renewable Energy Program was approved as a permanent program by the Commission in Docket No. 060786-EG, Order No. PSC-06-1063-TRF-EG, issued December 26, 2006. It is a voluntary participation program for all customers. Participants can purchase 200 kWh blocks of renewable energy for \$5.00 per block on a monthly or one-time basis. The program does not contribute to the accomplishment of the company's DSM goals and there are no Commission-prescribed cost-effectiveness test applied to the program.

In its approving order, the Commission allows the Renewable Energy Program to be a component of the Energy Conservation Cost Recovery ("ECCR") clause for the sole purpose of recording annual revenues and expenses. As stated in the order, "If revenues fall below expenses, TECO's administrative costs should be recovered through the ECCR clause. Once revenues begin to exceed costs, TECO will credit back the prior excess expenses, with interest, through the ECCR clause." The order goes on to charge Tampa Electric with using the excess revenue for securing additional renewable generating resources, increasing program participation and educating customers on the attributes of renewable energy. To date, the company has utilized excess revenues to install the following renewable generating resources: 1) 10.5 kW PV system at Middleton High School, 2) 15 kW PV system at the Lowry Park Zoo in Tampa, and 3) 10 kW PV system at the Florida Aquarium.

Renewable Energy Program		
Cost (Cumulative NPV)		
Administrative	(\$)	
Education, Surveys,		
Marketing	(\$)	
Other	(\$)	
Cost (% of Program)		
Administrative	(%)	
Education, Surveys,		
Marketing	(%)	
Other	(%)	

Left intentionally blank, see response.

**TAMPA ELECTRIC COMPANY**  
**DOCKET NO. 100159-EI**  
**STAFF'S SECOND DATA REQUEST**  
**REQUEST NO. 16**  
**PAGE 1 OF 2**  
**FILED: JULY 15, 2010**

16. Please refer to TECO's Petition, page 314. Please provide, for the Industrial Load Management Program, the cumulative net present value of expenditures required over the period 2010 through 2019. Please provide the values broken down into categories including administrative, marketing, equipment, and incentives. As part of this response, please also provide the percentage that each category represents of the total program and measure expenditures. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

<b>Industrial Load Management</b>		
<b>Program Cost (Cumulative NPV)</b>		
Administrative	(\$)	
Education, Surveys, Marketing	(\$)	
Equipment, Installation, O&M	(\$)	
Incentives / Rebates	(\$)	
Total Cost	(\$)	
<b>Program Cost (% of Program)</b>		
Administrative	(%)	
Education, Surveys, Marketing	(%)	
Equipment, Installation, O&M	(%)	
Incentives / Rebates	(%)	

- A. The requested information is provided in the table below and in the attached Excel spreadsheets.

TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 16  
PAGE 2 OF 2  
FILED: JULY 15, 2010

Industrial Load Management Program Cost (Current/NEV)		
Administrative	(\$)	\$127,738
Education, Surveys, Marketing	(\$)	
Equipment, Installation, O&M	(\$)	\$622,526
Incentives / Rebates	(\$)	\$95,522,207
Total Cost	(\$)	\$96,272,471
Program Cost (% of Program)		
Administrative	(%)	0.13%
Education, Surveys, Marketing	(%)	
Equipment, Installation, O&M	(%)	0.65%
Incentives / Rebates	(%)	99.22%

- 1) Assumes incentives remain at current level
- 2) Participation is limited to large customers typically managed by assigned account. Therefore, marketing is included in administrative expenses.



