Gulf Power

Robert L. McGee, Jr.
Regulatory & Pricing Manager
One Energy Place
Pensacola, FL 32520-0780
850 444 6530 tel
850 444 6026 fax
rlmcgee@southernco.com

October 12, 2016

VIA ELECTRONIC FILING

Ms. Carlotta Stauffer
Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Re: Petition for an increase in rates by Gulf Power Company, Docket No. 160186-EI

Re: Petition for approval of 2016 depreciation and dismantlement studies, approval of proposed depreciation rates and annual dismantlement accruals and Plant Smith Units 1 and 2 regulatory asset amortization by Gulf Power Company, Docket No. 160170-EI

Dear Ms. Stauffer:

Attached is Gulf Power Company's Minimum Filing Requirements Section F – Miscellaneous Schedules Volume Three.

(Document 29 of 29)

Sincerely,

Robert L. McGee, Jr.
Regulatory & Pricing Manager

BEFORE THE

FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 160186-EI

MINIMUM FILING REQUIREMENTS

SECTION F – MISCELLANEOUS SCHEDULES
VOLUME THREE

GULF POWER COMPANY

Docket No. 160186-EI
Minimum Filing Requirements

Index

F. Miscellaneous Schedules
Volume Three

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: Provide a copy of the "Business Contracts with Officers, Directors, and Affiliates" schedule included in the company's most recently filed Annual Report as required by Rule 25-6.135, Florida Administrative Code. Provide any subsequent changes affecting the test year.

Type of Data Shown:
___Projected Test Year Ended 12/31/17
___Prior Year Ended 12/31/16
_X_Historical Year Ended 12/31/15
Witness: X. Liu

(1) Line No.	(2) Name of Officer or Director	(3) Name and Address of Affiliated Entity	(4) Relationship With Affiliated Entity	(5) Amount of Contract or Transaction	(6) Description of Product or Service
1	See the attached schedule. Note the following change for subsequent years:				
2	Xia Liu elected effective June 1, 2015.				
3	Richard S. Teel transferred to an affiliate effective May 31, 2015.				

Business Contracts with Officers, Directors and Affiliates

Company:

For the Year Ended December 31, 2015

List all contracts, agreements, or other business arrangements* entered into during the calendar year (other than compensation-related to position with respondent) between the respondent and each officer and director listed in Part 1 of the Executive Summary. In addition, provide the same information with respect to professional services for each firm, partnership, or organization with which the officer or director is affiliated.

Note: * Business agreement, for this schedule, shall mean any oral or written business deal which binds the concerned parties for products or services during the reporting year or future years.

Name of Officer or Director	Name and Address of Affiliated Entity	Amount	Identification of Product or Service
J. Mort O'Sullivan, III	Warren Averett 316 S. Baylen St., Suite 300 Pensacola, FL 32502	1,065.00	Accounting Services

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: Supply a copy of all NRC safety citations issued against the company within the last two years, a listing of corrective actions and a listing of any outstanding deficiencies. For each citation provide the dollar amount of any fines or penalties assessed against the company and account(s) each are recorded.

Type of Data Shown:

_____ Projected Test Year Ended 12/31/2017

_____ Prior Year Ended 12/31/2016

__X__ Historical Year Ended 12/31/2014-12/31/15

Witness: M. L. Burroughs

Line No.	
1	Not applicable. Gulf has no nuclear facilities.

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: If a projected test year is used, provide a brief description of each method or model used in the forecasting process. Provide a flow chart which shows the position of each model in the forecasting process.

Type of Data Shown:
X Projected Test Year Ended 12/31/17
_ Prior Year Ended 12/31/16
_ Historical Year Ended 12/31/15
Witness: J. J. Mason, J. K. Park, M. L. Burroughs

Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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Type of Data Shown:
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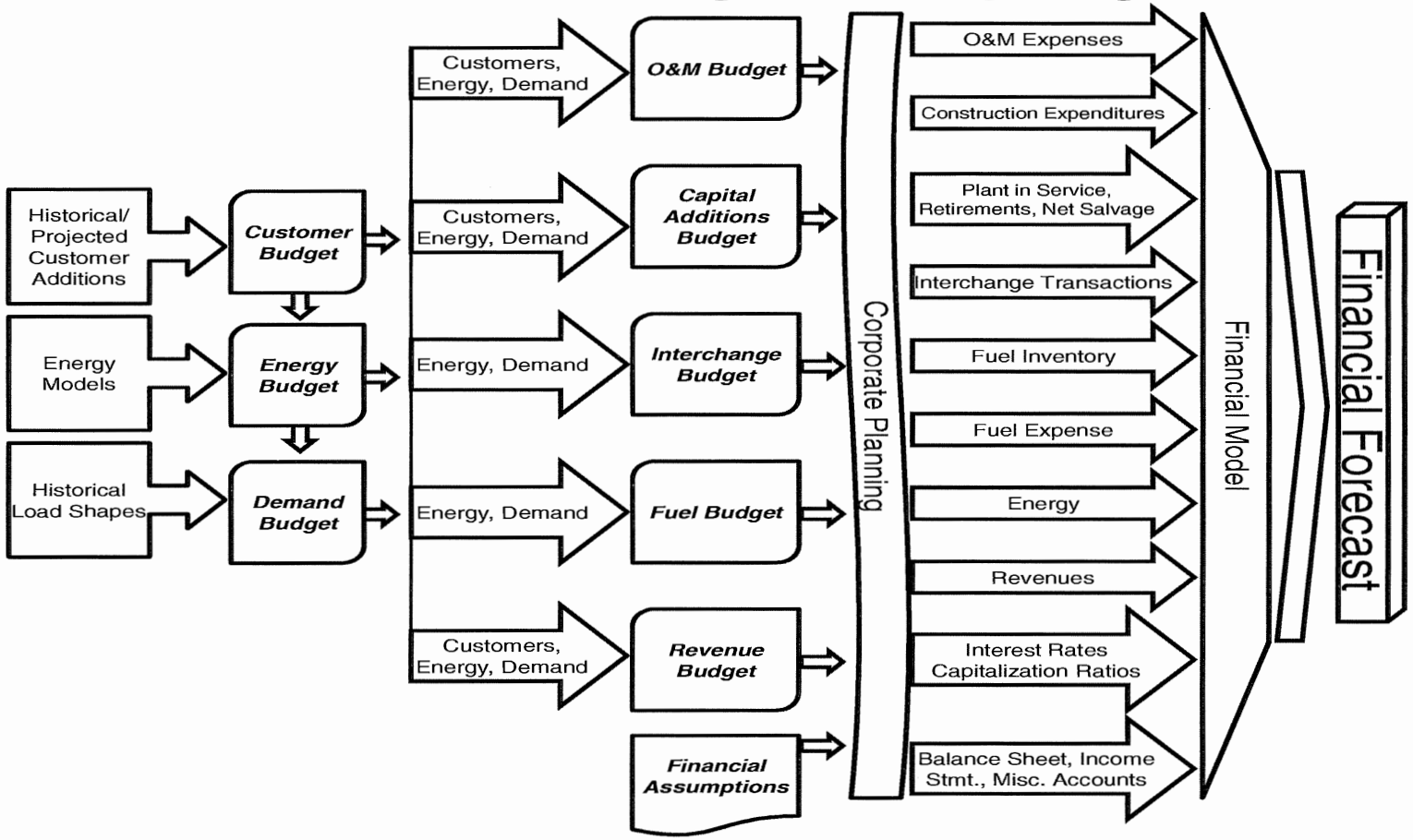
_ Prior Year Ended 12/31/16
_ Historical Year Ended 12/31/15
Witness: J. J. Mason, J. K. Park, M. L. Burroughs

Gulf Power Planning and Budgeting Process



Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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_ Historical Year Ended 12/31/15
Witness: J. J. Mason, J. K. Park, M. L. Burroughs

I. OVERVIEW

This schedule describes the process Gulf Power uses in developing its annual financial forecast. The financial forecast is comprised of eight component budgets which are used by management to assess departmental performance and to control the Company's operations and activities. Gulf's financial forecast is a logically developed and detailed tool that management uses in making decisions affecting the future direction of the Company.

Gulf's forecasting process is outlined on the flow chart on page 2 of this schedule. The chart shows the process beginning with information obtained by the Forecasting Department which leads to the development of the customer, energy, and demand budgets. These budgets in turn provide the basis for developing the revenue, fuel, interchange, capital additions, and operations and maintenance budgets. Although not reflected on the chart, there are numerous management reviews of each budget, along with approval of the capital additions budget by the Board of Directors.

A list of assumptions that are incorporated in the eight component budgets of Gulf's financial forecast are shown on MFR Schedule F-8. The information and budgets included in the eight component budgets along with other financial assumptions and data are input to Gulf's Financial Model which generates the accounting statements that comprise the Company's financial forecast. The 2016 financial forecast of 2017 is the basis of the test year data in this proceeding.

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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_ Prior Year Ended 12/31/16
_ Historical Year Ended 12/31/15
Witness: J. J. Mason, J. K. Park, M. L. Burroughs

II. CUSTOMER, ENERGY, PEAK DEMAND, & REVENUE FORECASTS

Methodology Overview

Gulf annually produces a new forecast of customers, energy, peak demand and retail base rate revenue. Gulf begins by projecting the number of new non-lighting customers it expects to add in each customer class – residential, commercial and industrial. Next, Gulf estimates how much energy these customers will use under normal weather conditions. For customers on demand rates, Gulf then estimates monthly billing demands. Finally, the base charges, energy charges, and demand charges from the appropriate rate schedules are applied to the number of customers, monthly energy and aggregate monthly billing demands to estimate retail base rate revenues. Outdoor lighting customers, energy and base rate revenue are projected by rate and class. Gulf also forecasts total Company peak demand using total energy projections and historical relationships between energy and demand. Additional detail is supplied in Gulf Witness Park's testimony.

Fuel, Purchased Power Capacity, Conservation and Environmental Clause revenues are calculated by the Financial Model based on energy and recoverable fuel, purchased power capacity, environmental, and conservation costs. These factors are then multiplied times the billed energy by rate class to arrive at the respective clause revenues.

Other Operating Revenues include miscellaneous service revenues (including franchise fees), rent from electric property, and other miscellaneous revenue. Franchise fee revenues (net of revenue taxes) are projected to equal the franchise fee expense which is calculated by the Financial Model. The remaining revenue items are projected by the Corporate Planning Department.

FLORIDA PUBLIC SERVICE COMMISSION

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III. OVERVIEW OF THE FUEL/INTERCHANGE PROCESS

Description

The Fuel and Interchange Budgets are an integral part of Gulf's operating budget and the budgets of each of the other Operating Companies within the Southern electric system. Data provided by the fuel and interchange forecast includes unit capacity factors, unit performance, pool interchange, off-system sales, and fuel expenses.

The Interchange Budget is produced using PROSYM, a computer model used to simulate the economic dispatch of the Southern electric system. Inputs to the model are provided by the Operating Companies and include unit data, loads and sales information. In addition, marginal fuel prices and fuel cost data are provided by FUELPRO, a fuel optimization model that determines a least cost fuel purchase plan based on fuel burn, inventory, quality, transportation and emission constraints. The development of fuel costs for the Energy Budget is based on an iterative process. FUELPRO determines marginal prices for every fossil unit on the Southern electric system, then PROSYM determines the burn by unit based on the marginal costs. The burns are then input to FUELPRO and optimized fuel costs are provided back to PROSYM. A Fuel & Interchange Budget process flowchart is shown on page 7 of this schedule.

Once the budgets are complete, the results are provided to Corporate Planning to be incorporated into the operating budget.

FLORIDA PUBLIC SERVICE COMMISSION

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Witness: J. J. Mason, J. K. Park, M. L. Burroughs

The following is a brief description of the models utilized in the forecast:

Fuel Cost Model, FUELPRO

FUELPRO is a linear optimization model that determines a least fuel cost solution allowing for a variety of constraints related to each of the fossil power plants in the Southern electric system. This includes such things as contract obligations, fuel quality, transportation and emissions constraints. The program receives an input of the burn requirements in mmBtu's for each unit at a plant, as well as the desired inventory levels, and the availabilities of fuel supplies from each applicable source. The price of each fuel commodity and its associated transportation costs are also provided as inputs to the fuel model, including any applicable escalation of pricing over time. With this data, the program calculates marginal prices to be used in economically dispatching the system and formulates and solves for the mimimum cost fuel mix to each plant (Fuel Budget).

Production Costing Model, PROSYM

Gulf Power Company and the Southern electric system utilize PROSYM, a chronological modeling system, to project future fuel requirements and system production costs. PROSYM is a complete electric utility/regional pool analysis and accounting system. One of the principal purposes of PROSYM is to provide an economical dispatch of all the fossil fuel plants within the Southern electric system based on marginal prices provided by FUELPRO plus other variable operation costs. PROSYM is designed for performing planning and operational studies, and because of its chronological structure, the model accommodates detailed investigations of operations of electric utilities with power pools such as the Southern electric system pool.

The basic PROSYM inputs include data related to generating units, marginal prices, fuel costs, demand and energy, and system operating characteristics. The basic outputs are energy produced and Btu requirements for each generating unit and the cost of generation (Interchange Budget) to the financial models.

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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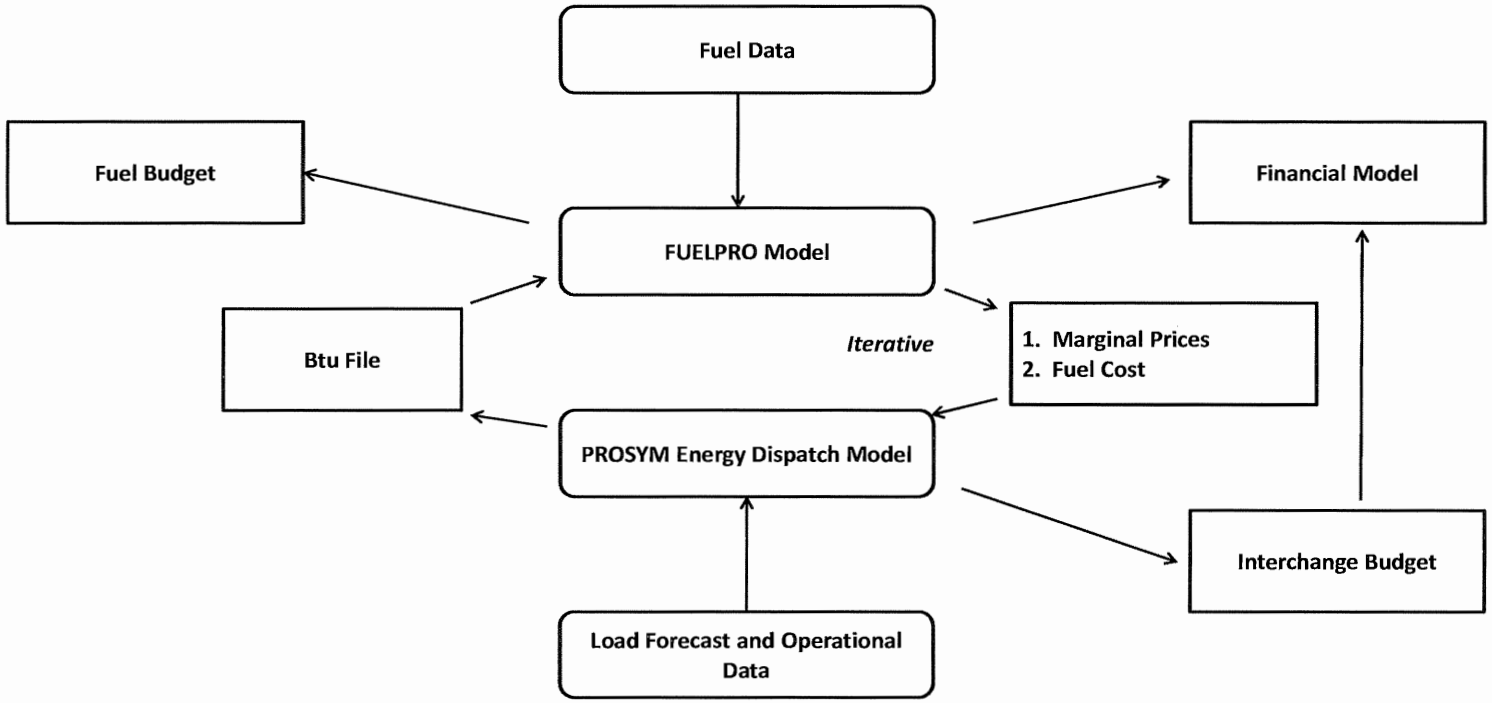
Witness: J. J. Mason, J. K. Park, M. L. Burroughs

FUEL & INTERCHANGE BUDGET PROCESS FLOWCHART



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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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IV. CAPITAL ADDITIONS BUDGET

A. Construction Expenditures

Gulf's construction requirements are determined through a detailed analysis of existing facilities and projections of customer growth, energy, demand, and patterns of energy usage. The construction budget is driven off of inputs obtained from the Customer, Energy, and Demand Budgets and is comprised of the following components:

(1) Major Generation and Production Plant Analysis. Utilizing inputs from the budgets mentioned above, the need for and timing of major generation additions necessary to maintain reliable service is projected. The resulting Generation Expansion Plan is coordinated with associated operating companies such that projected customer requirements are met and economies of scale are realized. Other production plant additions are based on age of existing facilities, operating experience, environmental requirements and necessary expansions.

(2) Distribution Analysis. The results of monitoring circuit loads on the Gulf system and the inputs from the Customer, Energy, and Demand Budgets are utilized in studies which project the need for and timing of additions to Gulf's distribution system.

(3) Transmission Analysis. Combines the results of the major generation and distribution analysis and the inputs from the three budgets mentioned above to determine future transmission facility requirements.

(4) General Facilities Analysis. Involves combining periodic reviews of existing facilities, equipment, and their related costs and projections of future general facility requirements.

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These analyses are reviewed by the appropriate members of management and a construction plan for each function is established. The details of the construction plan are communicated to the affected departments and become the foundation for scheduling projects and budgeting the related expenditures. Each project, its justification, and related costs are summarized as Plant Expenditure items (PEs). The PEs are reviewed by the appropriate managers and officers. The PEs are then summarized by Corporate Planning and presented to executive management for their review and approval. Once approved by executive management, the Capital Additions Budget is presented to the Board of Directors for approval.

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B. Plant - In - Service, Retirements, Cost of Removal and Salvage

Each PE contains pertinent information such as the project's functional classification, starting date and completion date, expenditures, clearings to service, retirements, and cost of removal and salvage by month and year. The PE may contain one or more projects with varying completion dates. The monthly breakdown of expenditures, clearings to service, retirements, cost of removal and salvage for the budget year and the forecast years are input to the Financial Model which calculates the various plant balances on a monthly basis.

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_ Prior Year Ended 12/31/16
_ Historical Year Ended 12/31/15
Witness: J. J. Mason, J. K. Park, M. L. Burroughs

V. OPERATIONS AND MAINTENANCE EXPENSES EXCLUDING FUEL AND PURCHASED POWER

The development of Gulf's Operations and Maintenance Budget (O&M), excluding direct fuel and purchased power, begins with the development of appropriate budget guidelines. The Budget Message that communicates the O&M guidelines to support Company goals is reviewed and approved by the Chief Financial Officer and is distributed to the planning units to aid them in developing and submitting their budget and forecast requests. Once the planning units have submitted their budget, Corporate Planning and Budgeting compile the data for review and approval by executive managment. Once the final budget has been approved by executive management, the Chief Financial Officer sends the final approved budget and forecast to executive management and all Planning Units.

Each Planning Unit monitors their budget to actual comparison using the accounting and reporting system. Explanations are required for quarterly variances of 10 percent or more that equal or exceed $25,000; or any variance that exceeds $500,000. The Planning Units also submit any year-end projections with their quarterly reports.

The Budgeting department is responsible for coordinating the O&M Budget process, providing the necessary information to the Chief Financial Officer and executive management for their review and approval to ensure business plans and goals are met. The O&M Budget reflects the Company's best expectations of the cost of providing service.

FLORIDA PUBLIC SERVICE COMMISSION

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_ Prior Year Ended 12/31/16
_ Historical Year Ended 12/31/15
Witness: J. J. Mason, J. K. Park, M. L. Burroughs

VI. FINANCIAL MODEL

Gulf's Financial Model is a complex and detailed computer based model that closely simulates Gulf's actual financial/accounting practices.

Information contained in the approved budgets developed by Gulf's planning process (see page 2 of this schedule) is input to the model as follows:

(1) Energy Budget. The Energy Budget is interfaced with the Financial Model and is used in conjunction with the Fuel and Interchange Budgets in developing fuel revenues on the income statement. The Energy Budget is described in Section II of this schedule.

(2) Fuel Budget. The Fuel Budget is produced by the FUELPRO and PROSYM models as described in Section III of this schedule, which interface with the Financial Model. The Fuel Budget contains the projected fuel expense that is included on the Financial Model's income statement and the projected fuel stockpile amounts that are included on the balance sheet. The Fuel Budget also operates in conjunction with the Energy and Interchange Budgets in projecting the fuel revenues included on the income statement. Additionally, the Fuel Budget is used in deriving a portion of the Other Accounts Payable account contained on the balance sheet.

(3) Interchange Budget. The Interchange Budget is produced by the FUELPRO and PROSYM models as described in Section III of this schedule, which interface with the Financial Model. The Interchange Budget provides the non-territorial sales and purchased power transactions that appear on the model's income statement. In conjunction with the Energy and Fuel Budgets, the Interchange Budget is used to project the Fuel and Capacity Revenues on the income statement. The Interchange Budget is also used in calculating a portion of the Associated Companies Accounts Receivable, Associated Companies Accounts Payable and a portion of the Other Accounts Payable account contained on the balance sheet.

FLORIDA PUBLIC SERVICE COMMISSION

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Witness: J. J. Mason, J. K. Park, M. L. Burroughs

(4) Revenue Budget. The Revenue Budget as described in Section II of this schedule, is contained on the income statement of the financial model and is used in calculating numerous other items on the income statement and balance sheet.

(5) Capital Additions Budget. The Capital Additions Budget is utilized in projecting the Plant-In-Service, Plant Held for Future Use, CWIP, Accumulated Depreciation, and Construction Related Accounts Payable accounts. The Capital Additions Budget is described in Section IV of this schedule.

(6) Operations and Maintenance Budget (excluding Direct Fuel and Purchased Power). The O&M Budget is directly input to the financial model's income statement and is utilized in deriving a portion of the Other Accounts Payable account on the balance sheet. The O&M Budget is described in Section V of this schedule.

Other inputs to the Financial Model such as miscellaneous balance sheet accounts and miscellaneous revenue and expense items are developed by the Corporate Planning Department using trend-line methodologies and expertise from other departments. Corporate Planning is the administrator of the financial model and is responsible for coordinating and implementing any necessary changes to the model's logic.

Schedule F-6 FORECASTING MODELS - SENSITIVITY OF OUTPUT TO CHANGES IN INPUT DATA Page 1 of 1

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: If a projected test year is used, for each sales forecasting model, give a quantified explanation of the impact of changes in the inputs to changes in outputs.

Type of Data Shown:
__X_Projected Test Year Ended 12/31/17
____Prior Year Ended 12/31/16
____Historical Year Ended 12/31/15
Witness: J. K. Park

(1) Line No.	(2) Input Variable	(3) Percent Change (Input)	(4) Output Variable Affected	(5) Percent Change (Output)
1	RESIDENTIAL			
2	----------			
3	Residential Customer Gains	+10%	Annual Residential kWh	0.1%
4	12-Month Average Real Residential Cents per kWh	+10%	Annual Residential kWh	-3.4%
5	Real Disposable Personal Income per Household	+10%	Annual Residential kWh	5.1%
6	Economic Efficiency	+10%	Annual Residential kWh	-3.2%
7	Heating Degree Hours	+10%	Annual Residential kWh	1.2%
8	Cooling Degree Hours	+10%	Annual Residential kWh	3.2%
9	SMALL COMMERCIAL			
10	----------			
11	Small Commercial Customer Gains	+10%	Annual Small Commercial kWh	0.1%
12	12-Month Average Real Commercial Cents per kWh	+10%	Annual Small Commercial kWh	-1.5%
13	Real Gross Domestic Product per Capita	+10%	Annual Small Commercial kWh	3.6%
14	Heating Degree Hours	+10%	Annual Small Commercial kWh	0.6%
15	Cooling Degree Hours	+10%	Annual Small Commercial kWh	2.3%
16	LARGE COMMERCIAL			
17	----------			
18	Large Commercial Customer Gains	+10%	Annual Large Commercial kWh	0.1%
19	12-Month Average Real Commercial Cents per kWh	+10%	Annual Large Commercial kWh	-1.3%
20	Real Gross Domestic Product per Capita	+10%	Annual Large Commercial kWh	2.3%
21	Heating Degree Hours	+10%	Annual Large Commercial kWh	0.1%
22	Cooling Degree Hours	+10%	Annual Large Commercial kWh	1.7%

Supporting Schedules: Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) ResSales (OUTPUT)	(5) ResSales (INPUT)	(6) RealDispInc (INPUT)	(7) ResPrice (INPUT)	(8) EnergEff (INPUT)	(9) Ivan (INPUT)	(10) Isaac (INPUT)	(11) JunJulAug08 (INPUT)	(12) Oct98 (INPUT)
1	1995	OCT		39.622	63.726	9.375	8.833	0	0	0	0
2	1995	NOV	28.942	28.726	63.741	9.366	8.842	0	0	0	0
3	1995	DEC	32.246	32.429	63.818	9.358	8.850	0	0	0	0
4	1996	JAN	43.349	44.219	63.928	9.349	8.858	0	0	0	0
5	1996	FEB	41.945	43.051	64.009	9.320	8.867	0	0	0	0
6	1996	MAR	35.078	34.883	64.031	9.297	8.875	0	0	0	0
7	1996	APR	29.648	30.326	64.024	9.272	8.883	0	0	0	0
8	1996	MAY	32.332	30.237	64.044	9.247	8.892	0	0	0	0
9	1996	JUN	45.303	44.167	64.121	9.234	8.900	0	0	0	0
10	1996	JUL	52.568	51.565	64.218	9.223	8.908	0	0	0	0
11	1996	AUG	51.808	51.386	64.275	9.209	8.917	0	0	0	0
12	1996	SEP	46.774	47.313	64.256	9.199	8.925	0	0	0	0
13	1996	OCT	37.121	37.314	64.202	9.190	8.933	0	0	0	0
14	1996	NOV	30.011	29.370	64.176	9.194	8.942	0	0	0	0
15	1996	DEC	31.154	31.664	64.221	9.190	8.950	0	0	0	0

VARIABLE	DESCRIPTION
ResSales	Billing Cycle Residential kWh per Customer per Billing Day
RealDispInc	Real Disposable Personal Income Per Household ($000s)
ResPrice	12-Month Average of Real Residential Price (cents per kWh)
EnergEff	Energy Efficiency Variable
Ivan	Binary Variable for Hurricane Ivan September 2004
Isaac	Binary Variable for Hurricane Isaac August-September 2012
JunJulAug08	Binary Variable for June-August 2008
Oct98	Binary Variable for October 1998

Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

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DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

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_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) ResSales (OUTPUT)	(5) ResSales (INPUT)	(6) RealDispInc (INPUT)	(7) ResPrice (INPUT)	(8) EnergEff (INPUT)	(9) Ivan (INPUT)	(10) Isaac (INPUT)	(11) JunJulAug08 (INPUT)	(12) Oct98 (INPUT)
1	1997	JAN	36.273	37.657	64.308	9.189	8.958	0	0	0	0
2	1997	FEB	36.831	34.022	64.385	9.188	8.967	0	0	0	0
3	1997	MAR	28.183	29.742	64.430	9.186	8.975	0	0	0	0
4	1997	APR	28.110	27.509	64.479	9.188	8.983	0	0	0	0
5	1997	MAY	29.543	27.802	64.588	9.170	8.992	0	0	0	0
6	1997	JUN	39.144	38.266	64.782	9.153	9.000	0	0	0	0
7	1997	JUL	49.546	49.588	64.992	9.139	9.008	0	0	0	0
8	1997	AUG	50.294	50.906	65.118	9.115	9.017	0	0	0	0
9	1997	SEP	49.265	50.851	65.118	9.088	9.025	0	0	0	0
10	1997	OCT	41.551	43.935	65.130	9.058	9.033	0	0	0	0
11	1997	NOV	30.940	31.844	65.345	9.002	9.042	0	0	0	0
12	1997	DEC	34.414	34.375	65.868	8.953	9.050	0	0	0	0
13	1998	JAN	37.409	37.600	66.540	8.902	9.058	0	0	0	0
14	1998	FEB	36.987	36.952	67.075	8.871	9.067	0	0	0	0
15	1998	MAR	33.082	32.712	67.342	8.842	9.075	0	0	0	0
16	1998	APR	29.487	29.236	67.418	8.799	9.083	0	0	0	0
17	1998	MAY	33.551	32.367	67.441	8.725	9.092	0	0	0	0
18	1998	JUN	50.044	51.327	67.519	8.640	9.100	0	0	0	0
19	1998	JUL	57.085	56.794	67.617	8.550	9.108	0	0	0	0
20	1998	AUG	53.150	53.227	67.650	8.473	9.117	0	0	0	0
21	1998	SEP	49.676	47.541	67.575	8.404	9.125	0	0	0	0
22	1998	OCT	45.356	45.538	67.472	8.298	9.133	0	0	0	1
23	1998	NOV	29.967	30.329	67.462	8.302	9.142	0	0	0	0
24	1998	DEC	29.451	29.384	67.616	8.213	9.150	0	0	0	0

VARIABLE	DESCRIPTION
ResSales	Billing Cycle Residential kWh per Customer per Billing Day
RealDispInc	Real Disposable Personal Income Per Household ($000s)
ResPrice	12-Month Average of Real Residential Price (cents per kWh)
EnergEff	Energy Efficiency Variable
Ivan	Binary Variable for Hurricane Ivan September 2004
Isaac	Binary Variable for Hurricane Isaac August-September 2012
JunJulAug08	Binary Variable for June-August 2008
Oct98	Binary Variable for October 1998

