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July 31, 2026

VIA: ELECTRONIC FILING

Mr. Adam J. Teitzman
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Load Research Report - Tampa Electric Company

Dear Mr. Teitzman:

In compliance with Rule 25-6.0437, attached is Tampa Electric Company's Load Research Report.

Thank you for your assistance in connection with this matter.

Sincerely,

A handwritten signature in blue ink that reads 'Malcolm N. Means'.

Malcolm N. Means

MNM/bml
Attachment

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



**TAMPA ELECTRIC COMPANY
LOAD RESEARCH
SAMPLING PLAN**

FILED: July 31, 2026

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LOAD RESEARCH SAMPLING PLAN

In accordance with the Cost-of-Service Load Research Rule, Florida Administrative Code 25-6.0437, Tampa Electric Company presents its Load Research Sampling Plan for study year 2028.

APPLICABLE RATE CLASSES

The table below shows Tampa Electric Company's retail rate classes and each rate class's annual MWH sales. The third column provides each rate class's percent of total annual sales and demonstrates the company's compliance with Rule 25-6.0437, which requires utilities to sample all rate classes that account for more than one percent of annual sales. The annual sales reported are for the twelve-month period ending December 31, 2025.

PERCENTAGE OF ANNUAL MWH SALES BY RATE

Rate Classes	2025 Annual Retail Sales (MWH)	Percent of Total Retail Sales
Residential (RS, RSVP)	10,283,615	49.19%
General Service Non-Demand (GSD, GST, CS)	943,810	4.51%
General Service Demand (GSD, GSDD, GSDDO, SBD, SBDT)	7,188,299	34.38%
General Service Large Demand (GSLD, GSDDT, SBLD, SBLDT)	2,381,694	11.39%
Lighting Service (LS)	109,862	0.53%
Total	20,907,280	100.0%

EXISTING SAMPLE METHODOLOGY

During 2025, Tampa Electric monitored each rate class listed in the table above as part of its load research program. Tampa Electric randomly selected and installed samples for the Residential and General Service Demand classes in late 2023 and collected data during 2024 and 2025. Tampa Electric randomly selected and installed samples for the General Service Non-Demand rate class in late 2024 and collected data during 2025. The General Service Large Demand class does not require a sample because Tampa Electric installs recorders on all these meters for billing purposes and uses the recorded data for load research. Tampa Electric collected data on sampled Lighting Service rate class circuits selected based on their ability to be metered. Tampa Electric did not include the Lighting Service rate results in the latest Load Research Report filed on April 1, 2026, because they fell below the one percent annual sales threshold described in the rule.

On an ongoing basis, Tampa Electric will select and install random samples for one or two rate classes every year and collect data from the samples for twenty-four months. Once Tampa Electric fully installs the new sample and begins data collection, it will retire the previously selected sample for the class or classes.

EXISTING SAMPLE DESIGN

Tampa Electric pre-stratified the Residential Service (RS) class sample by three housing-type categories: single family detached, multi-family, and mobile home. Stratification is needed because the three housing types have dissimilar load patterns, and the percentage of mobile homes in the population changes with the seasons. Because the sample is stratified by housing type and inter-strata migration is insignificant, Tampa Electric varies the stratum weights on a month-by-month basis when estimating class demands. Thus, the estimated demands reflect seasonal changes in the housing-type mix.

Tampa Electric allocated the sample points to the strata using Neyman allocation* with stratum means and variances estimated from previous sample results. Tampa Electric used a minimum sample size of 50 in the multi-family and mobile home categories to ensure greater accuracy for those sub-populations. The table below shows the resulting allocation.

RS SAMPLE

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

RS SAMPLE

Stratum	Sample Size
Single Family Detached	175
Multi-Family	50
Mobile Home	50
Total	275

**Note: Neyman allocation spreads the sample across groups based on both group size and variability. It gives more sample size to larger and more variable groups, which improves overall accuracy.*

GS SAMPLE

For the General Service Non-Demand (GS) sample, Tampa Electric used annual kilowatt-hour (kWh) consumption at the time of sample selection as the stratification variable. Tampa Electric set the stratum boundary at 15,000 kWh of annual usage and allocated the sample points to the strata using Neyman allocation with stratum variances estimated from previous sample results. The sample also includes additional strata for customers metered or served at primary voltage levels to perform cost-of-service analysis. The 100 percent sampled strata sizes are as of December 2025. The table below shows the allocation.