**TAMPA ELECTRIC COMPANY**  
**DOCKET NO. 100159-EI**  
**STAFF'S SECOND DATA REQUEST**  
**REQUEST NO. 17**  
**PAGE 1 OF 2**  
**FILED: JULY 15, 2010**

17. Please refer to page 314 of TECO's Petition. Please provide, for the Industrial Load Management Program, the estimated incentive, non-recurring (first time), and recurring costs for the Program. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

<b>Industrial Load Management</b>		
<b>Measure Incentives &amp; Duration</b>		
Incentive / Rebate Rate	(\$/kW)	
<b>Non-recurring Measure Expenses</b>		
Administrative	(\$/Part)	
Equipment	(\$/Part)	
<b>Recurring Measure Expenses</b>		
Administrative	(\$/Part/Yr)	
Equipment	(\$/Part/Yr)	
O&M	(\$/Part/Yr)	
Incentive / Rebate (Typical)	(\$/Part/Yr)	

- A. The requested information is provided in the table below and in the attached Excel spreadsheets.

TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 17  
PAGE 2 OF 2  
FILED: JULY 15, 2010

Industrial Load Management		
Measure Incentive & Duration		
Incentive / Rebate Rate	(\$/kW)	\$9.72
Non-recurring Measure Expenses		
Administrative	(\$/Part)	
Equipment	(\$/Part)	\$106,743
Recurring Measure Expenses		
Administrative	(\$/Part/Yr)	\$286
Equipment	(\$/Part/Yr)	
O&M	(\$/Part/Yr)	\$1,396
Incentive / Rebate (Typical)	(\$/Part/Yr)	\$363,975

Note: Values are on a per customer level based on  
on the latest evaluation submitted to the  
Commission in Docket No. 090002-EG.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 18  
PAGE 1 OF 1  
FILED: JULY 15, 2010**

18. Please conduct a cost-effectiveness analysis on the Industrial Load Management, and its component measures, using the E-TRC, E-RIM, and Participants Tests. As part of this response, please include the cumulative net present values of all benefits and costs. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

<b>Industrial Load Management</b>		
<b>E-TRC Test Results</b>		
Total Benefits	(\$)	
Total Costs	(\$)	
Ratio	(-)	
<b>E-Rim Test Results</b>		
Total Benefits	(\$)	
Total Costs	(\$)	
Ratio	(-)	
<b>Participants Test Results</b>		
Total Benefits	(\$)	
Total Costs	(\$)	
Ratio	(-)	

- A. This evaluation was done in Docket No. 090002-EG as part of the required submission in Tampa Electric's 2010 ECCR Projection Filing submitted on September 11, 2009 and approved by the Commission in Order No.PSC-09-0794-FOF-EG issued December 1, 2009. The requested cumulative net present values are in the table below.

<b>Industrial Load Management</b>		
<b>E-TRC Test Results</b>		
Total Benefits	(\$)	11,458
Total Costs	(\$)	246
Ratio	(-)	46.62
<b>E-RIM Test Results</b>		
Total Benefits	(\$)	11,458
Total Costs	(\$)	9,549
Ratio	(-)	1.2
<b>Participants Test Results</b>		
Total Benefits	(\$)	9,303
Total Costs	(\$)	0
Ratio	(-)	N/A

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 19  
PAGE 1 OF 1  
FILED: JULY 15, 2010**

19. Please explain or describe whether the methodology established by Order No. PSC-99-1778-FOF-EI requires usage of the RIM Test, or the E-RIM Test. Please provide the approximate values of the rebate with a cost effectiveness ratio of 1.2 for each of these tests, and the E-TRC Test.

A. The methodology established by Order No. PSC-99-1778-FOF-EI requires the use of the RIM test. As stated in the order, "The credit will be determined using the Rate Impact Measure (RIM) test calculation methodology set forth in Rule 25-17.008, Florida Administrative Code." The order further states, "The credit will be established using a RIM benefit/cost value of 1.2 to 1. Because the RIM test is based on many assumptions, using a 1.2 to 1 benefit/cost value will allow for a margin of error to ensure cost-effectiveness."

During the 2010-2019 DSM goals setting process, the utilities of Florida migrated to the E-RIM and E-TRC tests due to the encouragement from Commission Staff to include the cost of carbon in cost-effectiveness calculations. The cost of carbon is the only difference between the RIM and TRC tests and the E-RIM and E-TRC tests. Ultimately, Tampa Electric's DSM goals were set with the cost of carbon being included in their determination. Likewise, the company's DSM plan currently before the Commission utilized the cost of carbon in its development.