Supporting Schedules:

Recap Schedules:

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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) ResSales (OUTPUT)	(5) ResSales (INPUT)	(6) RealDisplnc (INPUT)	(7) ResPrice (INPUT)	(8) EnergEff (INPUT)	(9) Ivan (INPUT)	(10) Isaac (INPUT)	(11) JunJulAug08 (INPUT)	(12) Oct98 (INPUT)
1	1999	JAN	39.785	38.169	67.861	8.164	9.158	0	0	0	0
2	1999	FEB	29.919	30.910	68.060	8.104	9.167	0	0	0	0
3	1999	MAR	32.056	30.588	68.150	8.059	9.175	0	0	0	0
4	1999	APR	29.988	29.849	68.186	8.007	9.183	0	0	0	0
5	1999	MAY	33.980	33.905	68.263	7.996	9.192	0	0	0	0
6	1999	JUN	43.033	43.661	68.433	7.989	9.200	0	0	0	0
7	1999	JUL	51.017	52.044	68.603	7.995	9.208	0	0	0	0
8	1999	AUG	56.256	56.174	68.631	7.997	9.217	0	0	0	0
9	1999	SEP	50.750	51.103	68.464	7.991	9.225	0	0	0	0
10	1999	OCT	38.949	38.350	68.307	8.028	9.233	0	0	0	0
11	1999	NOV	30.425	29.979	68.441	7.964	9.242	0	0	0	0
12	1999	DEC	31.895	32.014	69.014	7.977	9.250	0	0	0	0
13	2000	JAN	37.471	36.370	69.752	7.954	9.258	0	0	0	0
14	2000	FEB	39.779	40.064	70.212	7.974	9.267	0	0	0	0
15	2000	MAR	29.931	28.426	70.159	7.967	9.275	0	0	0	0
16	2000	APR	28.946	28.620	69.791	7.990	9.283	0	0	0	0
17	2000	MAY	33.160	33.351	69.458	8.014	9.292	0	0	0	0
18	2000	JUN	47.491	48.775	69.406	8.028	9.300	0	0	0	0
19	2000	JUL	56.497	56.383	69.549	8.037	9.308	0	0	0	0
20	2000	AUG	56.271	55.441	69.692	8.048	9.317	0	0	0	0
21	2000	SEP	50.160	51.217	69.705	8.062	9.325	0	0	0	0
22	2000	OCT	37.557	37.315	69.689	8.072	9.333	0	0	0	0
23	2000	NOV	32.360	31.983	69.807	8.088	9.342	0	0	0	0
24	2000	DEC	37.935	38.046	70.141	8.102	9.350	0	0	0	0

VARIABLE	DESCRIPTION
ResSales	Billing Cycle Residential kWh per Customer per Billing Day
RealDisplnc	Real Disposable Personal Income Per Household ($000s)
ResPrice	12-Month Average of Real Residential Price (cents per kWh)
EnergEff	Energy Efficiency Variable
Ivan	Binary Variable for Hurricane Ivan September 2004
Isaac	Binary Variable for Hurricane Isaac August-September 2012
JunJulAug08	Binary Variable for June-August 2008
Oct98	Binary Variable for October 1998

Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) ResSales (OUTPUT)	(5) ResSales (INPUT)	(6) RealDispInc (INPUT)	(7) ResPrice (INPUT)	(8) EnergEff (INPUT)	(9) Ivan (INPUT)	(10) Isaac (INPUT)	(11) JunJulAug08 (INPUT)	(12) Oct98 (INPUT)
1	2001	JAN	51.135	51.173	70.523	8.109	9.358	0	0	0	0
2	2001	FEB	38.476	38.376	70.687	8.063	9.367	0	0	0	0
3	2001	MAR	30.932	30.104	70.541	8.041	9.375	0	0	0	0
4	2001	APR	30.770	31.879	70.357	8.008	9.383	0	0	0	0
5	2001	MAY	33.770	33.642	70.567	7.968	9.392	0	0	0	0
6	2001	JUN	45.772	44.889	71.376	7.941	9.400	0	0	0	0
7	2001	JUL	50.173	51.065	72.336	7.919	9.408	0	0	0	0
8	2001	AUG	52.373	53.917	72.785	7.896	9.417	0	0	0	0
9	2001	SEP	48.850	47.344	72.347	7.876	9.425	0	0	0	0
10	2001	OCT	36.064	35.210	71.564	7.857	9.433	0	0	0	0
11	2001	NOV	30.287	29.700	71.241	7.837	9.442	0	0	0	0
12	2001	DEC	30.767	30.020	71.888	7.817	9.450	0	0	0	0
13	2002	JAN	43.460	43.992	73.106	7.816	9.458	0	0	0	0
14	2002	FEB	37.026	36.450	74.128	7.836	9.467	0	0	0	0
15	2002	MAR	37.972	37.134	74.544	7.853	9.475	0	0	0	0
16	2002	APR	30.701	31.561	74.492	7.849	9.483	0	0	0	0
17	2002	MAY	39.547	41.099	74.291	7.866	9.492	0	0	0	0
18	2002	JUN	45.955	44.625	74.216	7.866	9.500	0	0	0	0
19	2002	JUL	50.804	53.372	74.322	7.945	9.508	0	0	0	0
20	2002	AUG	54.053	54.182	74.587	8.030	9.517	0	0	0	0
21	2002	SEP	51.199	50.576	74.962	8.114	9.525	0	0	0	0
22	2002	OCT	43.924	45.755	75.363	8.194	9.533	0	0	0	0
23	2002	NOV	32.542	32.410	75.690	8.262	9.542	0	0	0	0
24	2002	DEC	37.588	36.868	75.882	8.352	9.550	0	0	0	0

VARIABLE	DESCRIPTION
ResSales	Billing Cycle Residential kWh per Customer per Billing Day
RealDispInc	Real Disposable Personal Income Per Household ($000s)
ResPrice	12-Month Average of Real Residential Price (cents per kWh)
EnergEff	Energy Efficiency Variable
Ivan	Binary Variable for Hurricane Ivan September 2004
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Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) ResSales (OUTPUT)	(5) ResSales (INPUT)	(6) RealDispInc (INPUT)	(7) ResPrice (INPUT)	(8) EnergEff (INPUT)	(9) Ivan (INPUT)	(10) Isaac (INPUT)	(11) JunJulAug08 (INPUT)	(12) Oct98 (INPUT)
1	2003	JAN	44.302	44.780	76.008	8.421	9.558	0	0	0	0
2	2003	FEB	43.025	42.104	76.166	8.502	9.567	0	0	0	0
3	2003	MAR	30.590	31.421	76.441	8.575	9.575	0	0	0	0
4	2003	APR	31.114	30.128	76.856	8.679	9.583	0	0	0	0
5	2003	MAY	37.050	38.759	77.395	8.771	9.592	0	0	0	0
6	2003	JUN	46.578	48.036	78.019	8.860	9.600	0	0	0	0
7	2003	JUL	50.165	50.224	78.622	8.875	9.608	0	0	0	0
8	2003	AUG	50.843	51.870	79.076	8.886	9.617	0	0	0	0
9	2003	SEP	49.615	50.019	79.295	8.897	9.625	0	0	0	0
10	2003	OCT	37.918	37.365	79.386	8.907	9.633	0	0	0	0
11	2003	NOV	31.628	31.601	79.499	8.932	9.642	0	0	0	0
12	2003	DEC	37.237	37.389	79.741	8.945	9.650	0	0	0	0
13	2004	JAN	43.369	42.902	80.084	8.955	9.658	0	0	0	0
14	2004	FEB	42.152	42.709	80.433	8.968	9.667	0	0	0	0
15	2004	MAR	34.556	34.450	80.729	8.976	9.675	0	0	0	0
16	2004	APR	31.612	29.688	80.933	8.973	9.683	0	0	0	0
17	2004	MAY	32.950	33.871	81.001	8.979	9.692	0	0	0	0
18	2004	JUN	46.857	48.182	80.936	8.997	9.700	0	0	0	0
19	2004	JUL	52.700	54.305	80.847	9.000	9.708	0	0	0	0
20	2004	AUG	53.889	54.119	80.884	9.002	9.717	0	0	0	0
21	2004	SEP	38.856	39.475	81.126	9.002	9.725	1	0	0	0
22	2004	OCT	44.053	45.283	81.460	9.009	9.733	0	0	0	0
23	2004	NOV	34.566	34.811	81.712	9.009	9.742	0	0	0	0
24	2004	DEC	34.714	34.784	81.769	8.992	9.750	0	0	0	0

VARIABLE	DESCRIPTION
ResSales	Billing Cycle Residential kWh per Customer per Billing Day
RealDispInc	Real Disposable Personal Income Per Household ($000s)
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Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
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_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) ResSales (OUTPUT)	(5) ResSales (INPUT)	(6) RealDispInc (INPUT)	(7) ResPrice (INPUT)	(8) EnergEff (INPUT)	(9) Ivan (INPUT)	(10) Isaac (INPUT)	(11) JunJulAug08 (INPUT)	(12) Oct98 (INPUT)
1	2005	JAN	39.910	40.003	81.704	9.000	9.758	0	0	0	0
2	2005	FEB	38.265	38.168	81.654	9.027	9.767	0	0	0	0
3	2005	MAR	33.600	33.389	81.711	9.060	9.775	0	0	0	0
4	2005	APR	29.660	29.429	81.871	9.087	9.783	0	0	0	0
5	2005	MAY	31.924	32.014	82.095	9.137	9.792	0	0	0	0
6	2005	JUN	45.956	46.631	82.328	9.198	9.800	0	0	0	0
7	2005	JUL	53.795	53.169	82.482	9.247	9.825	0	0	0	0
8	2005	AUG	53.527	54.324	82.461	9.293	9.850	0	0	0	0
9	2005	SEP	53.602	55.466	82.259	9.335	9.875	0	0	0	0
10	2005	OCT	47.379	45.885	82.140	9.371	9.900	0	0	0	0
11	2005	NOV	31.724	32.640	82.446	9.399	9.925	0	0	0	0
12	2005	DEC	35.603	36.472	83.349	9.460	9.950	0	0	0	0
13	2006	JAN	37.514	38.032	84.500	9.505	9.975	0	0	0	0
14	2006	FEB	35.891	35.046	85.312	9.552	10.000	0	0	0	0
15	2006	MAR	32.690	31.661	85.503	9.601	10.025	0	0	0	0
16	2006	APR	32.341	31.504	85.242	9.648	10.050	0	0	0	0
17	2006	MAY	36.319	37.187	84.865	9.660	10.075	0	0	0	0
18	2006	JUN	49.323	49.195	84.662	9.652	10.100	0	0	0	0
19	2006	JUL	56.884	57.219	84.710	9.666	10.125	0	0	0	0
20	2006	AUG	54.876	56.483	85.019	9.676	10.150	0	0	0	0
21	2006	SEP	51.632	51.987	85.535	9.691	10.175	0	0	0	0
22	2006	OCT	41.688	40.035	86.075	9.713	10.200	0	0	0	0
23	2006	NOV	31.121	31.581	86.412	9.747	10.225	0	0	0	0
24	2006	DEC	36.085	35.638	86.404	9.770	10.250	0	0	0	0

VARIABLE	DESCRIPTION
ResSales	Billing Cycle Residential kWh per Customer per Billing Day
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FLORIDA PUBLIC SERVICE COMMISSION

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(1) LINE NO.	(2) YEAR	(3) MONTH	(4) ResSales (OUTPUT)	(5) ResSales (INPUT)	(6) RealDisplnc (INPUT)	(7) ResPrice (INPUT)	(8) EnergEff (INPUT)	(9) Ivan (INPUT)	(10) Isaac (INPUT)	(11) JunJulAug08 (INPUT)	(12) Oct98 (INPUT)
1	2007	JAN	34.878	35.934	86.181	9.790	10.275	0	0	0	0
2	2007	FEB	43.165	40.272	85.979	9.856	10.300	0	0	0	0
3	2007	MAR	32.426	32.641	85.940	9.898	10.325	0	0	0	0
4	2007	APR	30.999	30.418	86.049	9.950	10.350	0	0	0	0
5	2007	MAY	34.922	35.143	86.235	10.012	10.375	0	0	0	0
6	2007	JUN	44.563	44.168	86.425	10.083	10.400	0	0	0	0
7	2007	JUL	52.898	53.254	86.573	10.153	10.417	0	0	0	0
8	2007	AUG	56.357	56.427	86.644	10.222	10.433	0	0	0	0
9	2007	SEP	52.812	51.987	86.597	10.288	10.450	0	0	0	0
10	2007	OCT	43.200	43.437	86.401	10.350	10.467	0	0	0	0
11	2007	NOV	30.654	30.120	86.027	10.406	10.483	0	0	0	0
12	2007	DEC	31.025	31.051	85.524	10.473	10.500	0	0	0	0
13	2008	JAN	38.245	37.890	85.193	10.553	10.517	0	0	0	0
14	2008	FEB	37.806	37.708	85.411	10.531	10.533	0	0	0	0
15	2008	MAR	32.665	31.496	86.310	10.533	10.550	0	0	0	0
16	2008	APR	29.371	29.572	87.343	10.530	10.567	0	0	0	0
17	2008	MAY	33.876	32.241	87.690	10.524	10.583	0	0	0	0
18	2008	JUN	45.862	46.338	86.887	10.519	10.600	0	0	1	0
19	2008	JUL	51.221	50.886	85.470	10.501	10.617	0	0	1	0
20	2008	AUG	52.674	50.844	84.308	10.490	10.633	0	0	1	0
21	2008	SEP	49.640	48.451	84.026	10.481	10.650	0	0	0	0
22	2008	OCT	36.870	36.989	84.317	10.562	10.667	0	0	0	0
23	2008	NOV	29.365	30.011	84.615	10.654	10.683	0	0	0	0
24	2008	DEC	34.117	33.761	84.537	10.745	10.700	0	0	0	0

VARIABLE	DESCRIPTION
ResSales	Billing Cycle Residential kWh per Customer per Billing Day
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Supporting Schedules: Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

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___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) ResSales (OUTPUT)	(5) ResSales (INPUT)	(6) RealDispInc (INPUT)	(7) ResPrice (INPUT)	(8) EnergEff (INPUT)	(9) Ivan (INPUT)	(10) Isaac (INPUT)	(11) JunJulAug08 (INPUT)	(12) Oct98 (INPUT)
1	2009	JAN	33.990	33.509	84.246	10.819	10.717	0	0	0	0
2	2009	FEB	38.921	38.010	84.095	10.999	10.733	0	0	0	0
3	2009	MAR	31.188	31.838	84.269	11.161	10.750	0	0	0	0
4	2009	APR	27.004	27.629	84.588	11.348	10.767	0	0	0	0
5	2009	MAY	33.257	33.057	84.719	11.531	10.783	0	0	0	0
6	2009	JUN	44.110	44.859	84.453	11.700	10.800	0	0	0	0
7	2009	JUL	54.042	54.282	83.956	11.883	10.817	0	0	0	0
8	2009	AUG	49.270	50.304	83.518	12.036	10.833	0	0	0	0
9	2009	SEP	43.872	43.172	83.374	12.197	10.850	0	0	0	0
10	2009	OCT	40.143	41.353	83.517	12.277	10.867	0	0	0	0
11	2009	NOV	28.629	28.665	83.875	12.337	10.883	0	0	0	0
12	2009	DEC	31.802	32.552	84.375	12.402	10.900	0	0	0	0
13	2010	JAN	46.687	45.956	84.937	12.469	10.917	0	0	0	0
14	2010	FEB	42.153	42.724	85.438	12.454	10.933	0	0	0	0
15	2010	MAR	38.181	39.436	85.838	12.454	10.950	0	0	0	0
16	2010	APR	28.224	27.424	86.145	12.426	10.967	0	0	0	0
17	2010	MAY	31.519	32.534	86.356	12.433	10.983	0	0	0	0
18	2010	JUN	46.062	46.194	86.491	12.448	11.000	0	0	0	0
19	2010	JUL	52.743	51.585	86.574	12.448	11.017	0	0	0	0
20	2010	AUG	55.851	54.331	86.634	12.480	11.033	0	0	0	0
21	2010	SEP	48.028	48.968	86.696	12.496	11.050	0	0	0	0
22	2010	OCT	38.650	36.959	86.789	12.509	11.067	0	0	0	0
23	2010	NOV	28.461	29.098	86.937	12.542	11.083	0	0	0	0
24	2010	DEC	35.162	35.039	87.145	12.557	11.100	0	0	0	0

VARIABLE	DESCRIPTION
ResSales	Billing Cycle Residential kWh per Customer per Billing Day
RealDispInc	Real Disposable Personal Income Per Household ($000s)
ResPrice	12-Month Average of Real Residential Price (cents per kWh)
EnergEff	Energy Efficiency Variable
Ivan	Binary Variable for Hurricane Ivan September 2004
Isaac	Binary Variable for Hurricane Isaac August-September 2012
JunJulAug08	Binary Variable for June-August 2008
Oct98	Binary Variable for October 1998

Supporting Schedules: Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) ResSales (OUTPUT)	(5) ResSales (INPUT)	(6) RealDispInc (INPUT)	(7) ResPrice (INPUT)	(8) EnergEff (INPUT)	(9) Ivan (INPUT)	(10) Isaac (INPUT)	(11) JunJulAug08 (INPUT)	(12) Oct98 (INPUT)
1	2011	JAN	43.372	43.539	87.353	12.567	11.117	0	0	0	0
2	2011	FEB	41.116	42.618	87.466	12.528	11.133	0	0	0	0
3	2011	MAR	30.214	29.156	87.440	12.484	11.150	0	0	0	0
4	2011	APR	28.827	28.812	87.302	12.467	11.167	0	0	0	0
5	2011	MAY	33.134	33.697	87.107	12.416	11.183	0	0	0	0
6	2011	JUN	47.166	46.795	86.912	12.354	11.200	0	0	0	0
7	2011	JUL	54.069	52.293	86.755	12.304	11.217	0	0	0	0
8	2011	AUG	53.342	52.582	86.666	12.254	11.233	0	0	0	0
9	2011	SEP	47.226	46.080	86.645	12.210	11.250	0	0	0	0
10	2011	OCT	33.703	34.380	86.578	12.175	11.267	0	0	0	0
11	2011	NOV	27.675	26.981	86.324	12.155	11.283	0	0	0	0
12	2011	DEC	29.936	30.291	85.824	12.150	11.300	0	0	0	0
13	2012	JAN	30.703	30.927	85.274	12.152	11.317	0	0	0	0
14	2012	FEB	28.747	30.417	84.978	12.175	11.333	0	0	0	0
15	2012	MAR	27.796	28.353	85.063	12.238	11.350	0	0	0	0
16	2012	APR	28.896	29.840	85.266	12.217	11.367	0	0	0	0
17	2012	MAY	34.317	33.207	85.189	12.210	11.383	0	0	0	0
18	2012	JUN	45.119	43.811	84.662	12.226	11.400	0	0	0	0
19	2012	JUL	48.784	48.549	84.191	12.232	11.417	0	0	0	0
20	2012	AUG	48.251	48.125	84.518	12.162	11.433	0	1	0	0
21	2012	SEP	44.456	43.806	85.944	12.095	11.450	0	1	0	0
22	2012	OCT	36.836	35.945	87.545	12.015	11.467	0	0	0	0
23	2012	NOV	28.267	28.265	88.028	11.907	11.483	0	0	0	0
24	2012	DEC	28.986	29.239	86.632	11.805	11.500	0	0	0	0

VARIABLE	DESCRIPTION
ResSales	Billing Cycle Residential kWh per Customer per Billing Day
RealDispInc	Real Disposable Personal Income Per Household ($000s)
ResPrice	12-Month Average of Real Residential Price (cents per kWh)
EnergEff	Energy Efficiency Variable
Ivan	Binary Variable for Hurricane Ivan September 2004
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JunJulAug08	Binary Variable for June-August 2008
Oct98	Binary Variable for October 1998

Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) ResSales (OUTPUT)	(5) ResSales (INPUT)	(6) RealDispInc (INPUT)	(7) ResPrice (INPUT)	(8) EnergEff (INPUT)	(9) Ivan (INPUT)	(10) Isaac (INPUT)	(11) JunJulAug08 (INPUT)	(12) Oct98 (INPUT)
1	2013	JAN	33.538	34.506	84.240	11.710	11.517	0	0	0	0
2	2013	FEB	29.727	30.676	82.411	11.639	11.533	0	0	0	0
3	2013	MAR	31.828	32.309	81.961	11.543	11.550	0	0	0	0
4	2013	APR	28.969	29.109	82.513	11.482	11.567	0	0	0	0
5	2013	MAY	29.560	29.179	83.271	11.417	11.583	0	0	0	0
6	2013	JUN	44.008	42.377	83.596	11.363	11.600	0	0	0	0
7	2013	JUL	48.246	47.144	83.511	11.293	11.617	0	0	0	0
8	2013	AUG	49.343	47.677	83.259	11.299	11.633	0	0	0	0
9	2013	SEP	46.071	45.010	83.054	11.303	11.650	0	0	0	0
10	2013	OCT	38.047	38.171	82.972	11.302	11.667	0	0	0	0
11	2013	NOV	27.034	27.766	83.055	11.296	11.683	0	0	0	0
12	2013	DEC	31.958	31.741	83.310	11.300	11.700	0	0	0	0
13	2014	JAN	40.608	41.212	83.641	11.289	11.717	0	0	0	0
14	2014	FEB	41.137	43.295	83.899	11.353	11.733	0	0	0	0
15	2014	MAR	32.116	31.406	84.010	11.387	11.750	0	0	0	0
16	2014	APR	27.285	27.232	84.005	11.475	11.767	0	0	0	0
17	2014	MAY	31.277	30.403	83.945	11.576	11.783	0	0	0	0
18	2014	JUN	42.107	41.059	83.892	11.650	11.800	0	0	0	0
19	2014	JUL	48.102	48.975	83.876	11.734	11.822	0	0	0	0
20	2014	AUG	47.183	48.941	83.917	11.806	11.844	0	0	0	0
21	2014	SEP	46.888	48.255	84.026	11.880	11.867	0	0	0	0
22	2014	OCT	35.938	35.695	84.194	11.953	11.889	0	0	0	0
23	2014	NOV	29.289	28.854	84.404	12.046	11.911	0	0	0	0
24	2014	DEC	31.257	31.762	84.633	12.123	11.933	0	0	0	0

VARIABLE	DESCRIPTION
ResSales	Billing Cycle Residential kWh per Customer per Billing Day
RealDispInc	Real Disposable Personal Income Per Household ($000s)
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EnergEff	Energy Efficiency Variable
Ivan	Binary Variable for Hurricane Ivan September 2004
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JunJulAug08	Binary Variable for June-August 2008
Oct98	Binary Variable for October 1998

Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
_X_ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) ResSales (OUTPUT)	(5) ResSales (INPUT)	(6) RealDispInc (INPUT)	(7) ResPrice (INPUT)	(8) EnergEff (INPUT)	(9) Ivan (INPUT)	(10) Isaac (INPUT)	(11) JunJulAug08 (INPUT)	(12) Oct98 (INPUT)
1	2015	JAN	35.819	35.041	84.846	12.216	11.956	0	0	0	0
2	2015	FEB	37.560	37.041	84.987	12.287	11.978	0	0	0	0
3	2015	MAR	32.551	34.436	85.041	12.354	12.000	0	0	0	0
4	2015	APR	27.846	28.981	85.020	12.385	12.022	0	0	0	0
5	2015	MAY	33.012	33.483	84.948	12.421	12.044	0	0	0	0
6	2015	JUN	43.067	43.837	84.851	12.450	12.067	0	0	0	0
7	2015	JUL	50.955	50.737	84.730	12.486	12.089	0	0	0	0
8	2015	AUG	52.975	52.287	84.580	12.526	12.111	0	0	0	0
9	2015	SEP	44.815	45.141	84.415	12.562	12.133	0	0	0	0
10	2015	OCT	36.370		84.272	12.616	12.156	0	0	0	0
11	2015	NOV	26.939		84.199	12.664	12.178	0	0	0	0
12	2015	DEC	29.807		84.228	12.707	12.200	0	0	0	0
13	2016	JAN	36.164		84.342	12.744	12.222	0	0	0	0
14	2016	FEB	34.621		84.500	12.716	12.244	0	0	0	0
15	2016	MAR	29.027		84.676	12.703	12.267	0	0	0	0
16	2016	APR	26.218		84.861	12.705	12.289	0	0	0	0
17	2016	MAY	30.233		85.045	12.687	12.311	0	0	0	0
18	2016	JUN	42.381		85.223	12.677	12.333	0	0	0	0
19	2016	JUL	49.146		85.400	12.670	12.356	0	0	0	0
20	2016	AUG	49.767		85.583	12.657	12.378	0	0	0	0
21	2016	SEP	45.979		85.767	12.649	12.400	0	0	0	0
22	2016	OCT	36.414		85.944	12.630	12.422	0	0	0	0
23	2016	NOV	27.128		86.098	12.610	12.444	0	0	0	0
24	2016	DEC	30.096		86.218	12.588	12.467	0	0	0	0

VARIABLE	DESCRIPTION
ResSales	Billing Cycle Residential kWh per Customer per Billing Day
RealDispInc	Real Disposable Personal Income Per Household ($000s)
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Ivan	Binary Variable for Hurricane Ivan September 2004
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Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
_X_ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
___ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) ResSales (OUTPUT)	(5) ResSales (INPUT)	(6) RealDispInc (INPUT)	(7) ResPrice (INPUT)	(8) EnergEff (INPUT)	(9) Ivan (INPUT)	(10) Isaac (INPUT)	(11) JunJulAug08 (INPUT)	(12) Oct98 (INPUT)
1	2017	JAN	36.516		86.312	12.566	12.489	0	0	0	0
2	2017	FEB	34.926		86.385	12.569	12.511	0	0	0	0
3	2017	MAR	29.293		86.452	12.573	12.533	0	0	0	0
4	2017	APR	26.458		86.518	12.576	12.556	0	0	0	0
5	2017	MAY	30.427		86.584	12.579	12.578	0	0	0	0
6	2017	JUN	42.538		86.650	12.582	12.600	0	0	0	0
7	2017	JUL	49.271		86.717	12.583	12.622	0	0	0	0
8	2017	AUG	49.853		86.785	12.584	12.644	0	0	0	0
9	2017	SEP	46.030		86.851	12.585	12.667	0	0	0	0
10	2017	OCT	36.421		86.917	12.585	12.689	0	0	0	0
11	2017	NOV	27.097		86.982	12.585	12.711	0	0	0	0
12	2017	DEC	30.030		87.044	12.585	12.733	0	0	0	0

VARIABLE	DESCRIPTION
ResSales	Billing Cycle Residential kWh per Customer per Billing Day
RealDispInc	Real Disposable Personal Income Per Household ($000s)
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)	(13) CDHBD_12 (INPUT)
1	1995	OCT	0	0	0	0	0	0	0	232	0	0
2	1995	NOV	0	0	0	0	0	0	0	0	79	0
3	1995	DEC	0	0	0	0	0	0	0	0	0	21
4	1996	JAN	0	0	0	0	0	0	0	0	0	0
5	1996	FEB	0	0	0	0	0	0	0	0	0	0
6	1996	MAR	21	0	0	0	0	0	0	0	0	0
7	1996	APR	0	22	0	0	0	0	0	0	0	0
8	1996	MAY	0	0	133	0	0	0	0	0	0	0
9	1996	JUN	0	0	0	298	0	0	0	0	0	0
10	1996	JUL	0	0	0	0	379	0	0	0	0	0
11	1996	AUG	0	0	0	0	0	367	0	0	0	0
12	1996	SEP	0	0	0	0	0	0	316	0	0	0
13	1996	OCT	0	0	0	0	0	0	0	190	0	0
14	1996	NOV	0	0	0	0	0	0	0	0	94	0
15	1996	DEC	0	0	0	0	0	0	0	0	0	31

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Residential Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)	(13) CDHBD_12 (INPUT)
1	1997	JAN	0	0	0	0	0	0	0	0	0	0
2	1997	FEB	0	0	0	0	0	0	0	0	0	0
3	1997	MAR	46	0	0	0	0	0	0	0	0	0
4	1997	APR	0	65	0	0	0	0	0	0	0	0
5	1997	MAY	0	0	102	0	0	0	0	0	0	0
6	1997	JUN	0	0	0	221	0	0	0	0	0	0
7	1997	JUL	0	0	0	0	340	0	0	0	0	0
8	1997	AUG	0	0	0	0	0	339	0	0	0	0
9	1997	SEP	0	0	0	0	0	0	335	0	0	0
10	1997	OCT	0	0	0	0	0	0	0	231	0	0
11	1997	NOV	0	0	0	0	0	0	0	0	50	0
12	1997	DEC	0	0	0	0	0	0	0	0	0	8
13	1998	JAN	0	0	0	0	0	0	0	0	0	0
14	1998	FEB	0	0	0	0	0	0	0	0	0	0
15	1998	MAR	7	0	0	0	0	0	0	0	0	0
16	1998	APR	0	44	0	0	0	0	0	0	0	0
17	1998	MAY	0	0	145	0	0	0	0	0	0	0
18	1998	JUN	0	0	0	341	0	0	0	0	0	0
19	1998	JUL	0	0	0	0	403	0	0	0	0	0
20	1998	AUG	0	0	0	0	0	355	0	0	0	0
21	1998	SEP	0	0	0	0	0	0	326	0	0	0
22	1998	OCT	0	0	0	0	0	0	0	229	0	0
23	1998	NOV	0	0	0	0	0	0	0	0	93	0
24	1998	DEC	0	0	0	0	0	0	0	0	0	45

