City of Tallahassee
Your Own Utilities

Electric & Gas Utility | 2602 Jackson Bluff Road, Tallahassee, FL 32304 | 850-891-4968

May 1, 2025

Clerk's Office
State of Florida Public Service Commission

Dear Sir/Madam:

The following pages are the City of Tallahassee Electric & Gas Utilities' (TAL) responses to the "DN 20250000-OT (Undocketed filings for 2025) 2025 Ten-Year Site Plan Review - Staff's Data Request #1" pursuant to the request received from Florida Public Service Commission (FPSC) staff member Ms. Patti Zellner. Please note that copies of all narrative and non-narrative responses have been separately provided to Greg Davis and Phillip Ellis in the FPSC's Division of Engineering via e-mail per Ms. Zellner's request.

If you should have any questions regarding this report, please feel free to contact me at (850) 891-3127 or Caleb.Crow@talgov.com.

Thank You,

Caleb Crow, MPA, LEED AP, EcoDistricts AP
Principal Planner | Clean Energy & Resource Planning
Electric & Gas Utility
850.891.3127
www.talgov.com/CleanEnergyPlan

Instructions: Accompanying this data request is a Microsoft Excel (Excel) document titled "Data Request #1.Excel Tables," (Excel Tables File). For each question below that references the Excel Tables File, please complete the table and provide, in Excel Format, all data requested for those sheet(s)/tab(s) identified in parenthesis.

General Items

1. Please provide an electronic copy of the Company's Ten-Year Site Plan (TYSP) for the current planning period (2025-2034) in PDF format.

An electronic copy of the City of Tallahassee, Electric & Gas Utility's (TAL) TYSP was filed with the Commission Clerk and submitted to Florida Public Service Commission (FPSC) staff via e-mail on April 1, 2025.

2. Please provide an electronic copy of all schedules and tables in the Company's current planning period TYSP in Excel format.

An electronic copy in Excel format of all TAL's TYSP schedules and tables was submitted to FPSC staff via e-mail on April 1, 2025.

3. Please refer to the Excel Tables File tabs listed below. Complete the tables by providing information on the financial assumptions and financial escalation assumptions used in developing the Company's TYSP. If any of the requested data is already included in the Company's current planning period TYSP, state so on the appropriate form.

    a. Excel Tables File (Financial Assumptions)
    b. Excel Tables File (Financial Escalation)

TAL data requested by this question are provided on the "Financial Assumptions" and "Financial Escalation" tabs in the Microsoft Excel file entitled "2024 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

Load & Demand Forecasting

Historic Load & Demand

4. **[Investor-Owned Utilities Only]** Please refer to the Excel Tables File (Hourly System Load). Complete the table by providing, on a system-wide basis, the hourly system load in megawatts (MW) for the period January 1 through December 31 of the year prior to the current planning period. For leap years, please include load values for February 29. Otherwise, leave that row blank.

Although TAL is not an investor-owned utility, TAL data requested by this question are provided on the "Hourly System Load" tab in the Microsoft Excel file entitled "2025 TYSP - DR1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

a. Please also describe how loads are calculated for those hours just prior to and following Daylight Savings Time (March 10, 2024, to November 3, 2024).

The load for 3/10/24 0200 EDT is calculated as the average of the preceding (3/10/24 0100 EST) and following (3/10/24 0300 EDT) hours. The load observed on 11/3/24 0200 EDT is simply replaced with the load observed on 11/3/24 0200 EST.

5. Please refer to the Excel Tables File (Historic Peak Demand). Complete the table by providing information on the monthly peak demand experienced during the three-year period prior to the current planning period, including the actual peak demand experienced, the amount of demand response activated during the peak, and the estimated total peak if demand response had not been activated. Please also provide the day, hour, and system-average temperature at the time of each monthly peak.

TAL data requested by this question are provided on the "Historic Peak Demand" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

Forecasted Load & Demand

6. Please identify the weather station(s) used for calculation of the system-wide temperature for the Company's service territory. If more than one weather station is utilized, please describe how a system-wide average is calculated.

System-wide temperature for TAL's service territory is obtained from the National Climatic Data Center and reflects the Tallahassee Regional Airport (KTLH) weather station.

7. Please explain, to the extent not addressed in the Company's current planning period TYSP, how the reported forecasts of the number of customers, demand, and total retail energy sales were developed. In your response, please include the following information:

a. Methodology.
b. Assumptions.
c. Data sources.
d. Third-party consultant(s) involved.
e. Anticipated forecast accuracy.
f. Any difference/improvement(s) made compared with those forecasts used in the Company's most recent prior TYSP.

TAL's Load Forecast was jointly prepared by TAL staff and 3rd Party Consultants, Siemens PTI Consulting, using methodology and data sources consistent with prior TYSPs. The forecast relies upon monthly customer counts and sales by customer classification, with the forecast for certain large loads reflecting a weather-averaged base load with additions due to new facilities and/or other factors. The total of the demand forecasts is adjusted for system losses to forecast net energy for load (NEL). Similarly, peak demand is forecasted from NEL and load shaping for time of day and seasonality, based on data analysis of historical peak conditions. Annual NEL and seasonal peak demands are calculated from the monthly forecast.

Historical and projected economic and demographic data is obtained from Woods and Poole Economics (W&P); historical and projected population data is obtained from the University of Florida's Bureau of Economic Research (BEBR); historical taxable sales data is obtained from the Florida Department of Revenue, and housing market indicators are obtained from the Bureau of the Census and other sources. A consensus forecast of economic and demographic data is developed based on an average of the growth rates from the W&P and BEBR datasets. Taxable sales data are forecasted based on its estimated relationship with retail sales data reported and forecasted by W&P. Weather data is obtained from the National Climatic Data Center; future weather conditions are assumed to be equal to the most recent 30-year average weather conditions. Finally, the price of electricity is derived from TAL's billing records and forecasted based on projections published by the Energy Information Administration (EIA) in the Annual Energy Outlook (AEO).

The resulting forecast models for load and energy requirements produced base forecasts for annual total retail sales/net energy for load and seasonal peak demand forecasts that are effectively equal, though slightly lower than, those previously projected.

8. Please identify all closed and open Florida Public Service Commission (FPSC) dockets and all non-docketed FPSC matters which were/are based on the same load forecast used in the Company's current planning period TYSP.

There are no open or closed FPSC dockets or non-docketed FPSC matters which were/are based on the same load forecast used in TAL's 2025 TYSP.

9. Please explain if your Company evaluates the accuracy of its forecasts of customer growth and annual retail energy sales presented in its past TYSPs by comparing the actual data for a given year to the data forecasted one, two, three, four, five, or six years prior.

As part of its forecast process TAL and consultants first prepare an analysis of the accuracy of its prior year forecast models for customer growth and annual retail energy sales for the most recent fiscal year. Forecasts older than the prior year forecast are analyzed as a dataset for the trending direction and magnitude of changing forecasts.

   a. If your response is affirmative, please explain the method used in your evaluation, and provide the corresponding results, including work papers, in Excel format for the

analysis of each forecast presented in the TYSPs filed with the Commission during the 20-year period prior to the current planning period. If your Company limits its analysis to a period shorter than 20 years prior to the current planning period, please provide what analysis you have and a narrative explaining why your Company limits its analysis period.

The detailed prior year analysis compares the forecasts of customer growth and annual retail energy sales for the most recent fiscal year both before and after updating assumed values of all explanatory variables for their most recent estimates/known values. In this way, errors that result from incorrect assumptions about the future (e.g., optimistic economic conditions, warmer or colder weather, etc.) are separated from remaining errors due to model error.

b. If your response is negative, please explain.

For the 2025 Load Forecast and TYSP Report, TAL retained a new consultant. Having a new consultant evaluate the previous consultant's work product following a competitive bid process was not desired and therefore the Excel forecast accuracy report was not provided for 2025.

10. Please explain if your Company evaluates the accuracy of its forecasts of Summer/Winter Peak Energy Demand presented in its past TYSPs by comparing the actual data for a given year to the data forecasted one, two, three, four, five, or six years prior.

    a. If your response is affirmative, please explain the method used in your evaluation, and provide the corresponding results, including work papers, in Excel format for the analysis of each forecast presented in the TYSPs filed with the Commission during the 20-year period prior to the current planning period. If your Company limits its analysis to a period shorter than 20 years prior to the current planning period, please provide what analysis you have and a narrative explaining why your Company limits its analysis period.

As part of its forecast process TAL and consultants first prepare an analysis of the accuracy of its prior year forecast models of Summer/Winter Peak Energy Demand for the most recent fiscal year. Summer/Winter peak actual data is reviewed going back to 2007 for the purposes of trend analysis and uncertainty bounds.

b. If your response is negative, please explain why.

For the 2025 Load Forecast and TYSP Report, TAL retained a new consultant. Having a new consultant evaluate the previous consultant's work product following a competitive bid process was not desired and therefore the Excel forecast accuracy report was not provided for 2025.

11. Please explain any historic trends or other information as requested below in each of the following components of Summer/Winter Peak Demand:

    a. Demand Reduction due to the Company's demand-side management program(s) and Self Service, by customer type (residential, commercial, industrial) as well as Total

Customers, and identify the major factors that contribute to the growth/decline in the trends.

Estimates of the historical demand and energy savings from customer participation in TAL's DSM/EE programs are comparable to those projected in its last TYSP. Incremental DSM/EE activity and impacts are expected to increase over the next few years before leveling off after the 2030 timeframe. TAL plans to increase DSM/EE spending and activity to achieve this increase in impacts but expects that some measures will begin to reach saturation over time as a result of prior period measure activity, federal appliance/equipment efficiency standards, and the state building efficiency code, as well as many customers taking steps on their own to reduce their energy use and costs without taking advantage of the financial incentives provided through TAL's DSM/EE programs.

However, TAL remains committed to offering DSM/EE programs that provide measurable economic, reliability and/or environmental benefits to its customers. Consistent with its 2023 Clean Energy Plan, TAL's forecast reflects a community-wide annual energy reduction by at least 5 percent by 2030.

b. Demand Reduction due to Demand Response, by customer type (residential, commercial, industrial), and identify the major factors that contribute to the growth/decline of the trends.

In 2019, TAL launched the Smart Thermostat Rebate program, providing incentives for electric customers to purchase and install eligible WiFi-enabled thermostats. TAL envisions that the smart thermostats purchased through the rebate program will be used to expand TAL's DR capability over the 2030-2034 timeframe. TAL expects to have approximately 11 MW of DR capability on its system by summer 2034, with similar contributions from the residential and commercial classes.

Consistent with its 2023 Clean Energy Plan, TAL remains committed to developing a DR program to offer measurable economic, reliability and/or environmental benefit to its customers and TAL's utility services. TAL's forecast reflects that continued commitment.

c. Total Demand, and identify the major factors that contribute to the growth/decline in the trends.

System peak demand is impacted by a variety of economic, customer behavior, and pricing trends in similar ways that energy consumption is impacted, as discussed above. However, peak demand is volatile, being impacted by weather and other conditions to a greater extent on a year-to-year basis than economic conditions and other long-term factors that impact energy consumption.

d. Net Firm Demand, by the sources of peak demand appearing in Schedule 3.1 and Schedule 3.2 of the current planning period TYSP, and identify the major factors that contribute to the growth/decline in the trends.

Net firm demand has grown gradually over the last several years as a result of the same factors discussed above. TAL intends to utilize DSM/EE resources, including DR, to offset a significant portion of the anticipated growth in peak demand over the forecast horizon, resulting in only very modest growth.

12. Please explain any current and forecasted trends or other information as requested below in each of the following components of Summer/Winter Peak Demand:

    a. Demand Reduction due to the Company's demand-side management program(s) and Self Service, by customer type (residential, commercial, industrial) as well as Total Customers, and identify the major factors that contribute to the growth/decline in the trends.

Estimates of the historical demand and energy savings from customer participation in TAL's DSM/EE programs are comparable to those projected in its last TYSP. Incremental DSM/EE activity and impacts are expected to increase over the next few years before leveling off after the 2030 timeframe. TAL plans to increase DSM/EE spending and activity to achieve this increase in impacts but expects that some measures will begin to reach saturation over time as a result of prior period measure activity, federal appliance/equipment efficiency standards, and the state building efficiency code, as well as many customers taking steps on their own to reduce their energy use and costs without taking advantage of the financial incentives provided through TAL's DSM/EE programs.

    b. Demand Reduction due to Demand Response, by customer type (residential, commercial, industrial), and identify the major factors that contribute to the growth/decline of the trends.

Building on the success of its Smart Thermostat Rebate program, TAL plans to launch programs incentivizing other smart and connected devices in the home and business as the foundation of a flexible load management strategy. Major factors contributing to investment in Demand Response (DSM/DR) include balancing new additions of utility-scale solar generation, future peak load shaving, and cost-effective generation dispatching to reduce fossil-fuel use.

Consistent with its 2023 Clean Energy Plan, TAL remains committed to developing a DSM/DR program to offer measurable economic, reliability and/or environmental benefit to its customers and TAL's utility services.

    c. Total Demand, and identify the major factors that contribute to the growth/decline in the trends.

System peak demand is impacted by a variety of economic, customer behavior, and pricing trends in similar ways that energy consumption is impacted, as discussed above. However, peak demand is volatile, being impacted by weather and other conditions to a greater extent on a year-to-year basis than economic conditions and other long-term factors that impact energy consumption.

d. Net Firm Demand, by the sources of peak demand appearing in Schedule 3.1 and Schedule 3.2 of the current planning period TYSP, and identify the major factors that contribute to the growth/decline in the trends.

Net firm demand has grown gradually over the last several years as a result of the same factors discussed above, while NEL has grown at a faster rate. TAL intends to utilize DSM/EE resources, including DR, to offset a portion of the anticipated growth in peak demand over the forecast horizon, resulting in continued modest growth. TAL does not expect that the impact of self-service due to distributed solar generation on peak demand will be significant over the next 10 years.

13. **[FEECA Utilities Only]** Do the Company's energy and demand savings amounts reflected on the DSM and Conservation-related portions of all energy and demand savings schedules (Schedules 2.1, 2.2, and 2.3 for energy savings and Schedules 3.1, 3.2, and 3.3 for demand savings) reflect the Company's goals that were approved by the Commission in the 2024 FEECA Goalsetting dockets? If not, please explain what assumptions are incorporated within those amounts, and why.

Not applicable. TAL is not a FEECA utility.

14. Please explain any anomalies caused by non-weather events with regard to annual historical data points for the period 10 years prior to the current planning period that have contributed to the following, respectively:

a. Summer Peak Demand.

TAL experienced no Summer Peak Demand non-weather anomalies in the prior 10-year period.

b. Winter Peak Demand.

TAL experienced no Winter Peak Demand non-weather anomalies in the prior 10-year period.

c. Annual Retail Energy Sales.

In 2023, TAL implemented new customer billing software, which changed the methodology of accounting for customer types and consolidated some service points. The resulting data anomaly shows an increase in avg residential consumption and a decrease in avg commercial consumption as well as an overall reduction in service points. 2023 data will remain in the data as a step change and TAL will continue to note this non-weather event in future reports.

15. Please provide responses to the following questions regarding the weather factors considered in the Company's retail energy sales and peak demand forecasts:

a. Please identify, with corresponding explanations, all the weather-related input variables that were used in the respective Retail Energy Sales, Winter Peak Demand, and Summer Peak Demand models.

See table below for weather-related input variables used in the respective models, an "X" indicating that the variable represented in that column was used for the forecast equation represented in that row. HDD and CDD refer to heating and cooling degree days, with a base of 65° F. Peak day min and max refer to minimum and maximum daily temperature.

			Summer		***Winter***	
Equation	***HDD***	***CDD***	***Peak Day Max °F***	***Peak Day Min °F***	***Peak Day Max °F***	***Peak Day Min °F***
Res Sales	*X*	*X*				
GSND Sales	*X*	*X*				
GSD Sales		*X*				
Large Demand Sales		*X*				
Peak Demand	*X*	*X*	*X*	*X*	*X*	*X*

b. Please specify the source(s) of the weather data used in the aforementioned forecasting models.

Weather data for TAL's service territory is obtained from the National Climatic Data Center and reflects the Tallahassee Regional Airport (KTLH) weather station.

c. Please explain in detail the process/procedure/method, if any, the Company utilized to convert the raw weather data into the values of the model input variables.

Historical data is based on the raw weather data. For summer and winter peak demand equations, weather variables are derived as differences from base temperatures, determined from analyses of daily energy versus temperature profiles. Energy sales equations include weather variables with a one-month lag to capture billing cycle lags. Peak demand equations include weather variables for days preceding the peak demand to capture build-up of ambient temperature conditions. Forecasted weather data is based on an average of the weather conditions over the most recent thirty years.

d. Please specify with corresponding explanations:
(1) How many years' historical weather data was used in developing each retail energy sales and peak demand model.