Due to this transition in cost-effectiveness methodology during the 2010-2019 DSM goals setting process, Tampa Electric utilized the E-RIM test to establish the 2010 credit for Industrial Load Management, i.e., the current Commission-approved credit of \$9.72 per kW for GSLM-2 & 3 was established with the E-RIM test.

With respect to the E-TRC test, any credit, incentive or rebate will have no impact on the test. Regardless of the magnitude of the credit, the value of the E-TRC test will remain the same. Therefore, the test cannot be utilized to establish or conduct sensitive analyses on the Industrial Load Management credit.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 20  
PAGE 1 OF 1  
FILED: JULY 15, 2010**

- 20.** Please explain or describe the continued justification for a cost-effectiveness ratio of 1.2 for the Industrial Load Management Program. Please explain or describe any and all analyses conducted that support the 1.2 ratio, compared to higher or lower (to 1.0) ratios for the cost-effectiveness tests.
- A.** In the order approving the GSLM-2 & 3 rate schedules for Industrial Load Management, the Commission clearly recognized the volatility of the many assumptions that comprise any cost-effectiveness analysis. Specifically, the Commission stated, "Because the RIM test is based on many assumptions, using a 1.2 to 1 benefit/cost value will allow for a margin of error to ensure cost-effectiveness." Furthermore, Tampa Electric has had minimal incremental activity associated with its Industrial Load Management program. Therefore, administrative and field costs associated with securing and initiating program participation from a new customer are unknown. The company believes the Commission's original decision to manage the program to a 1.2 to 1 benefit/cost analysis continues to be the appropriate mechanism for calculating the program's cost-effectiveness.

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 21  
PAGE 1 OF 2  
FILED: JULY 15, 2010**

21. Please provide, on an individual program basis, the Lost Revenues resulting from the projected savings for the period 2010 through 2019, by year. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

Program Name	Lost Revenues By Year									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Walk-Through Audit										
Customer Assisted Audit										
Computer-Assisted Audit										
Phone Assisted Audit										
Heating & Cooling										
Electronically Commutated Motors										
HVAC Re-commissioning										
Duct Repair										
Building Envelope										
New Construction										
Neighborhood Weatherization & Agency Outreach										
Education Outreach										
Energy Planner										
Sum of All Residential Programs										
Free Audit										
Paid Audit										
Duct Repair										
Building Envelope										
Energy Efficient Motors										
Cooling										
Chiller										
Lighting										
Lighting Occupancy Sensors										
Water Heating										
Conservation Value										
Commercial Load Management										
Demand Response										
Standby Generator										
HVAC Re-commissioning										
Electronically Commutated Motors										
Cool Roof										
Energy Recovery Ventilation										
Refrigeration (Anti-Condensate)										
Cogeneration										
Industrial Load Management										
Research and Development										
Renewable Energy Systems Initiative										
Renewable Energy Program										
Sum of All Programs										

- A. The requested information is provided in the table below and in the attached Excel spreadsheets.