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Residential Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)	(13) CDHBD_12 (INPUT)
1	1999	JAN	0	0	0	0	0	0	0	0	0	0
2	1999	FEB	0	0	0	0	0	0	0	0	0	0
3	1999	MAR	13	0	0	0	0	0	0	0	0	0
4	1999	APR	0	65	0	0	0	0	0	0	0	0
5	1999	MAY	0	0	143	0	0	0	0	0	0	0
6	1999	JUN	0	0	0	239	0	0	0	0	0	0
7	1999	JUL	0	0	0	0	323	0	0	0	0	0
8	1999	AUG	0	0	0	0	0	378	0	0	0	0
9	1999	SEP	0	0	0	0	0	0	331	0	0	0
10	1999	OCT	0	0	0	0	0	0	0	185	0	0
11	1999	NOV	0	0	0	0	0	0	0	0	67	0
12	1999	DEC	0	0	0	0	0	0	0	0	0	17
13	2000	JAN	0	0	0	0	0	0	0	0	0	0
14	2000	FEB	0	0	0	0	0	0	0	0	0	0
15	2000	MAR	29	0	0	0	0	0	0	0	0	0
16	2000	APR	0	52	0	0	0	0	0	0	0	0
17	2000	MAY	0	0	131	0	0	0	0	0	0	0
18	2000	JUN	0	0	0	293	0	0	0	0	0	0
19	2000	JUL	0	0	0	0	384	0	0	0	0	0
20	2000	AUG	0	0	0	0	0	382	0	0	0	0
21	2000	SEP	0	0	0	0	0	0	329	0	0	0
22	2000	OCT	0	0	0	0	0	0	0	164	0	0
23	2000	NOV	0	0	0	0	0	0	0	0	93	0
24	2000	DEC	0	0	0	0	0	0	0	0	0	11

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Residential Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)	(13) CDHBD_12 (INPUT)
1	2001	JAN	0	0	0	0	0	0	0	0	0	0
2	2001	FEB	0	0	0	0	0	0	0	0	0	0
3	2001	MAR	20	0	0	0	0	0	0	0	0	0
4	2001	APR	0	53	0	0	0	0	0	0	0	0
5	2001	MAY	0	0	124	0	0	0	0	0	0	0
6	2001	JUN	0	0	0	262	0	0	0	0	0	0
7	2001	JUL	0	0	0	0	311	0	0	0	0	0
8	2001	AUG	0	0	0	0	0	326	0	0	0	0
9	2001	SEP	0	0	0	0	0	0	289	0	0	0
10	2001	OCT	0	0	0	0	0	0	0	147	0	0
11	2001	NOV	0	0	0	0	0	0	0	0	71	0
12	2001	DEC	0	0	0	0	0	0	0	0	0	43
13	2002	JAN	0	0	0	0	0	0	0	0	0	0
14	2002	FEB	0	0	0	0	0	0	0	0	0	0
15	2002	MAR	11	0	0	0	0	0	0	0	0	0
16	2002	APR	0	56	0	0	0	0	0	0	0	0
17	2002	MAY	0	0	197	0	0	0	0	0	0	0
18	2002	JUN	0	0	0	248	0	0	0	0	0	0
19	2002	JUL	0	0	0	0	313	0	0	0	0	0
20	2002	AUG	0	0	0	0	0	333	0	0	0	0
21	2002	SEP	0	0	0	0	0	0	319	0	0	0
22	2002	OCT	0	0	0	0	0	0	0	239	0	0
23	2002	NOV	0	0	0	0	0	0	0	0	73	0
24	2002	DEC	0	0	0	0	0	0	0	0	0	8

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Residential Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)	(13) CDHBD_12 (INPUT)
1	2003	JAN	0	0	0	0	0	0	0	0	0	0
2	2003	FEB	0	0	0	0	0	0	0	0	0	0
3	2003	MAR	18	0	0	0	0	0	0	0	0	0
4	2003	APR	0	57	0	0	0	0	0	0	0	0
5	2003	MAY	0	0	174	0	0	0	0	0	0	0
6	2003	JUN	0	0	0	261	0	0	0	0	0	0
7	2003	JUL	0	0	0	0	290	0	0	0	0	0
8	2003	AUG	0	0	0	0	0	301	0	0	0	0
9	2003	SEP	0	0	0	0	0	0	296	0	0	0
10	2003	OCT	0	0	0	0	0	0	0	153	0	0
11	2003	NOV	0	0	0	0	0	0	0	0	91	0
12	2003	DEC	0	0	0	0	0	0	0	0	0	24
13	2004	JAN	0	0	0	0	0	0	0	0	0	0
14	2004	FEB	0	0	0	0	0	0	0	0	0	0
15	2004	MAR	17	0	0	0	0	0	0	0	0	0
16	2004	APR	0	45	0	0	0	0	0	0	0	0
17	2004	MAY	0	0	117	0	0	0	0	0	0	0
18	2004	JUN	0	0	0	268	0	0	0	0	0	0
19	2004	JUL	0	0	0	0	323	0	0	0	0	0
20	2004	AUG	0	0	0	0	0	329	0	0	0	0
21	2004	SEP	0	0	0	0	0	0	290	0	0	0
22	2004	OCT	0	0	0	0	0	0	0	228	0	0
23	2004	NOV	0	0	0	0	0	0	0	0	124	0
24	2004	DEC	0	0	0	0	0	0	0	0	0	26

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Residential Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)	(13) CDHBD_12 (INPUT)
1	2005	JAN	0	0	0	0	0	0	0	0	0	0
2	2005	FEB	0	0	0	0	0	0	0	0	0	0
3	2005	MAR	11	0	0	0	0	0	0	0	0	0
4	2005	APR	0	29	0	0	0	0	0	0	0	0
5	2005	MAY	0	0	92	0	0	0	0	0	0	0
6	2005	JUN	0	0	0	257	0	0	0	0	0	0
7	2005	JUL	0	0	0	0	340	0	0	0	0	0
8	2005	AUG	0	0	0	0	0	341	0	0	0	0
9	2005	SEP	0	0	0	0	0	0	353	0	0	0
10	2005	OCT	0	0	0	0	0	0	0	270	0	0
11	2005	NOV	0	0	0	0	0	0	0	0	79	0
12	2005	DEC	0	0	0	0	0	0	0	0	0	27
13	2006	JAN	0	0	0	0	0	0	0	0	0	0
14	2006	FEB	0	0	0	0	0	0	0	0	0	0
15	2006	MAR	31	0	0	0	0	0	0	0	0	0
16	2006	APR	0	86	0	0	0	0	0	0	0	0
17	2006	MAY	0	0	164	0	0	0	0	0	0	0
18	2006	JUN	0	0	0	301	0	0	0	0	0	0
19	2006	JUL	0	0	0	0	385	0	0	0	0	0
20	2006	AUG	0	0	0	0	0	355	0	0	0	0
21	2006	SEP	0	0	0	0	0	0	320	0	0	0
22	2006	OCT	0	0	0	0	0	0	0	200	0	0
23	2006	NOV	0	0	0	0	0	0	0	0	54	0
24	2006	DEC	0	0	0	0	0	0	0	0	0	12

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Residential Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)	(13) CDHBD_12 (INPUT)
1	2007	JAN	0	0	0	0	0	0	0	0	0	0
2	2007	FEB	0	0	0	0	0	0	0	0	0	0
3	2007	MAR	20	0	0	0	0	0	0	0	0	0
4	2007	APR	0	63	0	0	0	0	0	0	0	0
5	2007	MAY	0	0	147	0	0	0	0	0	0	0
6	2007	JUN	0	0	0	248	0	0	0	0	0	0
7	2007	JUL	0	0	0	0	344	0	0	0	0	0
8	2007	AUG	0	0	0	0	0	380	0	0	0	0
9	2007	SEP	0	0	0	0	0	0	353	0	0	0
10	2007	OCT	0	0	0	0	0	0	0	243	0	0
11	2007	NOV	0	0	0	0	0	0	0	0	70	0
12	2007	DEC	0	0	0	0	0	0	0	0	0	19
13	2008	JAN	0	0	0	0	0	0	0	0	0	0
14	2008	FEB	0	0	0	0	0	0	0	0	0	0
15	2008	MAR	10	0	0	0	0	0	0	0	0	0
16	2008	APR	0	43	0	0	0	0	0	0	0	0
17	2008	MAY	0	0	133	0	0	0	0	0	0	0
18	2008	JUN	0	0	0	318	0	0	0	0	0	0
19	2008	JUL	0	0	0	0	368	0	0	0	0	0
20	2008	AUG	0	0	0	0	0	387	0	0	0	0
21	2008	SEP	0	0	0	0	0	0	339	0	0	0
22	2008	OCT	0	0	0	0	0	0	0	182	0	0
23	2008	NOV	0	0	0	0	0	0	0	0	47	0
24	2008	DEC	0	0	0	0	0	0	0	0	0	15

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Residential Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)	(13) CDHBD_12 (INPUT)
1	2009	JAN	0	0	0	0	0	0	0	0	0	0
2	2009	FEB	0	0	0	0	0	0	0	0	0	0
3	2009	MAR	19	0	0	0	0	0	0	0	0	0
4	2009	APR	0	38	0	0	0	0	0	0	0	0
5	2009	MAY	0	0	142	0	0	0	0	0	0	0
6	2009	JUN	0	0	0	270	0	0	0	0	0	0
7	2009	JUL	0	0	0	0	382	0	0	0	0	0
8	2009	AUG	0	0	0	0	0	325	0	0	0	0
9	2009	SEP	0	0	0	0	0	0	270	0	0	0
10	2009	OCT	0	0	0	0	0	0	0	236	0	0
11	2009	NOV	0	0	0	0	0	0	0	0	69	0
12	2009	DEC	0	0	0	0	0	0	0	0	0	9
13	2010	JAN	0	0	0	0	0	0	0	0	0	0
14	2010	FEB	0	0	0	0	0	0	0	0	0	0
15	2010	MAR	1	0	0	0	0	0	0	0	0	0
16	2010	APR	0	33	0	0	0	0	0	0	0	0
17	2010	MAY	0	0	133	0	0	0	0	0	0	0
18	2010	JUN	0	0	0	295	0	0	0	0	0	0
19	2010	JUL	0	0	0	0	369	0	0	0	0	0
20	2010	AUG	0	0	0	0	0	413	0	0	0	0
21	2010	SEP	0	0	0	0	0	0	340	0	0	0
22	2010	OCT	0	0	0	0	0	0	0	213	0	0
23	2010	NOV	0	0	0	0	0	0	0	0	94	0
24	2010	DEC	0	0	0	0	0	0	0	0	0	22

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Residential Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

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DOCKET NO.: 160186-EI

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Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)	(13) CDHBD_12 (INPUT)
1	2011	JAN	0	0	0	0	0	0	0	0	0	0
2	2011	FEB	0	0	0	0	0	0	0	0	0	0
3	2011	MAR	28	0	0	0	0	0	0	0	0	0
4	2011	APR	0	89	0	0	0	0	0	0	0	0
5	2011	MAY	0	0	157	0	0	0	0	0	0	0
6	2011	JUN	0	0	0	312	0	0	0	0	0	0
7	2011	JUL	0	0	0	0	390	0	0	0	0	0
8	2011	AUG	0	0	0	0	0	388	0	0	0	0
9	2011	SEP	0	0	0	0	0	0	328	0	0	0
10	2011	OCT	0	0	0	0	0	0	0	161	0	0
11	2011	NOV	0	0	0	0	0	0	0	0	52	0
12	2011	DEC	0	0	0	0	0	0	0	0	0	22
13	2012	JAN	0	0	0	0	0	0	0	0	0	0
14	2012	FEB	0	0	0	0	0	0	0	0	0	0
15	2012	MAR	37	0	0	0	0	0	0	0	0	0
16	2012	APR	0	104	0	0	0	0	0	0	0	0
17	2012	MAY	0	0	166	0	0	0	0	0	0	0
18	2012	JUN	0	0	0	298	0	0	0	0	0	0
19	2012	JUL	0	0	0	0	342	0	0	0	0	0
20	2012	AUG	0	0	0	0	0	353	0	0	0	0
21	2012	SEP	0	0	0	0	0	0	314	0	0	0
22	2012	OCT	0	0	0	0	0	0	0	192	0	0
23	2012	NOV	0	0	0	0	0	0	0	0	67	0
24	2012	DEC	0	0	0	0	0	0	0	0	0	21

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Residential Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

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DOCKET NO.: 160186-EI

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Type of Data Shown:
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_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)	(13) CDHBD_12 (INPUT)
1	2013	JAN	0	0	0	0	0	0	0	0	0	0
2	2013	FEB	0	0	0	0	0	0	0	0	0	0
3	2013	MAR	9	0	0	0	0	0	0	0	0	0
4	2013	APR	0	43	0	0	0	0	0	0	0	0
5	2013	MAY	0	0	103	0	0	0	0	0	0	0
6	2013	JUN	0	0	0	277	0	0	0	0	0	0
7	2013	JUL	0	0	0	0	329	0	0	0	0	0
8	2013	AUG	0	0	0	0	0	343	0	0	0	0
9	2013	SEP	0	0	0	0	0	0	322	0	0	0
10	2013	OCT	0	0	0	0	0	0	0	223	0	0
11	2013	NOV	0	0	0	0	0	0	0	0	70	0
12	2013	DEC	0	0	0	0	0	0	0	0	0	28
13	2014	JAN	0	0	0	0	0	0	0	0	0	0
14	2014	FEB	0	0	0	0	0	0	0	0	0	0
15	2014	MAR	10	0	0	0	0	0	0	0	0	0
16	2014	APR	0	38	0	0	0	0	0	0	0	0
17	2014	MAY	0	0	134	0	0	0	0	0	0	0
18	2014	JUN	0	0	0	263	0	0	0	0	0	0
19	2014	JUL	0	0	0	0	333	0	0	0	0	0
20	2014	AUG	0	0	0	0	0	311	0	0	0	0
21	2014	SEP	0	0	0	0	0	0	311	0	0	0
22	2014	OCT	0	0	0	0	0	0	0	174	0	0
23	2014	NOV	0	0	0	0	0	0	0	0	60	0
24	2014	DEC	0	0	0	0	0	0	0	0	0	12

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Residential Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

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DOCKET NO.: 160186-EI

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Type of Data Shown:
___ Projected Test Year Ended 12/31/17
_X_ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)	(13) CDHBD_12 (INPUT)
1	2015	JAN	0	0	0	0	0	0	0	0	0	0
2	2015	FEB	0	0	0	0	0	0	0	0	0	0
3	2015	MAR	23	0	0	0	0	0	0	0	0	0
4	2015	APR	0	87	0	0	0	0	0	0	0	0
5	2015	MAY	0	0	159	0	0	0	0	0	0	0
6	2015	JUN	0	0	0	272	0	0	0	0	0	0
7	2015	JUL	0	0	0	0	360	0	0	0	0	0
8	2015	AUG	0	0	0	0	0	388	0	0	0	0
9	2015	SEP	0	0	0	0	0	0	310	0	0	0
10	2015	OCT	0	0	0	0	0	0	0	205	0	0
11	2015	NOV	0	0	0	0	0	0	0	0	75	0
12	2015	DEC	0	0	0	0	0	0	0	0	0	21
13	2016	JAN	0	0	0	0	0	0	0	0	0	0
14	2016	FEB	0	0	0	0	0	0	0	0	0	0
15	2016	MAR	19	0	0	0	0	0	0	0	0	0
16	2016	APR	0	56	0	0	0	0	0	0	0	0
17	2016	MAY	0	0	140	0	0	0	0	0	0	0
18	2016	JUN	0	0	0	277	0	0	0	0	0	0
19	2016	JUL	0	0	0	0	350	0	0	0	0	0
20	2016	AUG	0	0	0	0	0	355	0	0	0	0
21	2016	SEP	0	0	0	0	0	0	323	0	0	0
22	2016	OCT	0	0	0	0	0	0	0	205	0	0
23	2016	NOV	0	0	0	0	0	0	0	0	75	0
24	2016	DEC	0	0	0	0	0	0	0	0	0	21

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Residential Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

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DOCKET NO.: 160186-EI

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Type of Data Shown:
_X_ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
___ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)	(13) CDHBD_12 (INPUT)
1	2017	JAN	0	0	0	0	0	0	0	0	0	0
2	2017	FEB	0	0	0	0	0	0	0	0	0	0
3	2017	MAR	19	0	0	0	0	0	0	0	0	0
4	2017	APR	0	56	0	0	0	0	0	0	0	0
5	2017	MAY	0	0	140	0	0	0	0	0	0	0
6	2017	JUN	0	0	0	277	0	0	0	0	0	0
7	2017	JUL	0	0	0	0	350	0	0	0	0	0
8	2017	AUG	0	0	0	0	0	355	0	0	0	0
9	2017	SEP	0	0	0	0	0	0	323	0	0	0
10	2017	OCT	0	0	0	0	0	0	0	205	0	0
11	2017	NOV	0	0	0	0	0	0	0	0	75	0
12	2017	DEC	0	0	0	0	0	0	0	0	0	21

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Residential Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_11 (INPUT)	(9) HDHBD_12 (INPUT)
1	1995	OCT	0	0	0	0	0	0
2	1995	NOV	0	0	0	0	50	0
3	1995	DEC	0	0	0	0	0	144
4	1996	JAN	275	0	0	0	0	0
5	1996	FEB	0	252	0	0	0	0
6	1996	MAR	0	0	156	0	0	0
7	1996	APR	0	0	0	81	0	0
8	1996	MAY	0	0	0	0	0	0
9	1996	JUN	0	0	0	0	0	0
10	1996	JUL	0	0	0	0	0	0
11	1996	AUG	0	0	0	0	0	0
12	1996	SEP	0	0	0	0	0	0
13	1996	OCT	0	0	0	0	0	0
14	1996	NOV	0	0	0	0	42	0
15	1996	DEC	0	0	0	0	0	115

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Residential Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_11 (INPUT)	(9) HDHBD_12 (INPUT)
1	1997	JAN	179	0	0	0	0	0
2	1997	FEB	0	179	0	0	0	0
3	1997	MAR	0	0	63	0	0	0
4	1997	APR	0	0	0	22	0	0
5	1997	MAY	0	0	0	0	0	0
6	1997	JUN	0	0	0	0	0	0
7	1997	JUL	0	0	0	0	0	0
8	1997	AUG	0	0	0	0	0	0
9	1997	SEP	0	0	0	0	0	0
10	1997	OCT	0	0	0	0	0	0
11	1997	NOV	0	0	0	0	75	0
12	1997	DEC	0	0	0	0	0	155
13	1998	JAN	179	0	0	0	0	0
14	1998	FEB	0	175	0	0	0	0
15	1998	MAR	0	0	131	0	0	0
16	1998	APR	0	0	0	51	0	0
17	1998	MAY	0	0	0	0	0	0
18	1998	JUN	0	0	0	0	0	0
19	1998	JUL	0	0	0	0	0	0
20	1998	AUG	0	0	0	0	0	0
21	1998	SEP	0	0	0	0	0	0
22	1998	OCT	0	0	0	0	0	0
23	1998	NOV	0	0	0	0	24	0
24	1998	DEC	0	0	0	0	0	46

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Residential Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_11 (INPUT)	(9) HDHBD_12 (INPUT)
1	1999	JAN	206	0	0	0	0	0
2	1999	FEB	0	87	0	0	0	0
3	1999	MAR	0	0	102	0	0	0
4	1999	APR	0	0	0	37	0	0
5	1999	MAY	0	0	0	0	0	0
6	1999	JUN	0	0	0	0	0	0
7	1999	JUL	0	0	0	0	0	0
8	1999	AUG	0	0	0	0	0	0
9	1999	SEP	0	0	0	0	0	0
10	1999	OCT	0	0	0	0	0	0
11	1999	NOV	0	0	0	0	50	0
12	1999	DEC	0	0	0	0	0	109
13	2000	JAN	170	0	0	0	0	0
14	2000	FEB	0	207	0	0	0	0
15	2000	MAR	0	0	57	0	0	0
16	2000	APR	0	0	0	31	0	0
17	2000	MAY	0	0	0	0	0	0
18	2000	JUN	0	0	0	0	0	0
19	2000	JUL	0	0	0	0	0	0
20	2000	AUG	0	0	0	0	0	0
21	2000	SEP	0	0	0	0	0	0
22	2000	OCT	0	0	0	0	0	0
23	2000	NOV	0	0	0	0	52	0
24	2000	DEC	0	0	0	0	0	208

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Residential Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_11 (INPUT)	(9) HDHBD_12 (INPUT)
1	2001	JAN	348	0	0	0	0	0
2	2001	FEB	0	183	0	0	0	0
3	2001	MAR	0	0	77	0	0	0
4	2001	APR	0	0	0	51	0	0
5	2001	MAY	0	0	0	0	0	0
6	2001	JUN	0	0	0	0	0	0
7	2001	JUL	0	0	0	0	0	0
8	2001	AUG	0	0	0	0	0	0
9	2001	SEP	0	0	0	0	0	0
10	2001	OCT	0	0	0	0	0	0
11	2001	NOV	0	0	0	0	39	0
12	2001	DEC	0	0	0	0	0	61
13	2002	JAN	246	0	0	0	0	0
14	2002	FEB	0	153	0	0	0	0
15	2002	MAR	0	0	174	0	0	0
16	2002	APR	0	0	0	35	0	0
17	2002	MAY	0	0	0	0	0	0
18	2002	JUN	0	0	0	0	0	0
19	2002	JUL	0	0	0	0	0	0
20	2002	AUG	0	0	0	0	0	0
21	2002	SEP	0	0	0	0	0	0
22	2002	OCT	0	0	0	0	0	0
23	2002	NOV	0	0	0	0	43	0
24	2002	DEC	0	0	0	0	0	183

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Residential Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_11 (INPUT)	(9) HDHBD_12 (INPUT)
1	2003	JAN	251	0	0	0	0	0
2	2003	FEB	0	233	0	0	0	0
3	2003	MAR	0	0	71	0	0	0
4	2003	APR	0	0	0	35	0	0
5	2003	MAY	0	0	0	0	0	0
6	2003	JUN	0	0	0	0	0	0
7	2003	JUL	0	0	0	0	0	0
8	2003	AUG	0	0	0	0	0	0
9	2003	SEP	0	0	0	0	0	0
10	2003	OCT	0	0	0	0	0	0
11	2003	NOV	0	0	0	0	20	0
12	2003	DEC	0	0	0	0	0	166
13	2004	JAN	233	0	0	0	0	0
14	2004	FEB	0	221	0	0	0	0
15	2004	MAR	0	0	113	0	0	0
16	2004	APR	0	0	0	47	0	0
17	2004	MAY	0	0	0	0	0	0
18	2004	JUN	0	0	0	0	0	0
19	2004	JUL	0	0	0	0	0	0
20	2004	AUG	0	0	0	0	0	0
21	2004	SEP	0	0	0	0	0	0
22	2004	OCT	0	0	0	0	0	0
23	2004	NOV	0	0	0	0	14	0
24	2004	DEC	0	0	0	0	0	110

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Residential Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
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_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_11 (INPUT)	(9) HDHBD_12 (INPUT)
1	2005	JAN	182	0	0	0	0	0
2	2005	FEB	0	164	0	0	0	0
3	2005	MAR	0	0	105	0	0	0
4	2005	APR	0	0	0	35	0	0
5	2005	MAY	0	0	0	0	0	0
6	2005	JUN	0	0	0	0	0	0
7	2005	JUL	0	0	0	0	0	0
8	2005	AUG	0	0	0	0	0	0
9	2005	SEP	0	0	0	0	0	0
10	2005	OCT	0	0	0	0	0	0
11	2005	NOV	0	0	0	0	43	0
12	2005	DEC	0	0	0	0	0	132
13	2006	JAN	148	0	0	0	0	0
14	2006	FEB	0	127	0	0	0	0
15	2006	MAR	0	0	80	0	0	0
16	2006	APR	0	0	0	33	0	0
17	2006	MAY	0	0	0	0	0	0
18	2006	JUN	0	0	0	0	0	0
19	2006	JUL	0	0	0	0	0	0
20	2006	AUG	0	0	0	0	0	0
21	2006	SEP	0	0	0	0	0	0
22	2006	OCT	0	0	0	0	0	0
23	2006	NOV	0	0	0	0	62	0
24	2006	DEC	0	0	0	0	0	159

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Residential Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
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_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_11 (INPUT)	(9) HDHBD_12 (INPUT)
1	2007	JAN	128	0	0	0	0	0
2	2007	FEB	0	230	0	0	0	0
3	2007	MAR	0	0	107	0	0	0
4	2007	APR	0	0	0	38	0	0
5	2007	MAY	0	0	0	0	0	0
6	2007	JUN	0	0	0	0	0	0
7	2007	JUL	0	0	0	0	0	0
8	2007	AUG	0	0	0	0	0	0
9	2007	SEP	0	0	0	0	0	0
10	2007	OCT	0	0	0	0	0	0
11	2007	NOV	0	0	0	0	44	0
12	2007	DEC	0	0	0	0	0	94
13	2008	JAN	186	0	0	0	0	0
14	2008	FEB	0	182	0	0	0	0
15	2008	MAR	0	0	113	0	0	0
16	2008	APR	0	0	0	41	0	0
17	2008	MAY	0	0	0	0	0	0
18	2008	JUN	0	0	0	0	0	0
19	2008	JUL	0	0	0	0	0	0
20	2008	AUG	0	0	0	0	0	0
21	2008	SEP	0	0	0	0	0	0
22	2008	OCT	0	0	0	0	0	0
23	2008	NOV	0	0	0	0	70	0
24	2008	DEC	0	0	0	0	0	152

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Residential Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

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___ Projected Test Year Ended 12/31/17
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_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_11 (INPUT)	(9) HDHBD_12 (INPUT)
1	2009	JAN	139	0	0	0	0	0
2	2009	FEB	0	210	0	0	0	0
3	2009	MAR	0	0	110	0	0	0
4	2009	APR	0	0	0	25	0	0
5	2009	MAY	0	0	0	0	0	0
6	2009	JUN	0	0	0	0	0	0
7	2009	JUL	0	0	0	0	0	0
8	2009	AUG	0	0	0	0	0	0
9	2009	SEP	0	0	0	0	0	0
10	2009	OCT	0	0	0	0	0	0
11	2009	NOV	0	0	0	0	46	0
12	2009	DEC	0	0	0	0	0	147
13	2010	JAN	317	0	0	0	0	0
14	2010	FEB	0	267	0	0	0	0
15	2010	MAR	0	0	227	0	0	0
16	2010	APR	0	0	0	49	0	0
17	2010	MAY	0	0	0	0	0	0
18	2010	JUN	0	0	0	0	0	0
19	2010	JUL	0	0	0	0	0	0
20	2010	AUG	0	0	0	0	0	0
21	2010	SEP	0	0	0	0	0	0
22	2010	OCT	0	0	0	0	0	0
23	2010	NOV	0	0	0	0	38	0
24	2010	DEC	0	0	0	0	0	191

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Residential Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

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___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_11 (INPUT)	(9) HDHBD_12 (INPUT)
1	2011	JAN	280	0	0	0	0	0
2	2011	FEB	0	250	0	0	0	0
3	2011	MAR	0	0	84	0	0	0
4	2011	APR	0	0	0	23	0	0
5	2011	MAY	0	0	0	0	0	0
6	2011	JUN	0	0	0	0	0	0
7	2011	JUL	0	0	0	0	0	0
8	2011	AUG	0	0	0	0	0	0
9	2011	SEP	0	0	0	0	0	0
10	2011	OCT	0	0	0	0	0	0
11	2011	NOV	0	0	0	0	56	0
12	2011	DEC	0	0	0	0	0	114
13	2012	JAN	117	0	0	0	0	0
14	2012	FEB	0	91	0	0	0	0
15	2012	MAR	0	0	48	0	0	0
16	2012	APR	0	0	0	4	0	0
17	2012	MAY	0	0	0	0	0	0
18	2012	JUN	0	0	0	0	0	0
19	2012	JUL	0	0	0	0	0	0
20	2012	AUG	0	0	0	0	0	0
21	2012	SEP	0	0	0	0	0	0
22	2012	OCT	0	0	0	0	0	0
23	2012	NOV	0	0	0	0	52	0
24	2012	DEC	0	0	0	0	0	93

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Residential Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_11 (INPUT)	(9) HDHBD_12 (INPUT)
1	2013	JAN	153	0	0	0	0	0
2	2013	FEB	0	102	0	0	0	0
3	2013	MAR	0	0	131	0	0	0
4	2013	APR	0	0	0	59	0	0
5	2013	MAY	0	0	0	0	0	0
6	2013	JUN	0	0	0	0	0	0
7	2013	JUL	0	0	0	0	0	0
8	2013	AUG	0	0	0	0	0	0
9	2013	SEP	0	0	0	0	0	0
10	2013	OCT	0	0	0	0	0	0
11	2013	NOV	0	0	0	0	33	0
12	2013	DEC	0	0	0	0	0	132
13	2014	JAN	244	0	0	0	0	0
14	2014	FEB	0	249	0	0	0	0
15	2014	MAR	0	0	121	0	0	0
16	2014	APR	0	0	0	43	0	0
17	2014	MAY	0	0	0	0	0	0
18	2014	JUN	0	0	0	0	0	0
19	2014	JUL	0	0	0	0	0	0
20	2014	AUG	0	0	0	0	0	0
21	2014	SEP	0	0	0	0	0	0
22	2014	OCT	0	0	0	0	0	0
23	2014	NOV	0	0	0	0	86	0
24	2014	DEC	0	0	0	0	0	150

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Residential Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
_X_ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_11 (INPUT)	(9) HDHBD_12 (INPUT)
1	2015	JAN	189	0	0	0	0	0
2	2015	FEB	0	221	0	0	0	0
3	2015	MAR	0	0	154	0	0	0
4	2015	APR	0	0	0	15	0	0
5	2015	MAY	0	0	0	0	0	0
6	2015	JUN	0	0	0	0	0	0
7	2015	JUL	0	0	0	0	0	0
8	2015	AUG	0	0	0	0	0	0
9	2015	SEP	0	0	0	0	0	0
10	2015	OCT	0	0	0	0	0	0
11	2015	NOV	0	0	0	0	47	0
12	2015	DEC	0	0	0	0	0	133
13	2016	JAN	208	0	0	0	0	0
14	2016	FEB	0	189	0	0	0	0
15	2016	MAR	0	0	111	0	0	0
16	2016	APR	0	0	0	38	0	0
17	2016	MAY	0	0	0	0	0	0
18	2016	JUN	0	0	0	0	0	0
19	2016	JUL	0	0	0	0	0	0
20	2016	AUG	0	0	0	0	0	0
21	2016	SEP	0	0	0	0	0	0
22	2016	OCT	0	0	0	0	0	0
23	2016	NOV	0	0	0	0	47	0
24	2016	DEC	0	0	0	0	0	133