Residential Sales – 32 years (1993-2024)
GSND Sales – 29 years (1995-2024)

GSD Sales – 29 years (1995-2024)
Large Demand Sales – 29 years (1995-2024)
Peak Demand – 34 years (1990-2024)

(2) How many years' historical weather data was used in the process of these models' calibration and/or validation.

Historical weather data – 34 years (1990-2024)

e. Please explain how the projected values of the input weather variables (that were used to forecast the future retail energy sales or demand outputs for each planning years 2025–2034) were derived/obtained for the respective retail energy sales and peak demand models.

Projected weather in the future planning period is based on the NOAA current average weather conditions.

16. **[Investor-Owned Utilities Only]** If not included in the Company's current planning period TYSP, please provide load forecast sensitivities (high band, low band) to account for the uncertainty inherent in the base case forecasts in the following TYSP schedules, as well as the methodology used to prepare each forecast:

    a. Schedule 2.1 – History and Forecast of Energy Consumption and Number of Customers by Customer Class.
    b. Schedule 2.2 - History and Forecast of Energy Consumption and Number of Customers by Customer Class.
    c. Schedule 2.3 - History and Forecast of Energy Consumption and Number of Customers by Customer Class.
    d. Schedule 3.1 - History and Forecast of Summer Peak Demand.
    e. Schedule 3.2 - History and Forecast of Winter Peak Demand.
    f. Schedule 3.3 - History and Forecast of Annual Net Energy for Load.
    g. Schedule 4 - Previous Year and 2-Year Forecast of Peak Demand and Net Energy for Load by Month.

Although TAL is not an investor-owned utility, all the schedules requested above were provided in TAL's 2025 TYSP report and the file entitled "2025 TAL TYSP Tables and Schedules Share File.xls" submitted to FPSC Staff via e-mail on April 1, 2025.

17. Please address the following questions regarding the impact of all customer-owned/leased renewable generation (solar and otherwise) and/or energy storage devices on the Utility's forecasts.

a. Please explain in detail how the Utility's load forecast accounts for the impact of customer's renewables and/or storage.

In the Load Forecast for 2025, behind-the-meter renewable energy was integrated into the forecast as a modeled DSM measure. The forecast calculates customer-owned solar as having net energy for load and peak demand impacts.

b. Please provide the annual impact, if any, of customer's renewables and/or storage on the Utility's retail demand and energy forecasts, by class and in total, for 2025 through 2034.

Though indicators of renewable energy adoption were applied to the load forecast overall as part of predicting NEL and peak demand, customer class and total impacts were not disaggregated.

c. If the Utility maintains a forecast for the planning horizon (2025-2034) of the number of customers with renewables and/or storage, by customer class, please provide.

TAL did not maintain a forecast for the number of customers with renewables or storage in 2025.

Plug-in Electric Vehicles (PEVs)

18. Please refer to the Excel Tables File (PEV Charging). Complete the table by providing estimates of the requested information within the Company's service territory for the current planning period. Direct current fast charger (DCFC) PEV charging stations are those that require a service drop greater than 240 volts and/or use three-phase power.

TAL data requested by this question are provided on the "Electric Vehicle Charging" tab in the Microsoft Excel file entitled "2024 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

19. Please describe what method(s) the Utility has used, if any, to address the impact of PEVs charging on seasonal peak demand, including any special rates or tariffs, demand-side management programs (including PEV-centric demand response), customer education, or other means. As part of your response, identify each and provide the estimated impact on seasonal peak demand.

PEV adoption in TAL's service territory is steadily increasing, though at a slightly slower rate than the national average. And while PEV adoption contributes to increased electricity demand, its impact is offset some by reductions from DSM/EE efforts elsewhere. As such, TAL is not forecasting significant impacts on seasonal peak demand due to PEV charging in the near term. That said, TAL will continue to monitor industry experience and developments in managed EV charging programs for potential consideration at a later time.

20. Please explain any historic trends related to the following:
    a. PEV counts

PEV adoption in TAL's service territory is steadily increasing, though at a slightly slower rate than the national average. Notable progress is being made by the City of Tallahassee as they work toward their goal of converting 100 percent of its light-duty fleet vehicles to electric or hybrid by 2035. As of early 2025, the City has transitioned over 40 percent of StarMetro transit buses to all-electric and over 30 percent of its light-duty vehicles to all-electric or hybrid.

a. PEV charging installation counts

The public-facing PEV charging network in TAL's service territory as of late 2024 consists of 119 charging ports at 36 charging stations, including 20 City-owned ports and 99 privately-owned, publicly available ports. Last year, TAL nearly doubled the number of permits for both residential and commercial EV chargers compared to 2023, indicating a sharp increase in local EV adoption and demand for public charging stations. Approximately 63% of the public charging network in TAL's service territory consists of Level 2 (L2) chargers, which can charge an EV to 80 percent from empty in 4-10 hours.

TAL monitors public EV charging stations within the service territory via the electrical permitting process administered by the local jurisdiction building department. TAL would only be notified of in-home PEV charging if an electrical permit is issued for the installation.

b. Annual energy consumption

Annual energy consumption has grown slightly (~1%) but steadily over the past two decades.

c. Seasonal Peak Demand (Summer and Winter)

Seasonal Peak Demand has been lower for many years in the TAL system with the highest summer peak occurring in 2007, however 2023 and 2019 had summer peak loads higher than any year other than 2007. Similarly, the winter peak record was set in 2011. Peak loads have been trending up in recent years, but have not yet reached historic levels.

21. Please explain any <u>current or forecasted</u> trends related to the following:

a. PEV counts

The TAL forecast for PEV adoption projects historical rates but does not directly adjust projections based on assumptions for future possible consumer reactions to market forces, availability of government incentives, and impact of federal/state/local policies.

b. PEV charging installation counts

TAL does not forecast PEV charging installation counts; however, TAL does monitor progress towards the City of Tallahassee's efforts to construct public DC Fast Charging stations (branded 'PowerTLH'), a central charging depot to support the public bus fleet, and Level II chargers for its light-duty fleet vehicles.

c. Annual energy consumption

Forecasted annual energy consumption increases slightly but steadily in the future projection to reflect this trend in from the historical period. Outside forecasts of population growth and the

population surges seen in other Florida urban areas have not been realized or forecasted for Tallahassee.

d. Seasonal Peak Demand (Summer and Winter)

Seasonal Peak demand in the forecasted years is lower than historic highs because average weather is used in the base case forecast. However, TAL also produces a sever weather forecast which assumes a cold winter and hot summer in each year of the planning period to understand the upper bounds of what a reasonable seasonal would be on top of our base forecast. These severe weather forecasts show the potential for increased summer and winter peaks that could exceed the 2007 and 2011 records respectively.

22. Please describe any Company programs or tariffs currently offered to customers relating to PEVs, and describe whether any new or additional programs or tariffs relating to PEVs will be offered to customers within the current planning period.

TAL routinely participates in public EV events, offers on-bill financing for a Level II charger in the home or business, and provides access to public Level II charging at a rate defined in municipal code. Additionally, TAL offers a "Nights and Weekends" time-of-use rate that provides incentives to customers under the voluntary tariff program to defer consumption to off-peak periods (weekdays 7pm-7am, and weekends).

a. Of these programs or tariffs, are any designed for or do they include educating customers on electricity as a transportation fuel?

TAL's outreach through public EV events includes education on the benefits of vehicle electrification. TAL will continue to develop customer education or engagement efforts consistent with its 2023 Clean Energy Plan.

b. Does the Company have any programs where customers can express their interest or expectations for electric vehicle infrastructure as provided for by the Utility, and if so, please describe in detail.

TAL's outreach through public EV events affords customers the opportunity to express their interest or expectations for EV charging. TAL will continue to develop similar programs as part of the 2023 Clean Energy Plan.

23. Has the Company conducted or contracted any research to determine demographic and regional factors that influence the adoption of PEVs applicable to its service territory? If so, please describe in detail the methodology and findings.

No, TAL has not conducted or contracted for any research as described above. TAL utilizes county level vehicle registration data provided by the state.

24. Please describe if and how the 2024 presidential election and the new administration has impacted the Company's projection of PEV growth and related demand and energy growth.

TAL did not make any changes to PEV growth projections as a result of the outcome of the 2024 presidential election.

25. If applicable, please list and briefly describe all PEV pilot programs the Company is currently implementing and the status of each program.

Not applicable. TAL does not currently have an EV pilot program.

26. If applicable, please describe any key findings and metrics of the Company's PEV pilot program(s) which reveal the PEV impact to the demand and energy requirements of the Company.

Not applicable. TAL does not currently have an EV pilot program.

Demand Response

27. **[FEECA Utilities Only]** Please refer to the Excel Tables File (DR Participation). Complete the table by providing for each source of demand response annual customer participation information for 10 years prior to the current planning period. Please also provide a summary of all sources of demand response using the table.

Not applicable. TAL is not a FEECA utility.

28. **[FEECA Utilities Only]** Please refer to the Excel Tables File (DR Annual Activation). Complete the table by providing for each source of demand response annual usage information for 10 years prior to the current planning period. Please also provide a summary of all demand response using the table.

Not applicable. TAL is not a FEECA utility.

Generation & Transmission

Utility-Owned Resources

29. Please refer to the Excel Tables File tabs listed below. Complete the tables by providing information on the utility-owned generation resources for the time period listed. When completing the tables, please consider the following factors: (i) for multiple small (<0.25 MW) distributed resources of the same type and fuel source, provide a single entry; (ii) for solar facilities, if available, provide the nameplate DC capacity as the gross capacity, the nameplate AC capacity as the net capacity, and the firm contribution during time of system peak as the firm capacity. If a solar facility is combined with an energy storage system, identify the capacity of the energy storage system in a separate line.

a. Excel Tables File (Existing Utility), including each utility-owned generation resource in service as of December 31 of the year prior to the current planning period.

TAL data requested by this question are provided on the "Existing Utility" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

b. Excel Tables File (Planned Utility), including each utility-owned generation resource that is planned to enter service during the current planning period.

TAL data requested by this question are provided on the "Planned Utility" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

30. For each planned utility-owned generation resource or group of resources, provide a narrative response discussing the current status of the project.

Not applicable. TAL has no planned utility-owned generation resource additions.

31. Please list and discuss any planned utility-owned renewable resources that have, within the past year, been cancelled, delayed, or reduced in scope. What was the primary reason for the changes? What, if any, were the secondary reasons?

Not applicable. TAL has not cancelled, delayed, or reduced in scope any planned utility-owned renewable resources.

32. Discuss the impact of any recent federal actions on permitting for renewable generation. As part of your discussion, identify what projects, if any, were impacted and what those impacts were.

Not applicable. TAL has no planned renewable energy generation.

33. Please refer to the Excel Tables File (Planned PPSA). Complete the table by providing information on each planned generation resource that requires siting under the Power Plant Siting Act. For each planned unit, provide the date of the Commission's Determination of Need and Power Plant Siting Act certification, if applicable.

TAL has no planned generation resources within the current planning period.

34. Please refer to the Excel Tables File (Planned Construction). Complete the table by providing information on all planned generating units with an in-service date within the current planning period. For each planned unit, provide the final decision ("drop dead") date for a decision on whether or not to construct each unit, and the estimated dates for site selection, engineering, permitting, procurement, and construction.

TAL has no planned generation resources for in-service within the current planning period.

35. Please refer to the Excel Tables File (Unit Performance). Complete the table by providing information on each utility-owned generation resource in service during the current planning period. For historic performance, use the past three years for a historical average. For projected performance, use an average of the next 10-year period for projected factors.

TAL data requested by this question are provided on the "Unit Performance" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

36. Please refer to the Excel Tables File (Unit Dispatch). Complete the table by providing the actual and projected capacity factors for each existing and planned unit on the Company's system for the 11-year period beginning one year prior to the current planning period.

TAL data requested by this question are provided on the "Unit Dispatch" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

37. **[Investor-Owned Utilities Only]** For each existing unit on the Company's system, please provide the planned retirement date. If the Company does not have a planned retirement date for a unit, please provide an estimated lifespan for units of that type and a non-binding estimate of the retirement date for the unit.

Not applicable. TAL is a municipal utility.

38. **[Investor-Owned Utilities Only]** Please refer to the Excel Tables File (Solar and Storage Sites). Complete the table by providing information on each of the Company's existing and planned solar and/or energy storage facilities, including the Order and date of Commission approval (or Pending if not yet approved). Identify the associated cost recovery mechanism (such as in a base rate case, the environmental cost recovery clause, solar base rate adjustment, or special tariffs such as SolarTogether, SolarTogether Extension, and Clean Energy Connection) for each facility as well.

Not applicable. TAL is a municipal utility.

39. In its planning process, did the Company consider constructing any solar or energy storage facilities that are co-located with other uses such as parking areas, waterways, existing buildings (including rooftops), or substations? If not, explain why not. If so, explain whether the analysis selected any facilities of this type and identify them.

Yes. TAL has in-house research on its substations that could serve as energy storage locations. TAL has no planned solar or energy storage additions in the current TYSP.

40. Please refer to the Excel Tables File (Unit Modifications). Complete the table by providing information on all of the Company's units that are either will or are potential candidates to change fuel types or be repower, such as conversion to a Combined Cycle unit component.

TAL data requested by this question are provided on the "Unit Modifications" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

41. Please refer to the Excel Tables File (Transmission Lines). Complete the table by providing a list of all proposed transmission lines for the current planning period that require certification under the Transmission Line Siting Act. Please also include in the table transmission lines that have already been approved, but are not yet in-service.

TAL has no proposed transmission lines for the current planning period that require certification under the Transmission Line Siting Act.

Power Purchase and/or Sale Agreements

42. Please refer to the Excel Tables File tabs listed below. Complete the tables by providing information on each power purchase agreement (PPA) for the time period listed. If the PPA is associated with a particular generating unit(s), provide additional information about those units if available. When completing the tables, please consider the following factors: (i) for multiple small (<0.25 MW) distributed resources of the same type and fuel source, provide a single entry; (ii) for solar facilities, if available, provide the nameplate DC capacity as the gross capacity, the nameplate AC capacity as the net capacity, and the firm contribution during time of system peak as the firm capacity. If a solar facility is combined with an energy storage system, identify the capacity of the energy storage system in a separate line.

    a. Excel Tables File (Existing PPA), including each PPA still in effect by December 31 of the year prior to the current planning period pursuant to which energy was delivered to the Company during said year.

TAL data requested by this question are provided on the "Existing PPA" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

    b. Excel Tables File (Planned PPA), including each PPA pursuant to which energy will begin to be delivered to the Company during the current planning period.

TAL has no planned PPAs.

43. For each planned power purchase agreement, provide a narrative response discussing the current status of the associated generating project.

TAL has no planned PPAs.

44. Please list and discuss any long-term power purchase agreements that have, within the past year, been cancelled, delayed, or reduced in scope. What was the primary reason for the change? What, if any, were the secondary reasons?

Not applicable. TAL has not cancelled, delayed, or reduced in scope any PPAs.

45. Please refer to the Excel Tables File tabs listed below. Complete the tables by providing information on each power sale agreement (PSA) for the time period listed. If the PSA is associated with a particular generating unit(s), provide additional information about those units if available. When completing the tables, please consider the following factors: (i) for multiple small (<0.25 MW) distributed resources of the same type and fuel source, provide a single entry; (ii) for solar facilities, if available, provide the nameplate DC capacity as the gross capacity, the nameplate AC capacity as the net capacity, and the firm contribution during time of system peak as the firm capacity. If a solar facility is combined with an energy storage system, identify the capacity of the energy storage system in a separate line.

    a. Excel Tables File (Existing PSA), including each PSA still in effect by December 31 of the year prior to the current planning period pursuant to which energy was delivered by the Company during said year.

TAL has no existing PSAs.

    b. Excel Tables File (Planned PSA), including each PSA pursuant to which energy will begin to be delivered by the Company during the current planning period.

TAL has no planned PSAs.

46. For each planned power sale agreement, provide a narrative response discussing the current status of the agreement.

Not applicable.

47. Please list and discuss any long-term power sale agreements within the past year that were cancelled, expired, or modified. What was the primary reason for the change? What, if any, were the secondary reasons?

Not applicable. TAL did not have any long-term PSAs with the past year.

<u>Renewable Generation</u>

48. Please refer to the Excel Tables File (Renewables). Complete the table by providing the actual and projected annual energy output of all renewable resources on the Company's system, by source, for the 11-year period beginning one year prior to the current planning period.

TAL data requested by this question are provided on the "Renewables" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

49. Please describe any actions the Company engages in to encourage production of renewable energy within its service territory.

TAL continues to promote solar PV through its Net Metering Program which offers customers kWh credits at the full retail rate for energy returned to the grid. Also, through its Energy Efficiency Loan program, TAL customers may borrow up to $20,000 for a 10-year term for the purchase and installation of a Solar PV system installed at the customer's service point.

