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December 18, 2009

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

Re: Load Research Sampling Plan- Tampa Electric Company

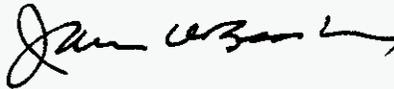
Dear Ms. Cole:

On August 8, 2008 Tampa Electric Company filed its Load Research Sampling Plan in compliance with Rule 25-6.0437. Enclosed for filing are five copies of Tampa Electric Company's Revised Load Research Sampling Plan dated December 2009 to update the Plan filed on August 8, 2008.

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  
Enclosure

COM \_\_\_\_\_  
APA \_\_\_\_\_  
ECR \_\_\_\_\_  
GCL \_\_\_\_\_  
RAD \_\_\_\_\_  
SSC \_\_\_\_\_  
ADM \_\_\_\_\_  
OPC \_\_\_\_\_  
CLK \_\_\_\_\_

cc: Paula K. Brown (w/o enc.)

DOCUMENT NUMBER-DATE

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## **LOAD RESEARCH SAMPLING PLAN**

**FILED: August 1, 2008**  
**REVISED: December 2009**

DOCUMENT NUMBER-DATE

12075 DEC 18 8

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## INTRODUCTION

On April 30, 2009, the Florida Public Service Commission (Commission) issued Order No. PSC-09-0283-FOF-EI in Docket No. 080317-EI granting in part and denying in part Tampa Electric Company's petition for a base rate increase. In addition to the approved base rates, new rate schedules requested by the company were approved by the Commission. As a result of the approved rate schedules, an amended sampling plan is necessary for the 2010 data collection year. The proposed changes are summarized below:

- The addition of new stratum in the General Service Non-Demand class for customers metered or served at primary voltage levels.
- Elimination of the General Service Large Demand class; those customers were moved to the General Service Demand class, thereby adding customers in each stratum.
- The addition of the approved Lighting Services rate class to the sampling plan.

The proposed sample design for 2010 is provided below.

## PROPOSED SAMPLING PLAN FOR 2010 LOAD RESEARCH STUDY

The Residential Service (RS) class sample did not require any changes. Proposed sample allocations for this class remain the same and are shown in the table below.

### PROPOSED RS SAMPLE

<b>Stratum</b>	<b>2010 Sample Size</b>
Single Family Detached	175
Multi-family	50
Mobile Home	50
<b>Total</b>	<b>275</b>

The General Service Non-Demand (GS) class was revised to include additional stratum for customers metered or served at primary voltage levels. Per the approved rate schedule, customer charges vary by voltage level. To perform cost of service analysis by voltage levels, the sampling plan required new stratum to capture primary voltage levels. Proposed sample allocations for this class are shown in the table below and reflect totals in the 100 percent sampled strata as of October 2009.

### PROPOSED GS SAMPLE

Stratum	2010 Sample Size
Secondary: 0 – 14,999 kWh	257
Secondary: 15,000 – infinity kWh	243
Secondary Metered/Primary Served	0 <sup>(1)</sup>
Primary Metered/Secondary Served	2 <sup>(1)</sup>
Primary Metered/Primary Served	9 <sup>(1)</sup>
Primary Metered/Subtransmission Served	0 <sup>(1)</sup>
<b>Total</b>	<b>511</b>

1. 100 percent sampled stratum; therefore, size will vary depending upon the number of customers meeting the criteria.

The General Service Large Demand (GSLD) class was eliminated and customers were moved to the General Service Demand (GSD) class. As a result, the GSD sample has increased and new stratum were added. The proposed GSD sample allocations are shown below and reflect totals in the 100 percent sampled strata as of October 2009.

**PROPOSED GSD SAMPLE**

<b>Stratum</b>	<b>2010 Sample Size</b>
Secondary 0 – 199 kW	70
Secondary 200 – 499 kW	70
Secondary over 499 kW (100%)	662 <sup>(1)</sup>
Secondary Metered/Primary Served (100%)	3 <sup>(1)</sup>
Primary Metered/Secondary Served (100%)	39 <sup>(1)</sup>
Primary Metered/Primary Served (100%)	93 <sup>(1)</sup>
Primary Metered/Subtransmission Served (100%)	1 <sup>(1)</sup>
Subtransmission Metered/Primary Served (100%)	0 <sup>(1)</sup>
Subtransmission Metered/Subtrans.Served (100%)	5 <sup>(1)</sup>
<b>Total</b>	<b>943</b>

1. 100 percent sampled stratum; therefore, size will vary depending upon the number of customers meeting the criteria.

A sample for the Interruptible Service (IS) class is not necessary because recorders are installed on all of these meters for billing purposes. The data collected by the recorders is also used for load research purposes. Under this plan, the collection of load data for the IS class will continue in this manner.

**PROPOSED LIGHTING SAMPLE**

The approved rate design included the combination of multiple lighting rate classes into a single Lighting Service (LS) rate class. As a result, the annual retail sales for the LS rate class now exceeds one percent of Tampa Electric's total annual retail sales. Therefore, the LS rate class has been added to the proposed 2010 sampling plan as required per Rule 25-6.0437(3) F.A.C., Cost of Service Load Research.

The lighting sample consists of four circuits of 84 total lights with varying types of fixtures and wattage.

**SAMPLE SELECTION**

Once sample sizes, stratum definitions, and sample allocations are determined, sample selection begins. Random numbers are assigned to each customer in the class; then, the list of customers is sorted in ascending order by the assigned random number. The first group of customers on the list is the prime sample, while the following group is used, if necessary, as a source of replacement customers. The replacement list is maintained in random order and used in order, as needed. For customers selected, the standard billing watt-hour meter is replaced with a pulse-initiating meter. In addition, a recording device is installed to collect and retain pulse information in 15 minute intervals. The recorded information is collected and processed on a monthly basis.

**SAMPLE REMOVALS AND REPLACEMENTS**

Tampa Electric proposes to allow a specific number of removals per class that will not require replacements. Therefore, the RS class will be allowed five removals per stratum, before installation of replacements begins. The GS class and the GSD class will be allowed 10 and five removals per stratum, respectively. There is no expectation that accuracy levels will be impacted by this change. Sample sizes are well above the computed sample size levels for meeting accuracy requirements.