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Residential Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
_X_ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
___ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: RESIDENTIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_11 (INPUT)	(9) HDHBD_12 (INPUT)
1	2017	JAN	208	0	0	0	0	0
2	2017	FEB	0	189	0	0	0	0
3	2017	MAR	0	0	111	0	0	0
4	2017	APR	0	0	0	38	0	0
5	2017	MAY	0	0	0	0	0	0
6	2017	JUN	0	0	0	0	0	0
7	2017	JUL	0	0	0	0	0	0
8	2017	AUG	0	0	0	0	0	0
9	2017	SEP	0	0	0	0	0	0
10	2017	OCT	0	0	0	0	0	0
11	2017	NOV	0	0	0	0	47	0
12	2017	DEC	0	0	0	0	0	133

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Residential Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) SmComSales (OUTPUT)	(5) SmComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Bin_0897 (INPUT)	(10) Bin_Com (INPUT)
1	1995	OCT		27.870	34.826	7.928	0	0	0
2	1995	NOV	21.734	21.342	34.914	7.919	0	0	0
3	1995	DEC	21.749	21.468	34.992	7.918	0	0	0
4	1996	JAN	26.488	27.021	35.065	7.920	0	0	0
5	1996	FEB	27.147	26.314	35.139	7.880	0	0	0
6	1996	MAR	23.274	23.303	35.222	7.874	0	0	0
7	1996	APR	21.722	21.232	35.304	7.873	0	0	0
8	1996	MAY	23.851	22.542	35.368	7.861	0	0	0
9	1996	JUN	30.035	30.096	35.402	7.845	0	0	0
10	1996	JUL	33.815	32.909	35.401	7.830	0	0	0
11	1996	AUG	33.386	32.280	35.366	7.806	0	0	0
12	1996	SEP	30.717	30.737	35.300	7.797	0	0	0
13	1996	OCT	26.524	26.567	35.217	7.774	0	0	0
14	1996	NOV	22.621	21.165	35.133	7.763	0	0	0
15	1996	DEC	20.663	21.044	35.061	7.761	0	0	0

VARIABLE	DESCRIPTION
SmComSales	Billing Cycle Small Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
ComPrice	12-Month Average of Real Commercial Price (cents per kWh)
Ivan	Binary Variable for Hurricane Ivan September 2004
Bin_0897	Binary Variable for August 1997
Bin_Com	Binary Variable to address residuals beginning in May 2012

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

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___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) SmComSales (OUTPUT)	(5) SmComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Bin_0897 (INPUT)	(10) Bin_Com (INPUT)
1	1997	JAN	23.907	24.033	34.994	7.750	0	0	0
2	1997	FEB	24.674	21.713	34.928	7.755	0	0	0
3	1997	MAR	19.133	21.000	34.853	7.736	0	0	0
4	1997	APR	21.448	20.486	34.777	7.708	0	0	0
5	1997	MAY	22.466	20.467	34.717	7.668	0	0	0
6	1997	JUN	26.390	25.908	34.685	7.640	0	0	0
7	1997	JUL	31.497	34.174	34.685	7.623	0	0	0
8	1997	AUG	28.561	28.142	34.718	7.608	0	1	0
9	1997	SEP	33.000	32.332	34.780	7.582	0	0	0
10	1997	OCT	28.819	29.322	34.859	7.557	0	0	0
11	1997	NOV	21.591	21.764	34.942	7.517	0	0	0
12	1997	DEC	23.051	21.913	35.019	7.479	0	0	0
13	1998	JAN	23.978	23.275	35.093	7.422	0	0	0
14	1998	FEB	24.188	25.273	35.170	7.401	0	0	0
15	1998	MAR	23.514	21.159	35.255	7.371	0	0	0
16	1998	APR	20.681	22.546	35.347	7.329	0	0	0
17	1998	MAY	25.341	25.479	35.433	7.265	0	0	0
18	1998	JUN	33.454	34.561	35.505	7.188	0	0	0
19	1998	JUL	36.656	39.446	35.560	7.109	0	0	0
20	1998	AUG	36.564	35.367	35.599	7.050	0	0	0
21	1998	SEP	33.526	33.337	35.622	6.986	0	0	0
22	1998	OCT	29.743	34.010	35.635	6.907	0	0	0
23	1998	NOV	26.392	25.986	35.646	6.885	0	0	0
24	1998	DEC	22.476	24.426	35.662	6.782	0	0	0

VARIABLE	DESCRIPTION
SmComSales	Billing Cycle Small Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
ComPrice	12-Month Average of Real Commercial Price (cents per kWh)
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) SmComSales (OUTPUT)	(5) SmComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Bin_0897 (INPUT)	(10) Bin_Com (INPUT)
1	1999	JAN	27.944	27.466	35.681	6.724	0	0	0
2	1999	FEB	23.767	20.849	35.702	6.659	0	0	0
3	1999	MAR	21.767	24.260	35.722	6.590	0	0	0
4	1999	APR	23.448	25.246	35.740	6.541	0	0	0
5	1999	MAY	26.978	28.096	35.751	6.533	0	0	0
6	1999	JUN	31.180	32.626	35.751	6.529	0	0	0
7	1999	JUL	34.852	37.219	35.739	6.530	0	0	0
8	1999	AUG	38.175	38.619	35.713	6.521	0	0	0
9	1999	SEP	35.198	36.477	35.676	6.517	0	0	0
10	1999	OCT	29.787	29.889	35.631	6.541	0	0	0
11	1999	NOV	23.978	26.801	35.586	6.509	0	0	0
12	1999	DEC	24.963	24.373	35.545	6.520	0	0	0
13	2000	JAN	26.037	25.542	35.503	6.518	0	0	0
14	2000	FEB	26.871	28.745	35.457	6.532	0	0	0
15	2000	MAR	23.053	23.688	35.403	6.546	0	0	0
16	2000	APR	23.366	20.336	35.349	6.555	0	0	0
17	2000	MAY	23.720	26.558	35.308	6.571	0	0	0
18	2000	JUN	32.559	33.373	35.289	6.583	0	0	0
19	2000	JUL	36.370	33.614	35.295	6.598	0	0	0
20	2000	AUG	34.502	35.515	35.326	6.609	0	0	0
21	2000	SEP	33.062	34.628	35.377	6.616	0	0	0
22	2000	OCT	27.796	26.447	35.442	6.618	0	0	0
23	2000	NOV	23.366	23.445	35.509	6.632	0	0	0
24	2000	DEC	24.344	24.704	35.569	6.650	0	0	0

VARIABLE	DESCRIPTION
SmComSales	Billing Cycle Small Commercial kWh per Customer per Billing Day
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

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Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) SmComSales (OUTPUT)	(5) SmComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Bin_0897 (INPUT)	(10) Bin_Com (INPUT)
1	2001	JAN	29.908	31.306	35.622	6.673	0	0	0
2	2001	FEB	26.630	24.978	35.669	6.647	0	0	0
3	2001	MAR	21.784	21.917	35.712	6.628	0	0	0
4	2001	APR	22.455	22.977	35.757	6.606	0	0	0
5	2001	MAY	24.854	24.865	35.805	6.582	0	0	0
6	2001	JUN	30.529	30.056	35.860	6.558	0	0	0
7	2001	JUL	32.226	29.700	35.922	6.535	0	0	0
8	2001	AUG	31.669	33.506	35.994	6.509	0	0	0
9	2001	SEP	31.730	30.327	36.075	6.487	0	0	0
10	2001	OCT	25.482	24.596	36.161	6.467	0	0	0
11	2001	NOV	21.917	21.161	36.249	6.443	0	0	0
12	2001	DEC	20.391	20.755	36.335	6.419	0	0	0
13	2002	JAN	26.701	25.608	36.422	6.389	0	0	0
14	2002	FEB	24.034	23.551	36.504	6.405	0	0	0
15	2002	MAR	24.325	23.146	36.588	6.416	0	0	0
16	2002	APR	21.288	22.427	36.679	6.440	0	0	0
17	2002	MAY	27.479	27.228	36.779	6.457	0	0	0
18	2002	JUN	29.867	28.575	36.887	6.464	0	0	0
19	2002	JUL	31.825	32.512	37.006	6.521	0	0	0
20	2002	AUG	33.750	33.329	37.135	6.580	0	0	0
21	2002	SEP	32.691	31.337	37.268	6.637	0	0	0
22	2002	OCT	29.249	30.319	37.406	6.688	0	0	0
23	2002	NOV	23.251	22.153	37.546	6.733	0	0	0
24	2002	DEC	23.648	23.030	37.685	6.793	0	0	0

VARIABLE	DESCRIPTION
SmComSales	Billing Cycle Small Commercial kWh per Customer per Billing Day
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Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) SmComSales (OUTPUT)	(5) SmComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Bin_0897 (INPUT)	(10) Bin_Com (INPUT)
1	2003	JAN	26.658	25.904	37.821	6.863	0	0	0
2	2003	FEB	26.647	26.441	37.943	6.911	0	0	0
3	2003	MAR	21.687	21.908	38.057	6.964	0	0	0
4	2003	APR	22.410	21.397	38.171	7.008	0	0	0
5	2003	MAY	26.011	25.887	38.289	7.057	0	0	0
6	2003	JUN	30.118	30.292	38.419	7.114	0	0	0
7	2003	JUL	31.737	31.313	38.564	7.123	0	0	0
8	2003	AUG	32.343	32.165	38.728	7.138	0	0	0
9	2003	SEP	31.957	31.947	38.907	7.146	0	0	0
10	2003	OCT	26.739	26.783	39.095	7.158	0	0	0
11	2003	NOV	24.051	23.180	39.281	7.178	0	0	0
12	2003	DEC	23.620	23.494	39.458	7.189	0	0	0
13	2004	JAN	26.782	25.511	39.632	7.194	0	0	0
14	2004	FEB	26.504	26.172	39.801	7.210	0	0	0
15	2004	MAR	23.115	22.927	39.975	7.214	0	0	0
16	2004	APR	22.476	21.037	40.156	7.225	0	0	0
17	2004	MAY	23.862	23.839	40.339	7.228	0	0	0
18	2004	JUN	30.600	30.679	40.521	7.243	0	0	0
19	2004	JUL	33.275	33.317	40.704	7.252	0	0	0
20	2004	AUG	34.093	33.977	40.892	7.254	0	0	0
21	2004	SEP	26.862	26.500	41.078	7.260	1	0	0
22	2004	OCT	30.180	29.602	41.265	7.275	0	0	0
23	2004	NOV	25.339	24.541	41.451	7.303	0	0	0
24	2004	DEC	22.634	22.771	41.637	7.292	0	0	0

VARIABLE	DESCRIPTION
SmComSales	Billing Cycle Small Commercial kWh per Customer per Billing Day
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FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) SmComSales (OUTPUT)	(5) SmComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Bin_0897 (INPUT)	(10) Bin_Com (INPUT)
1	2005	JAN	25.831	24.892	41.829	7.291	0	0	0
2	2005	FEB	25.409	25.200	42.020	7.313	0	0	0
3	2005	MAR	23.576	23.278	42.220	7.342	0	0	0
4	2005	APR	22.301	22.295	42.424	7.368	0	0	0
5	2005	MAY	24.327	23.603	42.608	7.414	0	0	0
6	2005	JUN	30.748	30.702	42.760	7.467	0	0	0
7	2005	JUL	34.388	33.331	42.876	7.517	0	0	0
8	2005	AUG	34.267	34.342	42.960	7.574	0	0	0
9	2005	SEP	34.825	34.604	43.014	7.626	0	0	0
10	2005	OCT	32.074	31.160	43.050	7.674	0	0	0
11	2005	NOV	23.527	23.933	43.082	7.690	0	0	0
12	2005	DEC	23.863	24.357	43.121	7.746	0	0	0
13	2006	JAN	25.592	25.098	43.172	7.796	0	0	0
14	2006	FEB	25.005	24.447	43.230	7.836	0	0	0
15	2006	MAR	23.077	22.899	43.297	7.877	0	0	0
16	2006	APR	23.865	23.928	43.367	7.914	0	0	0
17	2006	MAY	27.139	28.341	43.427	7.939	0	0	0
18	2006	JUN	33.755	33.958	43.466	7.945	0	0	0
19	2006	JUL	37.094	37.632	43.480	7.962	0	0	0
20	2006	AUG	36.404	38.437	43.467	7.974	0	0	0
21	2006	SEP	35.707	36.630	43.428	7.988	0	0	0
22	2006	OCT	31.233	30.462	43.371	8.005	0	0	0
23	2006	NOV	23.913	24.841	43.310	8.030	0	0	0
24	2006	DEC	25.561	25.657	43.255	8.056	0	0	0

VARIABLE	DESCRIPTION
SmComSales	Billing Cycle Small Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
ComPrice	12-Month Average of Real Commercial Price (cents per kWh)
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_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) SmComSales (OUTPUT)	(5) SmComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Bin_0897 (INPUT)	(10) Bin_Com (INPUT)
1	2007	JAN	25.423	26.150	43.207	8.081	0	0	0
2	2007	FEB	29.153	28.414	43.169	8.137	0	0	0
3	2007	MAR	24.253	24.795	43.134	8.194	0	0	0
4	2007	APR	24.036	24.239	43.091	8.255	0	0	0
5	2007	MAY	26.855	26.893	43.031	8.315	0	0	0
6	2007	JUN	31.031	31.175	42.942	8.385	0	0	0
7	2007	JUL	34.853	35.644	42.820	8.454	0	0	0
8	2007	AUG	37.001	38.069	42.664	8.520	0	0	0
9	2007	SEP	35.960	36.924	42.480	8.586	0	0	0
10	2007	OCT	32.144	31.776	42.277	8.648	0	0	0
11	2007	NOV	23.987	24.704	42.070	8.708	0	0	0
12	2007	DEC	23.436	22.801	41.869	8.770	0	0	0
13	2008	JAN	25.868	26.258	41.671	8.830	0	0	0
14	2008	FEB	26.444	27.560	41.483	8.824	0	0	0
15	2008	MAR	24.570	23.779	41.296	8.811	0	0	0
16	2008	APR	22.611	23.760	41.103	8.803	0	0	0
17	2008	MAY	26.051	25.469	40.905	8.790	0	0	0
18	2008	JUN	32.952	32.406	40.699	8.780	0	0	0
19	2008	JUL	34.632	34.376	40.481	8.765	0	0	0
20	2008	AUG	35.638	34.862	40.246	8.754	0	0	0
21	2008	SEP	32.980	33.533	40.000	8.742	0	0	0
22	2008	OCT	27.586	27.500	39.747	8.819	0	0	0
23	2008	NOV	21.727	23.665	39.499	8.903	0	0	0
24	2008	DEC	24.307	23.367	39.261	8.999	0	0	0

VARIABLE	DESCRIPTION
SmComSales	Billing Cycle Small Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
ComPrice	12-Month Average of Real Commercial Price (cents per kWh)
Ivan	Binary Variable for Hurricane Ivan September 2004
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) SmComSales (OUTPUT)	(5) SmComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Bin_0897 (INPUT)	(10) Bin_Com (INPUT)
1	2009	JAN	23.842	23.122	39.018	9.092	0	0	0
2	2009	FEB	25.806	26.084	38.771	9.259	0	0	0
3	2009	MAR	22.607	23.170	38.505	9.433	0	0	0
4	2009	APR	21.319	21.628	38.233	9.606	0	0	0
5	2009	MAY	24.941	24.716	37.997	9.780	0	0	0
6	2009	JUN	29.903	31.013	37.826	9.951	0	0	0
7	2009	JUL	34.999	35.028	37.730	10.132	0	0	0
8	2009	AUG	32.753	33.193	37.713	10.292	0	0	0
9	2009	SEP	30.303	29.528	37.769	10.456	0	0	0
10	2009	OCT	28.679	29.079	37.868	10.535	0	0	0
11	2009	NOV	21.848	21.910	37.970	10.601	0	0	0
12	2009	DEC	22.250	22.607	38.050	10.666	0	0	0
13	2010	JAN	28.177	29.125	38.114	10.726	0	0	0
14	2010	FEB	28.010	28.366	38.179	10.740	0	0	0
15	2010	MAR	26.130	26.210	38.258	10.749	0	0	0
16	2010	APR	21.568	20.139	38.344	10.758	0	0	0
17	2010	MAY	23.332	23.963	38.415	10.768	0	0	0
18	2010	JUN	30.640	30.203	38.456	10.776	0	0	0
19	2010	JUL	33.404	33.312	38.463	10.776	0	0	0
20	2010	AUG	35.584	35.106	38.436	10.798	0	0	0
21	2010	SEP	32.083	32.311	38.377	10.812	0	0	0
22	2010	OCT	27.707	26.567	38.299	10.825	0	0	0
23	2010	NOV	21.791	22.116	38.217	10.848	0	0	0
24	2010	DEC	22.697	23.095	38.142	10.856	0	0	0

VARIABLE	DESCRIPTION
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Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) SmComSales (OUTPUT)	(5) SmComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Bin_0897 (INPUT)	(10) Bin_Com (INPUT)
1	2011	JAN	26.792	27.475	38.069	10.880	0	0	0
2	2011	FEB	27.061	28.076	37.996	10.834	0	0	0
3	2011	MAR	22.187	21.250	37.914	10.787	0	0	0
4	2011	APR	21.655	21.488	37.824	10.746	0	0	0
5	2011	MAY	24.540	24.390	37.733	10.701	0	0	0
6	2011	JUN	30.978	30.409	37.645	10.650	0	0	0
7	2011	JUL	33.882	32.881	37.563	10.604	0	0	0
8	2011	AUG	33.751	33.229	37.486	10.558	0	0	0
9	2011	SEP	30.998	30.420	37.414	10.515	0	0	0
10	2011	OCT	24.656	25.364	37.346	10.483	0	0	0
11	2011	NOV	20.755	20.535	37.277	10.467	0	0	0
12	2011	DEC	21.053	21.196	37.207	10.457	0	0	0
13	2012	JAN	22.051	20.465	37.132	10.435	0	0	0
14	2012	FEB	20.611	21.510	37.056	10.430	0	0	0
15	2012	MAR	20.057	20.620	36.978	10.450	0	0	0
16	2012	APR	21.766	22.328	36.903	10.422	0	0	0
17	2012	MAY	24.390	24.142	36.837	10.391	0	0	1
18	2012	JUN	29.622	29.006	36.787	10.380	0	0	1
19	2012	JUL	31.017	30.593	36.754	10.360	0	0	1
20	2012	AUG	31.666	30.707	36.737	10.268	0	0	1
21	2012	SEP	29.410	28.550	36.736	10.173	0	0	1
22	2012	OCT	24.760	25.767	36.744	10.068	0	0	1
23	2012	NOV	20.463	21.223	36.756	9.943	0	0	1
24	2012	DEC	20.366	20.294	36.766	9.822	0	0	1

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COMPANY: GULF POWER COMPANY

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FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) SmComSales (OUTPUT)	(5) SmComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Bin_0897 (INPUT)	(10) Bin_Com (INPUT)
1	2013	JAN	22.521	22.288	36.774	9.697	0	0	1
2	2013	FEB	21.181	21.227	36.782	9.606	0	0	1
3	2013	MAR	21.808	21.847	36.790	9.489	0	0	1
4	2013	APR	20.731	20.659	36.800	9.417	0	0	1
5	2013	MAY	21.917	21.445	36.812	9.356	0	0	1
6	2013	JUN	28.744	27.660	36.828	9.285	0	0	1
7	2013	JUL	30.390	30.000	36.847	9.212	0	0	1
8	2013	AUG	31.348	30.397	36.870	9.215	0	0	1
9	2013	SEP	29.933	29.705	36.896	9.217	0	0	1
10	2013	OCT	26.680	26.597	36.923	9.217	0	0	1
11	2013	NOV	20.399	20.815	36.949	9.209	0	0	1
12	2013	DEC	20.973	20.914	36.972	9.205	0	0	1
13	2014	JAN	24.989	25.285	36.993	9.209	0	0	1
14	2014	FEB	26.032	27.929	37.012	9.258	0	0	1
15	2014	MAR	22.904	21.834	37.029	9.312	0	0	1
16	2014	APR	20.332	20.174	37.045	9.364	0	0	1
17	2014	MAY	23.080	22.332	37.057	9.414	0	0	1
18	2014	JUN	28.010	28.096	37.066	9.456	0	0	1
19	2014	JUL	31.104	31.469	37.082	9.500	0	0	1
20	2014	AUG	30.843	32.062	37.119	9.543	0	0	1
21	2014	SEP	31.319	32.400	37.178	9.589	0	0	1
22	2014	OCT	26.534	25.991	37.226	9.632	0	0	1
23	2014	NOV	20.826	21.792	37.225	9.689	0	0	1
24	2014	DEC	22.126	21.783	37.154	9.747	0	0	1

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FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) SmComSales (OUTPUT)	(5) SmComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Bin_0897 (INPUT)	(10) Bin_Com (INPUT)
1	2015	JAN	23.645	22.979	37.066	9.804	0	0	1
2	2015	FEB	24.609	25.039	37.038	9.837	0	0	1
3	2015	MAR	22.510	24.224	37.105	9.868	0	0	1
4	2015	APR	21.711	21.794	37.223	9.902	0	0	1
5	2015	MAY	24.650	24.516	37.310	9.921	0	0	1
6	2015	JUN	29.105	29.232	37.313	9.946	0	0	1
7	2015	JUL	32.600	32.537	37.267	9.976	0	0	1
8	2015	AUG	33.935	33.832	37.240	10.008	0	0	1
9	2015	SEP	30.335	30.799	37.275	10.073	0	0	1
10	2015	OCT	26.782		37.357	10.151	0	0	1
11	2015	NOV	21.071		37.448	10.189	0	0	1
12	2015	DEC	20.933		37.524	10.219	0	0	1
13	2016	JAN	23.888		37.588	10.253	0	0	1
14	2016	FEB	23.881		37.649	10.228	0	0	1
15	2016	MAR	21.192		37.718	10.207	0	0	1
16	2016	APR	20.400		37.795	10.179	0	0	1
17	2016	MAY	23.227		37.872	10.167	0	0	1
18	2016	JUN	28.986		37.945	10.149	0	0	1
19	2016	JUL	32.013		38.014	10.132	0	0	1
20	2016	AUG	32.566		38.082	10.106	0	0	1
21	2016	SEP	31.011		38.146	10.046	0	0	1
22	2016	OCT	26.738		38.212	9.978	0	0	1
23	2016	NOV	21.169		38.282	9.944	0	0	1
24	2016	DEC	21.130		38.356	9.909	0	0	1

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FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) SmComSales (OUTPUT)	(5) SmComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Bin_0897 (INPUT)	(10) Bin_Com (INPUT)
1	2017	JAN	24.163		38.432	9.872	0	0	1
2	2017	FEB	24.174		38.504	9.879	0	0	1
3	2017	MAR	21.491		38.571	9.886	0	0	1
4	2017	APR	20.695		38.638	9.893	0	0	1
5	2017	MAY	23.518		38.702	9.899	0	0	1
6	2017	JUN	29.270		38.765	9.904	0	0	1
7	2017	JUL	32.289		38.826	9.909	0	0	1
8	2017	AUG	32.829		38.885	9.914	0	0	1
9	2017	SEP	31.248		38.939	9.918	0	0	1
10	2017	OCT	26.943		38.990	9.922	0	0	1
11	2017	NOV	21.354		39.039	9.926	0	0	1
12	2017	DEC	21.294		39.087	9.929	0	0	1

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FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_04 (INPUT)	(5) CDHBD_05 (INPUT)	(6) CDHBD_06 (INPUT)	(7) CDHBD_07 (INPUT)	(8) CDHBD_08 (INPUT)	(9) CDHBD_09 (INPUT)	(10) CDHBD_10 (INPUT)	(11) CDHBD_11 (INPUT)
1	1995	OCT	0	0	0	0	0	0	232	0
2	1995	NOV	0	0	0	0	0	0	0	79
3	1995	DEC	0	0	0	0	0	0	0	0
4	1996	JAN	0	0	0	0	0	0	0	0
5	1996	FEB	0	0	0	0	0	0	0	0
6	1996	MAR	0	0	0	0	0	0	0	0
7	1996	APR	22	0	0	0	0	0	0	0
8	1996	MAY	0	133	0	0	0	0	0	0
9	1996	JUN	0	0	298	0	0	0	0	0
10	1996	JUL	0	0	0	379	0	0	0	0
11	1996	AUG	0	0	0	0	367	0	0	0
12	1996	SEP	0	0	0	0	0	316	0	0
13	1996	OCT	0	0	0	0	0	0	190	0
14	1996	NOV	0	0	0	0	0	0	0	94
15	1996	DEC	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Small Commercial Cooling Degree Hours per Billing Day for Month XX (04=April, etc.)

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(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_04 (INPUT)	(5) CDHBD_05 (INPUT)	(6) CDHBD_06 (INPUT)	(7) CDHBD_07 (INPUT)	(8) CDHBD_08 (INPUT)	(9) CDHBD_09 (INPUT)	(10) CDHBD_10 (INPUT)	(11) CDHBD_11 (INPUT)
1	1997	JAN	0	0	0	0	0	0	0	0
2	1997	FEB	0	0	0	0	0	0	0	0
3	1997	MAR	0	0	0	0	0	0	0	0
4	1997	APR	65	0	0	0	0	0	0	0
5	1997	MAY	0	102	0	0	0	0	0	0
6	1997	JUN	0	0	221	0	0	0	0	0
7	1997	JUL	0	0	0	340	0	0	0	0
8	1997	AUG	0	0	0	0	339	0	0	0
9	1997	SEP	0	0	0	0	0	335	0	0
10	1997	OCT	0	0	0	0	0	0	231	0
11	1997	NOV	0	0	0	0	0	0	0	50
12	1997	DEC	0	0	0	0	0	0	0	0
13	1998	JAN	0	0	0	0	0	0	0	0
14	1998	FEB	0	0	0	0	0	0	0	0
15	1998	MAR	0	0	0	0	0	0	0	0
16	1998	APR	44	0	0	0	0	0	0	0
17	1998	MAY	0	145	0	0	0	0	0	0
18	1998	JUN	0	0	341	0	0	0	0	0
19	1998	JUL	0	0	0	403	0	0	0	0
20	1998	AUG	0	0	0	0	355	0	0	0
21	1998	SEP	0	0	0	0	0	326	0	0
22	1998	OCT	0	0	0	0	0	0	229	0
23	1998	NOV	0	0	0	0	0	0	0	93
24	1998	DEC	0	0	0	0	0	0	0	0

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(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_04 (INPUT)	(5) CDHBD_05 (INPUT)	(6) CDHBD_06 (INPUT)	(7) CDHBD_07 (INPUT)	(8) CDHBD_08 (INPUT)	(9) CDHBD_09 (INPUT)	(10) CDHBD_10 (INPUT)	(11) CDHBD_11 (INPUT)
1	1999	JAN	0	0	0	0	0	0	0	0
2	1999	FEB	0	0	0	0	0	0	0	0
3	1999	MAR	0	0	0	0	0	0	0	0
4	1999	APR	65	0	0	0	0	0	0	0
5	1999	MAY	0	143	0	0	0	0	0	0
6	1999	JUN	0	0	239	0	0	0	0	0
7	1999	JUL	0	0	0	323	0	0	0	0
8	1999	AUG	0	0	0	0	378	0	0	0
9	1999	SEP	0	0	0	0	0	331	0	0
10	1999	OCT	0	0	0	0	0	0	185	0
11	1999	NOV	0	0	0	0	0	0	0	67
12	1999	DEC	0	0	0	0	0	0	0	0
13	2000	JAN	0	0	0	0	0	0	0	0
14	2000	FEB	0	0	0	0	0	0	0	0
15	2000	MAR	0	0	0	0	0	0	0	0
16	2000	APR	52	0	0	0	0	0	0	0
17	2000	MAY	0	131	0	0	0	0	0	0
18	2000	JUN	0	0	293	0	0	0	0	0
19	2000	JUL	0	0	0	384	0	0	0	0
20	2000	AUG	0	0	0	0	382	0	0	0
21	2000	SEP	0	0	0	0	0	329	0	0
22	2000	OCT	0	0	0	0	0	0	164	0
23	2000	NOV	0	0	0	0	0	0	0	93
24	2000	DEC	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Small Commercial Cooling Degree Hours per Billing Day for Month XX (04=April, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_04 (INPUT)	(5) CDHBD_05 (INPUT)	(6) CDHBD_06 (INPUT)	(7) CDHBD_07 (INPUT)	(8) CDHBD_08 (INPUT)	(9) CDHBD_09 (INPUT)	(10) CDHBD_10 (INPUT)	(11) CDHBD_11 (INPUT)
1	2001	JAN	0	0	0	0	0	0	0	0
2	2001	FEB	0	0	0	0	0	0	0	0
3	2001	MAR	0	0	0	0	0	0	0	0
4	2001	APR	53	0	0	0	0	0	0	0
5	2001	MAY	0	124	0	0	0	0	0	0
6	2001	JUN	0	0	262	0	0	0	0	0
7	2001	JUL	0	0	0	311	0	0	0	0
8	2001	AUG	0	0	0	0	326	0	0	0
9	2001	SEP	0	0	0	0	0	289	0	0
10	2001	OCT	0	0	0	0	0	0	147	0
11	2001	NOV	0	0	0	0	0	0	0	71
12	2001	DEC	0	0	0	0	0	0	0	0
13	2002	JAN	0	0	0	0	0	0	0	0
14	2002	FEB	0	0	0	0	0	0	0	0
15	2002	MAR	0	0	0	0	0	0	0	0
16	2002	APR	56	0	0	0	0	0	0	0
17	2002	MAY	0	197	0	0	0	0	0	0
18	2002	JUN	0	0	248	0	0	0	0	0
19	2002	JUL	0	0	0	313	0	0	0	0
20	2002	AUG	0	0	0	0	333	0	0	0
21	2002	SEP	0	0	0	0	0	319	0	0
22	2002	OCT	0	0	0	0	0	0	239	0
23	2002	NOV	0	0	0	0	0	0	0	73
24	2002	DEC	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Small Commercial Cooling Degree Hours per Billing Day for Month XX (04=April, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_04 (INPUT)	(5) CDHBD_05 (INPUT)	(6) CDHBD_06 (INPUT)	(7) CDHBD_07 (INPUT)	(8) CDHBD_08 (INPUT)	(9) CDHBD_09 (INPUT)	(10) CDHBD_10 (INPUT)	(11) CDHBD_11 (INPUT)
1	2003	JAN	0	0	0	0	0	0	0	0
2	2003	FEB	0	0	0	0	0	0	0	0
3	2003	MAR	0	0	0	0	0	0	0	0
4	2003	APR	57	0	0	0	0	0	0	0
5	2003	MAY	0	174	0	0	0	0	0	0
6	2003	JUN	0	0	261	0	0	0	0	0
7	2003	JUL	0	0	0	290	0	0	0	0
8	2003	AUG	0	0	0	0	301	0	0	0
9	2003	SEP	0	0	0	0	0	296	0	0
10	2003	OCT	0	0	0	0	0	0	153	0
11	2003	NOV	0	0	0	0	0	0	0	91
12	2003	DEC	0	0	0	0	0	0	0	0
13	2004	JAN	0	0	0	0	0	0	0	0
14	2004	FEB	0	0	0	0	0	0	0	0
15	2004	MAR	0	0	0	0	0	0	0	0
16	2004	APR	45	0	0	0	0	0	0	0
17	2004	MAY	0	117	0	0	0	0	0	0
18	2004	JUN	0	0	268	0	0	0	0	0
19	2004	JUL	0	0	0	323	0	0	0	0
20	2004	AUG	0	0	0	0	329	0	0	0
21	2004	SEP	0	0	0	0	0	290	0	0
22	2004	OCT	0	0	0	0	0	0	228	0
23	2004	NOV	0	0	0	0	0	0	0	124
24	2004	DEC	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Small Commercial Cooling Degree Hours per Billing Day for Month XX (04=April, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_04 (INPUT)	(5) CDHBD_05 (INPUT)	(6) CDHBD_06 (INPUT)	(7) CDHBD_07 (INPUT)	(8) CDHBD_08 (INPUT)	(9) CDHBD_09 (INPUT)	(10) CDHBD_10 (INPUT)	(11) CDHBD_11 (INPUT)
1	2005	JAN	0	0	0	0	0	0	0	0
2	2005	FEB	0	0	0	0	0	0	0	0
3	2005	MAR	0	0	0	0	0	0	0	0
4	2005	APR	29	0	0	0	0	0	0	0
5	2005	MAY	0	92	0	0	0	0	0	0
6	2005	JUN	0	0	257	0	0	0	0	0
7	2005	JUL	0	0	0	340	0	0	0	0
8	2005	AUG	0	0	0	0	341	0	0	0
9	2005	SEP	0	0	0	0	0	353	0	0
10	2005	OCT	0	0	0	0	0	0	270	0
11	2005	NOV	0	0	0	0	0	0	0	79
12	2005	DEC	0	0	0	0	0	0	0	0
13	2006	JAN	0	0	0	0	0	0	0	0
14	2006	FEB	0	0	0	0	0	0	0	0
15	2006	MAR	0	0	0	0	0	0	0	0
16	2006	APR	86	0	0	0	0	0	0	0
17	2006	MAY	0	164	0	0	0	0	0	0
18	2006	JUN	0	0	301	0	0	0	0	0
19	2006	JUL	0	0	0	385	0	0	0	0
20	2006	AUG	0	0	0	0	355	0	0	0
21	2006	SEP	0	0	0	0	0	320	0	0
22	2006	OCT	0	0	0	0	0	0	200	0
23	2006	NOV	0	0	0	0	0	0	0	54
24	2006	DEC	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Small Commercial Cooling Degree Hours per Billing Day for Month XX (04=April, etc.)