50. Please identify and describe any programs the Company offers that allows its customers to contribute towards the funding of specific renewable projects, such as community solar programs.

TAL previously allowed customers to voluntarily subscribe to a solar fuel charge through the Tallahassee Solar tariff, but this option is fully subscribed and no longer available.

a. Please describe any such programs in development with an anticipated launch date within the current planning period.

No new community solar programs are in development for TAL at this time.

Energy Storage

51. Briefly discuss any progress in the development and commercialization of non-lithium-ion based battery storage technology the Company has observed in recent years.

TAL's most recent Energy Integrated Research Plan (EIRP) evaluated various non-lithium-ion battery storage technologies for efficacy and affordability; however, TAL is not specifically seeking adoption of energy storage based on emergent non-lithium-ion technological advancements at this time.

52. If applicable, please describe the strategy of how the Company charges and discharges its energy storage facilities. As part of the response discuss if any recent legislation, including the IRA, has changed how the Company dispatches its energy storage facilities.

TAL does not currently have energy storage on its system.

53. Briefly discuss any considerations reviewed in determining the optimal positioning of energy storage technology in the Company's system (e.g., closer to/further from sources of load, generation, or transmission/distribution capabilities).

TAL conducted demand curve analysis for several potential energy storage locations to determine sizing, effectiveness, and economic advantage. Sites with potential microgrid, solar PV grid ties, critical infrastructure, and storm resilience benefits offer BESS services unavailable at all locations and are therefore prioritized.

54. Please explain whether customers have expressed interest in energy storage technologies. If so, describe the type of customer (residential, commercial industrial) and how have their interests been addressed.

To date, a small number of ratepayers have expressed a general interest in ES technologies for residential use. TAL has met with some groups to determine their level of interest and found that most ratepayers are not willing to invest in ES without subsidies. However, TAL does foresee the possibility of residential and commercial programs following the 2023 Clean Energy Plan's priorities.

55. Please refer to the Excel Tables File (Existing Storage). Complete the table by providing information on all energy storage technologies that are currently either part of the Company's system portfolio or are part of a pilot program sponsored by the Company.

TAL has no existing energy storage.

56. Please refer to the Excel Tables File (Planned Storage). Complete the table by providing information on all energy storage technologies planned for in-service during the current planning period either as part of the Company's system portfolio or as part of a pilot program sponsored by the Company.

TAL has no planned energy storage.

57. Please identify and describe the objectives and methodologies of all energy storage pilot programs currently running or in development with an anticipated launch date within the current planning period. If the Company is not currently participating in or developing energy storage pilot programs, has it considered doing so? If not, please explain.

    a. Please discuss any pilot program results, addressing all anticipated benefits, risks, and operational limitations when such energy storage technology is applied on a utility scale (> 2 MW) to provide for either firm or non-firm capacity and energy.

Not applicable.

    b. Please provide a brief assessment of how these benefits, risks, and operational limitations may change over the current planning period.

Not applicable.

    c. Please identify and describe any plans to periodically update the Commission on the status of your energy storage pilot programs.

TAL will update the Commission on the status of pilot programs through the normal TYSP and Supplemental Data Request cycles.

Reliability

58. Please refer to the Excel Tables File (Reliability). Complete the table by providing the loss of load probability, reserve margin, and expected unserved energy for each year of the planning period.

TAL data requested by this question are provided on the "Reliability" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

59. Describe in detail the methodology the Utility used to determine the seasonal firm capacity contribution of its solar facilities or purchases and provide the percentage contribution for each facility, if applicable. As part of this discussion, please explain whether the Company's existing and/or future solar facilities shift the hour of system peak demand for reliability planning purposes net of solar generation.

TAL currently utilizes 62 MWac of solar PPAs, 50 MWac of which is considered a non-firm resource, a conservative estimate within industry practice. TAL acknowledges that energy storage (ES) could potentially "firm up" additional capacity available from these resources and is the recipient of federal infrastructure funding that will enable 15 MW/ 60 MWh of ES within the next three years. Otherwise, TAL has not yet had any operational experience with ES technologies.

60. **[Investor Owned Utilities Only]** Please refer to Excel Tables File (Firm Solar). Provide an example hourly contribution of the Company's generating units compared to the system demand for a typical seasonal peak day for each season (Summer and Winter). As part of this response, provide the typical hourly demand and contribution of non-firm renewable resources (such as solar or wind), energy storage (charging and discharging separately), nuclear, natural gas, coal, oil, firm renewables, all other generation, purchased power, power sales, and demand response, if applicable.

Not applicable. TAL is a municipal utility.

61. If the Company utilizes non-firm generation sources in its system portfolio, please detail whether it currently utilizes or has considered utilizing energy storage technologies to provide firm capacity from such generation sources. If not, please explain.

TAL currently utilizes 62 MWac of solar PPAs, 50 MWac of which is considered a non-firm resource, a conservative estimate within industry practice. TAL acknowledges that energy storage could potentially firm this intermittent capacity and is the recipient of federal infrastructure GRIP funding for installation of 15 MW/ 60 MWh of energy storage within the next five years. However, this award is currently paused due to executive order.

a. Based on the Company's operational experience, please discuss to what extent energy storage technologies can be used to provide firm capacity from non-firm generation sources. As part of your response, please discuss any operational challenges faced and potential solutions to these challenges.

TAL has no energy storage operational experience.

Environmental

62. Please explain if the Company assumes carbon dioxide (CO_2) compliance costs in the resource planning process used to generate the resource plan presented in the Company's current planning period TYSP. If the response is affirmative, answer the following questions:

a. Please identify the year during the current planning period in which CO2 compliance costs are first assumed to have a non-zero value.

TAL did not include a non-zero assumption for CO2 compliance costs in the resource planning process used to generate the resource plan presented in its 2025 TYSP

b. **[Investor-Owned Utilities Only]** Please explain if the exclusion of CO2 compliance costs would result in a different resource plan than that presented in the Company's current planning period TYSP.

Not applicable. TAL is a municipal utility.

c. **[Investor-Owned Utilities Only]** Please provide a revised resource plan assuming no CO2 compliance costs.

Not applicable. TAL is a municipal utility.

63. Provide a narrative explaining the impact of any existing environmental regulations relating to air emissions and water quality or waste issues on the Company's system during the previous year. As part of your narrative, please discuss the potential for existing environmental regulations to impact unit dispatch, curtailments, or retirements during the current planning period.

The City maintained regulatory compliance without curtailments or retirements and was not significantly affected by any air regulations during the 2024 timeframe. City facilities are subject to the requirements of the Acid Rain Program and should have enough allowances for the foreseeable future.

The Arvah B. Hopkins Generating Station's (Hopkins) Industrial Wastewater NPDES permit was renewed on August 25, 2023. In accordance with the Lake Talquin, Total Maximum Daily Load rule, which became final on May 16, 2022, the permit incorporates waste load allocations for Hopkins of 986 kilograms per year (kg/year) of total nitrogen and 2,409 kg/yr of total

phosphorus. The loading for calendar year 2024 was below the permitted limit and no additional impacts are expected.

Hopkins completed the demolition of FDEP Tank #11 (also known as Tank 4) at Hopkins while maintaining the concrete base as an engineering control to maintain compliance with the Declaration of Restrictive Covenant and Site Rehabilitation Completion Order, issued by Florida Department of Environmental Protection (FDEP) in July 2018.

Field erected storage tank systems are maintained and inspected according to the frequency established by American Petroleum Industry (API) Standard 653; and repairs made, if needed, based on the recommendations in the inspection report, and in compliance with Rule 62-762.702, Florida Administrative Code. API-653 inspections and registration with FDEP remain current.

64. For the U.S. EPA's Standards of Performance for Greenhouse Gas Emissions for New Stationary Sources: Electric Utility Generating Units Rule:

a. Will your Company be materially affected by the rule?

TAL has no units that are subject to the rule.

b. What compliance strategy does the Company anticipate employing for the rule?

Not applicable.

c. If the strategy has not been completed, what is the Company's timeline for completing the compliance strategy?

Not applicable.

d. Will there be any regulatory approvals needed for implementing this compliance strategy? How will this affect the timeline?

Not applicable.

e. Does the Company anticipate asking for cost recovery for any expenses related to this rule? Refer to the Excel Tables File (Emissions Cost). Complete the table by providing information on the costs for the current planning period.

Not applicable.

f. If the answer to any of the above questions is not available, please explain why.

The rule applies to any steam generating unit, integrated gasification combined cycle (IGCC), or stationary combustion turbine that commenced construction after January 8, 2014, or commenced reconstruction after June 18, 2021. The City has not constructed nor reconstructed, any of the aforementioned units.

65. Explain any expected reliability impacts resulting from each of the EPA rules listed below. As part of your explanation, please discuss the impacts of transmission constraints and changes to units not modified by the rule that may be required to maintain reliability.

    a. Mercury and Air Toxics Standards (MATS) Rule.

Not applicable.

    b. Cross-State Air Pollution Rule (CSAPR).

Not applicable.

    c. Cooling Water Intake Structures (CWIS) Rule.

The CWIS Rule does not apply to Hopkins given water is supplied from on-site wells and no intake structures are used. The CWIS Rule has no impact to the Sam O. Purdom Generating Station (Purdom) as the facility does not meet the established regulatory threshold under section 316(b) of the Clean Water Act for existing power generating facilities.

    d. Coal Combustion Residuals (CCR) Rule.

Not applicable.

    e. Standards of Performance for Greenhouse Gas Emissions for New Stationary Sources: Electric Utility Generating Units.

Not applicable.

    f. Affordable Clean Energy Rule or its replacement.

Not applicable.

    g. Effluent Limitations Guidelines and Standards (ELGS) from the Steam Electric Power Generating Point Source Category.

Neither Purdom nor Hopkins generating stations use coal as a fuel and therefore no impacts are expected from the ELG revisions.

66. Please refer to the Excel Tables File (EPA Operational Effects). Complete the table by identifying, for each unit affected by one or more of EPA's rules, what the impact is for each rule, including: unit retirement; curtailment; installation of additional emissions controls: fuel switching: or other impacts identified by the Company.

TAL data requested by this question are provided on the "EPA Operational Effects" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

67. Please refer to the Excel Tables File (EPA Cost Effects). Complete the table by identifying, for each unit impacted by one or more of the EPA's rules, what the estimated cost is for implementing each rule over the course of the planning period.

TAL data requested by this question are provided on the "EPA Cost Effects" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

68. Please refer to the Excel Tables File (EPA Unit Availability). Complete the table by identifying, for each unit impacted by one or more of EPA's rules, when and for what duration units would be required to be offline due to retirements, curtailments, installation of additional controls, or additional maintenance related to emission controls. Include important dates relating to each rule.

TAL data requested by this question are provided on the "EPA Unit Availability" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

69. If applicable, identify any currently approved costs for environmental compliance investments made by your Company, including but not limited to renewable energy or energy efficiency measures, which would mitigate the need for future investments to comply with recently finalized or proposed EPA regulations. Briefly describe the nature of these investments and identify which rule(s) they are intended to address.

No known investments at this time.

Fuel Supply & Transportation

70. Please refer to the Excel Tables File (Energy Rates). Complete the table by providing information on the Utility's firm capacity and energy purchases, non-firm energy purchases, and the utility's as-available energy rate. If the Company uses multiple areas for as-available energy rates, please provide a system-average rate as well.

TAL data requested by this question are provided on the "Energy Rates" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

71. Please refer to the Excel Tables File (Fuel Usage & Price). Complete the table by providing, on a system-wide basis, the actual annual fuel usage (in GWh) and average fuel price (in nominal $/MMBTU) for each fuel type utilized by the Company in the 10-year period prior to the current planning period. Also, provide the forecasted annual fuel usage (in GWh) and forecasted annual average fuel price (in nominal $/MMBTU) for each fuel type forecasted to be used by the Company in the current planning period.

TAL data requested by this question are provided on the "Fuel Usage & Price" tab in the Microsoft Excel file entitled "2025 TYSP – DR 1 Excel - TAL.xlsx" accompanying this document's submission to FPSC staff.

72. Please discuss how the Company compares its fuel price forecasts to recognized, authoritative independent forecasts.

TAL based its fuel price forecasts for natural gas and distillate fuel oil on the Chicago Mercantile Exchange Group/New York Mercantile Exchange (CME/NYMEX) futures prices. Because TAL does not have a recent fuel forecast performed by a third party, the CME/NYMEX prices were relied on as the basis for the fuel forecasts submitted to the FPSC in the 2025 TYSP. At the time TAL prepared the TYSP forecast, the latest public fuel forecast available was from the Energy Information Administration's (EIA) Annual Energy Outlook 2025 released on April 15, 2025.

TAL reviewed the EIA data after the TYSP forecast was prepared and found the EIA natural gas prices, for the ten-year period, to track 0.22% lower than TAL's CME/NYMEX based natural gas forecast. EIA's Distillate fuel oil forecast was over 45% higher than the TAL's CME/NYMEX distillate forecast. The large difference is primarily due to market volatility and timing of the forecast. Because market prices solicited from TAL suppliers mirror the CME/NYMEX, TAL used the CME/NYMEX as the basis for the TYSP fuel forecasts for natural gas and distillate fuel oil. Since suppliers specifically quote the CME/NYMEX as a basis for fixed-price term deals, TAL believes the CME/NYMEX provides a better basis for fuel forecasting than the EIA forecasts.

73. Please identify and discuss expected industry trends and factors for each fuel type listed below that may affect the Company during the current planning period.

a. Coal.

TAL does not have or plan to add coal generating resources within the ten-year time horizon. Therefore, TAL has limited insight into expected industry trends for coal.

b. Natural Gas.

Natural gas prices were relatively low during most of 2024 before increasing late in the year due to colder than normal weather. Prices in 2025 stayed strong due to ongoing cold weather. LNG output has increased in 2025 with new facilities coming online and production has risen to meet the new demand. We expect prices to stay stable throughout 2025 some volatility related to tariffs and their impact on the economy.

c. Nuclear.

Not applicable.

d. Fuel Oil.

Due to the higher price of distillate compared to natural gas and environmental permit limits, TAL uses distillate fuel oil primarily for reliability purposes and testing. Distillate and residual fuel oils have come down in the wake of new tariffs and the increased risk of an economic recession.

e. Other (please specify each, if any).

Not applicable.

74. Please provide a comparison of the Utility's 2024 fuel price forecast used to prepare its 2024 TYSP and its actual 2024 delivered fuel prices.

TAL's projected cost of delivered natural gas for the 2024 calendar year was $3.77/MMBtu and the City's actual cost of delivered gas was $3.44/MMBtu.

75. Please explain any notable changes in the Utility's forecast of fuel prices used to prepare the Utility's current TYSP compared to the fuel process used to prepare the Utility's prior TYSP.

TAL is using the same CME/NYMEX based methodology for the 2025 forecast as prior years.

76. Please identify and discuss steps that the Company has taken to ensure natural gas supply availability and transportation over the current planning period.

Over the past several years, TAL has added pipeline capacity and levelized natural gas consumption through the addition of more efficient generating resources and retirement of less efficient units. In 2011, Florida Gas Transmission (FGT) expanded its natural gas pipeline system with the addition of 820,000 MMBtu/day of additional firm transportation capacity. TAL contracted for 6,000 MMBtu/day (year-round) of additional pipeline capacity from this expansion to enhance reliability. TAL also negotiated with FGT to acquire additional FTS-1 turn-back capacity during the summer and winter months as part of the 2015 rate case settlement. The additional pipeline capacity volumes will enable TAL to meet customer needs based on load growth forecasts for the ten-year planning horizon. Between 2017 and 2019 TAL added 62 MW of solar capacity which has displaced some natural gas generation and will ensure greater reliability with our existing FGT pipeline capacity.

Emerging Technologies

77. **[FEECA Utilities Only]** Please refer to the Excel Tables File tabs listed below. Complete the tables by providing information on the data centers for the time period listed.

a. Excel Tables File (Existing Data Centers), including for data centers being served as of December 31 of the year prior to the current planning period.

TAL is not a FEECA Utility.

b. Excel Tables File (Planned Data Centers), including for data centers that are planned during the current planning period.

TAL is not a FEECA Utility.

78. With respect to the load forecast included in the Utility's 2025 Ten-Year Site Plan to be filed in April this year, does the load forecast include projections of annual energy consumption and demand associated with data centers within your service area during the forecasting time horizon (2025-2034)?

    a. If any such projections have been made, please provide details of the projections including the type of data centers expected to contribute to such energy/demand, and what factors are driving such energy consumption and demand.

TAL includes one relatively small, 500kW power supply, cloud data center. The associated load is from a key account commercial customer, Florida State University. While TAL does not explicitly track the data center's consumption at the time of community peak demand, an assumption of 0.5MW could be used. TAL has sufficient history with the data center to provide accurate projections; ie this is not a new data center.

    b. If no specific projections have been made, what does the Utility believe is the likely pattern of load growth associated with this industry within its service territory?