35

Program Name	Lost Revenue By Year									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Walk-Through Audit	\$254,690	\$541,217	\$843,662	\$921,833	\$1,002,009	\$1,082,185	\$1,166,370	\$1,250,555	\$1,338,748	\$1,426,942
Customer Assisted Audit	\$52,231	\$105,955	\$159,679	\$171,132	\$183,187	\$196,449	\$210,915	\$226,588	\$243,466	\$261,549
Computer-Assisted Audit	\$32	\$64	\$96	\$127	\$159	\$191	\$223	\$255	\$287	\$318
Phone Assisted Audit	\$448	\$1,045	\$1,791	\$2,002	\$2,273	\$2,605	\$2,996	\$3,388	\$3,840	\$4,292
Heating & Cooling	\$110,725	\$249,131	\$415,218	\$586,841	\$752,928	\$913,479	\$1,071,262	\$1,226,277	\$1,378,523	\$1,516,929
Electronically Commutated Motors	\$8,693	\$25,173	\$48,987	\$79,763	\$117,090	\$160,350	\$203,610	\$248,930	\$296,310	\$345,750
HVAC Re-commissioning	\$8,310	\$91,412	\$210,872	\$335,525	\$470,566	\$626,382	\$792,586	\$979,566	\$1,176,933	\$1,384,689
Duct Repair	\$142,737	\$289,438	\$440,105	\$594,736	\$745,402	\$892,104	\$1,038,805	\$1,181,542	\$1,324,279	\$1,467,015
Building Envelope	\$72,961	\$160,555	\$250,897	\$345,953	\$444,941	\$550,009	\$657,223	\$768,550	\$880,056	\$990,584
New Construction	\$14,098	\$32,896	\$56,392	\$84,589	\$122,183	\$159,778	\$197,373	\$234,968	\$272,563	\$310,158
Neighborhood Weatherization & Agency Outreach	\$12,524	\$75,143	\$150,286	\$208,621	\$276,679	\$354,458	\$451,683	\$568,353	\$704,468	\$860,028
Education Outreach	\$7,462	\$67,155	\$164,156	\$206,248	\$254,354	\$302,459	\$353,572	\$401,677	\$449,783	\$497,888
Energy Planner	\$87,796	\$182,345	\$280,271	\$361,313	\$445,732	\$533,527	\$624,699	\$719,249	\$817,174	\$918,477
Sum of All Residential Programs	\$772,706	\$1,821,528	\$3,022,410	\$3,898,682	\$4,817,504	\$5,773,977	\$6,771,319	\$7,809,897	\$8,886,431	\$9,984,621
Free Audit	\$48,062	\$100,492	\$157,292	\$183,186	\$209,081	\$234,975	\$260,869	\$286,763	\$312,657	\$338,551
Paid Audit	\$44	\$87	\$131	\$175	\$218	\$262	\$306	\$350	\$393	\$437
Duct Repair	\$206,484	\$510,777	\$836,804	\$1,162,832	\$1,510,594	\$1,836,622	\$2,140,914	\$2,423,472	\$2,684,294	\$2,934,248
Building Envelope	\$4,912	\$10,636	\$22,084	\$22,084	\$28,620	\$35,967	\$43,856	\$52,556	\$61,934	\$72,123
Energy Efficient Motors	\$567	\$1,702	\$3,403	\$5,388	\$8,224	\$11,060	\$13,896	\$18,150	\$22,404	\$26,090
Cooling	\$35,526	\$71,905	\$112,549	\$153,818	\$195,714	\$239,941	\$286,500	\$333,685	\$377,233	\$412,025
Chiller	\$47,865	\$100,516	\$157,953	\$220,178	\$287,188	\$349,412	\$406,850	\$459,501	\$512,152	\$560,017
Lighting	\$223,620	\$554,202	\$886,523	\$1,259,402	\$1,589,805	\$1,920,209	\$2,293,708	\$2,649,421	\$2,967,543	\$3,289,427
Lighting Occupancy Sensors	\$10,607	\$22,982	\$35,357	\$49,500	\$61,875	\$74,249	\$85,564	\$96,171	\$106,071	\$115,971
Water Heating	\$336	\$671	\$1,007	\$1,510	\$2,013	\$2,516	\$3,187	\$3,858	\$4,697	\$5,536
Conservation Value	\$6,767	\$20,300	\$40,600	\$67,667	\$94,734	\$135,334	\$182,701	\$236,835	\$284,201	\$331,568
Commercial Load Management	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Demand Response	\$2,190	\$4,381	\$6,571	\$8,762	\$10,952	\$13,143	\$15,333	\$17,524	\$19,714	\$21,905
Standby Generator	\$2,733	\$5,465	\$10,930	\$16,395	\$24,593	\$32,790	\$40,988	\$51,918	\$60,115	\$65,581
HVAC Re-commissioning	\$5,575	\$44,604	\$89,207	\$133,811	\$183,990	\$238,629	\$294,383	\$344,562	\$389,166	\$428,194
Electronically Commutated Motors	\$13,044	\$35,871	\$68,482	\$109,746	\$159,477	\$217,360	\$283,396	\$357,585	\$435,977	\$506,530
Cool Roof	\$46,177	\$101,825	\$157,474	\$213,123	\$267,587	\$320,868	\$372,965	\$420,325	\$461,766	\$497,286
Energy Recovery Ventilation	\$1,236	\$3,709	\$7,264	\$12,056	\$17,929	\$24,729	\$32,148	\$40,031	\$47,913	\$55,641
Refrigeration (Anti-Condensate)	\$496	\$991	\$1,983	\$2,974	\$4,461	\$5,948	\$7,435	\$9,418	\$11,401	\$13,384
Cogeneration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Industrial Load Management	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Research and Development	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Renewable Energy Systems Initiative	\$68,578	\$137,156	\$205,734	\$274,313	\$342,891	\$411,469	\$480,047	\$548,625	\$617,203	\$685,781
Renewable Energy Program	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sum of All Programs	\$1,497,524	\$3,549,801	\$5,818,035	\$7,795,600	\$9,817,449	\$11,879,462	\$14,016,366	\$16,160,648	\$18,263,265	\$20,344,916

TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 21  
PAGE 2 OF 2  
FILED: JULY 15, 2010



**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 22  
PAGE 1 OF 2  
FILED: JULY 15, 2010**

22. Please provide, on an individual program basis, the estimated ECCR expenditures required for the period 2010 through 2019, by year. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

Program Name	ECCR Expenditures (\$000)									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Walk-Through Audit										
Customer Assisted Audit										
Computer-Assisted Audit										
Phone Assisted Audit										
Heating & Cooling										
Electronically Commutated Motors										
HVAC Re-commissioning										
Duct Repair										
Building Envelope										
New Construction										
Neighborhood Weatherization & Agency Outreach										
Education Outreach										
Energy Planner										
Sum of All Residential Programs										
Free Audit										
Paid Audit										
Duct Repair										
Building Envelope										
Energy Efficient Motors										
Cooling										
Chiller										
Lighting										
Lighting Occupancy Sensors										
Water Heating										
Conservation Value										
Commercial Load Management										
Demand Response										
Standby Generator										
HVAC Re-commissioning										
Electronically Commutated Motors										
Cool Roof										
Energy Recovery Ventilation										
Refrigeration (Anti-Condensate)										
Cogeneration										
Industrial Load Management										
Research and Development										
Renewable Energy Systems Initiative										
Renewable Energy Program										
<b>Sum of All Programs</b>										

- A. The requested information is provided in the table below and in the attached Excel spreadsheets.