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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_04 (INPUT)	(5) CDHBD_05 (INPUT)	(6) CDHBD_06 (INPUT)	(7) CDHBD_07 (INPUT)	(8) CDHBD_08 (INPUT)	(9) CDHBD_09 (INPUT)	(10) CDHBD_10 (INPUT)	(11) CDHBD_11 (INPUT)
1	2007	JAN	0	0	0	0	0	0	0	0
2	2007	FEB	0	0	0	0	0	0	0	0
3	2007	MAR	0	0	0	0	0	0	0	0
4	2007	APR	63	0	0	0	0	0	0	0
5	2007	MAY	0	147	0	0	0	0	0	0
6	2007	JUN	0	0	248	0	0	0	0	0
7	2007	JUL	0	0	0	344	0	0	0	0
8	2007	AUG	0	0	0	0	380	0	0	0
9	2007	SEP	0	0	0	0	0	353	0	0
10	2007	OCT	0	0	0	0	0	0	243	0
11	2007	NOV	0	0	0	0	0	0	0	70
12	2007	DEC	0	0	0	0	0	0	0	0
13	2008	JAN	0	0	0	0	0	0	0	0
14	2008	FEB	0	0	0	0	0	0	0	0
15	2008	MAR	0	0	0	0	0	0	0	0
16	2008	APR	43	0	0	0	0	0	0	0
17	2008	MAY	0	133	0	0	0	0	0	0
18	2008	JUN	0	0	318	0	0	0	0	0
19	2008	JUL	0	0	0	368	0	0	0	0
20	2008	AUG	0	0	0	0	387	0	0	0
21	2008	SEP	0	0	0	0	0	339	0	0
22	2008	OCT	0	0	0	0	0	0	182	0
23	2008	NOV	0	0	0	0	0	0	0	47
24	2008	DEC	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Small Commercial Cooling Degree Hours per Billing Day for Month XX (04=April, etc.)

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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_04 (INPUT)	(5) CDHBD_05 (INPUT)	(6) CDHBD_06 (INPUT)	(7) CDHBD_07 (INPUT)	(8) CDHBD_08 (INPUT)	(9) CDHBD_09 (INPUT)	(10) CDHBD_10 (INPUT)	(11) CDHBD_11 (INPUT)
1	2009	JAN	0	0	0	0	0	0	0	0
2	2009	FEB	0	0	0	0	0	0	0	0
3	2009	MAR	0	0	0	0	0	0	0	0
4	2009	APR	38	0	0	0	0	0	0	0
5	2009	MAY	0	142	0	0	0	0	0	0
6	2009	JUN	0	0	270	0	0	0	0	0
7	2009	JUL	0	0	0	382	0	0	0	0
8	2009	AUG	0	0	0	0	325	0	0	0
9	2009	SEP	0	0	0	0	0	270	0	0
10	2009	OCT	0	0	0	0	0	0	236	0
11	2009	NOV	0	0	0	0	0	0	0	69
12	2009	DEC	0	0	0	0	0	0	0	0
13	2010	JAN	0	0	0	0	0	0	0	0
14	2010	FEB	0	0	0	0	0	0	0	0
15	2010	MAR	0	0	0	0	0	0	0	0
16	2010	APR	33	0	0	0	0	0	0	0
17	2010	MAY	0	133	0	0	0	0	0	0
18	2010	JUN	0	0	295	0	0	0	0	0
19	2010	JUL	0	0	0	369	0	0	0	0
20	2010	AUG	0	0	0	0	413	0	0	0
21	2010	SEP	0	0	0	0	0	340	0	0
22	2010	OCT	0	0	0	0	0	0	213	0
23	2010	NOV	0	0	0	0	0	0	0	94
24	2010	DEC	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Small Commercial Cooling Degree Hours per Billing Day for Month XX (04=April, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

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_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_04 (INPUT)	(5) CDHBD_05 (INPUT)	(6) CDHBD_06 (INPUT)	(7) CDHBD_07 (INPUT)	(8) CDHBD_08 (INPUT)	(9) CDHBD_09 (INPUT)	(10) CDHBD_10 (INPUT)	(11) CDHBD_11 (INPUT)
1	2011	JAN	0	0	0	0	0	0	0	0
2	2011	FEB	0	0	0	0	0	0	0	0
3	2011	MAR	0	0	0	0	0	0	0	0
4	2011	APR	89	0	0	0	0	0	0	0
5	2011	MAY	0	157	0	0	0	0	0	0
6	2011	JUN	0	0	312	0	0	0	0	0
7	2011	JUL	0	0	0	390	0	0	0	0
8	2011	AUG	0	0	0	0	388	0	0	0
9	2011	SEP	0	0	0	0	0	328	0	0
10	2011	OCT	0	0	0	0	0	0	161	0
11	2011	NOV	0	0	0	0	0	0	0	52
12	2011	DEC	0	0	0	0	0	0	0	0
13	2012	JAN	0	0	0	0	0	0	0	0
14	2012	FEB	0	0	0	0	0	0	0	0
15	2012	MAR	0	0	0	0	0	0	0	0
16	2012	APR	104	0	0	0	0	0	0	0
17	2012	MAY	0	166	0	0	0	0	0	0
18	2012	JUN	0	0	298	0	0	0	0	0
19	2012	JUL	0	0	0	342	0	0	0	0
20	2012	AUG	0	0	0	0	353	0	0	0
21	2012	SEP	0	0	0	0	0	314	0	0
22	2012	OCT	0	0	0	0	0	0	192	0
23	2012	NOV	0	0	0	0	0	0	0	67
24	2012	DEC	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Small Commercial Cooling Degree Hours per Billing Day for Month XX (04=April, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

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_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_04 (INPUT)	(5) CDHBD_05 (INPUT)	(6) CDHBD_06 (INPUT)	(7) CDHBD_07 (INPUT)	(8) CDHBD_08 (INPUT)	(9) CDHBD_09 (INPUT)	(10) CDHBD_10 (INPUT)	(11) CDHBD_11 (INPUT)
1	2013	JAN	0	0	0	0	0	0	0	0
2	2013	FEB	0	0	0	0	0	0	0	0
3	2013	MAR	0	0	0	0	0	0	0	0
4	2013	APR	43	0	0	0	0	0	0	0
5	2013	MAY	0	103	0	0	0	0	0	0
6	2013	JUN	0	0	277	0	0	0	0	0
7	2013	JUL	0	0	0	329	0	0	0	0
8	2013	AUG	0	0	0	0	343	0	0	0
9	2013	SEP	0	0	0	0	0	322	0	0
10	2013	OCT	0	0	0	0	0	0	223	0
11	2013	NOV	0	0	0	0	0	0	0	70
12	2013	DEC	0	0	0	0	0	0	0	0
13	2014	JAN	0	0	0	0	0	0	0	0
14	2014	FEB	0	0	0	0	0	0	0	0
15	2014	MAR	0	0	0	0	0	0	0	0
16	2014	APR	38	0	0	0	0	0	0	0
17	2014	MAY	0	134	0	0	0	0	0	0
18	2014	JUN	0	0	263	0	0	0	0	0
19	2014	JUL	0	0	0	333	0	0	0	0
20	2014	AUG	0	0	0	0	311	0	0	0
21	2014	SEP	0	0	0	0	0	311	0	0
22	2014	OCT	0	0	0	0	0	0	174	0
23	2014	NOV	0	0	0	0	0	0	0	60
24	2014	DEC	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Small Commercial Cooling Degree Hours per Billing Day for Month XX (04=April, etc.)

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FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_04 (INPUT)	(5) CDHBD_05 (INPUT)	(6) CDHBD_06 (INPUT)	(7) CDHBD_07 (INPUT)	(8) CDHBD_08 (INPUT)	(9) CDHBD_09 (INPUT)	(10) CDHBD_10 (INPUT)	(11) CDHBD_11 (INPUT)
1	2015	JAN	0	0	0	0	0	0	0	0
2	2015	FEB	0	0	0	0	0	0	0	0
3	2015	MAR	0	0	0	0	0	0	0	0
4	2015	APR	87	0	0	0	0	0	0	0
5	2015	MAY	0	159	0	0	0	0	0	0
6	2015	JUN	0	0	272	0	0	0	0	0
7	2015	JUL	0	0	0	360	0	0	0	0
8	2015	AUG	0	0	0	0	388	0	0	0
9	2015	SEP	0	0	0	0	0	310	0	0
10	2015	OCT	0	0	0	0	0	0	205	0
11	2015	NOV	0	0	0	0	0	0	0	75
12	2015	DEC	0	0	0	0	0	0	0	0
13	2016	JAN	0	0	0	0	0	0	0	0
14	2016	FEB	0	0	0	0	0	0	0	0
15	2016	MAR	0	0	0	0	0	0	0	0
16	2016	APR	56	0	0	0	0	0	0	0
17	2016	MAY	0	140	0	0	0	0	0	0
18	2016	JUN	0	0	277	0	0	0	0	0
19	2016	JUL	0	0	0	350	0	0	0	0
20	2016	AUG	0	0	0	0	355	0	0	0
21	2016	SEP	0	0	0	0	0	323	0	0
22	2016	OCT	0	0	0	0	0	0	205	0
23	2016	NOV	0	0	0	0	0	0	0	75
24	2016	DEC	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Small Commercial Cooling Degree Hours per Billing Day for Month XX (04=April, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

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DOCKET NO.: 160186-EI

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_X_ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
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Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_04 (INPUT)	(5) CDHBD_05 (INPUT)	(6) CDHBD_06 (INPUT)	(7) CDHBD_07 (INPUT)	(8) CDHBD_08 (INPUT)	(9) CDHBD_09 (INPUT)	(10) CDHBD_10 (INPUT)	(11) CDHBD_11 (INPUT)
1	2017	JAN	0	0	0	0	0	0	0	0
2	2017	FEB	0	0	0	0	0	0	0	0
3	2017	MAR	0	0	0	0	0	0	0	0
4	2017	APR	56	0	0	0	0	0	0	0
5	2017	MAY	0	140	0	0	0	0	0	0
6	2017	JUN	0	0	277	0	0	0	0	0
7	2017	JUL	0	0	0	350	0	0	0	0
8	2017	AUG	0	0	0	0	355	0	0	0
9	2017	SEP	0	0	0	0	0	323	0	0
10	2017	OCT	0	0	0	0	0	0	205	0
11	2017	NOV	0	0	0	0	0	0	0	75
12	2017	DEC	0	0	0	0	0	0	0	0

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VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Small Commercial Cooling Degree Hours per Billing Day for Month XX (04=April, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_12 (INPUT)
1	1995	OCT	0	0	0	0	0
2	1995	NOV	0	0	0	0	0
3	1995	DEC	0	0	0	0	144
4	1996	JAN	275	0	0	0	0
5	1996	FEB	0	252	0	0	0
6	1996	MAR	0	0	156	0	0
7	1996	APR	0	0	0	81	0
8	1996	MAY	0	0	0	0	0
9	1996	JUN	0	0	0	0	0
10	1996	JUL	0	0	0	0	0
11	1996	AUG	0	0	0	0	0
12	1996	SEP	0	0	0	0	0
13	1996	OCT	0	0	0	0	0
14	1996	NOV	0	0	0	0	0
15	1996	DEC	0	0	0	0	115

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Small Commercial Heating Degree Hours per Billing Day for Month XX (04=April, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_12 (INPUT)
1	1997	JAN	179	0	0	0	0
2	1997	FEB	0	179	0	0	0
3	1997	MAR	0	0	63	0	0
4	1997	APR	0	0	0	22	0
5	1997	MAY	0	0	0	0	0
6	1997	JUN	0	0	0	0	0
7	1997	JUL	0	0	0	0	0
8	1997	AUG	0	0	0	0	0
9	1997	SEP	0	0	0	0	0
10	1997	OCT	0	0	0	0	0
11	1997	NOV	0	0	0	0	0
12	1997	DEC	0	0	0	0	155
13	1998	JAN	179	0	0	0	0
14	1998	FEB	0	175	0	0	0
15	1998	MAR	0	0	131	0	0
16	1998	APR	0	0	0	51	0
17	1998	MAY	0	0	0	0	0
18	1998	JUN	0	0	0	0	0
19	1998	JUL	0	0	0	0	0
20	1998	AUG	0	0	0	0	0
21	1998	SEP	0	0	0	0	0
22	1998	OCT	0	0	0	0	0
23	1998	NOV	0	0	0	0	0
24	1998	DEC	0	0	0	0	46

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Small Commercial Heating Degree Hours per Billing Day for Month XX (04=April, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_12 (INPUT)
1	1999	JAN	206	0	0	0	0
2	1999	FEB	0	87	0	0	0
3	1999	MAR	0	0	102	0	0
4	1999	APR	0	0	0	37	0
5	1999	MAY	0	0	0	0	0
6	1999	JUN	0	0	0	0	0
7	1999	JUL	0	0	0	0	0
8	1999	AUG	0	0	0	0	0
9	1999	SEP	0	0	0	0	0
10	1999	OCT	0	0	0	0	0
11	1999	NOV	0	0	0	0	0
12	1999	DEC	0	0	0	0	109
13	2000	JAN	170	0	0	0	0
14	2000	FEB	0	207	0	0	0
15	2000	MAR	0	0	57	0	0
16	2000	APR	0	0	0	31	0
17	2000	MAY	0	0	0	0	0
18	2000	JUN	0	0	0	0	0
19	2000	JUL	0	0	0	0	0
20	2000	AUG	0	0	0	0	0
21	2000	SEP	0	0	0	0	0
22	2000	OCT	0	0	0	0	0
23	2000	NOV	0	0	0	0	0
24	2000	DEC	0	0	0	0	208

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Small Commercial Heating Degree Hours per Billing Day for Month XX (04=April, etc.)

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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_12 (INPUT)
1	2001	JAN	348	0	0	0	0
2	2001	FEB	0	183	0	0	0
3	2001	MAR	0	0	77	0	0
4	2001	APR	0	0	0	51	0
5	2001	MAY	0	0	0	0	0
6	2001	JUN	0	0	0	0	0
7	2001	JUL	0	0	0	0	0
8	2001	AUG	0	0	0	0	0
9	2001	SEP	0	0	0	0	0
10	2001	OCT	0	0	0	0	0
11	2001	NOV	0	0	0	0	0
12	2001	DEC	0	0	0	0	61
13	2002	JAN	246	0	0	0	0
14	2002	FEB	0	153	0	0	0
15	2002	MAR	0	0	174	0	0
16	2002	APR	0	0	0	35	0
17	2002	MAY	0	0	0	0	0
18	2002	JUN	0	0	0	0	0
19	2002	JUL	0	0	0	0	0
20	2002	AUG	0	0	0	0	0
21	2002	SEP	0	0	0	0	0
22	2002	OCT	0	0	0	0	0
23	2002	NOV	0	0	0	0	0
24	2002	DEC	0	0	0	0	183

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Small Commercial Heating Degree Hours per Billing Day for Month XX (04=April, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

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_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_12 (INPUT)
1	2003	JAN	251	0	0	0	0
2	2003	FEB	0	233	0	0	0
3	2003	MAR	0	0	71	0	0
4	2003	APR	0	0	0	35	0
5	2003	MAY	0	0	0	0	0
6	2003	JUN	0	0	0	0	0
7	2003	JUL	0	0	0	0	0
8	2003	AUG	0	0	0	0	0
9	2003	SEP	0	0	0	0	0
10	2003	OCT	0	0	0	0	0
11	2003	NOV	0	0	0	0	0
12	2003	DEC	0	0	0	0	166
13	2004	JAN	233	0	0	0	0
14	2004	FEB	0	221	0	0	0
15	2004	MAR	0	0	113	0	0
16	2004	APR	0	0	0	47	0
17	2004	MAY	0	0	0	0	0
18	2004	JUN	0	0	0	0	0
19	2004	JUL	0	0	0	0	0
20	2004	AUG	0	0	0	0	0
21	2004	SEP	0	0	0	0	0
22	2004	OCT	0	0	0	0	0
23	2004	NOV	0	0	0	0	0
24	2004	DEC	0	0	0	0	110

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Small Commercial Heating Degree Hours per Billing Day for Month XX (04=April, etc.)

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FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_12 (INPUT)
1	2005	JAN	182	0	0	0	0
2	2005	FEB	0	164	0	0	0
3	2005	MAR	0	0	105	0	0
4	2005	APR	0	0	0	35	0
5	2005	MAY	0	0	0	0	0
6	2005	JUN	0	0	0	0	0
7	2005	JUL	0	0	0	0	0
8	2005	AUG	0	0	0	0	0
9	2005	SEP	0	0	0	0	0
10	2005	OCT	0	0	0	0	0
11	2005	NOV	0	0	0	0	0
12	2005	DEC	0	0	0	0	132
13	2006	JAN	148	0	0	0	0
14	2006	FEB	0	127	0	0	0
15	2006	MAR	0	0	80	0	0
16	2006	APR	0	0	0	33	0
17	2006	MAY	0	0	0	0	0
18	2006	JUN	0	0	0	0	0
19	2006	JUL	0	0	0	0	0
20	2006	AUG	0	0	0	0	0
21	2006	SEP	0	0	0	0	0
22	2006	OCT	0	0	0	0	0
23	2006	NOV	0	0	0	0	0
24	2006	DEC	0	0	0	0	159

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Small Commercial Heating Degree Hours per Billing Day for Month XX (04=April, etc.)

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FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_12 (INPUT)
1	2007	JAN	128	0	0	0	0
2	2007	FEB	0	230	0	0	0
3	2007	MAR	0	0	107	0	0
4	2007	APR	0	0	0	38	0
5	2007	MAY	0	0	0	0	0
6	2007	JUN	0	0	0	0	0
7	2007	JUL	0	0	0	0	0
8	2007	AUG	0	0	0	0	0
9	2007	SEP	0	0	0	0	0
10	2007	OCT	0	0	0	0	0
11	2007	NOV	0	0	0	0	0
12	2007	DEC	0	0	0	0	94
13	2008	JAN	186	0	0	0	0
14	2008	FEB	0	182	0	0	0
15	2008	MAR	0	0	113	0	0
16	2008	APR	0	0	0	41	0
17	2008	MAY	0	0	0	0	0
18	2008	JUN	0	0	0	0	0
19	2008	JUL	0	0	0	0	0
20	2008	AUG	0	0	0	0	0
21	2008	SEP	0	0	0	0	0
22	2008	OCT	0	0	0	0	0
23	2008	NOV	0	0	0	0	0
24	2008	DEC	0	0	0	0	152

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Small Commercial Heating Degree Hours per Billing Day for Month XX (04=April, etc.)

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(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_12 (INPUT)
1	2009	JAN	139	0	0	0	0
2	2009	FEB	0	210	0	0	0
3	2009	MAR	0	0	110	0	0
4	2009	APR	0	0	0	25	0
5	2009	MAY	0	0	0	0	0
6	2009	JUN	0	0	0	0	0
7	2009	JUL	0	0	0	0	0
8	2009	AUG	0	0	0	0	0
9	2009	SEP	0	0	0	0	0
10	2009	OCT	0	0	0	0	0
11	2009	NOV	0	0	0	0	0
12	2009	DEC	0	0	0	0	147
13	2010	JAN	317	0	0	0	0
14	2010	FEB	0	267	0	0	0
15	2010	MAR	0	0	227	0	0
16	2010	APR	0	0	0	49	0
17	2010	MAY	0	0	0	0	0
18	2010	JUN	0	0	0	0	0
19	2010	JUL	0	0	0	0	0
20	2010	AUG	0	0	0	0	0
21	2010	SEP	0	0	0	0	0
22	2010	OCT	0	0	0	0	0
23	2010	NOV	0	0	0	0	0
24	2010	DEC	0	0	0	0	191

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Small Commercial Heating Degree Hours per Billing Day for Month XX (04=April, etc.)

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(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_12 (INPUT)
1	2011	JAN	280	0	0	0	0
2	2011	FEB	0	250	0	0	0
3	2011	MAR	0	0	84	0	0
4	2011	APR	0	0	0	23	0
5	2011	MAY	0	0	0	0	0
6	2011	JUN	0	0	0	0	0
7	2011	JUL	0	0	0	0	0
8	2011	AUG	0	0	0	0	0
9	2011	SEP	0	0	0	0	0
10	2011	OCT	0	0	0	0	0
11	2011	NOV	0	0	0	0	0
12	2011	DEC	0	0	0	0	114
13	2012	JAN	117	0	0	0	0
14	2012	FEB	0	91	0	0	0
15	2012	MAR	0	0	48	0	0
16	2012	APR	0	0	0	4	0
17	2012	MAY	0	0	0	0	0
18	2012	JUN	0	0	0	0	0
19	2012	JUL	0	0	0	0	0
20	2012	AUG	0	0	0	0	0
21	2012	SEP	0	0	0	0	0
22	2012	OCT	0	0	0	0	0
23	2012	NOV	0	0	0	0	0
24	2012	DEC	0	0	0	0	93

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Small Commercial Heating Degree Hours per Billing Day for Month XX (04=April, etc.)

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(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_12 (INPUT)
1	2013	JAN	153	0	0	0	0
2	2013	FEB	0	102	0	0	0
3	2013	MAR	0	0	131	0	0
4	2013	APR	0	0	0	59	0
5	2013	MAY	0	0	0	0	0
6	2013	JUN	0	0	0	0	0
7	2013	JUL	0	0	0	0	0
8	2013	AUG	0	0	0	0	0
9	2013	SEP	0	0	0	0	0
10	2013	OCT	0	0	0	0	0
11	2013	NOV	0	0	0	0	0
12	2013	DEC	0	0	0	0	132
13	2014	JAN	244	0	0	0	0
14	2014	FEB	0	249	0	0	0
15	2014	MAR	0	0	121	0	0
16	2014	APR	0	0	0	43	0
17	2014	MAY	0	0	0	0	0
18	2014	JUN	0	0	0	0	0
19	2014	JUL	0	0	0	0	0
20	2014	AUG	0	0	0	0	0
21	2014	SEP	0	0	0	0	0
22	2014	OCT	0	0	0	0	0
23	2014	NOV	0	0	0	0	0
24	2014	DEC	0	0	0	0	150

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Small Commercial Heating Degree Hours per Billing Day for Month XX (04=April, etc.)

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(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_12 (INPUT)
1	2015	JAN	189	0	0	0	0
2	2015	FEB	0	221	0	0	0
3	2015	MAR	0	0	154	0	0
4	2015	APR	0	0	0	15	0
5	2015	MAY	0	0	0	0	0
6	2015	JUN	0	0	0	0	0
7	2015	JUL	0	0	0	0	0
8	2015	AUG	0	0	0	0	0
9	2015	SEP	0	0	0	0	0
10	2015	OCT	0	0	0	0	0
11	2015	NOV	0	0	0	0	0
12	2015	DEC	0	0	0	0	133
13	2016	JAN	208	0	0	0	0
14	2016	FEB	0	189	0	0	0
15	2016	MAR	0	0	111	0	0
16	2016	APR	0	0	0	38	0
17	2016	MAY	0	0	0	0	0
18	2016	JUN	0	0	0	0	0
19	2016	JUL	0	0	0	0	0
20	2016	AUG	0	0	0	0	0
21	2016	SEP	0	0	0	0	0
22	2016	OCT	0	0	0	0	0
23	2016	NOV	0	0	0	0	0
24	2016	DEC	0	0	0	0	133

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Small Commercial Heating Degree Hours per Billing Day for Month XX (04=April, etc.)