TAL has no data centers currently requesting interconnection within its service territory. If a large load were to request interconnection, TAL would work with the requesting entity to reach an agreement on demand, load factor, and load shape as part of the interconnection process.

79. Please identify the Utility's issues and/or concerns, if any, that are expected to result from the growth in data centers in your utility's service territory. Please also specify how has, and how does, your utility anticipate responding to such issues or concerns.

TAL has a summer firm capacity of 737 MW. As growth in artificial intelligence accelerates, modern data centers could demand this much power alone, essentially doubling the size of TAL within a few years. The load profile for these commercial facilities will be challenging to meet from clean energy resources such as solar power alone. For these reasons, growth in data centers in TAL's service territory will require detailed planning, close coordination, and heightened risk mitigation to assure continued reliability and affordability of TAL's system and the entire base of customers it serves.

80. **[FEECA Utilities Only]** Please identify and discuss the Company's role in the research and development of utility power technologies, including, but not limited to, research programs that are funded through the Energy Conservation Cost Recovery Clause. As part of this response, please describe any plans to implement the results of research and development into the Company's system portfolio, and the timing of such implementation. In addition, discuss how any anticipated benefits will affect your customers.

TAL is not a FEECA Utility.

81. Has the Utility employed, or considered using, any type of the artificial intelligence and/or other new technologies/tools in its load forecasting, operation, customer service, and cybersecurity management? Please explain your response.

TAL is investigating analytic software platforms that provide behind-the-meter intelligence to enable personalized DSM/DR recruitment and grid-level services.

82. Please identify and discuss emerging power generation and consumption technologies your Company is considering. As part of this response, please describe any formal steps the Company has or will take for possible implementation of the technology.

TAL is not considering any emerging power generation technologies for the current planning period. Key Account Florida State University (FSU) has received funding for hydrogen research, which TAL supports through the grid interconnection to the FSU Center for Advanced Power Systems.

TYSP Year 2025

Sheet #	Tab Name	DR No.
1	Table of Contents	-
2	Financial Assumptions	3(a)
3	Financial Escalation	3(b)
4	Hourly System Load	4
5	Historic Peak Demand	5
6	PEV Charging	18
7	DR Participation	27
8	DR Activations	28
10	Existing Utility	29(a)
12	Planned Utility	29(b)
13	Planned PPSA	33
17	Planned Construction	34
14	Unit Performance	35
15	Unit Dispatch	36
16	Solar and Storage Sites	38
17	Unit Modifications	40
	Transmission Lines	41
18	Existing PPA	42(a)
19	Planned PPA	42(b)
20	Existing PSA	45(a)
21	Planned PSA	45(b)
22	Renewables	48
23	Existing Storage	55
25	Planned Storage	56
26	Reliability	58
27	Firm Solar	60
28	Emissions Cost	
29	EPA Operational Effects	66
30	EPA Cost Effects	67
31	EPA Unit Availability	68
32	Energy Rates	70
33	Fuel Usage & Price	71
34	Existing Data Centers	77(a)
35	Planned Data Centers	77(b)

Financial Assumptions			
Base Case			
AFUDC Rate		(%)	N/A
Capitalization Ratios	Debt	(%)	45.71%
	Preferred	(%)	N/A
	Equity	(%)	138.09%
Rate of Return	Debt	(%)	13.47%
	Preferred	(%)	N/A
	Equity	(%)	14.37%
Income Tax rate	State	(%)	N/A
	Federal	(%)	N/A
	Effective	(%)	N/A
Other Tax Rate: Sales Tax ($5,000 or		(%)	7.50%
Other Tax Rate: Sales Tax (>$5,000)		(%)	6.00%
Discount Rate:		(%)	7.50%
Tax - Depreciation Rate:		(%)	N/A

Financial Escalation Assumptions				
Year	General Inflation (%)	Plant Construction Cost (%)	Fixed O&M Cost (%)	Variable O&M Cost (%)
2025	2.2	2.2484	2.2484	2.2484
2026	2.4	2.4576	2.4576	2.4576
2027	2.3	2.3529	2.3529	2.3529
2028	2.2	2.2484	2.2484	2.2484
2029	2.2	2.2484	2.2484	2.2484
2030	2.2	2.2484	2.2484	2.2484
2031	2.2	2.2484	2.2484	2.2484
2032	2.2	2.2484	2.2484	2.2484
2033	2.2	2.2484	2.2484	2.2484
2034	2.2	2.2484	2.2484	2.2484

TYSP Year 2025
Question No. 4

Date									
	1	2	3	4	5	6	7	8	9
1/1/2024	290	284	282	279	280	285	293	302	307
1/2/2024	250	245	247	252	263	279	304	339	371
1/3/2024	328	322	324	331	342	357	378	403	417
1/4/2024	299	287	280	279	286	301	326	365	395
1/5/2024	322	316	316	319	323	335	360	394	417
1/6/2024	248	235	224	218	211	206	208	215	225
1/7/2024	238	227	219	216	216	222	232	250	272
1/8/2024	301	288	280	276	277	284	304	344	371
1/9/2024	275	254	238	228	222	219	220	231	244
1/10/2024	281	272	268	270	277	291	320	373	408
1/11/2024	321	305	298	291	293	300	322	365	389
1/12/2024	291	273	264	255	250	254	271	303	323
1/13/2024	247	229	221	209	207	213	228	251	275
1/14/2024	332	322	317	314	314	319	329	346	365
1/15/2024	324	320	320	324	332	344	360	384	404
1/16/2024	265	248	235	227	226	229	246	279	304
1/17/2024	443	441	443	451	465	483	515	557	585
1/18/2024	468	463	460	463	464	470	493	532	549
1/19/2024	315	302	291	275	270	271	285	312	325
1/20/2024	313	307	309	317	329	346	368	394	422
1/21/2024	425	421	423	429	437	449	465	486	509
1/22/2024	411	400	395	394	397	406	427	461	480
1/23/2024	272	251	239	233	231	233	249	288	317
1/24/2024	263	238	224	212	208	210	222	257	288
1/25/2024	263	246	229	214	204	205	218	252	282
1/26/2024	264	243	226	210	204	204	215	247	273
1/27/2024	255	237	226	214	204	202	204	213	224
1/28/2024	240	225	213	204	197	193	195	205	218
1/29/2024	264	250	242	240	242	249	270	309	339
1/30/2024	291	276	269	269	275	288	316	358	392
1/31/2024	297	288	277	265	265	270	288	326	352
2/1/2024	293	289	279	281	291	306	336	383	417
2/2/2024	286	279	267	255	256	264	285	324	351
2/3/2024	263	260	256	249	251	257	272	292	311

2/4/2024	241	227	218	213	211	211	217	227	242
2/5/2024	261	247	238	233	234	243	262	299	323
2/6/2024	282	262	253	251	254	263	289	339	370
2/7/2024	278	268	266	270	278	293	323	370	409
2/8/2024	295	277	269	268	274	286	313	364	394
2/9/2024	257	241	229	224	225	231	250	292	324
2/10/2024	242	228	220	213	207	208	215	228	241
2/11/2024	234	221	210	203	199	197	200	208	217
2/12/2024	254	234	216	205	201	202	212	239	259
2/13/2024	244	222	208	203	202	208	226	269	302
2/14/2024	287	277	272	264	265	277	305	354	396
2/15/2024	275	262	253	245	241	247	266	307	338
2/16/2024	249	236	224	218	217	224	240	274	310
2/17/2024	256	248	246	221	211	210	215	225	235
2/18/2024	263	254	249	247	247	252	262	278	296
2/19/2024	319	310	305	305	312	326	349	385	417
2/20/2024	323	302	300	303	312	330	363	412	456
2/21/2024	286	277	274	275	277	292	320	370	410
2/22/2024	270	260	254	255	259	272	297	343	381
2/23/2024	250	240	230	220	212	213	227	262	283
2/24/2024	240	229	220	213	211	214	225	244	264
2/25/2024	236	226	219	217	219	224	236	255	274
2/26/2024	248	236	230	232	237	250	276	321	349
2/27/2024	245	223	211	205	202	206	220	253	283
2/28/2024	246	228	216	206	200	201	213	244	261
2/29/2024	265	246	221	199	192	194	208	242	278
3/1/2024	256	240	219	211	204	208	220	255	280
3/2/2024	251	236	222	212	206	204	207	214	221
3/3/2024	243	227	212	203	197	195	196	203	211
3/4/2024	245	226	211	202	198	199	210	239	259
3/5/2024	258	232	217	206	201	201	212	245	271
3/6/2024	250	232	216	206	202	203	214	245	265
3/7/2024	253	236	223	205	197	197	209	242	257
3/8/2024	251	235	220	212	198	199	211	240	265
3/9/2024	272	255	241	221	213	211	216	223	233
3/10/2024	233	216	216	204	196	191	190	194	202
3/11/2024	230	215	205	201	202	208	222	249	277
3/12/2024	242	226	220	220	223	232	249	283	318
3/13/2024	212	201	196	195	200	213	243	276	284
3/14/2024	210	203	194	190	191	200	232	244	255

3/15/2024	216	201	193	189	189	197	217	257	246
3/16/2024	251	231	219	211	208	208	212	220	227
3/17/2024	241	223	211	202	197	196	201	208	218
3/18/2024	233	219	209	204	204	210	230	253	258
3/19/2024	217	205	200	199	206	225	268	304	315
3/20/2024	241	234	237	230	238	259	300	339	355
3/21/2024	228	212	207	207	214	233	273	309	313
3/22/2024	228	207	198	193	193	204	235	268	278
3/23/2024	237	219	209	202	197	197	207	217	229
3/24/2024	220	208	200	195	193	196	206	217	232
3/25/2024	216	201	193	190	194	208	239	263	266
3/26/2024	227	210	200	195	195	204	242	274	283
3/27/2024	243	232	221	214	214	223	257	279	288
3/28/2024	239	224	210	202	201	210	248	265	272
3/29/2024	228	215	204	197	201	215	258	293	297
3/30/2024	231	218	202	197	197	202	215	226	242
3/31/2024	218	204	197	193	193	198	209	221	238
4/1/2024	231	215	205	200	199	206	226	244	256
4/2/2024	239	221	211	206	206	216	251	276	282
4/3/2024	276	257	243	236	237	250	287	312	312
4/4/2024	228	210	198	194	196	210	244	277	289
4/5/2024	222	212	203	199	202	216	248	278	289
4/6/2024	223	207	200	196	197	203	216	227	245
4/7/2024	218	207	201	197	197	202	213	224	241
4/8/2024	218	203	195	191	194	206	234	254	259
4/9/2024	225	209	200	195	196	206	233	252	259
4/10/2024	243	223	210	199	199	208	237	269	264
4/11/2024	250	234	223	218	219	228	250	272	285
4/12/2024	233	220	209	196	196	206	230	282	291
4/13/2024	234	222	206	197	196	199	210	222	237
4/14/2024	223	208	200	194	191	193	200	207	223
4/15/2024	232	212	201	195	195	204	230	248	258
4/16/2024	230	212	201	196	196	205	236	267	260
4/17/2024	260	243	220	200	198	206	236	262	274
4/18/2024	267	261	231	220	216	224	250	277	285
4/19/2024	263	244	230	219	216	223	252	274	289
4/20/2024	282	255	241	226	221	222	230	236	253
4/21/2024	266	247	235	226	222	221	227	233	249
4/22/2024	222	205	197	192	193	203	228	228	254
4/23/2024	217	204	196	193	194	206	243	294	277

4/24/2024	233	210	197	193	193	204	238	269	275
4/25/2024	247	220	207	200	200	209	244	265	281
4/26/2024	260	249	238	214	212	218	247	268	283
4/27/2024	275	255	233	223	216	215	221	228	247
4/28/2024	255	236	223	214	208	207	211	215	232
4/29/2024	251	232	218	210	208	216	240	255	267
4/30/2024	250	231	220	213	211	219	249	273	281
5/1/2024	277	267	241	233	232	241	272	290	302
5/2/2024	308	291	252	238	234	242	268	296	310
5/3/2024	312	285	259	244	241	247	272	299	307
5/4/2024	297	280	257	247	242	242	248	254	268
5/5/2024	262	243	231	222	217	215	218	223	248
5/6/2024	278	257	244	239	241	249	273	289	301
5/7/2024	270	249	236	228	225	232	258	283	293
5/8/2024	301	278	258	240	236	243	267	294	306
5/9/2024	306	285	267	255	252	261	287	311	327
5/10/2024	298	287	268	250	253	266	293	115	109
5/11/2024	152	141	136	134	132	131	129	133	144
5/12/2024	186	171	163	159	154	153	154	159	171
5/13/2024	222	209	198	192	198	200	214	229	241
5/14/2024	226	214	206	203	203	211	225	237	253
5/15/2024	260	242	231	226	222	231	253	270	289
5/16/2024	284	260	246	236	232	238	258	275	294
5/17/2024	297	273	258	250	249	259	282	298	300
5/18/2024	263	250	240	235	231	242	252	261	280
5/19/2024	257	241	229	221	216	215	217	225	251
5/20/2024	277	254	238	228	224	232	252	272	286
5/21/2024	252	233	221	213	211	218	238	258	276
5/22/2024	270	249	235	226	223	229	249	269	282
5/23/2024	279	256	240	232	229	235	257	278	292
5/24/2024	300	277	261	251	247	252	270	287	305
5/25/2024	306	284	268	257	250	249	251	259	281
5/26/2024	311	288	271	260	253	252	254	261	284
5/27/2024	311	288	272	261	255	254	256	263	293
5/28/2024	336	314	284	259	254	258	271	285	305
5/29/2024	305	277	258	247	242	246	260	278	297
5/30/2024	283	260	243	233	229	234	250	266	283
5/31/2024	290	265	249	242	239	243	256	273	297
6/1/2024	307	280	260	246	238	236	236	241	265
6/2/2024	274	258	246	238	233	232	233	238	258

6/3/2024	294	272	257	249	249	257	271	288	307
6/4/2024	291	269	255	246	246	253	273	293	313
6/5/2024	312	288	270	260	255	263	279	298	319
6/6/2024	308	286	270	260	257	262	278	297	321
6/7/2024	326	304	287	278	273	281	296	315	339
6/8/2024	358	328	306	288	273	265	257	263	289
6/9/2024	316	290	270	256	246	242	239	246	273
6/10/2024	350	321	302	290	286	291	303	322	350
6/11/2024	358	333	316	305	300	303	316	330	347
6/12/2024	333	305	286	274	269	273	286	305	331
6/13/2024	341	313	294	284	281	289	306	323	345
6/14/2024	335	310	293	283	278	281	291	307	331
6/15/2024	337	314	296	283	276	275	273	282	311
6/16/2024	369	345	325	310	300	295	292	300	328
6/17/2024	310	290	278	270	270	278	291	310	329
6/18/2024	320	294	278	269	265	271	284	300	322
6/19/2024	334	315	303	294	290	294	303	312	328
6/20/2024	315	292	275	264	259	268	286	301	317
6/21/2024	331	304	283	269	261	263	271	285	310
6/22/2024	337	312	293	280	271	269	268	276	307
6/23/2024	380	353	333	317	305	299	294	298	326
6/24/2024	373	346	329	317	314	318	327	342	369
6/25/2024	356	332	318	309	305	310	323	340	365
6/26/2024	380	357	342	332	329	333	347	363	379
6/27/2024	342	321	306	297	296	304	316	335	360
6/28/2024	343	323	309	298	296	300	310	324	351
6/29/2024	337	314	298	286	279	279	278	284	309
6/30/2024	337	316	300	286	277	274	273	277	299
7/1/2024	339	320	308	300	299	304	315	331	353
7/2/2024	348	324	309	302	302	310	325	341	355
7/3/2024	328	308	296	287	285	294	308	325	344
7/4/2024	355	334	318	305	297	292	292	297	324
7/5/2024	368	346	328	315	310	310	312	320	347
7/6/2024	371	347	330	318	309	306	300	302	326
7/7/2024	350	331	317	307	299	296	297	303	332
7/8/2024	334	315	301	293	293	297	309	326	354
7/9/2024	338	315	300	291	289	295	310	328	354
7/10/2024	354	330	314	305	303	309	324	337	355
7/11/2024	338	317	301	293	290	294	307	320	334
7/12/2024	336	312	294	282	278	283	295	309	326

