

State of Florida



Public Service Commission

CAPITAL CIRCLE OFFICE CENTER • 2540 SHUMARD OAK BOULEVARD
TALLAHASSEE, FLORIDA 32399-0850

-M-E-M-O-R-A-N-D-U-M-

DATE: September 11, 2018
TO: Carlotta S. Stauffer, Commission Clerk, Office of Commission Clerk
FROM: Takira Thompson, Engineering Specialist, Division of Engineering *TT*
RE: Docket No. 20180000-OT - Undocketed filings for 2018.

Please file the attached, "Lakeland Electric – TYSP Staff's Supplemental Data Request #4," in the above mentioned docket file.

Thank you.

TTT/pz

Attachment

COMMISSIONERS:
ART GRAHAM, CHAIRMAN
JULIE I. BROWN
DONALD J. POLMANN
GARY F. CLARK
ANDREW GILES FAY

STATE OF FLORIDA



DIVISION OF ENGINEERING
TOM BALLINGER
DIRECTOR
(850)413-6910

Public Service Commission

September 11, 2018

Shankar Karki
Lakeland Electric
Shankar.Karki@lakelandelectric.com

VIA EMAIL

Dear Shankar Karki:

Re: Review of the 2018 Ten-Year Site Plans for Florida's Electric Utilities Supplemental Data Request #4

Please electronically file all responses to the attached Staff's Supplemental Data Request #4, no later than Tuesday, October 2, 2018, via the Commission's website at www.floridapsc.com by selecting the Clerk's Office tab and Electronic Filing Web Form. Please reference 20180000-OT (Undocketed filings for 2018). In addition, please email responses to Takira Thompson at tthomps@psc.state.fl.us.

If you have any questions, please contact Takira Thompson by phone at (850) 413-6592 or at the email address provided above, or contact Phillip Ellis by phone at (850) 413-6626 or by email at pellis@psc.state.fl.us.

Sincerely,

A handwritten signature in blue ink that reads "Takira Thompson".

Takira Thompson
Engineering Specialist
Division of Engineering

TTT:pz

Enclosure

cc: Office of Commission Clerk (20180000-OT – Undocketed filings for 2018)

1. With respect to the forecasting methodology, procedures, and models developed associated with Winter and Summer Peak Demand, please specify all the differences/modifications/ improvements, if any, between what used in Lakeland’s 2017 and 2018 Ten-Year Site Plans (TYSP).
2. For its 2018 TYSP, please identify and explain the measures and/or criteria, if any, Lakeland used to ensure the models of peak demand adequately explain historical variations and to enhance its forecasting accuracy.
3. Please identify and explain the new measures, if any, Lakeland used to address the uncertainty inherent in the process of peak demand forecasting for its 2018 TYSP.
4. Please provide the Historical Forecast Accuracy associated with Lakeland’s Winter Peak Demand for the period 2012/13 through 2016/17 and Summer Peak Demand for the period 2013 through 2017.

Table 1. Accuracy of Lakeland’s Winter Peak Demand Forecasts

Forecast Actual	Winter Peak Demand Forecast Error Rate (%)					Average
	Forecasting Period Prior					
	5	4	3	2	1	
	2008 TYSP	2009 TYSP	2010 TYSP	2011 TYSP	2012 TYSP	–
2012/13						
	2009 TYSP	2010 TYSP	2011 TYSP	2012 TYSP	2013TYSP	–
2013/14						
	2010 TYSP	2011 TYSP	2012 TYSP	2013TYSP	2014 TYSP	–
2014/15						
	2011 TYSP	2012 TYSP	2013 TYSP	2014 TYSP	2015 TYSP	–
2015/16						
	2012 TYSP	2013 TYSP	2014 TYSP	2015 TYSP	2016 TYSP	–
2016/17						

Table 2. Accuracy of Lakeland’s Summer Peak Demand Forecasts

Forecast Actual	Summer Peak Demand Forecast Error Rate (%)					Average
	Forecasting Period Prior					
	5	4	3	2	1	
	2008 TYSP	2009 TYSP	2010 TYSP	2011 TYSP	2012 TYSP	–
2013						
	2009 TYSP	2010 TYSP	2011 TYSP	2012 TYSP	2013TYSP	–
2014						
	2010 TYSP	2011 TYSP	2012 TYSP	2013TYSP	2014 TYSP	–
2015						
	2011 TYSP	2012 TYSP	2013 TYSP	2014 TYSP	2015 TYSP	–
2016						
	2012 TYSP	2013 TYSP	2014 TYSP	2015 TYSP	2016 TYSP	–
2017						