Program Name	EOCR Expenditures (\$000)									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Walk-Through Audit	\$2,198,359	\$2,432,204	\$2,578,820	\$2,681,425	\$2,787,498	\$2,845,256	\$2,999,159	\$3,073,292	\$3,248,626	\$3,316,853
Customer Assisted Audit	\$486,206	\$499,001	\$507,576	\$520,810	\$544,553	\$573,850	\$604,259	\$635,815	\$668,556	\$702,519
Computer-Assisted Audit	\$285	\$292	\$298	\$305	\$312	\$319	\$327	\$334	\$342	\$350
Phone Assisted Audit	\$796	\$1,086	\$1,388	\$1,988	\$2,615	\$3,269	\$3,953	\$4,044	\$4,773	\$4,883
Heating & Cooling	\$632,633	\$791,945	\$951,751	\$984,973	\$954,682	\$924,325	\$909,862	\$895,381	\$880,880	\$802,184
Electronically Commutated Motors	\$61,190	\$116,184	\$168,158	\$217,685	\$264,465	\$307,029	\$307,570	\$322,796	\$338,089	\$353,450
HVAC Re-commissioning	\$34,000	\$340,920	\$491,425	\$514,236	\$558,689	\$646,531	\$691,695	\$780,529	\$826,454	\$872,710
Duct Repair	\$2,268,000	\$2,384,613	\$2,505,390	\$2,630,462	\$2,621,964	\$2,611,683	\$2,671,752	\$2,659,332	\$2,720,496	\$2,783,068
Building Envelope	\$1,161,286	\$1,332,084	\$1,362,745	\$1,407,878	\$1,439,160	\$1,464,064	\$1,460,376	\$1,470,935	\$1,452,836	\$1,391,142
New Construction	\$147,021	\$196,473	\$246,159	\$296,089	\$395,737	\$396,711	\$397,707	\$398,726	\$399,768	\$400,835
Neighborhood Weatherization & Agency Outreach	\$56,405	\$288,512	\$354,177	\$362,323	\$432,432	\$505,575	\$646,504	\$793,649	\$947,220	\$1,107,435
Education Outreach	\$19,095	\$156,273	\$259,785	\$286,203	\$334,613	\$342,309	\$372,068	\$358,236	\$366,475	\$374,904
Energy Planner	\$1,879,800	\$2,067,645	\$2,187,308	\$1,848,978	\$1,967,356	\$2,090,029	\$2,217,136	\$2,348,819	\$2,485,222	\$2,626,497
Sum of All Residential Programs	\$8,945,075	\$10,607,231	\$11,614,981	\$11,753,354	\$12,304,076	\$12,710,950	\$13,282,367	\$13,741,887	\$14,339,738	\$14,736,830
Free Audit	\$535,562	\$575,531	\$617,090	\$629,370	\$641,922	\$654,754	\$667,870	\$681,278	\$694,984	\$708,994
Paid Audit	\$806	\$825	\$844	\$863	\$883	\$903	\$924	\$945	\$967	\$989
Duct Repair	\$308,750	\$455,812	\$489,260	\$490,171	\$523,843	\$492,057	\$460,163	\$428,160	\$396,042	\$380,341
Building Envelope	\$45,916	\$54,345	\$54,373	\$54,401	\$62,843	\$71,293	\$78,885	\$87,347	\$95,382	\$103,859
Energy Efficient Motors	\$1,150	\$2,312	\$3,485	\$4,087	\$5,869	\$5,901	\$5,933	\$8,949	\$7,799	\$7,844
Cooling	\$109,150	\$110,138	\$126,433	\$128,969	\$131,511	\$139,362	\$147,281	\$149,776	\$138,577	\$110,879
Chiller	\$75,900	\$83,515	\$91,136	\$98,762	\$106,393	\$98,827	\$91,255	\$83,680	\$83,709	\$76,127
Lighting	\$178,654	\$277,706	\$280,967	\$304,300	\$287,890	\$288,286	\$325,793	\$304,851	\$268,221	\$265,717
Lighting Occupancy Sensors	\$68,645	\$80,206	\$80,330	\$91,950	\$80,585	\$80,717	\$73,922	\$69,421	\$64,906	\$65,022
Water Heating	\$1,510	\$1,513	\$1,515	\$2,277	\$2,281	\$2,285	\$3,052	\$3,058	\$3,830	\$3,837
Conservation Value	\$22,806	\$45,700	\$68,686	\$91,768	\$91,958	\$138,230	\$161,616	\$185,112	\$162,338	\$162,711
Commercial Load Management	\$21,744	\$28,757	\$35,858	\$43,048	\$50,329	\$57,704	\$65,175	\$72,743	\$80,411	\$88,182
Demand Response	\$3,408,860	\$3,458,292	\$3,508,308	\$3,558,924	\$3,610,151	\$3,662,004	\$3,714,498	\$3,767,648	\$3,821,468	\$3,875,974
Standby Generator	\$1,678,458	\$1,728,108	\$1,808,438	\$1,861,279	\$1,945,236	\$2,001,468	\$2,059,383	\$2,149,110	\$2,180,465	\$2,213,275
HVAC Re-commissioning	\$10,125	\$70,996	\$81,279	\$81,424	\$91,768	\$100,110	\$102,346	\$92,290	\$82,197	\$72,067
Electronically Commutated Motors	\$14,352	\$25,180	\$36,066	\$45,926	\$55,298	\$64,542	\$73,841	\$83,197	\$82,526	\$74,497
Cool Roof	\$236,145	\$284,644	\$284,705	\$284,767	\$278,771	\$272,773	\$266,774	\$242,580	\$212,309	\$182,025
Energy Recovery Ventilation	\$13,400	\$26,820	\$38,584	\$52,045	\$63,849	\$73,991	\$80,786	\$85,909	\$85,985	\$84,375
Refrigeration (Anti-Condensate)	\$1,594	\$1,596	\$3,195	\$3,199	\$4,803	\$4,809	\$4,815	\$6,428	\$6,436	\$6,444
Cogeneration	\$112,026	\$118,848	\$122,414	\$126,086	\$129,869	\$133,765	\$137,778	\$141,911	\$146,169	\$150,554
Industrial Load Management	\$19,474,224	\$19,474,224	\$19,474,224	\$19,474,224	\$19,474,224	\$19,474,224	\$19,474,224	\$19,474,224	\$19,474,224	\$19,474,224
Research and Development	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
Renewable Energy Systems Initiative	\$1,531,018	\$1,531,018	\$1,531,018	\$1,531,018	\$1,531,018	\$0	\$0	\$0	\$0	\$0
Renewable Energy Program	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Sum of All Programs</b>	<b>\$36,995,870</b>	<b>\$39,243,318</b>	<b>\$40,553,189</b>	<b>\$40,912,211</b>	<b>\$41,675,372</b>	<b>\$40,728,954</b>	<b>\$41,478,682</b>	<b>\$42,060,503</b>	<b>\$42,628,683</b>	<b>\$43,044,766</b>