7/13/2024	344	323	306	294	284	281	280	284	314
7/14/2024	350	328	313	301	291	288	286	289	315
7/15/2024	369	344	328	314	315	317	330	344	368
7/16/2024	333	308	292	284	281	285	298	314	339
7/17/2024	347	325	310	301	297	301	316	329	359
7/18/2024	323	304	290	280	277	283	298	314	339
7/19/2024	327	305	289	282	280	284	299	312	338
7/20/2024	337	313	294	282	274	274	276	281	310
7/21/2024	296	281	269	261	256	256	258	263	284
7/22/2024	318	299	285	277	274	278	293	309	333
7/23/2024	316	297	284	277	274	279	294	310	333
7/24/2024	342	320	303	291	285	289	302	316	333
7/25/2024	330	311	298	292	290	298	316	330	349
7/26/2024	318	296	281	273	271	276	289	301	320
7/27/2024	348	325	307	294	284	281	283	286	306
7/28/2024	333	312	296	284	277	274	275	277	301
7/29/2024	328	308	293	286	286	293	309	323	344
7/30/2024	316	297	284	276	275	281	298	312	333
7/31/2024	303	284	272	266	265	273	291	306	325
8/1/2024	308	291	279	272	270	275	293	308	330
8/2/2024	383	355	337	325	322	325	338	349	374
8/3/2024	332	313	299	290	286	287	291	296	320
8/4/2024	338	314	297	285	278	276	279	284	304
8/5/2024	314	295	281	276	275	276	281	284	286
8/6/2024	285	271	264	260	260	268	286	303	324
8/7/2024	352	328	312	302	296	301	314	324	355
8/8/2024	385	353	329	313	310	315	333	352	373
8/9/2024	382	356	340	330	327	331	349	362	384
8/10/2024	357	334	311	292	287	289	294	299	324
8/11/2024	314	299	289	282	278	279	283	289	314
8/12/2024	323	306	296	291	288	295	314	326	342
8/13/2024	361	333	314	302	296	301	322	348	364
8/14/2024	371	345	323	310	304	309	337	348	368
8/15/2024	370	346	326	312	307	314	342	357	371
8/16/2024	360	336	311	292	286	291	319	330	349
8/17/2024	344	311	293	271	262	258	260	262	284
8/18/2024	349	325	306	292	283	280	282	284	306
8/19/2024	364	338	321	310	303	307	325	334	345
8/20/2024	336	314	298	288	284	289	318	335	347
8/21/2024	334	309	286	270	266	273	296	321	334

8/22/2024	373	346	314	300	295	302	331	351	351
8/23/2024	329	304	284	269	265	271	290	302	314
8/24/2024	333	310	289	270	262	261	267	272	285
8/25/2024	336	311	293	280	272	270	272	274	295
8/26/2024	355	332	317	306	304	308	330	343	354
8/27/2024	347	321	306	297	295	302	323	338	350
8/28/2024	362	340	319	307	303	309	331	345	362
8/29/2024	352	326	308	296	291	295	315	328	344
8/30/2024	363	319	293	281	276	284	304	318	337
8/31/2024	361	335	318	304	294	290	291	294	315
9/1/2024	348	327	310	297	288	283	284	284	309
9/2/2024	353	331	314	301	293	290	292	293	314
9/3/2024	393	363	341	326	319	323	343	355	374
9/4/2024	359	329	309	297	292	299	324	336	347
9/5/2024	332	312	294	287	285	294	325	351	356
9/6/2024	332	313	298	282	281	291	320	356	349
9/7/2024	293	285	273	262	259	262	268	277	289
9/8/2024	295	280	271	264	259	259	264	271	285
9/9/2024	300	283	272	268	269	279	303	319	325
9/10/2024	289	272	259	252	251	261	292	327	329
9/11/2024	310	286	277	265	265	276	310	351	359
9/12/2024	311	297	287	271	272	285	316	343	351
9/13/2024	312	293	277	262	263	271	303	338	341
9/14/2024	306	289	276	261	259	263	272	281	297
9/15/2024	312	296	283	273	267	266	268	272	283
9/16/2024	306	284	271	262	260	268	290	306	310
9/17/2024	283	262	248	240	238	246	277	299	335
9/18/2024	298	282	268	260	259	267	304	335	343
9/19/2024	303	276	257	245	244	253	290	312	339
9/20/2024	321	305	279	257	255	263	298	323	324
9/21/2024	331	310	292	271	262	260	263	267	285
9/22/2024	320	295	276	262	252	248	250	253	271
9/23/2024	318	294	277	266	263	269	292	309	321
9/24/2024	339	312	294	285	279	285	307	320	331
9/25/2024	327	304	290	282	280	289	313	328	341
9/26/2024	290	274	264	258	259	265	274	281	288
9/27/2024	192	173	160	151	149	150	155	158	172
9/28/2024	242	226	216	210	206	206	209	211	223
9/29/2024	282	263	249	240	234	233	236	242	253
9/30/2024	298	275	261	253	253	261	284	299	312

10/1/2024	315	293	278	268	266	274	299	315	322
10/2/2024	290	269	254	245	241	248	270	287	297
10/3/2024	289	266	251	243	242	250	270	288	301
10/4/2024	317	296	281	271	269	276	298	314	321
10/5/2024	310	292	280	270	262	262	268	275	286
10/6/2024	311	294	281	272	265	263	267	275	285
10/7/2024	276	259	246	240	240	250	276	297	303
10/8/2024	273	252	238	230	227	235	266	292	299
10/9/2024	283	266	248	241	242	252	286	312	321
10/10/2024	248	231	211	203	203	212	243	264	270
10/11/2024	242	233	211	201	200	208	239	261	265
10/12/2024	235	216	200	195	192	194	201	209	222
10/13/2024	224	210	201	195	191	191	198	207	221
10/14/2024	233	216	205	200	201	211	236	256	263
10/15/2024	255	230	215	205	202	210	236	258	263
10/16/2024	244	228	209	201	198	206	233	254	264
10/17/2024	220	210	196	193	197	211	245	278	283
10/18/2024	229	217	208	205	210	225	256	283	291
10/19/2024	226	211	199	195	193	196	205	216	228
10/20/2024	221	207	198	192	189	191	197	206	221
10/21/2024	220	205	196	191	192	201	224	246	255
10/22/2024	228	212	202	197	197	208	236	269	274
10/23/2024	260	243	223	214	211	220	251	278	277
10/24/2024	254	235	216	205	204	213	240	276	277
10/25/2024	269	241	226	213	211	219	246	273	279
10/26/2024	268	253	230	218	213	213	219	226	237
10/27/2024	253	235	224	215	209	208	212	219	229
10/28/2024	251	232	221	215	215	226	253	276	281
10/29/2024	247	230	218	211	210	218	243	265	289
10/30/2024	261	243	229	224	225	235	264	290	310
10/31/2024	278	259	242	227	224	234	260	279	282
11/1/2024	278	271	237	224	221	228	248	267	274
11/2/2024	294	271	238	227	221	219	224	233	241
11/3/2024	269	237	228	223	220	221	227	239	265
11/4/2024	261	245	235	230	230	239	264	280	291
11/5/2024	274	257	247	240	239	249	281	308	316
11/6/2024	297	279	265	258	257	269	303	342	349
11/7/2024	285	270	261	256	257	269	301	331	341
11/8/2024	292	277	266	261	261	270	299	316	330
11/9/2024	284	265	253	243	239	240	246	252	273

11/10/2024	271	256	246	237	233	234	239	244	261
11/11/2024	266	250	240	235	235	241	254	264	280
11/12/2024	262	248	239	235	235	246	276	305	319
11/13/2024	265	248	237	232	232	242	268	283	291
11/14/2024	250	233	222	217	216	225	252	285	300
11/15/2024	247	233	214	207	205	213	239	262	266
11/16/2024	223	216	201	195	194	199	207	217	233
11/17/2024	218	207	201	197	196	199	206	215	232
11/18/2024	219	206	199	196	199	211	238	256	264
11/19/2024	230	216	207	202	202	213	240	259	271
11/20/2024	241	230	222	218	220	233	262	282	293
11/21/2024	218	203	195	192	195	209	240	264	270
11/22/2024	239	230	225	225	231	249	283	307	310
11/23/2024	258	252	250	250	256	267	282	298	308
11/24/2024	245	240	238	240	245	256	271	287	298
11/25/2024	227	219	216	217	223	238	265	286	291
11/26/2024	218	207	200	198	202	212	233	250	260
11/27/2024	226	212	203	198	198	205	220	233	247
11/28/2024	233	222	215	211	210	213	222	231	250
11/29/2024	209	199	192	188	189	194	205	216	229
11/30/2024	284	280	280	282	288	300	319	337	349
12/1/2024	328	325	327	331	339	352	369	386	392
12/2/2024	303	299	300	307	323	348	393	423	417
12/3/2024	318	315	316	322	334	359	400	423	409
12/4/2024	367	369	375	386	403	432	478	503	487
12/5/2024	319	310	304	302	306	319	343	352	342
12/6/2024	232	222	220	225	240	267	314	350	362
12/7/2024	351	353	359	367	379	394	417	437	442
12/8/2024	319	315	315	317	324	336	354	369	377
12/9/2024	256	246	242	241	246	261	293	311	309
12/10/2024	228	216	209	206	208	219	248	268	271
12/11/2024	242	229	221	218	220	227	250	269	271
12/12/2024	296	294	298	308	325	354	400	428	425
12/13/2024	331	329	330	336	349	369	403	421	409
12/14/2024	252	244	241	240	244	251	265	279	289
12/15/2024	222	212	206	202	201	205	214	225	238
12/16/2024	220	211	207	207	213	228	258	278	278
12/17/2024	221	210	203	201	204	214	240	259	262
12/18/2024	226	215	207	203	205	214	240	261	267
12/19/2024	219	208	202	200	201	211	238	255	261

12/20/2024	225	216	213	212	218	234	269	296	304
12/21/2024	261	257	260	267	278	295	318	342	361
12/22/2024	323	323	327	331	337	349	369	393	407
12/23/2024	303	302	303	308	319	334	359	377	384
12/24/2024	273	267	267	266	270	279	294	307	316
12/25/2024	262	253	249	249	254	262	274	286	298
12/26/2024	240	231	225	223	229	239	254	267	273
12/27/2024	226	220	218	219	225	236	254	269	277
12/28/2024	220	210	203	199	199	203	210	217	226
12/29/2024	220	210	203	198	197	198	204	211	227
12/30/2024	214	205	201	201	207	220	243	264	275
12/31/2024	226	219	217	217	221	229	243	255	261

Hourly System Load (MW)										
10	11	12	13	14	15	16	17	18	19	20
311	303	286	272	261	253	248	246	249	261	277
385	377	357	335	316	300	287	282	287	309	341
408	390	368	354	333	329	324	332	335	349	363
399	387	362	341	323	307	297	289	291	307	337
413	387	361	329	308	292	279	274	273	282	297
235	245	251	254	257	258	258	259	261	266	280
295	313	318	317	315	310	305	301	305	322	347
371	372	371	366	360	352	339	323	327	349	371
247	253	262	247	250	258	265	270	278	289	316
414	403	374	358	336	321	307	309	310	326	362
386	375	367	349	327	313	296	294	287	305	333
321	332	328	325	313	307	302	300	299	302	311
302	326	333	324	315	306	299	295	298	316	345
381	386	365	336	314	295	283	276	278	290	318
407	385	357	328	305	292	283	276	279	290	313
304	305	307	315	324	324	320	327	348	383	431
590	565	528	490	456	420	404	384	387	425	465
535	493	447	410	366	337	322	316	323	341	366
322	312	302	291	284	277	273	272	283	292	316
445	448	432	410	386	366	350	345	352	375	414
525	517	492	459	432	405	386	372	374	395	431
472	447	416	380	345	319	305	301	300	325	345
317	314	311	311	306	305	299	298	295	306	329
286	292	293	297	303	301	304	308	304	309	330
286	291	300	303	309	308	303	304	300	308	330
281	289	295	302	307	310	306	308	305	309	318
238	254	271	284	293	297	294	289	289	297	298
237	254	262	264	265	265	264	265	268	276	298
340	334	323	310	296	285	282	278	281	307	320
391	369	341	318	302	298	283	282	285	290	322
348	332	313	298	288	278	272	272	282	287	320
408	380	345	320	298	284	277	273	273	283	310
352	336	319	301	287	277	271	278	287	286	293
326	317	296	278	267	260	257	257	258	264	279

258	275	285	292	296	295	283	278	278	288	307
323	319	309	294	287	279	275	278	291	323	348
365	349	331	312	296	290	284	285	282	286	310
396	373	348	324	303	295	285	286	278	290	320
388	363	332	305	291	280	274	284	278	281	300
324	314	302	293	286	285	284	283	278	276	286
256	261	261	262	263	264	263	265	267	268	279
232	248	257	268	276	283	287	292	296	302	305
265	276	283	289	294	293	293	299	295	296	320
310	299	294	287	279	274	269	268	273	288	309
384	355	323	302	292	288	284	283	284	286	303
330	316	301	297	287	285	276	281	281	279	296
308	297	286	280	286	296	284	293	291	282	295
250	264	272	274	275	272	270	270	273	281	293
318	335	340	343	346	345	337	328	326	331	349
413	381	350	326	307	292	284	282	281	302	324
433	387	349	313	302	291	284	278	282	286	307
394	355	336	302	293	285	281	282	279	282	301
364	340	318	303	292	281	281	280	276	276	291
289	292	290	291	299	300	291	288	283	291	300
279	278	269	264	259	256	255	256	258	262	270
288	286	274	265	261	259	258	260	267	273	282
343	319	296	283	275	274	272	274	278	289	302
281	281	283	278	279	280	282	289	293	299	316
266	271	280	294	309	309	314	323	317	334	332
283	285	288	279	276	284	282	282	275	283	306
285	294	292	296	296	294	288	290	280	280	293
237	254	267	277	284	286	286	283	284	286	294
229	246	259	270	287	303	310	309	309	309	311
266	272	277	282	287	297	307	316	318	318	330
274	283	288	291	293	301	282	286	292	299	308
268	278	293	305	312	322	326	331	329	338	335
263	270	298	288	303	315	324	326	322	318	322
275	282	286	293	306	313	320	322	316	320	316
252	271	287	289	283	281	288	291	291	286	291
212	226	234	239	240	243	245	244	245	247	251
288	289	284	274	265	258	252	253	251	257	257
327	310	299	275	266	269	260	262	265	274	282
274	265	264	264	268	268	272	262	266	269	274
263	258	263	287	281	290	306	304	315	316	312

272	269	276	299	305	315	342	331	338	325	327
241	260	279	294	311	326	343	355	358	349	338
235	251	267	281	299	313	321	327	327	321	311
265	272	276	278	282	285	287	290	292	290	294
313	309	296	285	287	273	267	268	270	276	284
334	303	286	277	269	264	272	274	277	282	282
305	297	283	284	274	278	286	291	292	296	302
283	290	293	302	287	284	303	307	298	288	288
248	259	266	268	271	273	275	274	273	272	273
245	251	253	258	263	269	278	287	295	296	294
269	269	273	277	285	294	300	304	335	324	317
287	298	313	292	294	297	300	302	306	313	329
304	300	315	304	301	303	309	294	312	320	310
273	282	290	279	283	305	313	304	324	304	325
291	293	298	281	270	280	300	292	299	313	279
253	254	254	257	260	264	271	283	292	293	284
249	252	255	260	269	276	285	294	302	303	300
268	281	289	297	304	310	315	316	326	325	323
290	303	314	322	321	329	335	335	338	337	344
311	316	320	312	297	296	288	290	290	299	300
286	280	281	277	273	277	276	281	282	289	289
283	284	274	279	282	282	284	290	295	297	287
253	253	251	250	249	251	256	262	269	272	268
250	251	254	258	263	268	277	287	300	304	300
265	271	277	284	292	297	297	301	317	318	312
285	307	307	328	327	326	341	322	325	335	333
295	306	320	326	326	350	365	351	337	346	345
300	317	330	340	346	358	365	367	366	348	333
292	285	276	281	309	322	335	315	316	316	306
248	253	257	260	265	272	283	295	305	307	299
240	253	267	282	299	317	335	352	358	349	332
269	282	292	304	319	333	358	370	386	370	351
274	297	310	317	326	340	364	375	385	385	367
287	303	323	343	363	384	400	402	417	410	387
303	321	323	344	360	364	368	365	395	389	381
305	312	331	350	374	404	424	436	446	429	406
274	289	314	341	363	378	392	402	396	388	374
273	292	303	311	321	325	315	307	302	295	290
260	263	267	270	274	277	286	291	311	312	307
284	278	279	291	300	305	307	322	331	332	324