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FORECASTING MODEL: SMALL COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) HDHBD_01 (INPUT)	(5) HDHBD_02 (INPUT)	(6) HDHBD_03 (INPUT)	(7) HDHBD_04 (INPUT)	(8) HDHBD_12 (INPUT)
1	2017	JAN	208	0	0	0	0
2	2017	FEB	0	189	0	0	0
3	2017	MAR	0	0	111	0	0
4	2017	APR	0	0	0	38	0
5	2017	MAY	0	0	0	0	0
6	2017	JUN	0	0	0	0	0
7	2017	JUL	0	0	0	0	0
8	2017	AUG	0	0	0	0	0
9	2017	SEP	0	0	0	0	0
10	2017	OCT	0	0	0	0	0
11	2017	NOV	0	0	0	0	0
12	2017	DEC	0	0	0	0	133

VARIABLE	DESCRIPTION
HDHBD_XX	Billing Cycle Small Commercial Heating Degree Hours per Billing Day for Month XX (04=April, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) LgComSales (OUTPUT)	(5) LgComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Jan (INPUT)	(10) Bin_Com (INPUT)	(11) HDHBD_01 (INPUT)	(12) HDHBD_02 (INPUT)	(13) HDHBD_03 (INPUT)	(14) HDHBD_12 (INPUT)
1	1995	OCT		606.464	34.826	7.928	0	0	0	0	0	0	0
2	1995	NOV	516.116	497.287	34.914	7.919	0	0	0	0	0	0	0
3	1995	DEC	477.919	462.105	34.992	7.918	0	0	0	0	0	0	89
4	1996	JAN	498.063	506.950	35.065	7.920	0	1	0	196	0	0	0
5	1996	FEB	512.030	499.576	35.139	7.880	0	0	0	0	178	0	0
6	1996	MAR	497.241	482.324	35.222	7.874	0	0	0	0	0	104	0
7	1996	APR	484.782	486.491	35.304	7.873	0	0	0	0	0	0	0
8	1996	MAY	559.152	538.887	35.368	7.861	0	0	0	0	0	0	0
9	1996	JUN	647.336	643.094	35.402	7.845	0	0	0	0	0	0	0
10	1996	JUL	693.850	694.852	35.401	7.830	0	0	0	0	0	0	0
11	1996	AUG	694.113	664.988	35.366	7.806	0	0	0	0	0	0	0
12	1996	SEP	661.671	663.785	35.300	7.797	0	0	0	0	0	0	0
13	1996	OCT	601.732	616.596	35.217	7.774	0	0	0	0	0	0	0
14	1996	NOV	535.196	505.779	35.133	7.763	0	0	0	0	0	0	0
15	1996	DEC	474.579	474.078	35.061	7.761	0	0	0	0	0	0	64

VARIABLE	DESCRIPTION
LgComSales	Billing Cycle Large Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
ComPrice	12-Month Average of Real Commercial Price (cents per kWh)
Ivan	Binary Variable for Hurricane Ivan September 2004
Jan	Monthly Binary Variable for January
Bin_Com	Binary Variable to address residuals beginning in May 2012
HDHBD_XX	Billing Cycle Large Commercial Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) LgComSales (OUTPUT)	(5) LgComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Jan (INPUT)	(10) Bin_Com (INPUT)	(11) HDHBD_01 (INPUT)	(12) HDHBD_02 (INPUT)	(13) HDHBD_03 (INPUT)	(14) HDHBD_12 (INPUT)
1	1997	JAN	480.673	481.545	34.994	7.750	0	1	0	123	0	0	0
2	1997	FEB	495.571	435.402	34.928	7.755	0	0	0	0	111	0	0
3	1997	MAR	476.939	484.228	34.853	7.736	0	0	0	0	0	28	0
4	1997	APR	512.027	508.114	34.777	7.708	0	0	0	0	0	0	0
5	1997	MAY	539.836	509.069	34.717	7.668	0	0	0	0	0	0	0
6	1997	JUN	605.515	606.004	34.685	7.640	0	0	0	0	0	0	0
7	1997	JUL	674.611	663.270	34.685	7.623	0	0	0	0	0	0	0
8	1997	AUG	676.587	662.936	34.718	7.608	0	0	0	0	0	0	0
9	1997	SEP	674.381	689.237	34.780	7.582	0	0	0	0	0	0	0
10	1997	OCT	631.383	651.796	34.859	7.557	0	0	0	0	0	0	0
11	1997	NOV	512.587	494.081	34.942	7.517	0	0	0	0	0	0	0
12	1997	DEC	486.127	498.549	35.019	7.479	0	0	0	0	0	0	93
13	1998	JAN	484.757	448.054	35.093	7.422	0	1	0	110	0	0	0
14	1998	FEB	485.464	470.469	35.170	7.401	0	0	0	0	96	0	0
15	1998	MAR	484.959	483.467	35.255	7.371	0	0	0	0	0	74	0
16	1998	APR	506.310	510.252	35.347	7.329	0	0	0	0	0	0	0
17	1998	MAY	571.409	557.626	35.433	7.265	0	0	0	0	0	0	0
18	1998	JUN	675.119	701.781	35.505	7.188	0	0	0	0	0	0	0
19	1998	JUL	721.382	732.236	35.560	7.109	0	0	0	0	0	0	0
20	1998	AUG	700.947	705.922	35.599	7.050	0	0	0	0	0	0	0
21	1998	SEP	686.112	667.334	35.622	6.986	0	0	0	0	0	0	0
22	1998	OCT	631.978	686.852	35.635	6.907	0	0	0	0	0	0	0
23	1998	NOV	555.729	550.328	35.646	6.885	0	0	0	0	0	0	0
24	1998	DEC	486.171	493.551	35.662	6.782	0	0	0	0	0	0	19

VARIABLE	DESCRIPTION
LgComSales	Billing Cycle Large Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
ComPrice	12-Month Average of Real Commercial Price (cents per kWh)
Ivan	Binary Variable for Hurricane Ivan September 2004
Jan	Monthly Binary Variable for January
Bin_Com	Binary Variable to address residuals beginning in May 2012
HDHBD_XX	Billing Cycle Large Commercial Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

Supporting Schedules: Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) LgComSales (OUTPUT)	(5) LgComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Jan (INPUT)	(10) Bin_Com (INPUT)	(11) HDHBD_01 (INPUT)	(12) HDHBD_02 (INPUT)	(13) HDHBD_03 (INPUT)	(14) HDHBD_12 (INPUT)
1	1999	JAN	501.026	492.722	35.681	6.724	0	1	0	139	0	0	0
2	1999	FEB	490.879	507.196	35.702	6.659	0	0	0	0	51	0	0
3	1999	MAR	503.278	489.964	35.722	6.590	0	0	0	0	0	52	0
4	1999	APR	522.713	516.714	35.740	6.541	0	0	0	0	0	0	0
5	1999	MAY	573.551	588.821	35.751	6.533	0	0	0	0	0	0	0
6	1999	JUN	640.327	646.509	35.751	6.529	0	0	0	0	0	0	0
7	1999	JUL	683.951	703.658	35.739	6.530	0	0	0	0	0	0	0
8	1999	AUG	717.733	724.733	35.713	6.521	0	0	0	0	0	0	0
9	1999	SEP	692.190	708.330	35.676	6.517	0	0	0	0	0	0	0
10	1999	OCT	619.918	606.236	35.631	6.541	0	0	0	0	0	0	0
11	1999	NOV	524.789	531.302	35.586	6.509	0	0	0	0	0	0	0
12	1999	DEC	493.023	490.525	35.545	6.520	0	0	0	0	0	0	58
13	2000	JAN	487.266	475.922	35.503	6.518	0	1	0	103	0	0	0
14	2000	FEB	508.751	516.426	35.457	6.532	0	0	0	0	136	0	0
15	2000	MAR	501.689	500.651	35.403	6.546	0	0	0	0	0	26	0
16	2000	APR	518.096	525.333	35.349	6.555	0	0	0	0	0	0	0
17	2000	MAY	569.761	559.407	35.308	6.571	0	0	0	0	0	0	0
18	2000	JUN	657.700	677.809	35.289	6.583	0	0	0	0	0	0	0
19	2000	JUL	713.506	713.252	35.295	6.598	0	0	0	0	0	0	0
20	2000	AUG	712.282	725.762	35.326	6.609	0	0	0	0	0	0	0
21	2000	SEP	690.156	704.794	35.377	6.616	0	0	0	0	0	0	0
22	2000	OCT	603.953	593.807	35.442	6.618	0	0	0	0	0	0	0
23	2000	NOV	539.099	543.272	35.509	6.632	0	0	0	0	0	0	0
24	2000	DEC	504.568	498.910	35.569	6.650	0	0	0	0	0	0	128

VARIABLE	DESCRIPTION
LgComSales	Billing Cycle Large Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
ComPrice	12-Month Average of Real Commercial Price (cents per kWh)
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Jan	Monthly Binary Variable for January
Bin_Com	Binary Variable to address residuals beginning in May 2012
HDHBD_XX	Billing Cycle Large Commercial Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) LgComSales (OUTPUT)	(5) LgComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Jan (INPUT)	(10) Bin_Com (INPUT)	(11) HDHBD_01 (INPUT)	(12) HDHBD_02 (INPUT)	(13) HDHBD_03 (INPUT)	(14) HDHBD_12 (INPUT)
1	2001	JAN	531.773	532.082	35.622	6.673	0	1	0	252	0	0	0
2	2001	FEB	507.054	507.558	35.669	6.647	0	0	0	0	115	0	0
3	2001	MAR	499.011	500.678	35.712	6.628	0	0	0	0	0	38	0
4	2001	APR	518.487	519.254	35.757	6.606	0	0	0	0	0	0	0
5	2001	MAY	565.697	564.915	35.805	6.582	0	0	0	0	0	0	0
6	2001	JUN	646.714	650.221	35.860	6.558	0	0	0	0	0	0	0
7	2001	JUL	676.865	683.424	35.922	6.535	0	0	0	0	0	0	0
8	2001	AUG	688.782	707.648	35.994	6.509	0	0	0	0	0	0	0
9	2001	SEP	675.696	656.750	36.075	6.487	0	0	0	0	0	0	0
10	2001	OCT	588.313	580.486	36.161	6.467	0	0	0	0	0	0	0
11	2001	NOV	528.614	516.405	36.249	6.443	0	0	0	0	0	0	0
12	2001	DEC	484.604	491.620	36.335	6.419	0	0	0	0	0	0	27
13	2002	JAN	512.070	507.764	36.422	6.389	0	1	0	167	0	0	0
14	2002	FEB	504.523	504.289	36.504	6.405	0	0	0	0	88	0	0
15	2002	MAR	512.881	504.685	36.588	6.416	0	0	0	0	0	112	0
16	2002	APR	525.147	528.218	36.679	6.440	0	0	0	0	0	0	0
17	2002	MAY	606.259	637.842	36.779	6.457	0	0	0	0	0	0	0
18	2002	JUN	652.133	624.943	36.887	6.464	0	0	0	0	0	0	0
19	2002	JUL	675.092	687.615	37.006	6.521	0	0	0	0	0	0	0
20	2002	AUG	695.346	704.823	37.135	6.580	0	0	0	0	0	0	0
21	2002	SEP	690.622	688.601	37.268	6.637	0	0	0	0	0	0	0
22	2002	OCT	650.055	672.983	37.406	6.688	0	0	0	0	0	0	0
23	2002	NOV	544.909	547.251	37.546	6.733	0	0	0	0	0	0	0
24	2002	DEC	508.694	499.954	37.685	6.793	0	0	0	0	0	0	107

VARIABLE	DESCRIPTION
LgComSales	Billing Cycle Large Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
ComPrice	12-Month Average of Real Commercial Price (cents per kWh)
Ivan	Binary Variable for Hurricane Ivan September 2004
Jan	Monthly Binary Variable for January
Bin_Com	Binary Variable to address residuals beginning in May 2012
HDHBD_XX	Billing Cycle Large Commercial Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

Supporting Schedules: Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) LgComSales (OUTPUT)	(5) LgComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Jan (INPUT)	(10) Bin_Com (INPUT)	(11) HDHBD_01 (INPUT)	(12) HDHBD_02 (INPUT)	(13) HDHBD_03 (INPUT)	(14) HDHBD_12 (INPUT)
1	2003	JAN	510.890	508.062	37.821	6.863	0	1	0	167	0	0	0
2	2003	FEB	519.522	521.619	37.943	6.911	0	0	0	0	150	0	0
3	2003	MAR	501.727	510.495	38.057	6.964	0	0	0	0	0	32	0
4	2003	APR	529.872	530.410	38.171	7.008	0	0	0	0	0	0	0
5	2003	MAY	597.311	615.877	38.289	7.057	0	0	0	0	0	0	0
6	2003	JUN	657.802	678.608	38.419	7.114	0	0	0	0	0	0	0
7	2003	JUL	678.741	689.025	38.564	7.123	0	0	0	0	0	0	0
8	2003	AUG	684.729	708.621	38.728	7.138	0	0	0	0	0	0	0
9	2003	SEP	686.655	702.135	38.907	7.146	0	0	0	0	0	0	0
10	2003	OCT	612.223	616.515	39.095	7.158	0	0	0	0	0	0	0
11	2003	NOV	553.909	556.472	39.281	7.178	0	0	0	0	0	0	0
12	2003	DEC	509.409	519.796	39.458	7.189	0	0	0	0	0	0	101
13	2004	JAN	515.244	498.563	39.632	7.194	0	1	0	152	0	0	0
14	2004	FEB	516.792	524.575	39.801	7.210	0	0	0	0	132	0	0
15	2004	MAR	511.902	511.051	39.975	7.214	0	0	0	0	0	61	0
16	2004	APR	523.967	522.610	40.156	7.225	0	0	0	0	0	0	0
17	2004	MAY	573.374	570.686	40.339	7.228	0	0	0	0	0	0	0
18	2004	JUN	660.584	671.175	40.521	7.243	0	0	0	0	0	0	0
19	2004	JUL	696.140	708.656	40.704	7.252	0	0	0	0	0	0	0
20	2004	AUG	703.108	705.369	40.892	7.254	0	0	0	0	0	0	0
21	2004	SEP	584.830	576.317	41.078	7.260	1	0	0	0	0	0	0
22	2004	OCT	651.831	624.166	41.265	7.275	0	0	0	0	0	0	0
23	2004	NOV	564.180	573.734	41.451	7.303	0	0	0	0	0	0	0
24	2004	DEC	507.035	524.115	41.637	7.292	0	0	0	0	0	0	62

VARIABLE	DESCRIPTION
LgComSales	Billing Cycle Large Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
ComPrice	12-Month Average of Real Commercial Price (cents per kWh)
Ivan	Binary Variable for Hurricane Ivan September 2004
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Supporting Schedules: Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

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___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) LgComSales (OUTPUT)	(5) LgComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Jan (INPUT)	(10) Bin_Com (INPUT)	(11) HDHBD_01 (INPUT)	(12) HDHBD_02 (INPUT)	(13) HDHBD_03 (INPUT)	(14) HDHBD_12 (INPUT)
1	2005	JAN	513.383	506.069	41.829	7.291	0	1	0	120	0	0	0
2	2005	FEB	517.771	514.762	42.020	7.313	0	0	0	0	94	0	0
3	2005	MAR	511.433	506.885	42.220	7.342	0	0	0	0	0	48	0
4	2005	APR	522.640	518.148	42.424	7.368	0	0	0	0	0	0	0
5	2005	MAY	562.605	552.892	42.608	7.414	0	0	0	0	0	0	0
6	2005	JUN	657.583	652.712	42.760	7.467	0	0	0	0	0	0	0
7	2005	JUL	702.954	686.762	42.876	7.517	0	0	0	0	0	0	0
8	2005	AUG	703.159	689.058	42.960	7.574	0	0	0	0	0	0	0
9	2005	SEP	709.096	696.782	43.014	7.626	0	0	0	0	0	0	0
10	2005	OCT	668.990	662.593	43.050	7.674	0	0	0	0	0	0	0
11	2005	NOV	545.631	550.257	43.082	7.690	0	0	0	0	0	0	0
12	2005	DEC	510.876	517.952	43.121	7.746	0	0	0	0	0	0	74
13	2006	JAN	500.873	496.140	43.172	7.796	0	1	0	87	0	0	0
14	2006	FEB	512.592	499.367	43.230	7.836	0	0	0	0	71	0	0
15	2006	MAR	514.081	510.465	43.297	7.877	0	0	0	0	0	39	0
16	2006	APR	548.062	529.741	43.367	7.914	0	0	0	0	0	0	0
17	2006	MAY	596.989	603.740	43.427	7.939	0	0	0	0	0	0	0
18	2006	JUN	680.140	672.802	43.466	7.945	0	0	0	0	0	0	0
19	2006	JUL	723.240	711.349	43.480	7.962	0	0	0	0	0	0	0
20	2006	AUG	710.074	727.370	43.467	7.974	0	0	0	0	0	0	0
21	2006	SEP	701.665	707.687	43.428	7.988	0	0	0	0	0	0	0
22	2006	OCT	639.015	618.651	43.371	8.005	0	0	0	0	0	0	0
23	2006	NOV	529.091	545.450	43.310	8.030	0	0	0	0	0	0	0
24	2006	DEC	516.359	511.869	43.255	8.056	0	0	0	0	0	0	96

VARIABLE	DESCRIPTION
LgComSales	Billing Cycle Large Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
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Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

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___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) LgComSales (OUTPUT)	(5) LgComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Jan (INPUT)	(10) Bin_Com (INPUT)	(11) HDHBD_01 (INPUT)	(12) HDHBD_02 (INPUT)	(13) HDHBD_03 (INPUT)	(14) HDHBD_12 (INPUT)
1	2007	JAN	491.228	508.589	43.207	8.081	0	1	0	71	0	0	0
2	2007	FEB	533.126	516.950	43.169	8.137	0	0	0	0	144	0	0
3	2007	MAR	512.425	511.285	43.134	8.194	0	0	0	0	0	62	0
4	2007	APR	534.130	526.950	43.091	8.255	0	0	0	0	0	0	0
5	2007	MAY	584.929	585.633	43.031	8.315	0	0	0	0	0	0	0
6	2007	JUN	650.001	638.917	42.942	8.385	0	0	0	0	0	0	0
7	2007	JUL	696.704	704.852	42.820	8.454	0	0	0	0	0	0	0
8	2007	AUG	721.282	721.664	42.664	8.520	0	0	0	0	0	0	0
9	2007	SEP	707.315	724.726	42.480	8.586	0	0	0	0	0	0	0
10	2007	OCT	658.418	653.176	42.277	8.648	0	0	0	0	0	0	0
11	2007	NOV	533.701	542.103	42.070	8.708	0	0	0	0	0	0	0
12	2007	DEC	497.256	496.390	41.869	8.770	0	0	0	0	0	0	49
13	2008	JAN	495.573	513.018	41.671	8.830	0	1	0	115	0	0	0
14	2008	FEB	514.767	526.423	41.483	8.824	0	0	0	0	108	0	0
15	2008	MAR	508.201	502.078	41.296	8.811	0	0	0	0	0	62	0
16	2008	APR	517.567	533.127	41.103	8.803	0	0	0	0	0	0	0
17	2008	MAY	576.721	569.245	40.905	8.790	0	0	0	0	0	0	0
18	2008	JUN	672.752	660.033	40.699	8.780	0	0	0	0	0	0	0
19	2008	JUL	697.972	688.597	40.481	8.765	0	0	0	0	0	0	0
20	2008	AUG	709.513	685.393	40.246	8.754	0	0	0	0	0	0	0
21	2008	SEP	681.739	682.731	40.000	8.742	0	0	0	0	0	0	0
22	2008	OCT	606.935	598.943	39.747	8.819	0	0	0	0	0	0	0
23	2008	NOV	508.414	523.733	39.499	8.903	0	0	0	0	0	0	0
24	2008	DEC	496.009	485.099	39.261	8.999	0	0	0	0	0	0	92

VARIABLE	DESCRIPTION
LgComSales	Billing Cycle Large Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
ComPrice	12-Month Average of Real Commercial Price (cents per kWh)
Ivan	Binary Variable for Hurricane Ivan September 2004
Jan	Monthly Binary Variable for January
Bin_Com	Binary Variable to address residuals beginning in May 2012
HDHBD_XX	Billing Cycle Large Commercial Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) LgComSales (OUTPUT)	(5) LgComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Jan (INPUT)	(10) Bin_Com (INPUT)	(11) HDHBD_01 (INPUT)	(12) HDHBD_02 (INPUT)	(13) HDHBD_03 (INPUT)	(14) HDHBD_12 (INPUT)
1	2009	JAN	473.799	479.376	39.018	9.092	0	1	0	88	0	0	0
2	2009	FEB	504.910	496.593	38.771	9.259	0	0	0	0	137	0	0
3	2009	MAR	490.561	501.218	38.505	9.433	0	0	0	0	0	64	0
4	2009	APR	504.829	504.807	38.233	9.606	0	0	0	0	0	0	0
5	2009	MAY	561.500	555.296	37.997	9.780	0	0	0	0	0	0	0
6	2009	JUN	632.633	636.408	37.826	9.951	0	0	0	0	0	0	0
7	2009	JUL	690.438	690.965	37.730	10.132	0	0	0	0	0	0	0
8	2009	AUG	665.085	659.904	37.713	10.292	0	0	0	0	0	0	0
9	2009	SEP	636.149	631.432	37.769	10.456	0	0	0	0	0	0	0
10	2009	OCT	617.557	624.820	37.868	10.535	0	0	0	0	0	0	0
11	2009	NOV	507.863	510.467	37.970	10.601	0	0	0	0	0	0	0
12	2009	DEC	475.660	473.569	38.050	10.666	0	0	0	0	0	0	80
13	2010	JAN	502.834	508.382	38.114	10.726	0	1	0	222	0	0	0
14	2010	FEB	502.320	514.447	38.179	10.740	0	0	0	0	177	0	0
15	2010	MAR	492.442	505.455	38.258	10.749	0	0	0	0	0	143	0
16	2010	APR	490.338	485.071	38.344	10.758	0	0	0	0	0	0	0
17	2010	MAY	550.250	567.849	38.415	10.768	0	0	0	0	0	0	0
18	2010	JUN	647.260	644.134	38.456	10.776	0	0	0	0	0	0	0
19	2010	JUL	682.303	681.273	38.463	10.776	0	0	0	0	0	0	0
20	2010	AUG	705.825	705.268	38.436	10.798	0	0	0	0	0	0	0
21	2010	SEP	671.002	678.391	38.377	10.812	0	0	0	0	0	0	0
22	2010	OCT	606.802	593.701	38.299	10.825	0	0	0	0	0	0	0
23	2010	NOV	515.489	520.081	38.217	10.848	0	0	0	0	0	0	0
24	2010	DEC	482.272	484.840	38.142	10.856	0	0	0	0	0	0	127

VARIABLE	DESCRIPTION
LgComSales	Billing Cycle Large Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
ComPrice	12-Month Average of Real Commercial Price (cents per kWh)
Ivan	Binary Variable for Hurricane Ivan September 2004
Jan	Monthly Binary Variable for January
Bin_Com	Binary Variable to address residuals beginning in May 2012
HDHBD_XX	Billing Cycle Large Commercial Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) LgComSales (OUTPUT)	(5) LgComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Jan (INPUT)	(10) Bin_Com (INPUT)	(11) HDHBD_01 (INPUT)	(12) HDHBD_02 (INPUT)	(13) HDHBD_03 (INPUT)	(14) HDHBD_12 (INPUT)
1	2011	JAN	492.803	507.226	38.069	10.880	0	1	0	190	0	0	0
2	2011	FEB	500.905	527.006	37.996	10.834	0	0	0	0	163	0	0
3	2011	MAR	490.063	479.249	37.914	10.787	0	0	0	0	0	46	0
4	2011	APR	514.969	522.458	37.824	10.746	0	0	0	0	0	0	0
5	2011	MAY	561.501	563.336	37.733	10.701	0	0	0	0	0	0	0
6	2011	JUN	647.239	653.400	37.645	10.650	0	0	0	0	0	0	0
7	2011	JUL	692.048	674.642	37.563	10.604	0	0	0	0	0	0	0
8	2011	AUG	687.924	681.984	37.486	10.558	0	0	0	0	0	0	0
9	2011	SEP	659.430	651.958	37.414	10.515	0	0	0	0	0	0	0
10	2011	OCT	574.108	572.784	37.346	10.483	0	0	0	0	0	0	0
11	2011	NOV	495.419	485.918	37.277	10.467	0	0	0	0	0	0	0
12	2011	DEC	466.696	481.127	37.207	10.457	0	0	0	0	0	0	64
13	2012	JAN	456.273	450.641	37.132	10.435	0	1	0	64	0	0	0
14	2012	FEB	469.010	483.187	37.056	10.430	0	0	0	0	50	0	0
15	2012	MAR	483.289	488.416	36.978	10.450	0	0	0	0	0	20	0
16	2012	APR	527.031	530.616	36.903	10.422	0	0	0	0	0	0	0
17	2012	MAY	552.285	554.503	36.837	10.391	0	0	1	0	0	0	0
18	2012	JUN	627.959	617.944	36.787	10.380	0	0	1	0	0	0	0
19	2012	JUL	649.461	645.507	36.754	10.360	0	0	1	0	0	0	0
20	2012	AUG	659.083	654.599	36.737	10.268	0	0	1	0	0	0	0
21	2012	SEP	641.569	623.902	36.736	10.173	0	0	1	0	0	0	0
22	2012	OCT	577.343	572.693	36.744	10.068	0	0	1	0	0	0	0
23	2012	NOV	489.216	497.406	36.756	9.943	0	0	1	0	0	0	0
24	2012	DEC	457.593	463.403	36.766	9.822	0	0	1	0	0	0	46

VARIABLE	DESCRIPTION
LgComSales	Billing Cycle Large Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
ComPrice	12-Month Average of Real Commercial Price (cents per kWh)
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HDHBD_XX	Billing Cycle Large Commercial Heating Degree Hours per Billing Day for Month XX (01=January, etc.)

Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

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___ Projected Test Year Ended 12/31/17
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_X_ Historical Years 1995 - 2015
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FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) LgComSales (OUTPUT)	(5) LgComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Jan (INPUT)	(10) Bin_Com (INPUT)	(11) HDHBD_01 (INPUT)	(12) HDHBD_02 (INPUT)	(13) HDHBD_03 (INPUT)	(14) HDHBD_12 (INPUT)
1	2013	JAN	453.962	466.675	36.774	9.697	0	1	1	92	0	0	0
2	2013	FEB	466.368	479.088	36.782	9.606	0	0	1	0	54	0	0
3	2013	MAR	475.285	477.462	36.790	9.489	0	0	1	0	0	74	0
4	2013	APR	485.151	486.898	36.800	9.417	0	0	1	0	0	0	0
5	2013	MAY	527.758	521.184	36.812	9.356	0	0	1	0	0	0	0
6	2013	JUN	622.055	607.748	36.828	9.285	0	0	1	0	0	0	0
7	2013	JUL	649.715	640.637	36.847	9.212	0	0	1	0	0	0	0
8	2013	AUG	659.878	647.768	36.870	9.215	0	0	1	0	0	0	0
9	2013	SEP	650.092	632.228	36.896	9.217	0	0	1	0	0	0	0
10	2013	OCT	600.750	593.582	36.923	9.217	0	0	1	0	0	0	0
11	2013	NOV	498.272	509.194	36.949	9.209	0	0	1	0	0	0	0
12	2013	DEC	468.860	467.013	36.972	9.205	0	0	1	0	0	0	77
13	2014	JAN	476.846	485.994	36.993	9.209	0	1	1	159	0	0	0
14	2014	FEB	494.226	512.490	37.012	9.258	0	0	1	0	168	0	0
15	2014	MAR	477.507	475.539	37.029	9.312	0	0	1	0	0	65	0
16	2014	APR	482.693	483.652	37.045	9.364	0	0	1	0	0	0	0
17	2014	MAY	541.377	526.534	37.057	9.414	0	0	1	0	0	0	0
18	2014	JUN	612.737	605.840	37.066	9.456	0	0	1	0	0	0	0
19	2014	JUL	651.639	657.577	37.082	9.500	0	0	1	0	0	0	0
20	2014	AUG	647.806	658.666	37.119	9.543	0	0	1	0	0	0	0
21	2014	SEP	651.408	663.697	37.178	9.589	0	0	1	0	0	0	0
22	2014	OCT	582.181	578.105	37.226	9.632	0	0	1	0	0	0	0
23	2014	NOV	490.830	503.991	37.225	9.689	0	0	1	0	0	0	0
24	2014	DEC	469.173	463.811	37.154	9.747	0	0	1	0	0	0	85

VARIABLE	DESCRIPTION
LgComSales	Billing Cycle Large Commercial kWh per Customer per Billing Day
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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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_X_ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
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FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) LgComSales (OUTPUT)	(5) LgComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Jan (INPUT)	(10) Bin_Com (INPUT)	(11) HDHBD_01 (INPUT)	(12) HDHBD_02 (INPUT)	(13) HDHBD_03 (INPUT)	(14) HDHBD_12 (INPUT)
1	2015	JAN	457.565	462.817	37.066	9.804	0	1	1	111	0	0	0
2	2015	FEB	481.766	479.924	37.038	9.837	0	0	1	0	137	0	0
3	2015	MAR	479.448	493.193	37.105	9.868	0	0	1	0	0	102	0
4	2015	APR	513.154	513.172	37.223	9.902	0	0	1	0	0	0	0
5	2015	MAY	553.399	552.764	37.310	9.921	0	0	1	0	0	0	0
6	2015	JUN	619.519	618.129	37.313	9.946	0	0	1	0	0	0	0
7	2015	JUL	664.666	662.453	37.267	9.976	0	0	1	0	0	0	0
8	2015	AUG	680.940	686.514	37.240	10.008	0	0	1	0	0	0	0
9	2015	SEP	645.278	641.530	37.275	10.073	0	0	1	0	0	0	0
10	2015	OCT	589.548		37.357	10.151	0	0	1	0	0	0	0
11	2015	NOV	497.393		37.448	10.189	0	0	1	0	0	0	0
12	2015	DEC	461.286		37.524	10.219	0	0	1	0	0	0	77
13	2016	JAN	464.226		37.588	10.253	0	1	1	136	0	0	0
14	2016	FEB	475.030		37.649	10.228	0	0	1	0	118	0	0
15	2016	MAR	469.837		37.718	10.207	0	0	1	0	0	63	0
16	2016	APR	488.281		37.795	10.179	0	0	1	0	0	0	0
17	2016	MAY	541.464		37.872	10.167	0	0	1	0	0	0	0
18	2016	JUN	621.674		37.945	10.149	0	0	1	0	0	0	0
19	2016	JUL	661.928		38.014	10.132	0	0	1	0	0	0	0
20	2016	AUG	667.594		38.082	10.106	0	0	1	0	0	0	0
21	2016	SEP	653.268		38.146	10.046	0	0	1	0	0	0	0
22	2016	OCT	594.288		38.212	9.978	0	0	1	0	0	0	0
23	2016	NOV	502.084		38.282	9.944	0	0	1	0	0	0	0
24	2016	DEC	466.292		38.356	9.909	0	0	1	0	0	0	77

VARIABLE	DESCRIPTION
LgComSales	Billing Cycle Large Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
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Supporting Schedules:

Recap Schedules:

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) LgComSales (OUTPUT)	(5) LgComSales (INPUT)	(6) GDP (INPUT)	(7) ComPrice (INPUT)	(8) Ivan (INPUT)	(9) Jan (INPUT)	(10) Bin_Com (INPUT)	(11) HDHBD_01 (INPUT)	(12) HDHBD_02 (INPUT)	(13) HDHBD_03 (INPUT)	(14) HDHBD_12 (INPUT)
1	2017	JAN	469.734		38.432	9.872	0	1	1	136	0	0	0
2	2017	FEB	480.328		38.504	9.879	0	0	1	0	118	0	0
3	2017	MAR	474.924		38.571	9.886	0	0	1	0	0	63	0
4	2017	APR	493.089		38.638	9.893	0	0	1	0	0	0	0
5	2017	MAY	546.094		38.702	9.899	0	0	1	0	0	0	0
6	2017	JUN	626.103		38.765	9.904	0	0	1	0	0	0	0
7	2017	JUL	666.180		38.826	9.909	0	0	1	0	0	0	0
8	2017	AUG	671.596		38.885	9.914	0	0	1	0	0	0	0
9	2017	SEP	656.775		38.939	9.918	0	0	1	0	0	0	0
10	2017	OCT	597.230		38.990	9.922	0	0	1	0	0	0	0
11	2017	NOV	504.693		39.039	9.926	0	0	1	0	0	0	0
12	2017	DEC	468.537		39.087	9.929	0	0	1	0	0	0	77