**TAMPA ELECTRIC COMPANY  
DOCKET NO. 100159-EI  
STAFF'S SECOND DATA REQUEST  
REQUEST NO. 23  
PAGE 1 OF 2  
FILED: JULY 15, 2010**

23. Please provide, on an individual program basis, the estimated residential rate impact required for the period 2010 through 2019, by year. Please provide an electronic copy in Excel (.xls file format) with the hard copy response.

Program Name	Residential Rate Impact (\$/mo)									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Walk-Through Audit										
Customer Assisted Audit										
Computer-Assisted Audit										
Phone Assisted Audit										
Heating & Cooling										
Electronically Commutated Motors										
HVAC Re-commissioning										
Duct Repair										
Building Envelope										
New Construction										
Neighborhood Weatherization & Agency Outreach										
Education Outreach										
Energy Planner										
Sum of All Residential Programs										
Free Audit										
Paid Audit										
Duct Repair										
Building Envelope										
Energy Efficient Motors										
Cooling										
Chiller										
Lighting										
Lighting Occupancy Sensors										
Water Heating										
Conservation Value										
Commercial Load Management										
Demand Response										
Standby Generator										
HVAC Re-commissioning										
Electronically Commutated Motors										
Cool Roof										
Energy Recovery Ventilation										
Refrigeration (Anti-Condensate)										
Cogeneration										
Industrial Load Management										
Research and Development										
Renewable Energy Systems Initiative										
Renewable Energy Program										
Sum of All Programs										

- A. The requested information is provided in the table below and in the attached Excel spreadsheets.