278	285	292	301	313	332	338	347	361	356	345
294	314	328	345	362	379	395	401	413	392	382
303	338	346	365	386	405	409	404	407	387	369
270	291	306	320	335	341	338	336	336	334	327
256	278	299	317	333	346	358	367	374	370	359
284	302	322	338	353	367	383	391	411	404	386
298	318	342	368	381	399	410	412	405	388	375
321	335	358	373	398	420	440	461	465	450	444
327	360	391	416	443	459	468	476	478	480	458
334	371	401	415	416	408	418	429	448	436	406
293	323	354	382	404	415	404	400	398	389	371
280	309	340	367	387	398	407	418	426	415	397
318	335	354	380	408	424	432	412	388	408	394
315	340	367	392	419	434	446	457	456	449	434
328	350	384	418	440	461	473	483	481	472	454
348	375	403	431	462	481	499	512	488	429	400
110	112	114	112	110	114	126	132	143	148	165
160	178	190	202	215	227	241	258	277	273	268
182	193	199	209	221	235	253	271	285	287	296
253	267	279	271	278	277	283	274	282	277	273
265	273	290	315	343	373	397	393	376	368	357
308	332	356	378	400	420	441	450	453	444	423
315	339	364	390	415	436	457	469	472	465	442
306	316	334	357	383	408	423	426	417	399	384
305	324	333	327	312	306	303	298	303	307	307
279	304	330	355	376	393	412	426	432	426	410
297	310	322	333	339	345	353	366	376	382	373
295	315	333	352	369	386	406	422	427	421	405
299	320	346	374	400	426	447	459	460	451	429
321	352	380	411	439	462	478	487	477	461	437
324	355	382	410	433	452	462	458	456	449	430
311	345	378	406	433	445	456	463	458	446	427
317	350	385	421	448	467	483	492	493	477	452
327	358	391	427	453	461	471	481	478	467	452
335	366	401	436	465	488	504	507	506	497	474
319	348	381	410	429	448	464	475	477	467	447
298	311	332	363	394	422	443	450	448	439	419
326	356	384	411	437	459	481	492	489	472	449
290	306	312	319	322	330	342	351	358	357	348
285	313	346	378	400	398	401	414	422	411	395

333	363	394	423	440	442	450	436	413	407	399
337	371	401	431	457	477	493	503	502	485	460
339	366	398	434	464	488	503	507	491	451	438
354	385	418	445	471	493	504	503	502	492	464
372	405	438	466	493	515	532	544	543	532	509
321	352	385	418	448	472	492	503	507	497	474
310	347	384	420	451	478	498	516	524	517	500
385	418	453	485	510	530	543	551	535	513	488
367	395	427	459	481	502	519	533	535	526	505
364	403	445	474	503	529	539	536	521	512	496
377	411	446	476	503	522	533	538	527	517	499
364	398	432	458	480	500	512	515	511	503	483
352	391	427	460	488	511	527	539	539	535	512
362	405	425	430	437	436	435	445	453	452	442
358	390	415	445	472	494	512	521	512	509	489
351	381	406	432	454	470	483	492	488	478	457
351	378	398	412	431	440	438	443	453	462	445
341	368	399	424	457	477	495	512	515	505	482
338	369	397	426	454	480	499	512	517	510	493
348	389	431	469	499	523	541	553	555	546	526
363	401	441	480	514	537	553	554	540	530	509
406	445	483	514	541	540	538	529	523	502	481
400	440	485	521	548	571	577	571	572	559	526
409	447	480	492	428	414	425	424	426	434	445
389	417	437	449	450	443	440	447	453	449	445
390	420	444	469	419	393	380	381	401	419	422
349	390	430	462	490	511	525	524	530	516	491
335	378	410	392	401	443	477	498	499	476	449
378	415	451	478	501	525	481	467	472	469	467
382	410	430	444	465	479	490	474	460	451	439
375	410	447	480	503	492	479	503	512	507	488
363	400	437	470	494	508	520	528	526	516	498
389	428	459	491	515	535	543	551	554	541	491
362	400	438	475	505	524	537	545	495	463	443
370	405	441	480	503	502	521	519	461	428	418
390	426	463	499	528	538	507	486	490	460	441
394	429	459	480	462	485	505	496	486	474	458
391	420	445	481	494	490	495	516	506	464	442
347	368	397	427	453	479	498	511	511	503	484
355	392	433	467	494	513	523	529	528	518	493

354	394	439	474	498	518	535	544	532	514	490
352	396	439	477	506	528	541	553	560	542	509
406	442	476	503	518	474	451	451	460	466	459
376	417	455	484	468	458	443	443	447	459	459
390	409	438	464	441	416	411	415	418	417	411
375	412	446	439	429	426	434	439	447	447	434
378	408	440	458	468	465	464	475	466	470	460
346	391	426	448	475	463	414	385	371	360	357
319	362	400	433	421	416	435	416	397	400	401
369	404	437	469	498	519	515	480	440	421	415
362	401	437	471	504	528	526	476	470	468	452
356	398	441	455	435	427	424	432	435	434	425
369	394	420	454	488	513	526	540	503	456	425
346	377	419	460	482	503	519	530	532	522	497
338	370	410	451	482	503	501	484	473	463	452
334	371	406	441	469	491	505	480	458	451	440
378	419	443	472	484	500	496	508	501	472	429
363	403	445	473	457	440	427	403	395	389	380
358	398	441	475	509	531	541	487	438	428	418
360	404	441	479	512	538	555	564	563	554	532
413	453	473	448	423	409	415	433	442	437	429
361	404	445	471	488	507	514	495	477	474	461
329	353	378	402	432	454	465	466	461	416	387
277	280	290	309	316	323	327	330	333	343	345
353	383	414	456	479	506	529	534	536	529	510
378	423	461	495	519	547	564	566	567	572	541
404	445	488	519	553	578	592	571	542	524	505
416	461	500	520	538	556	544	557	561	532	492
365	409	448	483	509	529	509	458	416	393	380
352	395	438	470	485	497	475	437	422	416	410
369	405	442	477	507	530	549	553	563	553	523
393	430	460	500	520	541	562	569	567	557	532
403	434	474	511	537	552	564	572	560	553	533
398	433	463	492	508	531	543	550	549	542	516
379	412	439	460	501	519	537	534	536	523	496
322	361	398	433	466	492	513	527	530	521	497
346	392	430	466	499	527	551	564	559	550	524
373	404	442	479	496	504	519	530	533	540	503
377	401	440	472	498	521	539	543	544	542	511
366	407	442	474	507	519	545	555	558	548	517

369	384	407	432	462	484	490	504	510	496	468
337	369	396	422	445	467	484	492	488	479	462
310	336	364	385	418	437	457	476	486	481	461
330	365	401	434	460	471	478	498	514	504	483
374	396	425	451	475	495	515	541	538	525	507
376	417	457	485	509	539	570	562	548	537	517
394	430	469	520	551	573	594	593	572	560	543
376	411	452	490	522	545	550	562	527	494	491
366	399	437	473	505	525	542	556	565	547	511
355	394	432	462	487	507	520	527	521	506	481
343	379	419	456	487	512	527	538	539	527	502
356	406	458	499	531	551	564	573	576	567	539
401	432	462	497	519	549	554	557	550	537	510
370	391	417	421	432	450	469	475	465	452	451
364	372	400	410	413	421	432	424	429	422	419
372	370	364	365	370	361	356	354	362	362	359
311	329	343	352	366	376	364	358	360	362	362
305	322	338	352	362	374	384	391	400	391	387
335	346	359	368	374	373	371	373	395	398	397
347	362	386	415	436	444	445	442	431	412	406
359	375	384	382	406	395	380	380	377	378	397
359	376	374	370	375	380	408	399	413	418	413
356	360	362	373	373	374	387	389	380	376	369
316	337	363	385	415	444	447	442	446	432	410
305	329	351	366	378	387	402	412	415	413	409
317	332	343	354	368	371	378	393	432	433	412
331	355	404	427	443	448	450	421	405	400	399
371	397	424	456	482	460	449	453	443	406	400
359	389	413	433	469	494	506	494	492	476	450
355	393	420	437	474	511	529	509	510	489	461
318	352	385	417	446	466	480	484	482	466	439
304	337	376	415	450	476	492	502	504	491	468
349	383	418	455	488	511	528	534	531	546	521
359	393	424	454	484	509	521	529	534	517	494
355	369	383	395	412	420	418	415	411	405	401
302	314	319	322	324	322	325	330	330	330	334
189	212	242	259	276	301	330	354	352	338	336
248	277	314	343	369	390	406	405	413	402	383
276	307	338	369	401	422	437	444	445	437	428
337	364	394	422	449	470	486	491	480	472	459

336	349	357	372	394	410	419	422	419	414	411
317	341	368	396	423	442	458	464	456	440	426
327	350	367	392	422	442	448	446	443	433	428
337	354	379	409	431	443	447	445	429	413	405
304	327	355	386	406	412	411	402	393	385	385
303	315	327	336	345	345	345	349	353	355	357
322	341	362	386	407	423	439	444	440	425	415
317	334	364	392	408	425	432	443	439	419	408
332	337	342	340	339	333	329	329	322	324	329
290	297	310	323	341	357	372	373	372	360	356
278	287	299	305	315	332	346	354	353	337	319
237	249	260	270	281	294	307	320	324	316	309
239	255	270	285	301	318	336	351	359	350	342
280	299	320	343	368	393	418	435	438	420	410
269	278	283	296	305	325	342	343	357	351	354
266	271	273	273	276	280	287	286	293	287	301
284	285	276	278	274	272	277	276	289	287	301
291	283	277	275	279	281	295	296	302	293	298
242	251	258	265	274	284	297	306	308	302	300
236	247	258	270	282	292	305	316	320	314	314
264	271	279	288	299	309	324	332	342	343	336
288	303	317	339	354	373	384	393	398	385	385
294	311	325	342	361	376	389	393	398	385	373
291	303	322	340	357	377	395	409	404	387	391
292	311	331	354	375	399	416	419	407	392	375
259	281	307	333	357	377	392	401	396	375	360
250	274	302	330	352	377	395	405	403	385	378
290	299	307	319	334	347	363	369	383	379	379
299	311	326	332	336	350	373	377	371	361	361
321	361	345	357	371	389	409	424	411	393	390
296	323	357	382	395	411	423	420	409	384	375
299	325	340	355	382	401	414	406	406	388	372
264	291	319	341	360	370	380	386	384	372	365
291	314	338	358	374	382	383	381	379	381	370
306	320	343	366	380	389	395	390	382	410	391
330	352	379	415	432	440	436	420	409	419	407
333	342	369	392	374	395	405	407	402	408	394
345	359	396	413	420	431	418	422	412	416	408
349	366	378	398	418	419	426	425	407	399	383
302	325	347	362	367	367	366	363	362	366	355

284	310	322	338	350	351	349	349	354	357	345
297	316	338	352	353	347	346	348	357	368	362
335	347	348	362	378	373	370	368	372	382	392
297	309	321	338	358	369	371	363	363	371	362
298	307	319	326	335	343	335	328	334	351	348
270	292	298	298	310	313	310	304	305	305	292
244	252	259	266	272	279	283	285	285	290	281
244	254	265	279	289	296	301	305	306	314	305
271	279	294	301	306	312	312	312	313	324	318
289	305	316	318	321	324	327	324	328	334	327
306	319	326	329	341	349	350	343	333	336	323
273	272	271	270	270	268	271	275	284	304	304
305	297	289	280	275	271	272	274	285	300	299
304	292	280	268	260	255	254	257	268	283	282
291	277	268	262	261	259	261	264	275	286	284
286	280	278	279	283	284	284	285	288	300	294
268	277	286	292	294	295	299	298	302	310	303
259	269	277	286	293	296	299	298	300	306	298
270	289	311	322	319	316	313	302	288	284	272
245	253	260	265	270	272	272	276	289	304	306
345	331	316	299	287	277	274	280	297	316	324
368	336	316	300	289	282	280	287	307	331	338
387	356	334	318	306	298	294	300	321	352	360
381	356	335	320	311	306	306	319	345	382	395
444	398	363	338	318	307	303	310	331	361	369
336	327	310	296	287	281	281	285	296	309	307
361	353	341	326	314	307	306	314	334	358	366
417	380	351	330	311	298	293	295	312	333	337
359	331	311	297	288	280	277	280	298	318	318
310	306	304	299	294	289	288	291	307	317	313
277	282	289	293	293	292	291	292	303	319	318
275	275	275	274	275	274	277	282	299	325	332
401	376	352	332	317	307	303	308	327	355	367
384	355	329	308	292	283	280	281	290	303	300
287	277	269	264	261	261	260	261	270	281	276
251	258	261	262	261	260	262	267	279	294	291
277	273	272	273	277	279	282	283	288	304	301
267	272	276	279	282	288	294	295	299	313	308
272	278	280	283	286	286	292	295	298	310	304
268	274	278	283	285	284	281	281	284	297	293

303	297	286	277	271	267	266	267	278	295	297
360	349	328	310	293	283	280	285	301	326	332
387	353	323	303	287	276	272	277	295	319	327
377	352	332	311	296	283	276	278	292	312	314
320	313	299	287	278	271	265	266	275	284	282
301	295	282	267	258	246	240	241	250	267	271
282	286	283	276	266	260	258	258	268	283	282
284	287	284	279	272	266	262	262	270	283	280
239	248	254	257	259	260	262	263	268	279	276
234	240	247	251	254	255	257	262	268	281	277
274	268	262	261	260	260	262	264	268	281	277
265	264	264	267	269	272	274	277	281	289	282

21	22	23	24
277	270	266	257
350	351	347	338
356	347	333	314
347	349	344	332
294	287	275	262
277	270	261	250
352	349	337	319
359	350	329	296
322	318	307	295
371	368	357	338
339	335	324	307
309	296	280	264
354	355	352	343
329	334	334	328
319	316	301	283
454	459	459	442
486	492	489	482
367	363	348	326
326	325	324	320
430	438	438	432
444	449	441	427
349	337	324	301
331	322	304	283
325	321	309	281
331	323	301	280
315	298	290	276
294	283	271	256
309	305	295	282
330	335	331	308
337	333	326	310
331	327	326	308
337	331	326	302
310	305	282	277
282	276	267	255

315	307	296	280
352	338	321	304
320	316	309	300
331	327	324	303
304	297	284	274
288	285	271	256
283	274	262	248
297	286	277	260
314	308	286	272
328	322	312	300
314	314	300	286
303	301	290	267
300	304	289	271
297	292	285	274
357	353	344	332
343	342	338	337
323	322	313	299
311	311	301	287
301	298	288	273
292	279	266	255
278	271	260	248
294	289	278	263
313	299	282	267
321	310	287	266
339	337	316	288
320	302	284	267
297	289	278	265
299	289	276	260
320	308	291	270
338	325	309	283
315	308	299	272
344	326	305	284
335	317	295	270
315	310	299	286
290	279	265	250
255	264	257	245
264	282	278	257
282	270	251	225
272	262	246	228
310	285	265	234

320	307	294	270
330	309	286	263
309	295	276	253
305	287	262	238
299	293	275	261
290	288	271	241
300	293	276	251
299	289	267	252
279	269	253	236
302	288	264	235
322	304	280	260
331	319	292	264
314	303	278	258
314	298	276	246
281	277	261	245
283	272	255	237
303	292	274	252
328	313	289	263
344	330	315	295
305	290	271	249
297	281	260	241
284	284	254	240
272	262	248	233
302	288	264	240
315	302	289	256
331	314	290	264
335	316	294	271
333	314	285	256
304	291	266	249
294	282	262	242
328	315	287	257
342	320	296	263
353	330	300	281
389	362	329	295
373	357	330	296
398	376	349	312
361	342	318	291
293	285	265	241
308	290	271	240
317	303	277	257

350	329	299	273
366	356	331	292
358	349	322	306
326	317	299	277
351	336	308	278
374	354	323	283
378	368	340	308
419	401	367	331
432	405	379	342
401	388	366	325
346	329	310	285
385	368	339	306
383	366	338	308
428	409	370	326
438	417	367	329
388	370	352	318
178	185	175	162
254	240	219	204
295	284	271	244
277	276	260	242
352	345	317	286
405	386	352	316
419	398	364	328
380	356	297	282
308	307	295	276
389	371	340	307
358	342	313	281
382	363	332	299
404	380	345	310
417	397	365	330
408	391	365	336
410	396	370	340
425	404	371	339
440	423	394	364
446	422	385	344
415	389	351	314
402	386	358	322
423	403	373	335
340	334	316	296
385	376	352	321

389	377	350	319
436	414	379	343
421	405	371	339
435	417	387	357
478	455	427	393
441	415	380	348
475	453	419	383
469	451	421	388
477	452	411	369
474	443	411	376
469	443	407	370
452	428	396	366
485	462	430	399
428	398	364	336
461	435	394	354
436	423	395	365
426	411	379	345
452	429	398	363
464	440	404	369
497	477	446	412
486	470	440	407
464	449	418	386
497	482	450	412
438	429	400	368
436	423	396	370
413	406	387	362
464	427	390	361
433	419	397	367
452	438	408	377
422	410	384	354
465	445	413	382
469	444	418	395
469	457	430	402
426	416	396	372
411	406	385	356
430	418	392	365
446	436	410	382
426	417	392	365
455	434	401	367
460	435	401	371

