DUKE ENERGY® FLORIDA

Stephanie A. Cuello
SENIOR COUNSEL

September 14, 2022

VIA ELECTRONIC FILING

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

Re: *2022 Ten-Year Site Plan Data Request #5; Undocketed*

Dear Mr. Teitzman:

Please find enclosed for filing, Duke Energy Florida, LLC's Response to Staff's Data Request #5, issued on August 24, 2022 regarding the 2022 TYSP.

Thank you for your assistance in this matter and if you have any questions, please feel free to contact me at (850) 521-1425.

Sincerely,

s/ Stephanie A. Cuello

Stephanie A. Cuello

SAC/vr
Attachments

cc: Donald Phillips, Division of Engineering, FPSC

DEF's Response to Staff's Fifth Data Request
Regarding the 2022 Ten Year Site Plan

1. Please refer to DEF's Ten-Year Site Plan, Schedule 3.1 Summer Peak Demand, and Schedule 3.2 Winter Peak Demand. Please explain why DEF's Winter Peak Demand Forecast reflects a relatively large increase when compared to the Summer Peak Demand forecast.

Response:

The observed pattern is driven mostly by the Retail Demand Forecast. The projections of retail peak are the results of a monthly model driven by the summation of class base heating and cooling energy interpolated 30 year-normal weather pattern-driven load profile.

The large change in DEF's Winter Peak Demand Forecast compared to the actual values for the last few years reflects the high year to year variability of the winter load associated with weather variability. Although Florida's Winter weather has been mild in most of the last 10 years including the last 3 years, the 30-year data (1991-2020) includes intermittent cold weather which influences the projection to prepare for years of potentially colder weather. Florida's Summer weather is much more consistent than the Winter weather. This results in relatively greater consistency between the recent actual loads and the forecast. These trends can be seen in the figure below.