GS SAMPLE

Stratum	Sample Size
Secondary: 0-14,999 kWh	257
Secondary: 15,000 – infinity kWh	243
Secondary Metered/Primary Served	0 ⁽¹⁾
Primary Metered/Secondary Served	3 ⁽¹⁾
Primary Metered/Primary Served	14 ⁽¹⁾
Primary Metered/Subtransmission Served	0 ⁽¹⁾
Total	517

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

GSD SAMPLE

For the General Service Demand sample, Tampa Electric used the highest billed demand in the twelve months prior to sample selection as the stratification variable. For cost-of-service analysis, Tampa Electric separates class demands by voltage level. For secondary voltage customers, Tampa Electric set the stratum boundaries at 200 kW and 500 kW. Tampa Electric included all secondary metered / secondary served customers over 500 kW in a 100 percent sampled stratum.

If any primary served or sub transmission served customers exceed 1,000 kW, they will move to the GSLD class. For any customers that subsequently exceed the 500-kW threshold, Tampa Electric began to collect their interval data and included them in the sample. Tampa Electric allocated the sample points in the two sampled strata using Neyman allocation. The allocation below reflects totals in the 100 percent sampled strata as of December 2025.

GSD SAMPLE

Stratum	Sample Size
Secondary 0 – 199 kW	70
Secondary 200 – 499 kW	70
Secondary over 499 kW (100%)	629 ⁽¹⁾
Secondary Metered/Primary Served (100%)	0 ⁽¹⁾
Primary Metered/Secondary Served (100%)	43 ⁽¹⁾
Primary Metered/Primary Served (100%)	65 ⁽¹⁾
Primary Metered/Subtransmission Served (100%)	1 ⁽¹⁾
Subtransmission Metered/Primary Served (100%)	1 ⁽¹⁾
Subtransmission Metered/Subtransmission Served (100%)	2 ⁽¹⁾
Total	881

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

GSLD 100% SAMPLE

Tampa Electric installs recording meters on each GSLD customer. For cost-of-service analysis, Tampa Electric stratifies customers by served voltage level, either primary or sub transmission. When GSD class customers served at primary or sub transmission voltage exceed the 1,000-kW threshold, Tampa Electric moves them to the GSLD class. If customers migrate in and out of the GSLD rate, Tampa Electric changes the population accordingly. Population size was 72 as of December 2025.

EXISTING SAMPLE ACCURACY

Tampa Electric calculated the 2025 accuracy achieved for the three randomly sampled classes for each month's coincident peak, the aggregate of the 12 monthly coincident peaks, and the summer and winter non-coincident (rate class) peaks. Tampa Electric calculated the accuracy for each class in the conventional manner for combined ratio analysis.

The 2025 accuracy achieved for each rate class's aggregated 12 coincident peaks was within the required accuracy threshold of ± 10 percent at the 90 percent confidence limit. The table below shows the results.

2025 COINCIDENT PEAK PERCENTAGE ACCURACIES AT 90 PERCENT CONFIDENCE LEVEL USING COMBINED RATIO ESTIMATION

Month	RS	GS	GSD
January	8.17	7.65	5.42
February	6.55	5.57	6.89
March	5.55	5.46	3.63
April	4.71	4.93	3.45
May	4.65	5.28	2.81
June	3.83	4.04	4.04
July	3.90	4.20	3.76
August	3.25	4.06	2.97
September	3.99	4.12	2.92
October	3.93	4.59	2.54
November	5.77	5.99	4.83
December	9.74	8.76	6.18
12 Coincident Peaks Accuracy	5.14	5.16	4.01

The 2025 winter and summer non-coincident (rate class) peak accuracy achieved for the RS and GSD samples was within the required accuracy threshold of ± 10 percent at the 90 percent confidence limit. The accuracy achieved for the GS sample was also within the required accuracy threshold of ± 15 percent at the 90 percent confidence limit for the winter and summer peaks. The table below shows the results.

**2025 NON-COINCIDENT (RATE CLASS) PEAK PERCENTAGE ACCURACIES
AT 90 PERCENT CONFIDENCE LEVEL USING COMBINED RATIO ESTIMATION**

Month	RS	GS	GSD
Winter Peak	8.03	7.65	4.74
Summer Peak	4.06	4.16	4.06

PROPOSED SAMPLING PLAN FOR 2028 LOAD RESEARCH STUDY

Tampa Electric Company presents its Load Research Sampling Plan for study year 2028.

