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Florida Power & Light Company
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May 2, 2018

Via Electronic Filing Clerk
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, FL 32399-0850

RE: FPL 2018 Load Research Sampling Plan Filing

Dear Ms. Stauffer:

In compliance with FPSC Rule 25-6.0437, enclosed is FPL's 2018 Load Research Sampling Plan for informational purposes of a sample deployment for the year 2018.

If you have any questions or require additional information about this filing, please call Tara Bachkosky at (561) 691-2391 or me at (561) 694-4184.

Sincerely,

/s/ *Tiffany Cohen*
Tiffany Cohen
Director, Rates and Tariffs

CC: Patti Daniel, Chief, Division of Economics (via electronic mail)

Florida Power & Light Company

700 Universe Boulevard, Juno Beach, FL 33408

TABLE 1

PROPOSED GS(T) SAMPLE DESIGN

Rate Classes : GS-1 & GST-1 (Rate Codes 68 & 69)
Installation Year :   2018
Sample Design : One Dimensional Stratified Random Sample - Combined Ratio Estimation,
                 Dalenius-Hodges Procedure, Neyman Allocation, With Finite Population Correction
Design Precision(P) :   15%
Design Confidence :   90% (1.645   )
Stratification Variable : Annual Monthly Mean Energy (KWH)

[1]	[2]	[3]	[4]	[4]x[5]	[3]x[4]	[4]x([3]^2)	[6]	[7]
							Neyman Alloc. of n with losses	Proposed Sample
Strata	Sample Size	SDRh	Wh	Nh	Wh(SDRh)	Wh(SDRh)^2	(nh)	
1	102	1.228	0.51064	211,708	0.627	0.770	211.911	212
2	128	1.612	0.26849	111,313	0.433	0.698	146.261	147
3	84	2.700	0.16869	69,937	0.455	1.230	153.917	154
4	29	3.283	0.05219	21,638	0.171	0.563	57.903	58
Sum(Σ)	343		1.00000	414,595	1.687	3.260	569.992	571
Combined		2.015		[5]				

CALCULATIONS		DEFINITIONS:

CALCULATIONS

YBAR =   1.4142

$n = (\Sigma Wh*SDRh)^2/((P*YBAR/Z)^2+(\Sigma Wh(SDRh)^2/\Sigma Nh))$

   =   170.998

n(with losses) = n   /   0.3   =   569.992

NOTES:

A) The most current load research data available was obtained from
 LodeStar (FPL's Load Research System) for the period January 2015
 to December 2017.

B) The above calculations were performed for every month of 2015, 2016 and 2017.
February 2015 load research data produced the largest sample size
requirement and was therefore selected.

C) The strata break points and weights were defined on the basis
of average monthly energy consumption (KWH) for 2017.

DEFINITIONS:

[1] Strata Break Points (KWH)
Strata 1 = 0 - 790
Strata 2 = 791 - 1,900
Strata 3 = 1,901 - 4,100
Strata 4 = 4,101 & Above

[2] Number of valid sample points in LodeStar
for the month of February 2015
(Refer to Note B)

[3] Standard deviation for the month of February 2015
coincident peak, per LodeStar
(Refer to Note B)

[4] Percent of customers per strata for the summer and
 winter peak months from FPL's Customer Information
System
(Refer to Note C)

[5] Total number of customers for the month of
February 2015 from FPL's Customer Information System
(Refer to Note B)

[6] nh = Wh(SDRh)/ΣWh(SDRh)

[7] Based on Neyman Allocation of n with losses.
Minimum strata size = 30, via central limit
theorem