463	440	408	379
484	465	431	399
445	432	405	367
448	436	408	375
406	397	375	349
420	403	378	352
438	420	395	365
353	352	335	316
397	389	365	340
405	395	370	342
438	425	398	368
414	403	379	353
406	391	369	344
471	446	411	377
437	419	389	359
418	403	378	353
412	393	368	341
375	370	349	325
407	387	358	332
509	487	452	416
415	404	381	355
447	431	400	367
373	363	347	333
345	345	327	306
487	453	417	382
508	480	440	420
497	490	477	421
467	446	413	380
376	369	354	335
407	399	374	347
501	477	441	400
505	475	434	398
505	479	440	404
491	466	432	393
471	444	401	377
471	444	412	379
502	470	434	400
471	445	404	366
478	439	406	370
499	477	442	404

455	426	390	359
441	419	388	362
441	419	391	363
467	446	417	385
490	471	436	390
499	470	423	396
514	478	444	391
479	458	412	380
483	464	440	405
461	434	403	375
476	447	412	380
515	491	457	428
495	477	433	403
438	420	391	360
421	400	381	352
359	352	330	318
360	349	331	313
388	372	350	323
382	373	350	321
403	378	353	332
395	380	357	332
414	399	368	337
372	362	349	323
399	376	352	330
406	388	360	332
397	377	347	317
397	382	357	326
403	383	359	337
450	426	385	345
436	411	382	355
417	391	365	344
450	418	384	349
498	459	417	376
471	437	398	359
386	361	335	311
324	306	277	225
323	304	280	259
368	347	324	301
415	388	357	325
442	411	379	344

404	377	348	319
411	383	351	318
419	396	368	341
392	374	353	331
378	362	345	328
356	341	322	299
401	366	336	307
397	372	345	311
323	312	282	261
345	323	293	266
307	289	272	257
298	279	260	241
330	308	282	255
392	367	329	288
337	318	295	264
301	279	265	238
300	286	267	242
284	271	256	241
290	274	256	238
303	284	263	240
330	308	284	255
373	345	325	284
357	339	301	278
366	341	319	283
358	335	311	285
337	316	293	273
359	335	306	277
357	334	307	274
347	332	307	283
371	354	327	313
358	342	322	294
352	341	322	316
351	334	314	292
353	333	307	282
373	346	321	295
389	367	343	317
378	359	336	307
387	363	338	313
372	353	325	304
338	324	306	288

332	317	302	283
348	330	308	283
371	339	316	288
348	324	295	270
335	314	286	261
284	266	251	232
269	257	245	231
293	276	257	236
305	288	269	248
317	300	276	258
308	288	264	240
298	285	268	252
295	289	280	269
279	273	264	255
277	265	253	238
285	270	253	235
293	279	262	243
290	278	265	248
261	251	237	222
306	304	297	289
329	331	331	332
341	334	323	311
359	352	339	326
398	391	379	369
368	360	345	331
299	285	266	247
367	363	359	355
342	342	335	327
314	303	286	269
304	286	266	245
309	297	279	260
333	326	316	304
371	366	352	340
296	288	277	264
270	261	249	235
283	271	254	235
292	276	257	237
298	284	265	243
290	274	257	237
286	273	256	239

297	292	282	271
338	338	333	327
329	327	319	310
311	306	295	284
282	282	277	271
273	270	262	252
276	265	251	238
272	261	247	233
268	259	246	234
268	256	242	227
271	260	249	236
269	257	242	230

TYSP Year 2025
Question No. 5

Year	Month	Actual Peak Demand	Demand Response Activated	Estimated Peak Demand	Day	Hour	System-Average Temperature
		(MW)	(MW)	(MW)			(Degrees F)
2024	1	590.48	0	590.48	17	9	52.5
	2	455.56	0	455.56	20	8	54.5
	3	357.96	0	357.96	16	18	62
	4	445.92	0	445.92	19	18	66
	5	511.79	0	511.79	9	17	77.5
	6	576.74	0	576.74	25	16	83.5
	7	559.53	0	559.53	14	18	86
	8	593.83	0	593.83	28	16	83.5
	9	576.44	0	576.44	2	18	83
	10	463.69	0	463.69	2	17	65
	11	439.99	0	439.99	5	15	60.5
	12	502.92	0	502.92	4	8	52.5
2023	1	461.56	0	461.56	15	9	55
	2	398.51	0	398.51	13	8	60.5
	3	437.37	0	437.37	21	8	60
	4	431.83	0	431.83	5	17	65
	5	490.54	0	490.54	10	17	72
	6	580.24	0	580.24	28	15	82
	7	580.68	0	580.68	20	16	86
	8	615.51	0	615.51	23	16	86.5
	9	547.17	0	547.17	7	17	76.5
	10	453.67	0	453.67	5	17	66.5
	11	459.34	0	459.34	30	8	57
	12	442.02	0	442.02	20	8	53
	1	538.22	0	538.34	30	9	40.5
	2	505.75	0	486.96	9	8	45.96
	3	387.41	0	387.51	13	10	45.8
	4	423.23	0	423.33	25	17	73.2
	5	517.5	0	517.57	19	17	78.89

2022	**6**	607.21	0	588.51	23	17	87.52
	7	571.48	0	590.24	7	17	86
	8	548.71	0	556.82	30	17	84.5
	9	551.29	0	569.94	6	18	83.5
	10	444.99	0	444.97	13	16	60
	11	423.74	0	441.78	7	16	61
	12	573.67	0	592.05	24	9	51
Notes							
(Include Notes Here)							

TYSP Year 2025
Question No. 18

Year	Number of PEVs	Number of Public PEV Charging Stations	Number of Public DCFC PEV Charging Stations	Cumulative Impact of PEVs		
				Summer Demand (MW)	Winter Demand (MW)	Annual Energy (GWh)
2025	2220	136	21	0.68	0.15	3.52
2026	2727	137	23	0.91	0.22	4.71
2027	3331	139	26	1.22	0.32	6.34
2028	3990	140	29	1.69	0.45	8.79
2029	4731	141	29	2.32	0.64	11.98
2030	5568	142	32	3.06	0.89	15.77
2031	6442	143	35	3.89	1.19	20.04
2032	7467	145	36	4.84	1.51	24.91
2033	8601	147	37	5.90	1.88	30.28
2034	9070	149	39	6.10	2.39	36.85
Notes						
Reported number of charging stations is not the number of charging ports, which would be higher. Stations<Chargers<Ports						

TYSP Year 2025
Question No 27

[Demand Response Source or All Demand Response Sources]									
Year	**Participating Customers**			**Available Capacity (MW)**					
				Summer			**Winter**		
	Start of Year	Lost	Added	Start of Year	Lost	Added	Start of Year	Lost	Added
2015	N/A. TAL is not a FEECA utility.								
2016									
2017									
2018									
2019									
2020									
2021									
2022									
2023									
2024									
Notes									
(Include Notes Here)									

TYSP Year 2025
Question No. 28

[Demand Response Source or All Demand Response Sou								
Year	Summer							
	Total Events	Customers Activated			Capacity Activated (MW)			Total Events
		Average Event	Max Event	Peak Day	Average Event	Max Event	Peak Day	
2015								
2016								
2017								
2018								
2019								
2020								
2021								
2022								
2023								
2024								

N/A. TAL is not a FEECA utility.

Notes

(Include Notes Here)

rces]					
Winter					
Customers Activated			Capacity Activated (MW)		
Average Event	Max Event	Peak Day	Average Event	Max Event	Peak Day

TYSP Year 2025
Question No. 29(a)

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW)					
							Gross		Net		Firm	
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win
A. B. Hopkins	2	Leon	CC	NG	6	2008	306	336	300	330	300	330
A. B. Hopkins	GT-3	Leon	IC	NG	9	2005	49	49	46	48	46	48
A. B. Hopkins	GT-4	Leon	IC	NG	11	2005	49	49	46	48	46	48
A. B. Hopkins	IC-1	Leon	IC	NG	3	2019	19	19	19	19	19	19
A. B. Hopkins	IC-2	Leon	IC	NG	2	2019	19	19	19	19	19	19
A. B. Hopkins	IC-3	Leon	IC	NG	2	2019	19	19	19	19	19	19
A. B. Hopkins	IC-4	Leon	IC	NG	2	2019	19	19	19	19	19	19
A. B. Hopkins	IC-5	Leon	IC	NG	4	2020	19	19	19	19	19	19
S. O. Purdom	8	Wakulla	CC	NG	7	2000	237	266	222	258	222	258
Substation 12	IC-1	Leon	IC	NG	10	2018	9.3	9.3	9.2	9.2	9.2	9.2
Substation 12	IC-2	Leon	IC	NG	10	2018	9.3	9.3	9.2	9.2	9.2	9.2
Notes												
(Include Notes Here)												

TYSP Year 2025
Question No. 29(b)

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW)					
							Gross		Net		Firm	
					Mo	Yr	Sum	Win	Sum	Win	Sum	Win
TAL has no planned generation within the planning period.												
Notes												
(Include Notes Here)												

TYSP Year 2025
Question No. 33

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Certification Dates (if Applicable)	
							Need	PPSA Certified
					Mo	Yr	(Commission)	
N/A TAL has no planned generation resources within the planning period.								
Notes								
(Include Notes Here)								

TYSP Year	2025
Question No.	34

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Final Decision ('Drop Dead') Date	Site Se
						Begins
TAL has no planned generation resources for in-service wit						
Notes						
(Include Notes Here)						

lection	Engineering / Permitting / Procurement		Constuction		Commercial In-Service Date
Ends	Begins	Ends	Begins	Ends	
thin the current planning period.					

TYSP Year 2025
Question No. 35

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service	
					Mo	Yr
A. B. Hopkins	CC 2	Leon	CC	NG	6	2008
A. B. Hopkins	GT 3	Leon	IC	NG	9	2005
A. B. Hopkins	GT 4	Leon	IC	NG	11	2005
A. B. Hopkins	IC 1	Leon	IC	NG	3	2019
A. B. Hopkins	IC 2	Leon	IC	NG	2	2019
A. B. Hopkins	IC 3	Leon	IC	NG	2	2019
A. B. Hopkins	IC 4	Leon	IC	NG	2	2019
A. B. Hopkins	IC 5	Leon	IC	NG	4	2020
S. O. Purdom	CC 8	Wakulla	CC	NG	7	2000
Substation 12	IC 1	Leon	IC	NG	10	2018
Substation 12	IC 2	Leon	IC	NG	10	2018
Notes						
(Include Notes Here)						

Unit Performance (%)						Average Net Operating Heat Rate (ANOHR)	
Planned Outage Factor (POF)		Forced Outage Factor (FOF)		Equivalent Availability Factor (EAF)			
Historic	Projected	Historic	Projected	Historic	Projected	Historic	Projected
3.40%	5.21%	0.40%	2.36%	96.20%	90.07%	7771	7900
0.30%	1.92%	2.10%	3.10%	97.60%	91.88%	11222	10000
0.50%	2.47%	1.60%	3.10%	97.90%	91.33%	10504	10000
2.90%	0.49%	2.00%	2.61%	95.10%	94.29%	8495	8800
1.30%	0.49%	2.20%	2.61%	96.50%	94.29%	8540	8800
1.10%	0.49%	0.50%	2.61%	98.40%	94.29%	8704	8800
1.00%	0.49%	0.70%	2.61%	98.30%	94.29%	8642	8800
0.40%	0.49%	0.20%	2.61%	99.40%	94.29%	8582	8800
3.60%	3.84%	0.20%	2.36%	96.20%	91.44%	7820	7900
0.00%	0.49%	2.20%	2.61%	97.80%	94.29%	8899	8800
0.10%	0.49%	2.40%	2.61%	97.50%	94.29%	8926	8800

TYSP Year 2025
Question No. 36

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Capacity Factor (%)										
							Actual	Projected									
					Mo	Yr	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
A. B. Hopkins	2	Leon	CC	NG	6	2008	53%	48%	48%	49%	49%	49%	49%	49%	49%	49%	49%
A. B. Hopkins	GT-3	Leon	IC	NG	9	2005	87%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
A. B. Hopkins	GT-4	Leon	IC	NG	11	2005	6%	3%	3%	3%	3%	3%	3%	3%	3%	3%	3%
A. B. Hopkins	IC-1	Leon	IC	NG	3	2019	45%	26%	26%	26%	26%	26%	26%	26%	26%	26%	26%
A. B. Hopkins	IC-2	Leon	IC	NG	2	2019	40%	24%	24%	24%	24%	24%	24%	24%	24%	25%	25%
A. B. Hopkins	IC-3	Leon	IC	NG	2	2019	35%	16%	16%	17%	17%	17%	17%	17%	17%	17%	17%
A. B. Hopkins	IC-4	Leon	IC	NG	2	2019	36%	20%	20%	20%	21%	21%	21%	21%	21%	21%	21%
A. B. Hopkins	IC-5	Leon	IC	NG	4	2020	31%	19%	19%	19%	19%	19%	19%	19%	19%	19%	19%
S. O. Purdom	8	Wakulla	CC	NG	7	2000	60%	63%	64%	64%	65%	65%	65%	65%	65%	65%	65%
Substation 12	IC-1	Leon	IC	NG	10	2018	18%	9%	9%	9%	9%	9%	9%	9%	9%	9%	9%
Substation 12	IC-2	Leon	IC	NG	10	2018	18%	9%	9%	9%	9%	9%	9%	9%	9%	9%	9%
Notes																	
(Include Notes Here)																	

TYSP Year 2025
Question No. 38

Facility Name	Unit No.	County Location	Solar Type	Energy Storage Type	Facility In-Service Date		Unit Capacity (MW)		
							Net		Fi
			(Fixed/Tracking)		Mo	Yr	Sum	Win	Sum
TAL has no utility-scale solar or storage facilities.									
Notes									
(Include Notes Here)									

rm	Land Use	Commission Approval		Cost Reocvery Mechanism
Win	(Acres)	Order No.	Approval Date	

TYSP Year 2025
Question No. 40

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Planned Modification (if any)
					Mo	Yr	
							TAL has no planned modifications.

Notes
(Include Notes Here)

Eligible Modifications			Potential Issues
Fuel Switching	Combined Cycle Conversion	Other (Explain)	

TYSP Year 2025
Question No. 41

Transmission Line	Line Length	Nominal Voltage	Certification Dates		In-Service Date
	(Miles)	(kV)	Need Approved	TLSA Certified	
TAL has no proposed transmission lines for the current planning period that require certification under the Transmission Line Siting Act.					
Notes					
(Include Notes Here)					

TYSP Year 2025
Question No. 42(a)

Contract Information								
Seller Name	Date Contract Approved	Contract Terms				Facility Name	Unit No.	County Location
		Firm Capacity (MW)		Delivery Dates				
		Sum	Win	Start	End			
FL Solar 1, LLC		0	0	12/17	12/37	SF1	1	Leon
FL Solar 4, LLC		0	0	12/19	12/39	SF4	4	Leon
Notes								
Gross and net capacity are expressed in MWac. Though not "contracted" as such, TAL assumes ~20% of FL Solar 1 and 4 (or 12 MW) as firm capacity at the time								

Provide If Associated with Specific Unit(s)									
Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW)					
				Gross		Net		Firm	
		Mo	Yr	Sum	Win	Sum	Win	Sum	Win
PV	Sun	12	2017	21.2	21.2	20	20	4	0
PV	Sun	12	2019	45	45	42	42	8.4	0

of summer peak for planning purposes.

TYSP Year 2025
Question No. 42(b)

Contract Information									
Seller Name	Date Contract Approved	Contract Terms				Facility Name	Unit No.	County Location	Unit Type
		Firm Capacity (MW)		Delivery Dates					
		Sum	Win	Start	End				
TAL has no planned PPAs.									
Notes									
(Include Notes Here)									

Provide If Associated with Specific Unit(s)								
Primary Fuel	**Commercial In-Service**		**Unit Capacity (MW)**					
			Gross		**Net**		**Firm**	
	Mo	Yr	Sum	Win	Sum	Win	Sum	Win

TYSP Year 2025
Question No. 45(a)

Contract Information									
Buyer Name	Date Contract Approved	Contract Terms				Facility Name	Unit No.	County Location	Unit Type
		Firm Capacity (MW)		Delivery Dates					
		Sum	Win	Start	End				
TAL has no existing PSAs.									
Notes									
(Include Notes Here)									

Provide If Associated with Specific Unit(s)								
Primary Fuel	**Commercial In-Service**		**Unit Capacity (MW)**					
			Gross		**Net**		**Firm**	
	Mo	Yr	Sum	Win	Sum	Win	Sum	Win

TYSP Year 2025
Question No. 45(b)

Contract Information									
Buyer Name	Date Contract Approved	Contract Terms				Facility Name	Unit No.	County Location	Unit Type
		Firm Capacity (MW)		Delivery Dates					
		Sum	Win	Start	End				
TAL has no planne									
Notes									
(Include Notes Here)									

Provide If Associated with Specific Unit(s)									
Primary Fuel	Commercial In-Service		Unit Capacity (MW)						Land Use
			Gross		Net		Firm		
	Mo	Yr	Sum	Win	Sum	Win	Sum	Win	(Acres)
d PSAs.									