RS SAMPLE

The Residential Service (RS) class sample met the required levels of accuracy for 2025; therefore, this sample design requires no changes. Proposed sample allocations for this class remain the same, and the table below shows them.

PROPOSED RS SAMPLE

Stratum	Sample Size
Single Family Detached	175
Multi Family	50
Mobile Home	50
Total	275

GS SAMPLE

The General Service Non-Demand (GS) class sample also met the required levels of accuracy for the 2025 winter non-coincident peak, summer non-coincident peak, and 12 coincident peaks; therefore, the sample design requires no changes. The table below shows the proposed sample allocations for this class.

PROPOSED GS SAMPLE

Stratum	Sample Size
Secondary: 0-14,999 kWh	257
Secondary: 15,000 – infinity kWh	243
Secondary Metered/Primary Served	0 ⁽¹⁾
Primary Metered/Secondary Served	3 ⁽¹⁾
Primary Metered/Primary Served	14 ⁽¹⁾
Primary Metered/Subtransmission Served	0 ⁽¹⁾
Total	517

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

GSD SAMPLE

The General Service Demand (GSD) class sample also met the required accuracy levels for the 2025 winter non-coincident peak, summer non-coincident peak, and 12 coincident peaks; therefore, the sample design requires no changes. The table below shows the proposed GSD sample allocation, and the totals for the 100 percent sampled strata are as of December 2025.

PROPOSED GSD SAMPLE

Stratum	Sample Size
Secondary 0 – 199 kW	70
Secondary 200 – 499 kW	70
Secondary over 499 kW (100%)	629 ⁽¹⁾
Secondary Metered/Primary Served (100%)	0 ⁽¹⁾
Primary Metered/Secondary Served (100%)	43 ⁽¹⁾
Primary Metered/Primary Served (100%)	65 ⁽¹⁾
Primary Metered/Subtransmission Served (100%)	1 ⁽¹⁾
Subtransmission Metered/Primary Served (100%)	1 ⁽¹⁾
Subtransmission Metered/Subtransmission Served (100%)	2 ⁽¹⁾
Total	881

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

PROPOSED GSLD 100% SAMPLE

Tampa Electric installs recording meters on each GSLD customer. For cost-of-service analysis, Tampa Electric stratifies customers by served voltage level, either primary or sub transmission. If customers migrate in and out of the GSLD rate, Tampa Electric changes the analysis population accordingly. The population size was 72 as of December 2025.

LIGHTING SERVICE

The Lighting Service rate class fell below one percent of total sales, so Tampa Electric did not include it in the 2025 Load Research Report Study Results filed on April 1, 2026. As indicated on page one, Lighting Service continues to be below one percent of total sales; therefore, Tampa Electric will not include it in this sampling plan or report it in the 2028 Load Research Report.

SAMPLE SELECTION

Once Tampa Electric determines sample sizes, stratum definitions, and sample allocations, sample selection begins. Tampa Electric assigns random numbers to each customer in the class and then sorts the customer list in ascending order by the assigned random number. The first group of customers on the list is the prime sample, and the following group is the back-up sample. Customers in the back-up sample may be moved to the prime sample when replacements are needed. Tampa Electric maintains the back-up sample list in random order and uses it in order, as needed.

For customers with an AMI meter (smart meter) at their location, Tampa Electric transfers the AMI's 15-minute watt hour energy to the Load Research System. If a customer is on the Opt-out plan, meaning they have chosen not to have an AMI Meter, Tampa Electric excludes the customer from the Load Research study and uses a customer from the back-up sample list. Some customers still have non-AMI recording meters that collect 15-minute watt hour energy intervals. In these situations, Tampa Electric includes those customers in the Load Research study and collects and processes their data monthly. Tampa Electric will continue to use both meter types in its sampling plan.

SAMPLE REMOVALS AND REPLACEMENTS

Tampa Electric proposes to allow a specific number of removals per class that will not require replacements. Therefore, Tampa Electric will allow five removals per stratum for the RS class before installing replacements. Tampa Electric will allow fifteen removals per stratum for the GS class and five removals per stratum for the GSD class. Tampa Electric does not expect this change to affect accuracy levels because sample sizes are well above the computed sample size levels needed to meet accuracy requirements.

Tampa Electric plans to file the next Load Research Report in April 2029.