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VARIABLE	DESCRIPTION
LgComSales	Billing Cycle Large Commercial kWh per Customer per Billing Day
GDP	Gross Domestic Product per Capita ($000s)
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Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)
1	1995	OCT	0	0	0	0	0	0	0	319	0
2	1995	NOV	0	0	0	0	0	0	0	0	133
3	1995	DEC	0	0	0	0	0	0	0	0	0
4	1996	JAN	0	0	0	0	0	0	0	0	0
5	1996	FEB	0	0	0	0	0	0	0	0	0
6	1996	MAR	50	0	0	0	0	0	0	0	0
7	1996	APR	0	53	0	0	0	0	0	0	0
8	1996	MAY	0	0	209	0	0	0	0	0	0
9	1996	JUN	0	0	0	393	0	0	0	0	0
10	1996	JUL	0	0	0	0	475	0	0	0	0
11	1996	AUG	0	0	0	0	0	463	0	0	0
12	1996	SEP	0	0	0	0	0	0	412	0	0
13	1996	OCT	0	0	0	0	0	0	0	268	0
14	1996	NOV	0	0	0	0	0	0	0	0	150
15	1996	DEC	0	0	0	0	0	0	0	0	0

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VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Large Commercial Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)
1	1994	JAN	0	0	0	0	0	0	0	0	0
2	1994	FEB	0	0	0	0	0	0	0	0	0
3	1994	MAR	92	0	0	0	0	0	0	0	0
4	1994	APR	0	122	0	0	0	0	0	0	0
5	1994	MAY	0	0	168	0	0	0	0	0	0
6	1994	JUN	0	0	0	312	0	0	0	0	0
7	1994	JUL	0	0	0	0	435	0	0	0	0
8	1994	AUG	0	0	0	0	0	435	0	0	0
9	1994	SEP	0	0	0	0	0	0	431	0	0
10	1994	OCT	0	0	0	0	0	0	0	316	0
11	1994	NOV	0	0	0	0	0	0	0	0	83
12	1994	DEC	0	0	0	0	0	0	0	0	0
13	1995	JAN	0	0	0	0	0	0	0	0	0
14	1995	FEB	0	0	0	0	0	0	0	0	0
15	1995	MAR	22	0	0	0	0	0	0	0	0
16	1995	APR	0	93	0	0	0	0	0	0	0
17	1995	MAY	0	0	224	0	0	0	0	0	0
18	1995	JUN	0	0	0	436	0	0	0	0	0
19	1995	JUL	0	0	0	0	499	0	0	0	0
20	1995	AUG	0	0	0	0	0	451	0	0	0
21	1995	SEP	0	0	0	0	0	0	422	0	0
22	1995	OCT	0	0	0	0	0	0	0	319	0
23	1995	NOV	0	0	0	0	0	0	0	0	153
24	1995	DEC	0	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Large Commercial Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)
1	1999	JAN	0	0	0	0	0	0	0	0	0
2	1999	FEB	0	0	0	0	0	0	0	0	0
3	1999	MAR	35	0	0	0	0	0	0	0	0
4	1999	APR	0	118	0	0	0	0	0	0	0
5	1999	MAY	0	0	221	0	0	0	0	0	0
6	1999	JUN	0	0	0	333	0	0	0	0	0
7	1999	JUL	0	0	0	0	419	0	0	0	0
8	1999	AUG	0	0	0	0	0	474	0	0	0
9	1999	SEP	0	0	0	0	0	0	425	0	0
10	1999	OCT	0	0	0	0	0	0	0	267	0
11	1999	NOV	0	0	0	0	0	0	0	0	114
12	1999	DEC	0	0	0	0	0	0	0	0	0
13	2000	JAN	0	0	0	0	0	0	0	0	0
14	2000	FEB	0	0	0	0	0	0	0	0	0
15	2000	MAR	69	0	0	0	0	0	0	0	0
16	2000	APR	0	102	0	0	0	0	0	0	0
17	2000	MAY	0	0	205	0	0	0	0	0	0
18	2000	JUN	0	0	0	388	0	0	0	0	0
19	2000	JUL	0	0	0	0	480	0	0	0	0
20	2000	AUG	0	0	0	0	0	478	0	0	0
21	2000	SEP	0	0	0	0	0	0	424	0	0
22	2000	OCT	0	0	0	0	0	0	0	238	0
23	2000	NOV	0	0	0	0	0	0	0	0	150
24	2000	DEC	0	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Large Commercial Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)
1	2001	JAN	0	0	0	0	0	0	0	0	0
2	2001	FEB	0	0	0	0	0	0	0	0	0
3	2001	MAR	50	0	0	0	0	0	0	0	0
4	2001	APR	0	99	0	0	0	0	0	0	0
5	2001	MAY	0	0	196	0	0	0	0	0	0
6	2001	JUN	0	0	0	355	0	0	0	0	0
7	2001	JUL	0	0	0	0	407	0	0	0	0
8	2001	AUG	0	0	0	0	0	422	0	0	0
9	2001	SEP	0	0	0	0	0	0	384	0	0
10	2001	OCT	0	0	0	0	0	0	0	219	0
11	2001	NOV	0	0	0	0	0	0	0	0	120
12	2001	DEC	0	0	0	0	0	0	0	0	0
13	2002	JAN	0	0	0	0	0	0	0	0	0
14	2002	FEB	0	0	0	0	0	0	0	0	0
15	2002	MAR	32	0	0	0	0	0	0	0	0
16	2002	APR	0	114	0	0	0	0	0	0	0
17	2002	MAY	0	0	282	0	0	0	0	0	0
18	2002	JUN	0	0	0	336	0	0	0	0	0
19	2002	JUL	0	0	0	0	409	0	0	0	0
20	2002	AUG	0	0	0	0	0	429	0	0	0
21	2002	SEP	0	0	0	0	0	0	415	0	0
22	2002	OCT	0	0	0	0	0	0	0	329	0
23	2002	NOV	0	0	0	0	0	0	0	0	128
24	2002	DEC	0	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Large Commercial Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)
1	2003	JAN	0	0	0	0	0	0	0	0	0
2	2003	FEB	0	0	0	0	0	0	0	0	0
3	2003	MAR	43	0	0	0	0	0	0	0	0
4	2003	APR	0	110	0	0	0	0	0	0	0
5	2003	MAY	0	0	258	0	0	0	0	0	0
6	2003	JUN	0	0	0	356	0	0	0	0	0
7	2003	JUL	0	0	0	0	386	0	0	0	0
8	2003	AUG	0	0	0	0	0	397	0	0	0
9	2003	SEP	0	0	0	0	0	0	392	0	0
10	2003	OCT	0	0	0	0	0	0	0	235	0
11	2003	NOV	0	0	0	0	0	0	0	0	153
12	2003	DEC	0	0	0	0	0	0	0	0	0
13	2004	JAN	0	0	0	0	0	0	0	0	0
14	2004	FEB	0	0	0	0	0	0	0	0	0
15	2004	MAR	39	0	0	0	0	0	0	0	0
16	2004	APR	0	88	0	0	0	0	0	0	0
17	2004	MAY	0	0	192	0	0	0	0	0	0
18	2004	JUN	0	0	0	364	0	0	0	0	0
19	2004	JUL	0	0	0	0	421	0	0	0	0
20	2004	AUG	0	0	0	0	0	424	0	0	0
21	2004	SEP	0	0	0	0	0	0	385	0	0
22	2004	OCT	0	0	0	0	0	0	0	321	0
23	2004	NOV	0	0	0	0	0	0	0	0	195
24	2004	DEC	0	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Large Commercial Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)
1	2005	JAN	0	0	0	0	0	0	0	0	0
2	2005	FEB	0	0	0	0	0	0	0	0	0
3	2005	MAR	29	0	0	0	0	0	0	0	0
4	2005	APR	0	72	0	0	0	0	0	0	0
5	2005	MAY	0	0	156	0	0	0	0	0	0
6	2005	JUN	0	0	0	351	0	0	0	0	0
7	2005	JUL	0	0	0	0	436	0	0	0	0
8	2005	AUG	0	0	0	0	0	437	0	0	0
9	2005	SEP	0	0	0	0	0	0	449	0	0
10	2005	OCT	0	0	0	0	0	0	0	357	0
11	2005	NOV	0	0	0	0	0	0	0	0	129
12	2005	DEC	0	0	0	0	0	0	0	0	0
13	2006	JAN	0	0	0	0	0	0	0	0	0
14	2006	FEB	0	0	0	0	0	0	0	0	0
15	2006	MAR	65	0	0	0	0	0	0	0	0
16	2006	APR	0	145	0	0	0	0	0	0	0
17	2006	MAY	0	0	250	0	0	0	0	0	0
18	2006	JUN	0	0	0	394	0	0	0	0	0
19	2006	JUL	0	0	0	0	481	0	0	0	0
20	2006	AUG	0	0	0	0	0	451	0	0	0
21	2006	SEP	0	0	0	0	0	0	415	0	0
22	2006	OCT	0	0	0	0	0	0	0	282	0
23	2006	NOV	0	0	0	0	0	0	0	0	96
24	2006	DEC	0	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Large Commercial Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)
1	2007	JAN	0	0	0	0	0	0	0	0	0
2	2007	FEB	0	0	0	0	0	0	0	0	0
3	2007	MAR	47	0	0	0	0	0	0	0	0
4	2007	APR	0	113	0	0	0	0	0	0	0
5	2007	MAY	0	0	222	0	0	0	0	0	0
6	2007	JUN	0	0	0	341	0	0	0	0	0
7	2007	JUL	0	0	0	0	440	0	0	0	0
8	2007	AUG	0	0	0	0	0	476	0	0	0
9	2007	SEP	0	0	0	0	0	0	449	0	0
10	2007	OCT	0	0	0	0	0	0	0	332	0
11	2007	NOV	0	0	0	0	0	0	0	0	116
12	2007	DEC	0	0	0	0	0	0	0	0	0
13	2008	JAN	0	0	0	0	0	0	0	0	0
14	2008	FEB	0	0	0	0	0	0	0	0	0
15	2008	MAR	35	0	0	0	0	0	0	0	0
16	2008	APR	0	94	0	0	0	0	0	0	0
17	2008	MAY	0	0	210	0	0	0	0	0	0
18	2008	JUN	0	0	0	412	0	0	0	0	0
19	2008	JUL	0	0	0	0	464	0	0	0	0
20	2008	AUG	0	0	0	0	0	483	0	0	0
21	2008	SEP	0	0	0	0	0	0	434	0	0
22	2008	OCT	0	0	0	0	0	0	0	264	0
23	2008	NOV	0	0	0	0	0	0	0	0	86
24	2008	DEC	0	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Large Commercial Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)
1	2009	JAN	0	0	0	0	0	0	0	0	0
2	2009	FEB	0	0	0	0	0	0	0	0	0
3	2009	MAR	49	0	0	0	0	0	0	0	0
4	2009	APR	0	93	0	0	0	0	0	0	0
5	2009	MAY	0	0	222	0	0	0	0	0	0
6	2009	JUN	0	0	0	366	0	0	0	0	0
7	2009	JUL	0	0	0	0	478	0	0	0	0
8	2009	AUG	0	0	0	0	0	421	0	0	0
9	2009	SEP	0	0	0	0	0	0	366	0	0
10	2009	OCT	0	0	0	0	0	0	0	321	0
11	2009	NOV	0	0	0	0	0	0	0	0	115
12	2009	DEC	0	0	0	0	0	0	0	0	0
13	2010	JAN	0	0	0	0	0	0	0	0	0
14	2010	FEB	0	0	0	0	0	0	0	0	0
15	2010	MAR	6	0	0	0	0	0	0	0	0
16	2010	APR	0	67	0	0	0	0	0	0	0
17	2010	MAY	0	0	211	0	0	0	0	0	0
18	2010	JUN	0	0	0	390	0	0	0	0	0
19	2010	JUL	0	0	0	0	465	0	0	0	0
20	2010	AUG	0	0	0	0	0	509	0	0	0
21	2010	SEP	0	0	0	0	0	0	436	0	0
22	2010	OCT	0	0	0	0	0	0	0	293	0
23	2010	NOV	0	0	0	0	0	0	0	0	149
24	2010	DEC	0	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Large Commercial Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)
1	2011	JAN	0	0	0	0	0	0	0	0	0
2	2011	FEB	0	0	0	0	0	0	0	0	0
3	2011	MAR	62	0	0	0	0	0	0	0	0
4	2011	APR	0	154	0	0	0	0	0	0	0
5	2011	MAY	0	0	236	0	0	0	0	0	0
6	2011	JUN	0	0	0	403	0	0	0	0	0
7	2011	JUL	0	0	0	0	486	0	0	0	0
8	2011	AUG	0	0	0	0	0	484	0	0	0
9	2011	SEP	0	0	0	0	0	0	421	0	0
10	2011	OCT	0	0	0	0	0	0	0	239	0
11	2011	NOV	0	0	0	0	0	0	0	0	95
12	2011	DEC	0	0	0	0	0	0	0	0	0
13	2012	JAN	0	0	0	0	0	0	0	0	0
14	2012	FEB	0	0	0	0	0	0	0	0	0
15	2012	MAR	81	0	0	0	0	0	0	0	0
16	2012	APR	0	179	0	0	0	0	0	0	0
17	2012	MAY	0	0	249	0	0	0	0	0	0
18	2012	JUN	0	0	0	393	0	0	0	0	0
19	2012	JUL	0	0	0	0	438	0	0	0	0
20	2012	AUG	0	0	0	0	0	449	0	0	0
21	2012	SEP	0	0	0	0	0	0	409	0	0
22	2012	OCT	0	0	0	0	0	0	0	277	0
23	2012	NOV	0	0	0	0	0	0	0	0	114
24	2012	DEC	0	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Large Commercial Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)
1	2013	JAN	0	0	0	0	0	0	0	0	0
2	2013	FEB	0	0	0	0	0	0	0	0	0
3	2013	MAR	27	0	0	0	0	0	0	0	0
4	2013	APR	0	87	0	0	0	0	0	0	0
5	2013	MAY	0	0	177	0	0	0	0	0	0
6	2013	JUN	0	0	0	370	0	0	0	0	0
7	2013	JUL	0	0	0	0	425	0	0	0	0
8	2013	AUG	0	0	0	0	0	439	0	0	0
9	2013	SEP	0	0	0	0	0	0	418	0	0
10	2013	OCT	0	0	0	0	0	0	0	313	0
11	2013	NOV	0	0	0	0	0	0	0	0	124
12	2013	DEC	0	0	0	0	0	0	0	0	0
13	2014	JAN	0	0	0	0	0	0	0	0	0
14	2014	FEB	0	0	0	0	0	0	0	0	0
15	2014	MAR	30	0	0	0	0	0	0	0	0
16	2014	APR	0	79	0	0	0	0	0	0	0
17	2014	MAY	0	0	209	0	0	0	0	0	0
18	2014	JUN	0	0	0	356	0	0	0	0	0
19	2014	JUL	0	0	0	0	429	0	0	0	0
20	2014	AUG	0	0	0	0	0	406	0	0	0
21	2014	SEP	0	0	0	0	0	0	407	0	0
22	2014	OCT	0	0	0	0	0	0	0	255	0
23	2014	NOV	0	0	0	0	0	0	0	0	101
24	2014	DEC	0	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Large Commercial Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For each forecasting model used to estimate test year projections for customers, demand, and energy, provide the historical and projected values for the input variables and the output variables used in estimating and/or validating the model. Also, provide a description of each variable, specifying the unit of measurement and the time span or cross sectional range of the data.

Type of Data Shown:
___ Projected Test Year Ended 12/31/17
_X_ Prior Year Ended 12/31/16
_X_ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)
1	2015	JAN	0	0	0	0	0	0	0	0	0
2	2015	FEB	0	0	0	0	0	0	0	0	0
3	2015	MAR	54	0	0	0	0	0	0	0	0
4	2015	APR	0	163	0	0	0	0	0	0	0
5	2015	MAY	0	0	242	0	0	0	0	0	0
6	2015	JUN	0	0	0	367	0	0	0	0	0
7	2015	JUL	0	0	0	0	456	0	0	0	0
8	2015	AUG	0	0	0	0	0	484	0	0	0
9	2015	SEP	0	0	0	0	0	0	405	0	0
10	2015	OCT	0	0	0	0	0	0	0	288	0
11	2015	NOV	0	0	0	0	0	0	0	0	125
12	2015	DEC	0	0	0	0	0	0	0	0	0
13	2016	JAN	0	0	0	0	0	0	0	0	0
14	2016	FEB	0	0	0	0	0	0	0	0	0
15	2016	MAR	46	0	0	0	0	0	0	0	0
16	2016	APR	0	107	0	0	0	0	0	0	0
17	2016	MAY	0	0	217	0	0	0	0	0	0
18	2016	JUN	0	0	0	371	0	0	0	0	0
19	2016	JUL	0	0	0	0	447	0	0	0	0
20	2016	AUG	0	0	0	0	0	451	0	0	0
21	2016	SEP	0	0	0	0	0	0	418	0	0
22	2016	OCT	0	0	0	0	0	0	0	288	0
23	2016	NOV	0	0	0	0	0	0	0	0	125
24	2016	DEC	0	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Large Commercial Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

III

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

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Type of Data Shown:
_X_ Projected Test Year Ended 12/31/17
___ Prior Year Ended 12/31/16
___ Historical Years 1995 - 2015
Witness: J. K. Park

FORECASTING MODEL: LARGE COMMERCIAL ENERGY

(1) LINE NO.	(2) YEAR	(3) MONTH	(4) CDHBD_03 (INPUT)	(5) CDHBD_04 (INPUT)	(6) CDHBD_05 (INPUT)	(7) CDHBD_06 (INPUT)	(8) CDHBD_07 (INPUT)	(9) CDHBD_08 (INPUT)	(10) CDHBD_09 (INPUT)	(11) CDHBD_10 (INPUT)	(12) CDHBD_11 (INPUT)
1	2017	JAN	0	0	0	0	0	0	0	0	0
2	2017	FEB	0	0	0	0	0	0	0	0	0
3	2017	MAR	46	0	0	0	0	0	0	0	0
4	2017	APR	0	107	0	0	0	0	0	0	0
5	2017	MAY	0	0	217	0	0	0	0	0	0
6	2017	JUN	0	0	0	371	0	0	0	0	0
7	2017	JUL	0	0	0	0	447	0	0	0	0
8	2017	AUG	0	0	0	0	0	451	0	0	0
9	2017	SEP	0	0	0	0	0	0	418	0	0
10	2017	OCT	0	0	0	0	0	0	0	288	0
11	2017	NOV	0	0	0	0	0	0	0	0	125
12	2017	DEC	0	0	0	0	0	0	0	0	0

VARIABLE	DESCRIPTION
CDHBD_XX	Billing Cycle Large Commercial Cooling Degree Hours per Billing Day for Month XX (03=March, etc.)

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For a projected test year, provide a schedule of assumptions used in developing projected or estimated data. As a minimum, state assumptions used for balance sheet, income statement and sales forecast.

Type of Data Shown:
_X_Projected Test Year Ended 12/31/17
___Prior Year Ended 12/31/16
___Historical Year Ended 12/31/15
Witness: See Below

Index to Assumptions

(1) Line No.	(2) Item	(3) Forecast/Budget	(4) Witness	(5) Page
1				
2	I.	General Assumptions		
3		A. Forecast of Customer, Energy, Peak Demand, and Revenue	Park	3
4				
5		B. Test Year Operations and Maintenance Budget Excluding Fuel and	Park	4
6		Purchased Power	Mason	5
7			Burroughs	
8			Smith	
9			Terry	
10			Hodnett	
11		C. Test Year Financial Assumptions	Mason	6
12			Liu	
13	II.	Operating Assumptions	Mason	7
14		A. Income Statement	Park	
15			Burroughs	
16			Smith	
17			Terry	
18			Hodnett	
19		B. Average Annual Net Unit Heat Rates for Projected Test Year	Burroughs	10
20		C. Outage Rates for Projected Test Year	Burroughs	11
21		D. Planned Maintenance for Projected Test Year	Burroughs	12
22		E. Net Unit Capacity Ratings for Projected Test Year	Burroughs	13

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Index to Assumptions

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Type of Data Shown:
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___Prior Year Ended 12/31/16
___Historical Year Ended 12/31/15
Witness: J. K. Park

I. GENERAL ASSUMPTIONS

A. FORECAST OF CUSTOMER , ENERGY, PEAK DEMAND, AND REVENUE

(1)
Line
No.

1 Normal weather conditions were assumed in the development of energy sales and peak demand forecasts. Monthly normal weather is the average, over
2 the past 20 years, of cooling and heating degree hours based on temperatures measured at the National Oceanic and Atmospheric Administration (NOAA)
3 weather station located in Pensacola, Florida.

4 Gulf projects that the economy in our service area has returned to pre-recession levels and normal growth should be expected in the following years.

5 Economic projections were provided by Moody's Analytics, a well respected economic forecasting firm.

6 Gulf utilized its most recent DSM plan, which was approved by the Commission in Order No. PSC-15-0330-PAA-EG on August 19, 2015,
7 to adjust forecasted sales and annual system peak demands for projected conservation impacts.

8 Base rate revenues were calculated using the FPSC approved rate schedules in effect at the time of the forecast.

9 YEAR ENDED DECEMBER, 2017 TEST YEAR GROWTH RATES

10	CUSTOMERS	1.5%
11	RETAIL KWH SALES	1.1%

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

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EXPLANATION: For a projected test year, provide a schedule of assumptions used in developing projected or estimated data. As a minimum, state assumptions used for balance sheet, income statement and sales forecast.

Type of Data Shown:
_X_Projected Test Year Ended 12/31/17
___Prior Year Ended 12/31/16
___Historical Year Ended 12/31/15
Witness: See Below

I. GENERAL ASSUMPTIONS
B. TEST YEAR OPERATIONS AND MAINTENANCE BUDGET
EXCLUDING FUEL AND PURCHASED POWER

(1) Line No.	(2) Item	(3) Amount	(4) Witness	(5) Assumption
1	1. Inflation Factor -		Mason	Bureau of Labor Statistics: Consumer Price Index (Urban Consumer); Moody's Analytics.
2	2016	3.2%		
3	2017	3.7%		
4	2. Retail Customers -			
5	Dec-2017	460,850	Park	Based on assumptions outlined in Section I.A. of this schedule and as described in direct testimony.
6	Growth rate	1.5%		
7	3. Retail Energy - MWH	11,022,525	Park	Derived using assumptions outlined in Section I.A. of this schedule and as described in direct testimony.
8	Growth rate	1.1%		
9				
10	4. Peak Demand - MW	2,491	Park	Projected using assumptions outlined in Section I.A. of this schedule and described in direct testimony
11	Growth rate	1.7%		
12	5. Forecasted Composite		Mason	Assumptions were based on inflation and current salary trends of other companies and utilities.
13	Wage and Salary			
14	Increase Guidelines			
15	- Exempt	3.00%		
16	- Non-exempt	3.00%		
17	- Covered	3.00%		

18 Totals may not add due to rounding.

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For a projected test year, provide a schedule of assumptions used in developing projected or estimated data. As a minimum, state assumptions used for balance sheet, income statement and sales forecast.

Type of Data Shown:
_X_Projected Test Year Ended 12/31/17
___Prior Year Ended 12/31/16
___Historical Year Ended 12/31/15
Witness: See Below

I. GENERAL ASSUMPTIONS
B. TEST YEAR OPERATIONS AND MAINTENANCE BUDGET
EXCLUDING FUEL AND PURCHASED POWER

(1) Line No.	(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1	6. January - December 2017			
2	Operations Expense (net of fuel and purchased power):		Mason	
3	Production	$ 87,316	Burroughs	Based on Planning Units' budgets which incorporate the above
4	Transmission	$ 20,994	Smith	assumptions and were developed using the process described in
5	Distribution	$ 25,006	Smith	MFR F-5 and direct testimony of each witness.
6	Customer Accounting	$ 28,670	Terry	
7	Customer Service and Information	$ 26,675	Terry	
8	Sales Expense	$ 1,398	Terry	
9	Administrative and General	$ 86,307	Hodnett	
10	Total Operations	$ 276,366		
11	7. January - December 2017			
12	Maintenance Expense:		Mason	
13	Production	$ 78,408	Burroughs	Based on Planning Units' budgets which incorporate the above
14	Transmission	$ 7,635	Smith	assumptions and were developed using the process described in
15	Distribution	$ 26,141	Smith	MFR F-5 and direct testimony of each witness.
16	Administrative and General	$ 742	Hodnett	
17	Total Maintenance	$ 112,926		

18 Totals may not add due to rounding.

FLORIDA PUBLIC SERVICE COMMISSION

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EXPLANATION: For a projected test year, provide a schedule of assumptions used in developing projected or estimated data. As a minimum, state assumptions used for balance sheet, income statement and sales forecast.

Type of Data Shown:
_X_Projected Test Year Ended 12/31/17
___Prior Year Ended 12/31/16
___Historical Year Ended 12/31/15
Witness: See Below

I. GENERAL ASSUMPTIONS
C. TEST YEAR FINANCIAL

(1) Line No.	(2) Item	(3) Amount	(4) Witness	(5) Assumption
1	1. Interest Rates on Commercial Paper		Mason	Interest rate assumptions are provided by SCS Financial Planning based upon a market forecast by Moody's Analytics. The monthly amount of short term debt is reflected on Exhibit JJM-1, Schedule 7, page 2 of 3.
2	1st Quarter, 2017	2.75%		
3	2nd Quarter, 2017	3.05%		
4	3rd Quarter, 2017	3.25%		
5	4th Quarter, 2017	3.50%		
6	2. Interest Rates on Long-Term Debt; Issuances		Mason	The new issues of long-term debt are based on Gulf's need for additional external funds
7	and Retirements of Long-Term Debt			while maintaining the Company's financial integrity. No issuances are
8	June 2017 ($85M Retirement)	5.90%		projected in 2017. There is one projected retirement for June 2017.
9				
10	3. Dividends to Southern Company	$ 120,600	Mason Liu	Based on projections of Southern Company's cash dividends to its shareholders and its net operating expenses. Southern's total cash requirement is then apportioned to the operating companies such that dividends paid to Southern are proportionate to Southern's common equity investment in the operating company.
11				
12				
13				
14	4. Dividends on Preference Stock	$ 9,003	Mason	The projected amount is calculated by multiplying each preference principal by its dividend rate and dividing by 12. The calculation is adjusted for any new issues and scheduled retirements.
15				
16				
17	5. Issuance of common equity to	$ 0	Mason	Based on Southern Company's ability to market new issues of its common stock and
18	Southern Company		Liu	the operating company's need for external funds.
19	6. Retirement of First Mortgage Bond	$ 0	Mason	There are none projected in the test year.
20	7. Retirement of Pollution Control Bond	$ 0	Mason	There are none projected in the test year.
21	8. Preference Stock Issues	$ 0	Mason	Based on Gulf's projected needs of cash. There are no preference stock issues forecasted in the test year.
22				
23	9. Pollution Control Bond Issue	$ 0	Mason	There are no Pollution Control Bond issues forecasted in the test year.

24 Totals may not add due to rounding.

Supporting Schedules: B-3, B-7, B-9

Recap Schedules: B-1, C-1

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For a projected test year, provide a schedule of assumptions used in developing projected or estimated data. As a minimum, state assumptions used for balance sheet, income statement and sales forecast.

Type of Data Shown:
_X_Projected Test Year Ended 12/31/17
___Prior Year Ended 12/31/16
___Historical Year Ended 12/31/15
Witness: See Below

II. OPERATING ASSUMPTIONS
A. INCOME STATEMENT

(1) Line No.	(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1	1. Total Electric Revenue	$ 1,503,134	Mason Park	Base rate revenues (billed and unbilled) are input to the Financial Model. The monthly fuel clause revenues (billed and unbilled) are based on forecasted monthly recoverable fuel expense, interchange costs and MWH sales. Energy Conservation Cost Recovery clause revenues (billed and unbilled) are calculated based on forecasted monthly recoverable expenses and MWH sales. Purchased Power Capacity Clause revenues (billed and unbilled) are calculated based on monthly net pool capacity and non-associated purchase power agreements. Environmental Cost Recovery Clause revenues (billed and unbilled) are calculated based on qualified monthly environmental costs. Sales for Resale are derived from the Energy Budget described in MFR F-5. With the exception of Municipal Franchise Fees and County Franchise Fees, Other Operating Revenues are input based on an analysis of the accounts. Municipal Franchise Fees and County Franchise Fees are calculated using an input factor based on historical data.
11	2. Fuel & Emission Allowance Expense (without Fuel Handling)	$ 481,818	Mason Burroughs	The projected amount is derived from the Fuel Budget as described in MFR F-5. This expense is entered into the Financial Model by direct interface with the FUELPRO model.
13	3. Purchased Power	$ 101,155	Mason Burroughs	The projected amount is derived from the Interchange Budget as described in MFR F-5. This expense is entered into the Financial Model by direct interface with the PROSYM model.
15	4. Operations Expense (including Fuel Handling)	$ 276,366	Mason Burroughs Smith Terry Hodnett	The projected amount is derived from the O&M Budget as described in Section I.B. of this schedule. These expenses are summarized and input into the Financial Model.
20	5. Maintenance Expense	$ 112,926	Mason Burroughs Smith Hodnett	The projected amount is derived from the O&M Budget as described in Section I.B. of this schedule. These expenses are summarized and input into the Financial Model.
24	6. Depreciation Expense	$ 169,661	Mason Hodnett	The projected amount is calculated by Corporate Planning utilizing the Plant in Service inputs as described in Section III.A. of this MFR. This amount is the electric depreciation only; it excludes depreciation associated with transportation.
27	7. Amortization Expense	$ 8,268	Mason Hodnett	The projected amount is input into the Financial Model based on projected Plant balances as described in Section III.A. of this MFR. It is electric only.
29	8. Amortization Expense	$ (394)	Mason	The projected amount is the amortization of the Investment Tax Credits which are
30	Investment Tax Credit		Hodnett	amortized over the life of related assets, pursuant to IRS regulations.

