Date Filed: October 26, 2026

Witness: David L. Gladey, Lavelle Freeman, John P. Dipaola-Tromba, Jennifer A. Schilling and Elli Ntakou
Request from: Department of Energy and Environmental Protection

Question:

(Load/DER Forecast) Refer to Exhibit CLP-TSP-1, Exhibit CLP-TSP-1. Please provide all assumptions the Company relied on for its TSP capacity planning, including historical and forecasted substation and circuit peak loads, specific large customer changes, planned circuit changes and estimated growth and retirement of distributed energy resources and energy efficiency.

Response:

The Company utilizes its bulk-substation peak load forecasts for distribution planning purposes. Please refer to the Company's response to OCC-591[i] for details on assumptions around forecasted loads, customer growth, large customer loads, energy efficiency and more.

Prior Referenced Response:

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[i] OCC-591 Question:

Refer to Exhibit CLP-TSP-1 at 49.

a. Provide all load forecast models supporting each proposed line and substation capacity project.
b. Provide all assumptions for EV, heat pump, solar, storage, C&I load growth, data centers, step loads, and economic development load.
c. Identify any capacity projects that could be deferred by NWA, DERMS, AMI-enabled load management, or targeted demand response.
d. For each proposed capacity project, quantify the forecast overload in MVA, MW, amperes and the number of violating hours in each year.
e. For every project passing or nearly failing NWA screening, provide the full benefit-cost analysis, all sensitivities, evaluation workpapers and comparison of the NWA with load transfer, staged construction and the traditional solution. Quantify the present value of deferral for one, three, five and ten years.

OCC-591 Response:

a. Please refer to OCC-591, Attachment 1 CONFIDENTIAL, for a 10-year forecast for each identified substation capacity project. Long-term load forecasts are not generated at the individual feeder level. Line capacity projects are based on actual metered data versus a forecast. Feeder level forecasts become inherently less accurate as stochastic customer behavior of just a few customers can swing forecast results wildly and cause large errors, as compared to large groups where such effects average out. In addition, unlike substation

investments, feeder upgrades can be done on a short turnaround time, allowing the Company to respond to actual loading on the system rather than forecasts.

b. The individual substation forecasts are located within each worksheet in OCC-591, Attachment 1 CONFIDENTIAL, and are broken into the individual categories the Company tracks.

For details on known, firm distribution connected data centers in the Company's forecast, this would be factored into the Step Loads category. Please refer to the Company's response to information request OCC-465 for details on how the Company accounts for Step Loads.

C & I load growth and economic development load is aggregated into the Trend category unless they are individual requests for interconnection that are considered step loads.

Please refer to the Company's response to CLF-SC-022 request on how the Company accounts for EV, heat pumps, and solar.

c. The substation capacity projects identified in the workbooks are in various stages of the project-approval process. None of the projects have reached a stage that would have received a detailed NWA analysis to date. As these projects proceed through the solution selection and engineering stages, NWA and other alternatives will be vetted. The results will be submitted during the annual grid needs filing as part of the NWS docket.

The line capacity projects identified currently exceed the planning criteria based on metered data and NWS solutions were analyzed as alternatives to traditional line projects. No existing line capacity projects could be deferred by NWA, DERMS, AMI-enabled load management, or targeted demand response. The Company submitted all capital projects to the process monitor as part of Docket No. 25-08-08 and the ongoing Docket No. 26-08-08.

d. Please refer to OCC-591, Attachment 1, for a 10-year forecast for each identified substation capacity project. Each proposed capacity project within the attachment, shows the forecast overload in MVA. The number of violating hours in each year has not yet been analyzed but this would be conducted during the NWS program process.

Forecasting is not performed at the distribution line level as these capacity projects can be executed in a short timeframe when compared to substation capacity projects. Please refer to OCC-591, Attachment 2, for the proposed line capacity projects based on actual metered data, and circuit overloads in MVA and Amps. The number of violating hours in each year is not available.

e. As part of that PURA approved process, the complete Benefit Cost Analysis (BCA) is available only after projects advance to a competitive solicitation, as the analysis relies on pricing and solution details provided by developers through the solicitation process. Without developer-specific cost information, a comprehensive BCA cannot be completed. As noted in PURA's Final Decision in Docket No. 26-08-08, no project was ordered to proceed with a competitive solicitation.