TYSP Year 2025
Question No. 48

Renewable Source	Annual Renewable Generation (GWh)										
	Actual	Projected									
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Utility - Firm	0	0	0	0	0	0	0	0	0	0	0
Utility - Non-Firm	0	0	0	0	0	0	0	0	0	0	0
Utility - Co-Firing	0	0	0	0	0	0	0	0	0	0	0
Purchase - Firm	0	0	0	0	0	0	0	0	0	0	0
Purchase - Non-Firm	96	116	115	115	114	114	113	112	112	111	111
Purchase - Co-Firing	0	0	0	0	0	0	0	0	0	0	0
Customer - Owned	0	0	0	0	0	0	0	0	0	0	0
Total	96	116	115	115	114	114	113	112	112	111	111
Notes											
(Include Notes Here)											

TYSP Year 2025
Question No. 55

Facility or Project Name	Unit No.	County Location	Energy Storage Type	Battery Chemistry (if applicable)	Land Use	Facility In-Service or Project Start Date	
					(Acres)	Mo	Yr
TAL has no existing energy storage.							
Notes							
(Include Notes Here)							

Unit Capacity (MW)						Storage Capacity	Conversion Efficency
Gross		Net		Firm			
Sum	Win	Sum	Win	Sum	Win	(MWh)	(MWh)

TYSP Year 2025
Question No. 56

Facility or Project Name	Unit No.	County Location	Energy Storage Type	Battery Chemistry (if applicable)	Land Use	Facility In-Service or Project Start Date	
					(Acres)	Mo	Yr
TAL has no planned energy storage.							
Notes							
(Include Notes Here)							

Unit Capacity (MW)						Storage Capacity	Conversion Efficency
Gross		Net		Firm			
Sum	Win	Sum	Win	Sum	Win	(MWh)	(MWh)

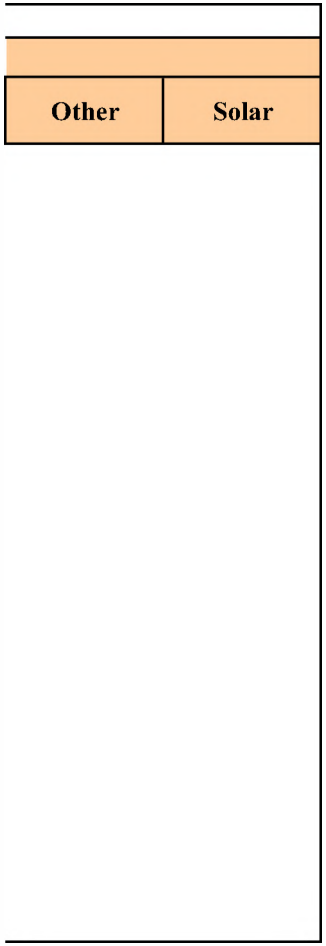
Loss of Load Probability, Reserve Margin, and Expected Unserved Energy						
Base Case Load Forecast						
Year	Loss of Load Probability (Days/Yr)	Annual Isolated Reserve Margin (%) (Including Firm Purchases)	Expected Unserved Energy (MWh)	Loss of Load Probability (Days/Yr)	Annual Assisted Reserve Margin (%) (Including Firm Purchases)	Expected Unserved Energy (MWh)
2025	9.66	21%	6515	0.36	21%	215
2026	7.54	21%	4559	0.23	21%	132
2027	7.32	22%	4385	0.2	22%	117
2028	17.33	22%	8110	0.66	22%	293
2029	7.57	23%	5789	0.31	23%	204
2030	7.03	23%	4619	0.24	23%	124
2031	7.18	24%	4846	0.25	24%	126
2032	7.66	24%	4936	0.39	24%	141
2033	7.86	25%	5299	0.29	25%	175
2034	7.08	25%	4284	0.22	25%	124

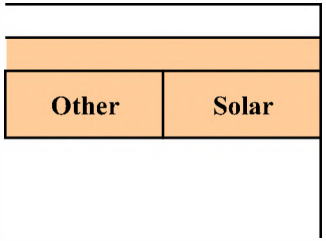
TYSP Year 2025
Question No. 60

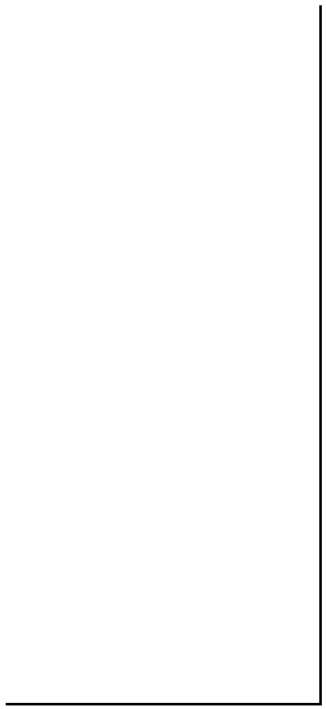
Peak Summer Day Hourly Dispatch (MW)										
Hour	Customer Oriented		Power Transactions		Energy Storage		Generation Resources			
	Load	Demand Response	Sales	Purchases	Charging	Discharging	Nuclear	Natural Gas	Coal	Oil
1	Not applicable. TAL is a municipal utility.									
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										

Peak Winter Day Hourly Dispatch (MW)										
Hour	Customer Oriented		Power Transactions		Energy Storage		Generation Resources			
	Total Load	Demand Response	Sales	Purchases	Charging	Discharging	Nuclear	Natural Gas	Coal	Oil
1										
2										
3										

4	
5	
6	
7	
8	
9	
10	
11	
12	Not applicable. TAL is a municipal utility.
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	


Other
Solar


Other
Solar



1

TYSP Year 2025

Question No. 64 e

Year	Estimated Cost of Standards of Performance for Greenhouse Gas Emissions Rule for New Sources Impacts (Present-Year $ millions)			
	Capital Costs	O&M Costs	Fuel Costs	Total Costs
2025	TAL has no units that are subject to the rule.			
2026				
2027				
2028				
2029				
2030				
2031				
2032				
2033				
2034				
Notes				
(Include Notes Here)				

TYSP Year 2025
Question No. 66

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW) Net	
					Mo	Yr	Sum	Win
Hopkins	2A	Leon	CC GT	NG	May	2008	300	330
Hopkins	HC3	Leon	SC GT	NG	July	2005	46	48
Hopkins	HC4	Leon	SC GT	NG	July	2005	46	48
Hopkins	IC1	Leon	IC	NG	December	2018	18.5	18.5
Hopkins	IC2	Leon	IC	NG	December	2018	18.5	18.5
Hopkins	IC3	Leon	IC	NG	December	2018	18.5	18.5
Hopkins	IC4	Leon	IC	NG	December	2018	18.5	18.5
Hopkins	IC5	Leon	IC	NG	April	2020	18.5	18.5
Purdom	8	Wakulla	CC GT	NG	May	2000	222	258
Substation 12	12 IC1	Leon	IC	NG	September	2018	9.2	9.2
Substation 12	12 IC2	Leon	IC	NG	September	2018	9.2	9.2
Notes								
Note 1 - No impact. Unit is not subject to this rule. Note 2 - Florida was exempted from this rule. No impact. Unit is not subject to this rule.								

Estimated EPA Rule Impacts: Operational Effects						
ELGS	ACE or replacement	MATS	CSAPR/ CAIR	CWIS	CCR	
					Non-Hazardous Waste	Special Waste
Note 1	Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 1	Note 2	Note 1	Note 1	Note 1

TYSP Year 2025
Question No. 67

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW)		ELGS
							Net		
					Mo	Yr	Sum	Win	
Hopkins	2A	Leon	CC GT	NG	May	2008	300	330	Note 1
Hopkins	HC3	Leon	SC GT	NG	July	2005	46	48	Note 1
Hopkins	HC4	Leon	SC GT	NG	July	2005	46	48	Note 1
Hopkins	IC1	Leon	IC	NG	December	2018	18.5	18.5	Note 1
Hopkins	IC2	Leon	IC	NG	December	2018	18.5	18.5	Note 1
Hopkins	IC3	Leon	IC	NG	December	2018	18.5	18.5	Note 1
Hopkins	IC4	Leon	IC	NG	December	2018	18.5	18.5	Note 1
Hopkins	IC5	Leon	IC	NG	April	2020	18.5	18.5	Note 1
Purdom	8	Wakulla	CC GT	NG	May	2000	222	258	Note 1
Substation 12	12 IC1	Leon	IC	NG	September	2018	9.2	9.2	Note 1
Substation 12	12 IC2	Leon	IC	NG	September	2018	9.2	9.2	Note 1
Notes									
Note 1 - No impact. Unit is not subject to this rule. Note 2 - Florida was exempted from this rule. No impact. Unit is not subject to this rule.									

Estimated EPA Rule Impacts: Cost Effects					
ACE or replacement	MATS	CSAPR/ CAIR	CWIS	CCR	
				Non-Hazardous Waste	Special Waste
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1

TYSP Year 2025
Question No. 68

Facility Name	Unit No.	County Location	Unit Type	Primary Fuel	Commercial In-Service		Unit Capacity (MW) Net		ELGS
					Mo	Yr	Sum	Win	
Hopkins	2A	Leon	CC GT	NG	May	2008	300	330	Note 1
Hopkins	HC3	Leon	SC GT	NG	July	2005	46	48	Note 1
Hopkins	HC4	Leon	SC GT	NG	July	2005	46	48	Note 1
Hopkins	IC1	Leon	IC	NG	December	2018	18.5	18.5	Note 1
Hopkins	IC2	Leon	IC	NG	December	2018	18.5	18.5	Note 1
Hopkins	IC3	Leon	IC	NG	December	2018	18.5	18.5	Note 1
Hopkins	IC4	Leon	IC	NG	December	2018	18.5	18.5	Note 1
Hopkins	IC5	Leon	IC	NG	April	2020	18.5	18.5	Note 1
Purdom	8	Wakulla	CC GT	NG	May	2000	222	258	Note 1
Substation 12	12 IC1	Leon	IC	NG	September	2018	9.2	9.2	Note 1
Substation 12	12 IC2	Leon	IC	NG	September	2018	9.2	9.2	Note 1
Notes									
Note 1 - No impact. Unit is not subject to this rule. Note 2 - Florida was exempted from this rule. No impact. Unit is not subject to this rule.									

Estimated EPA Rule Impacts: Unit Availability					
ACE or replacement	MATS	CSAPR/ CAIR	CWIS	CCR	
				Non-Hazardous Waste	Special Waste
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1
Note 1	Note 1	Note 2	Note 1	Note 1	Note 1

TYSP Year 2025
Question No. 70

Year		Firm Purchase Rates		Non-Firm Purchase Rates		As
		Annual Average ($/MWh)	Escalation Rate (%)	Annual Average ($/MWh)	Escalation Rate (%)	Annual Average ($/MWh)
Actual	2015			35.57		22.74
	2016			33.83	-5%	19.57
	2017	33.35		34.31	1%	19.52
	2018	35.02	5%	45.18	32%	22.22
	2019	36.77	5%	41.94	-7%	19.22
	2020	34.46	-6%	36.52	-13%	16.54
	2021	36.03	5%	45.5	25%	31.74
	2022	37.67	5%	109.8	141%	52.42
	2023	39.39	5%	53.71	-51%	25.04
	2024	41.19	5%	61.91	15%	21.74
Projected	2025	43.07	5%	63.7673	3%	22.3922
	2026	45.04	5%	65.680319	3%	23.063966
	2027	47.09	5%	67.65072857	3%	23.75588498
	2028	49.25	5%	69.68025043	3%	24.46856153
	2029	51.5	5%	71.77065794	3%	25.20261838
	2030	53.85	5%	73.92377768	3%	25.95869693
	2031	56.32	5%	76.14149101	3%	26.73745783
	2032	58.89	5%	78.42573574	3%	27.53958157
	2033	61.58	5%	80.77850781	3%	28.36576902
	2034	64.4	5%	83.20186305	3%	29.21674209

Notes

Firm purchases prior to 2017 were not available in the record. Disaggregation of on-peak vs off-peak not available at this time.

-Available Energy Rates	
On-Peak Average ($/MWh)	Off-Peak Average ($/MWh)

TYSP Year 2025
Question No. 71

Year		Uranium		Coal		Natural Gas		Residual Oil	
		GWh	$/MMBTU	GWh	$/MMBTU	GWh	$/MMBTU	GWh	$/MMBTU
Actual	2015	N/A	N/A	N/A	N/A	2704	4.44	N/A	N/A
	2016	N/A	N/A	N/A	N/A	2562	3.92	N/A	N/A
	2017	N/A	N/A	N/A	N/A	2635	3.79	N/A	N/A
	2018	N/A	N/A	N/A	N/A	2808	3.79	N/A	N/A
	2019	N/A	N/A	N/A	N/A	2900	3.53	N/A	N/A
	2020	N/A	N/A	N/A	N/A	2666	3.06	N/A	N/A
	2021	N/A	N/A	N/A	N/A	2764	3.74	N/A	N/A
	2022	N/A	N/A	N/A	N/A	2919	4.96	N/A	N/A
	2023	N/A	N/A	N/A	N/A	3053	3.58	N/A	N/A
	2024	N/A	N/A	N/A	N/A	2985	3.44	N/A	N/A
Projected	2025	N/A	N/A	N/A	N/A	2704	3.99	N/A	N/A
	2026	N/A	N/A	N/A	N/A	2754	4.20	N/A	N/A
	2027	N/A	N/A	N/A	N/A	2765	3.81	N/A	N/A
	2028	N/A	N/A	N/A	N/A	2781	3.66	N/A	N/A
	2029	N/A	N/A	N/A	N/A	2786	3.56	N/A	N/A
	2030	N/A	N/A	N/A	N/A	2796	3.44	N/A	N/A
	2031	N/A	N/A	N/A	N/A	2807	3.36	N/A	N/A
	2032	N/A	N/A	N/A	N/A	2818	3.39	N/A	N/A
	2033	N/A	N/A	N/A	N/A	2829	3.37	N/A	N/A
	2034	N/A	N/A	N/A	N/A	2846	3.47	N/A	N/A
Notes									
(Include Notes Here)									

Distillate Oil		Hydrogen		Other (Specify)	
GWh	$/MMBTU	GWh	$/MMBTU	GWh	$/MMBTU
0	NA	N/A	N/A	N/A	N/A
76.4	22.54	N/A	N/A	N/A	N/A
0	NA	N/A	N/A	N/A	N/A
1	23.09	N/A	N/A	N/A	N/A
0	NA	N/A	N/A	N/A	N/A
0.14	22.46	N/A	N/A	N/A	N/A
1.44	22.62	N/A	N/A	N/A	N/A
1	22.62	N/A	N/A	N/A	N/A
2	22.10	N/A	N/A	N/A	N/A
0	22.62	N/A	N/A	N/A	N/A
0	22.00	N/A	N/A	N/A	N/A
0	22.00	N/A	N/A	N/A	N/A
0	22.00	N/A	N/A	N/A	N/A
0	22.00	N/A	N/A	N/A	N/A
0	22.00	N/A	N/A	N/A	N/A
0	22.00	N/A	N/A	N/A	N/A
0	22.00	N/A	N/A	N/A	N/A
0	22.00	N/A	N/A	N/A	N/A
0	22.00	N/A	N/A	N/A	N/A
0	22.00	N/A	N/A	N/A	N/A
0	22.00	N/A	N/A	N/A	N/A

TYSP Year 2025
Question No. 77(a)

Table I: Current Data Center Inf

Data Centers Currently Located in Utili

Total No. of Data Centers	Customer Class Served	Total Energy Usage in 2024	Impact to Summer Peak Demand	Impact to Winter Peak Demand	Seasonality Observed, if any
		(MWHs)	(MWs)	(MWs)	
(1)	(2)	(3)	(4)	(5)	(6)

*** Examples of the data center types: colocation, enterprise, cloud, edge, and micro data.**

** Based on military time 1 - 24.

ɔrmation				
ty Service Area				
For each of the Data Centers				
	Type of Data Center*	Energy Used in 2024	Hours of Peak Usage**	Impact to Peak Demand
		(MWHs)		(MWs)
(7)	(8)	(9)	(10)	(11)
1	TAL is not a FEECA Utility.			
2				
3				
…				

TYSP Year 2025
Question No. 77(b)

Table II: Planned Data Center Information						
Planned Data Centers in Your Service Area						
	Type of Data Center*	**Customer Class Served**	**Expected In-Service Data**	**Expected Annual Energy Usage**	**Expected Impact to Summer Peak Demand**	**Expected Impact to Winter Peak Demand**
				(MWHs)	**(MWs)**	**(MWs)**
	(1)	**(2)**	**(3)**	**(4)**	**(5)**	**(6)**
1	TAL has no planned data centers.					
2						
3						
…						

*** Examples of the data center types: colocation, enterprise, cloud, edge, and micro data.**