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Type of Data Shown:
X Projected Test Year Ended 12/31/17
___Prior Year Ended 12/31/16
___Historical Year Ended 12/31/15
Witness: See Below

II. OPERATING ASSUMPTIONS
A. INCOME STATEMENT

(1) Line No.	(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1	9. Taxes Other than Income Taxes	$ 115,277	Mason Hodnett	All taxes other than income taxes are forecasted by applying actual, statutory, or average rates to the applicable tax base. These taxes include Florida Public Service Commission assessment fees, real and personal property taxes, gross receipts tax, franchise fees, state and federal unemployment tax, FICA, state motor vehicle licenses, federal highway use tax, and miscellaneous state and local taxes. The total amount is then reduced for taxes capitalized and taxes applicable to motor vehicles.
7	10. Federal and State Income Taxes	$ 69,769	Mason Hodnett	Currently applicable federal and state income tax regulations are followed. The lowest possible tax payments are made currently. Assumptions include: - Federal tax rate = 35% - Full normalization of book and tax timing and basis differences - Current IRS rules are followed - State tax rate = 5.5% - State of Florida tax regulations utilized
14	11. AFUDC - Debt and Equity	$ 0	Mason	AFUDC Rate: 5.73% The AFUDC rate is calculated based on a 13-month average jurisdictional capital structure and is input into a compounding formula to arrive at the monthly AFUDC rate. The monthly rate is applied to the projected average monthly eligible CWIP balance. No CWIP eligible projects are projected in 2017.
19	12. Earnings on Temporary Cash	$ 0	Mason	The projected amount is calculated by applying the applicable forecasted interest rate to the projected average monthly balance of temporary cash investments.
21	13. Other Income	$ 883	Mason	The projected amount includes the earnings on the funded portion of the property insurance reserve, as well as the projected earnings on the company's surge product activity.
24	14. Other Income Deductions	$ 5,044	Mason	The projected amount includes donations, civic membership, governmental expenses, and the amortization of Non-electric Investment Tax Credits.
26	15. Income Taxes on Other Income	$ (1,190)	Mason Hodnett	Currently applicable federal and state income tax regulations are followed. The lowest possible tax payments are made currently. See item 10 of this section for assumptions.

28 Totals may not add due to rounding.

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For a projected test year, provide a schedule of assumptions used in developing projected or estimated data. As a minimum, state assumptions used for balance sheet, income statement and sales forecast.

Type of Data Shown:
X Projected Test Year Ended 12/31/17
___Prior Year Ended 12/31/16
___Historical Year Ended 12/31/15
Witness: See Below

II. OPERATING ASSUMPTIONS
A. INCOME STATEMENT

(1) Line No.	(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1	16. Interest on Long-Term Debt	$ 47,895	Mason	The projected amount is calculated by applying the coupon interest rate to the bond principal and dividing by 12. The calculation is adjusted for any new issues and scheduled retirements.
4	17. Interest on Pollution Control Debt	$ 8,690	Mason	The projected amount is calculated by applying the coupon interest rate to the bond principal and dividing by 12. The calculation is adjusted for any new issues and scheduled retirements.
7	18. Interest on Short-term Debt	$ 1,430	Mason	The projected amount is calculated by applying the forecasted short-term interest rates, as described in Section I.C. of this schedule, to the face amount of short-term debt projected to be outstanding.
10	19. Amortization of Debt Discount, Premium and Expense	$ 1,995	Mason	The projected amount is calculated based on the embedded amortization amounts. No adjustments are made for new debt issues. The interest rate on new debt issues is projected to include the effect of debt-related costs over the life of the debt issued.
13	20. Other Interest Expense	$ 841	Mason	The projected amount is calculated based on applying the budgeted rate to the projected average monthly balance of Customer Deposits.
15	21. Preference Dividends	$ 9,003	Mason	The projected amount is calculated by multiplying each preference principal by its dividend rate and dividing by 12. The calculation is adjusted for any new issues and scheduled retirements.
18	22. Net Income After Dividends on Preference Stock	$ 95,464		

20 Totals may not add due to rounding.

FLORIDA PUBLIC SERVICE COMMISSION

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___Historical Year Ended 12/31/15
Witness: M. L. Burroughs

II. OPERATING ASSUMPTIONS
B. AVERAGE ANNUAL NET UNIT

(1) Line No.	(2) Unit	(3) Average Net Heat Rates (BTU/KWH)
1	CRIST 4	11,150
2	CRIST 5	11,036
3	CRIST 6	10,766
4	CRIST 7	10,243
5	SMITH 3	7,132
6	SMITH A	14,066
7	DANIEL 1	10,633
8	DANIEL 2	10,496
9	SCHERER 3	10,200
10	PEA RIDGE 1	15,000
11	PEA RIDGE 2	15,000
12	PEA RIDGE 3	15,000
13	PERDIDO 1	9,900
14	PERDIDO 2	9,900

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Type of Data Shown:
__X Projected Test Year Ended 12/31/17
___Prior Year Ended 12/31/16
___Historical Year Ended 12/31/15
Witness: M. L. Burroughs

II. OPERATING ASSUMPTIONS
C. OUTAGE RATES FOR PROJECTED TEST YEAR

(1) Line No.	(2) Unit	(3) Equivalent Forced Outage Rate %
1	CRIST 4	6.3%
2	CRIST 5	6.3%
3	CRIST 6	6.1%
4	CRIST 7	5.5%
5	SMITH 3	3.7%
6	SMITH A	2.2%
7	DANIEL 1	3.4%
8	DANIEL 2	3.4%
9	SCHERER 3	3.2%
10	PEA RIDGE 1	3.9%
11	PEA RIDGE 2	3.9%
12	PEA RIDGE 3	3.9%
13	PERDIDO 1	5.9%
14	PERDIDO 2	5.9%

FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: For a projected test year, provide a schedule of assumptions used in developing projected or estimated data. As a minimum, state assumptions used for balance sheet, income statement and sales forecast.

Type of Data Shown:
_X_Projected Test Year Ended 12/31/17
___Prior Year Ended 12/31/16
___Historical Year Ended 12/31/15
Witness: M. L. Burroughs

II. OPERATING ASSUMPTIONS
D. PLANNED MAINTENANCE FOR PROJECTED TEST

(1) Line No.	(2) Unit	(3) Start Date	(4) End Date	(5) Outage Duration (Days)	(6) Total Days
1	CRIST 4	09/23/17	10/22/17	30	30
2	CRIST 5	09/23/17	10/22/17	30	30
3	CRIST 6	04/07/17	05/27/17	51	51
4	CRIST 7	04/26/17	05/26/17	31	31
5	SMITH 3	04/22/17	04/30/17	9	9
6		11/09/17	11/17/17	9	9
7	SMITH A	No Outage Planned			
8	DANIEL 1	05/01/17	05/14/17	14	14
9	DANIEL 2	03/14/17	05/28/17	76	76
10	SCHERER 3	03/18/17	05/12/17	56	56
11	PEA RIDGE 1 (a)	N/A	N/A	N/A	N/A
12	PEA RIDGE 2 (a)	N/A	N/A	N/A	N/A
13	PEA RIDGE 3 (a)	N/A	N/A	N/A	N/A
14	PERDIDO 1 (a)	N/A	N/A	N/A	N/A
15	PERDIDO 2 (a)	N/A	N/A	N/A	N/A

16 (a) Quarterly preventative maintenance performed on variable dates and durations.

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Witness: M. L. Burroughs

II. OPERATING ASSUMPTIONS
E. NET UNIT CAPACITY RATINGS FOR PROJECTED TEST

(1) Line No.	(2) Unit	(3) Net (Summer & Winter)
1	CRIST 4	75
2	CRIST 5	75
3	CRIST 6	299
4	CRIST 7	475
5	SMITH 3	577/605
6	SMITH A	32/40
7	DANIEL 1	255
8	DANIEL 2	255
9	SCHERER 3	214
10	PEA RIDGE 1	4/5
11	PEA RIDGE 2	4/5
12	PEA RIDGE 3	4/5
13	PERDIDO 1	1.5
14	PERDIDO 2	1.5

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Witness: See Below

II. OPERATING ASSUMPTIONS
F. OTHER FUEL BUDGET ASSUMPTIONS FOR PROJECTED TEST YEAR

(1) Line No.	(2) Item	(3) Witness	(4) Assumption
1	1. System Generation Expansion Plan	Burroughs	a. Generation Expansion Plan as provided by System Planning.
2			b. Preliminary and commercial operation dates as provided by SCS.
3			c. Unit retirement dates as provided by the operating companies.
4	2. Load and KWH Energy Estimates	Park	a. Based on assumptions outlined in Section I.A. of this schedule and as described in direct testimony.
5		Burroughs	b. Sales to nonassociated companies as estimated by SCS.
6	3. Maintenance Schedules	Burroughs	Official maintenance schedules as provided to SCS by the operating
7			companies as shown in Section II.D. of this schedule.
8	4. Heat Rates	Burroughs	Heat rates provided by SCS.
9	5. Coal	Burroughs	a. Beginning Inventory Values as provided by the operating companies.
10			b. Desired plant inventory values as recommended by SCS Fuel Services and approved
11			by the operating companies.
12			c. Coal quality as provided by SCS Fuel Services.
13			d. Beginning prices (See MFR B-18)
14			(1) F.O.B. mine or loaded cost as recommended by SCS Fuel Services and
15			approved by the operating company involved. The actual billing cost
16			and recommended accruals per SCS Contract Administration records
17			for non cost-based contracts and committed spot. These values were
18			adjusted for typical Btu variance from contract values and appropriate
19			state use taxes were added, if applicable.
20			(2) Coal transportation cost on contract and spot as recommended by SCS
21			Fuel Services and approved by the operating company involved.
22			e. Price escalation rates.
23			(1) The escalation rates for contract, uncommitted spot, unknown contract
24			coal, and coal transportation and the timing thereof are reflected as
25			agreed to by the System Planning Coordination Team. These rates
26			include a background inflation forecast as well as a market forecast.

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Witness: See Below

II. OPERATING ASSUMPTIONS
F. OTHER FUEL BUDGET ASSUMPTIONS FOR PROJECTED TEST YEAR

(1) Line No.	(2) Item	(3) Witness	(4) Assumption
1	6. Oil	Burroughs	a. Beginning inventory values as provided by Gulf Power Company (GPC).
2			b. Desired plant inventory levels for boiler lighter oil as provided by GPC.
3			c. Desired plant inventory levels of fuel oil for generation as established in the System Gas and Oil Policy.
4			d. Boiler lighter oil burn: Quantity projected to be burned as recommended by SCS and approved
5			by GPC.
6			e. Oil quality--Btu/gallon and % sulfur content as recommended by SCS and
7			approved by GPC.
8			f. Beginning prices. (See MFR B-18): Delivered prices in cents/MMBtu as recommended by
9			SCS and approved by the company involved.
10			g. Price escalation rates - The escalation rates for oil and the timing thereof are as
11			agreed to by the System Planning Coordination Team. These rates include a background
12			inflation forecast as well as a market forecast.
13	7. Natural Gas	Burroughs	a. Beginning gas storage (inventory) values as provided by GPC.
14			b. Desired gas storage levels as established in the System Gas and Oil Policy.
15			c. Natural gas availability - It is assumed that all natural gas required can be
16			obtained for the budget/forecast period.
17			d. Boiler lighter gas burn - Quantity projected to be burned as recommended by SCS and
18			approved by GPC.
19			e. CC & CT gas burn - For all dual fired units, only natural gas is shown to be burned
20			in the budget/forecast.
21			f. Natural gas quality - Btu/mcf as recommended by SCS and approved by GPC
22			g. Beginning prices: Delivered prices as recommended by SCS and approved by GPC.
23			h. Price escalation rates - The escalation rates for gas and the timing thereof are as
24			agreed to by the System Planning Coordination Team. These rates include a background
25			inflation forecast as well as a market forecast.

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Witness: See Blelow

III. CAPITAL ADDITIONS ASSUMPTIONS
A. CONSTRUCTION EXPENDITURES

(1) Line No.	(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1	Construction Expenditures		Mason	
2	1. Production Plant	$ 77,108	Burroughs	Proposed additions and retirements of production plant are based on such factors as service life, forced outage rates, performance, operating experience, environmental regulations, technological improvements, obsolescence, additional requirements, etc.
5	2. Transmission	$ 27,198	Smith	Transmission project plans are cyclical in nature and reflect the nature of planning and maintaining a reliable and operable system. The increase in capital projects in 2017 reflects that cycle and the current need to maintain the infrastructure to support current and future load conditions along with any planned generation changes.
10	3. Distribution	$ 69,301	Smith	Proposed additions include new business, distribution system improvements, and asset management. Continue to fund programs related to system reliability such as investments in Smart Grid technologies and storm hardening upgrades of critical facilities.
13	4. General Plant	$ 23,125	Ritenour Smith Terry	Projected based on the need to replace general plant items such as vehicles, test equipment, tools, office equipment, and communication equipment that are no longer serviceable, and to insure an adequate number of such items are available so that the appropriate personnel can fulfill their job requirements in an effective and efficient manner.
18	5. Total Construction Expenditures	$ 196,732		

19 Totals may not add due to rounding.

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Witness: See Below

III. CAPITAL ADDITIONS ASSUMPTIONS
. ELECTRIC PLANT-IN-SERVICE AND ACCUMULATED DEPRECIATIO

(1) Line No.	(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1	1. Gross Additions to Plant:		Mason	
2	Production	$ 57,260	Burroughs	The amounts are based on the 2016 Official Capital Additions Budget as approved by Gulf's management. Plant-In-Service amounts, in-service year, and plant classification were provided by the functional Planning Units.
3	Transmission	$ 20,780	Smith	
4	Distribution	$ 68,721	Smith	
5	General Plant	$ 34,895	Mason/Smith	
6	Total Gross Additions to Plant	$ 181,655		
7	2. Retirements	$ 20,859	Mason	The amount was based on the 2016 Official Capital Additions Budget as approved by Gulf's management. Amounts, dates and function were provided by the functional Planning Units.
8				
9				
10	3. Net Salvage	$ 7,527	Mason	The amount was based on the 2016 Official Capital Additions Budget as approved by Gulf's management. Amounts, dates and function were provided by the functional Planning Units.
11				
12				
13	4. Depreciation and Amortization Rates	Various	Mason	With the exception of the AMI meter depreciation life of 15 years and non-AMI meter amortization of 8 years, as ordered in Docket No. 110138-EI, and the Perdido Landfill Facility depreciation rate of 5.0% approved by the Commission in Order No. PSC-10-0674-PAA-EI, issued on November 9, 2010 in Docket No. 100368-EI, depreciation and dismantlement expense is based on rates effective January 1, 2010, which were approved by the FPSC through Docket 090319-EI, FPSC Order No. PSC-10-0458-PAA-EI dated July 19, 2010.
14			Hodnett	
15	5. Provision for Depreciation and	$ 179,521	Mason	The amount was projected by applying the FPSC approved rates and amortization amounts to the average monthly balance of depreciable plant by function. This amount is calculated by the Financial Model.
16	Amortization Expenses		Hodnett	
17				

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Witness: See Below

IV. BALANCE SHEET ASSUMPTIONS
A. 13-MONTH AVERAGE ASSETS

(1) Line No.		(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1		Utility Plant			
2	1.	Electric Plant-in-Service	$ 5,265,235	Mason	The projected balances were derived by adding to the balance at December 31, 2015 the projected additions and deducting the projected retirements as described in Section III.B. of this schedule.
5	2.	Electric Plant for Future Use	$ 14,757	Mason	The projected balances were derived by adding to the balance at December 31, 2015 the projected additions.
7	3.	Construction Work in Progress	$ 70,587	Mason	The projected balances were calculated by adding to the balance at December 31, 2015 the 2016 budgeted construction expenditures through December 2017 and deducting the projected closings to Plant-In-Service as described in Section III.B. of this schedule.
10	4.	Plant Acquisition Adjustment	$ 1,137	Mason	The projected balances were calculated by reducing each month's balance by the amount of amortization related to the Plant Acquisition Adjustment. Amortization is $21,276 per month.
13	5.	Accumulated Provision for Depreciation and Amortization	($1,695,765)	Mason	The projected balances were calculated by adding to the balance at December 31, 2015, the projected provision for depreciation and net salvage values and deducting the projected retirements budgeted. The provision for depreciation was calculated using the methodology described in Section III.B. of this schedule. Retirements and Net Salvage were based on the 2016 Construction Budget.
18	6.	Net Utility Plant	$ 3,655,951		
19	7.	Other Special Funds	$ 124,815	Mason Hodnett	The projected balance includes the funded portion of the property insurance reserve, plus interest accrued. The annual funding of the reserve occurs each January. The required funded balance is calculated by applying the effective after tax rate of 61.425% to the projected year-end balance of the property insurance reserve account each December. An additional amount necessary to achieve this balance is funded in January. The balance also includes the projected balance of the prepaid pension. The projected pension balance was derived by adding the projected annual accrual to the balance at December 31, 2015.
25	8.	Non-Utility Property	$ 12,374	Mason	The projected balance was based on the actual balance at December 31, 2015 with adjustments made for additions through December 31, 2017.

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IV. BALANCE SHEET ASSUMPTIONS
A. 13-MONTH AVERAGE ASSETS

(1) Line No.	(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1	Utility Plant cont.			
2 3	9. Other Property and Investments-Other	$ 2,593	Mason	The projected balance was based on the actual balance at December 31, 2015 adjusted for projections for the Deferred Compensation Trust.
4	10. Total Other Property and Investments	$ 139,782		
5	Current Assets			
6 7	11. Cash	$ 6,367	Mason	The projected balance is maintained as a static balance by the Financial Model as an estimate that approximates operating cash requirements.
8 9	12. Special Deposits	$ 20	Mason	The projected balance was based on the actual balance at December 31, 2015. No changes were projected for the test year.
10 11	13. Working Funds	$ 372	Mason	The projected balance was based on the actual balance at December 31, 2015. No changes were projected for the test year.
12 13 14	14. Temporary Cash Investments	$ 0	Mason	The projected balance is calculated by the Financial Model based on the projected sources and uses of funds. No balances are projected for the test year.
15 16 17	15. Customer Accounts Receivable	$ 82,339	Mason	The projected balance was derived based on the December 31, 2015 actual balance, with changes forecasted based on a percentage of billed revenues during the period.
18 19	16. Accrued Unbilled Revenue	$ 55,137	Mason	The projected balance was derived based on the December 31, 2015 actual balance adjusted for monthly net increase or decrease in unbilled revenue.
20 21	17. Other Accounts and Notes Receivable	$ 9,609	Mason	The projected balance was derived based on December 31, 2015 actual balance adjusted for the monthly increase or decrease in receivables.

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22 Totals may not add due to rounding.

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Witness: See Below

IV. BALANCE SHEET ASSUMPTIONS
A. 13-MONTH AVERAGE ASSETS

(1) Line No.	(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1 2	18. Accumulated Provisions for Uncollectible Accounts	$ (1,422)	Mason	The projected balance was calculated by applying a historical ratio for uncollectibles to the monthly customer accounts receivable balance.
3 4 5	19. Receivables from Associated Companies	$ 11,610	Mason	The projected balance includes the Interchange transactions when Gulf is a net seller to the Southern Company pool, and an estimate of other miscellaneous receivables from associated companies.
6 7 8	20. Interest and Dividends Receivable	$ 50	Mason	Interest and Dividends Receivable is forecasted based on the projected temporary cash investment rate, based upon a market forecast by Moody's Analytics, multiplied by the funded portion of the forecasted property insurance reserve balance.
9 10	21. Fuel Stock	$ 48,144	Mason Burroughs	
11 12 13 14 15 16 17 18 19 20 21 22	22. In-Transit Coal	$ 21,068	Mason Burroughs	The monthly projected tons of in transit coal inventory for Plant Crist is comprised of projected train shipments in route (not received at the transloading/blending facilities), operational coal inventory located at the transloading/blending facilities, loaded barges in route to the plants, and loaded barges waiting to be unloaded by the plants. The value of this in transit inventory is calculated by multiplying the projected tons in transit by the weighted average price of coal F.O.B. the barge for all coal shipments projected to occur during the year. The monthly projected tons of in transit coal inventory for Plants Daniel and Scherer is comprised of the prior 12 month actual average quantity (tons) of train shipments in route, not received at plant. The value of this in transit inventory for each plant is calculated by multiplying the projected tons in transit by the weighted average delivered price of coal for all coal shipments projected to occur to the respective plant during the year.
23 24 25 26	23. Plant Materials and Supplies	$ 63,799	Mason	The projected materials and supplies balance was derived based on historical and projected balances developed by the Procurement and Purchasing Department and the Power Delivery Department. The allowance inventory balances are based on generation.
27 28	24. Prepayments	$ 6,699	Mason	The projected balance was based on estimated insurance premiums and related amortization, long term service agreement, and other miscellaneous prepayments.

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IV. BALANCE SHEET ASSUMPTIONS
A. 13-MONTH AVERAGE ASSETS

(1) Line No.		(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1	25.	Miscellaneous Current & Accrued	$ 67	Mason	The projected balance was based on the actual balance at December 31, 2015. No changes were projected for the test year.
3	26.	Total Current Assets	$ 303,859		
4		Deferred Debits			
5	27.	Unamortized Debt Expense	$ 7,958	Mason	The projected balance was derived based on the actual balance at December 31, 2015 reduced by monthly net amortization based on the embedded expenses.
7	28.	Accumulated Deferred Income Taxes	$ 122,450	Mason Hodnett	The projected balance was derived based on the actual balance at December 31, 2015 adjusted for the projected provisions and pay backs related to the property damage reserve, injuries and damages reserve, bad debt reserve, emission allowances, deferred revenues, and certain employee benefits.
11	29.	Regulatory Tax Asset	$ 54,789	Mason Hodnett	This amount is based on the actual balance at December 31, 2015 adjusted for estimated changes. This account appears on the balance sheet in compliance with ASC 740.
14	30.	Unamortized Loss on Reacquired Debt	$ 13,548	Mason	The projected balance was derived based on the actual balance at December 31, 2015 reduced by monthly amortization.
16	31.	Other Deferred Debits	$ 551,887	Mason	The projected balance was based on the actual balance at December 31, 2015 adjusted for the projected changes. This account includes preliminary survey investigation charges and miscellaneous other deferred debit items.
19	32.	Total Deferred Debits	$ 750,632		
20	33.	Total Assets	$ 4,850,224		

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IV. BALANCE SHEET ASSUMPTIONS
B. 13-MONTH AVERAGE CAPITALIZATION AND LIABILITIES

(1) Line No.	(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1	Capitalization			
2	1. Common Stock	$ 503,060	Mason	The projected balance was based on the December 31, 2015 actual balance.
3	2. Other Paid-In Capital	$ 588,572	Mason	The projected balance was derived based on the actual balance at December 31, 2015 adjusted for the projected capital contribution from, or equity issuances to, Southern Company.
6	3. Premium on Preference Stock	$ 0	Mason	The projected balance was based on the December 31, 2015 actual balance. No changes were projected for the test year.
8	4. Retained Earnings	$ 242,115	Mason	The projected balance was derived based on the December 31, 2015 actual balance increase by the projected net income before preference less common and preference stock dividends declared.
11	5. Preference Stock	$ 146,504	Mason	The projected balance was derived based on the actual balance at December 31, 2015 adjusted for any projected retirements or issues of preference stock as outlined in Section I.C. of this schedule. There are no new issues of Preference Stock projected for the test year.
15	6. First Mortgage Bonds	$ 0	Mason	There is no projected balance for this item in the test year.
16	7. Pollution Control Liability	$ 308,955	Mason	The projected balance was derived based on the actual balance at December 31, 2015 adjusted for scheduled retirements as described in Section I.C. of this schedule. There are no new Pollution Control Liability Issues projected for the test year.
19	8. Other Long Term Debt	$1,004,231	Mason	The projected balance was derived based on the actual balance at December 31, 2015 adjusted for projected issues and retirements as described in Section I. C. of this schedule.
21	9. Unamortized Debt Discount and Premium	$ (7,790)	Mason	The projected balance was derived based on the December 31, 2015 actual balance reduced by the monthly net amortization of discounts and premiums.
23	10. Total Capitalization	$2,785,647		

24 Totals may not add due to rounding.

Supporting Schedules: B-3, B-7, B-9

Recap Schedules: B-1, C-1

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IV. BALANCE SHEET ASSUMPTIONS
B. 13-MONTH AVERAGE CAPITALIZATION AND LIABILITIES

(1) Line No.	(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1	Current Liabilities			
2	11. Notes Payable	$ 44,139	Mason	The projected balance was calculated by the Financial Model based on the projected sources and uses of funds.
4	12. Construction Related Accounts Payable	$ 4,016	Mason	The projected balance was derived by applying a historical five year average ratio to monthly construction expenditures (less Plant Scherer expenditures). This account includes accounts payable - construction and contract retentions.
8	13. Other Accounts Payable	$ 58,850	Mason	The projected balance was derived using historical accounts payable ratios to fuel and other operations and maintenance expense applied to projected expenses for those accounts. Also included in this account is the monthly unaudited accounts payable invoices dealing with plant accounts.
13	14. Payables to Associated Companies	$ 32,528	Mason	The projected balance was derived by applying historical accounts payable ratios to fuel and other operations and maintenance expenses associated with co-owned plants plus monthly interchange transactions when Gulf is a net purchaser from the Southern Company pool.
17	15. Customer Deposits	$ 36,595	Mason Hodnett	The projected balance was derived by calculating a customer change rate based upon projected customer counts and applying that rate to the prior balance in Customer Deposits to derive a monthly change in balance.

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IV. BALANCE SHEET ASSUMPTIONS
B. 13-MONTH AVERAGE CAPITALIZATION AND LIABILITIES

(1) Line No.	(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1	16. Taxes Accrued	$ 38,526	Mason Hodnett	The projected balance was derived based on the December 31, 2015 actual balance plus projected monthly accruals from the income statement reduced by the estimated tax payments.
4	17. Interest Accrued	$ 25,118	Mason	The projected balance was calculated based on the interest rate and payment dates of embedded debt issues as of December 31, 2015 plus any issues or retirements. This account also includes amounts related to the interest on customer deposits.
8	18. Miscellaneous Accounts Payable	$ 0	Mason	There is no projected balance for this item in the test year.
10	19. Tax Collections Payable	$ 799	Mason	The projected balance was based on the historical relationship of taxes to their applicable base and a historical average for payroll taxes.
12	20. Accrued Vacations	$ 10,586	Mason	The projected balance was based on an analysis by the payroll department taking into account the number of employees, years of service and hourly rates.
15	21. Other Current Liabilities	$ 134,897	Mason	The projected balance was based on a 12-month historical average and adjusted for projected changes, combined with the projected dividends declared.
17	22. Total Current Liabilities	$ 386,054		

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IV. BALANCE SHEET ASSUMPTIONS
B. 13-MONTH AVERAGE CAPITALIZATION AND LIABILITIES

(1) Line No.	(2) Item	(3) Amount (000s)	(4) Witness	(5) Assumption
1	Deferred Credits			
2	24. Unamortized Investment Tax Credits	$ 1,373	Mason Hodnett	The projected balance was derived using the actual balance at December 31, 2015 reduced by the amortization of ITC based on the useful life of the asset giving rise to the tax credit.
5	25. Other Deferred Credits	$ 234,635	Mason	The projected balance was derived based on the actual balance at December 31, 2015 and the estimated monthly changes. This account includes deferred revenue on pole attachment rentals and miscellaneous other deferred credit items.
9	26. Total Deferred Credits	$ 236,008		
10	27. Operating Reserves	$ 385,587	Mason	The projected balance was based on an estimate of the amounts needed to cover future contingencies.
12	28. Other Deferred Income Taxes	$ 1,054,647	Mason Hodnett	The projected balance was derived based on the actual balance at December 31, 2015 adjusted for the projected provisions and paybacks related to loss on reacquired debt, certain employee benefits and the property related depreciation timing differences.
16	29. Regulatory Tax Liability	$ 2,281	Mason Hodnett	This amount is based on the actual balance at December 31, 2015 adjusted for estimated changes. This account appears on the balance sheet in compliance with ASC 740.
19	30. Total Other Deferred	$ 1,056,928		
20	31. Total Capitalization and Liabilities	$ 4,850,224		

21 Totals may not add due to rounding.

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FLORIDA PUBLIC SERVICE COMMISSION

COMPANY: GULF POWER COMPANY

DOCKET NO.: 160186-EI

EXPLANATION: Supply a proposed public notice of the company's request for a rate increase suitable for publication.

Type of Data Shown:
_X__Projected Test Year Ended 12/31/17
____Prior Year Ended 12/31/16
____Historical Year Ended 12/31/15
Witness: X. Liu

Line No.

Citing the need to continue investing in the long-term reliability of Northwest Florida's energy infrastructure, on October 12, Gulf Power asked the Florida Public Service Commission to conduct a public review process of our rates and request for an increase in price that would take effect in the summer of 2017.

Securing your energy future requires a balanced energy mix that includes renewable energy and 24/7 sources like natural gas and low-cost coal that's cleaner than ever. Energy security also includes reliability — since 2010, Gulf Power has improved its reliability by 40 percent, a trend of improvement that means customers like you are having fewer and less frequent power outages. Continuous improvement in this area is critical.

Gulf Power's current total residential price (base rate plus clause rates) is lower than it was in 2015, and we expect it to be even lower in January 2017 mainly because of decreased fuel prices. Taking this into account, if this new base rate request is approved by the Florida Public Service Public Service Commission, the average residential customer's total monthly bill will increase by $10.22 per month or 6.9 percent — from $148.64 to $158.86.

Current base rates will remain in effect until new rates become effective under Florida law. Copies of the rate review filing, including proposed rate schedules, are available for review at your local Gulf Power office. Company personnel are available at all Gulf Power offices to answer questions concerning this request. They may be contacted at the address or telephone number shown on your electricity bill or GulfPower.com.

This rate review filing can be found on the Florida Public Service Commission website under Docket number 160186-EI (www.psc.state.fl.us). Comments regarding service may be made to the Florida Public Service Commission's Consumer Assistance & Outreach Department at 1-800-342-3552. Comments regarding the proposed changes in rates and charges should be addressed to the Office of Commission Clerk, Florida Public Service Commission, 2540 Shumard Oak Boulevard, Tallahassee, FL 32399-0850 and should include the docket number.

The PSC will accept faxes and emails.
Fax number: 1-800-511-0809
Email address: contact@psc.state.fl.us

The Office of Public Counsel (OPC) has intervened in this docket. The duty of the OPC is to provide legal representation for the people of the state in proceedings before the Commission. OPC representatives may be contacted prior to the hearing at 111 West Madison Street Room 812 Tallahassee FL 32399-1400, or by phone at 1-800-342-0222.