Program Name	Residential Rate Impact (\$/mo)									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Walk-Through Audit	\$0.20	\$0.22	\$0.23	\$0.24	\$0.25	\$0.25	\$0.26	\$0.27	\$0.28	\$0.28
Customer Assisted Audit	\$0.04	\$0.04	\$0.05	\$0.05	\$0.05	\$0.05	\$0.05	\$0.06	\$0.06	\$0.06
Computer-Assisted Audit	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Phone Assisted Audit	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Heating & Cooling	\$0.06	\$0.07	\$0.08	\$0.09	\$0.08	\$0.08	\$0.08	\$0.08	\$0.08	\$0.07
Electronically Commutated Motors	\$0.01	\$0.01	\$0.01	\$0.02	\$0.02	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03
HVAC Re-commissioning	\$0.00	\$0.03	\$0.04	\$0.05	\$0.05	\$0.06	\$0.06	\$0.07	\$0.07	\$0.07
Duct Repair	\$0.21	\$0.21	\$0.22	\$0.23	\$0.23	\$0.23	\$0.24	\$0.23	\$0.23	\$0.24
Building Envelope	\$0.11	\$0.12	\$0.12	\$0.12	\$0.13	\$0.13	\$0.13	\$0.13	\$0.12	\$0.12
New Construction	\$0.01	\$0.02	\$0.02	\$0.03	\$0.03	\$0.04	\$0.03	\$0.03	\$0.03	\$0.03
Neighborhood Weatherization & Agency Outreach	\$0.01	\$0.03	\$0.03	\$0.03	\$0.04	\$0.04	\$0.06	\$0.07	\$0.08	\$0.09
Education Outreach	\$0.00	\$0.01	\$0.02	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03
Energy Planner	\$0.17	\$0.19	\$0.19	\$0.16	\$0.17	\$0.19	\$0.20	\$0.20	\$0.21	\$0.22
Sum of All Residential Programs	\$0.82	\$0.95	\$1.03	\$1.04	\$1.08	\$1.13	\$1.17	\$1.20	\$1.23	\$1.25
Free Audit	\$0.05	\$0.05	\$0.05	\$0.06	\$0.06	\$0.06	\$0.06	\$0.06	\$0.06	\$0.06
Paid Audit	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Duct Repair	\$0.03	\$0.04	\$0.04	\$0.04	\$0.05	\$0.04	\$0.04	\$0.04	\$0.03	\$0.03
Building Envelope	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
Energy Efficient Motors	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Cooling	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
Chiller	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
Lighting	\$0.02	\$0.02	\$0.02	\$0.03	\$0.03	\$0.03	\$0.03	\$0.03	\$0.02	\$0.02
Lighting Occupancy Sensors	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
Water Heating	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Conservation Value	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.02	\$0.01	\$0.01
Commercial Load Management	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
Demand Response	\$0.31	\$0.31	\$0.31	\$0.31	\$0.32	\$0.32	\$0.33	\$0.33	\$0.33	\$0.33
Standby Generator	\$0.15	\$0.16	\$0.16	\$0.16	\$0.17	\$0.18	\$0.18	\$0.19	\$0.19	\$0.19
HVAC Re-commissioning	\$0.00	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
Electronically Commutated Motors	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
Cool Roof	\$0.02	\$0.03	\$0.03	\$0.03	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02
Energy Recovery Ventilation	\$0.00	\$0.00	\$0.00	\$0.00	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
Refrigeration (Anti-Condensate)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Cogeneration	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
Industrial Load Management	\$1.78	\$1.75	\$1.73	\$1.72	\$1.71	\$1.73	\$1.71	\$1.69	\$1.67	\$1.65
Research and Development	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02	\$0.02
Renewable Energy Systems Initiative	\$0.14	\$0.14	\$0.14	\$0.14	\$0.13	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Renewable Energy Program	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Sum of All Programs</b>	<b>\$3.38</b>	<b>\$3.53</b>	<b>\$3.60</b>	<b>\$3.62</b>	<b>\$3.67</b>	<b>\$3.61</b>	<b>\$3.65</b>	<b>\$3.66</b>	<b>\$3.66</b>	<b>\$3.65</b>