Gulf Power

September 3, 2019

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

RE: Docket No. 20190001-EI

Dear Mr. Teitzman:

Attached for official filing in the above-referenced docket are the following:

1. The Petition of Gulf Power Company.

2. Prepared direct testimony and exhibits of C. Shane Boyett.

3. Prepared direct testimony and exhibit of C. L. Nicholson.

Pursuant to the Order Establishing Procedure in this docket, electronic copies of Exhibits CSB-5 through CSB-7 and CLN-2 will be provided to the parties under separate cover.

Sincerely,

C. Shane Boyett

C. Shane Boyett
Regulatory, Forecasting and Pricing Manager

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Attachments

cc: Florida Public Service Commission
Suzanne Brownless, Sr. Attorney, Office of the General Counsel (6 copies)
Gulf Power Company
Russell Badders, Esq., VP & Associate General Counsel
Beggs & Lane

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

IN RE: Fuel and Purchased Power Cost Recovery Clauses and Generating Performance Incentive Factor.	))))	Docket No.: Filed:	20190001-EI September 3, 2019

PETITION OF GULF POWER COMPANY FOR APPROVAL OF FINAL FUEL COST TRUE-UP AMOUNTS FOR JANUARY 2018 THROUGH DECEMBER 2018; FINAL GPIF ADJUSTMENT FOR JANUARY 2018 THROUGH DECEMBER 2018; ESTIMATED FUEL COST TRUE-UP AMOUNTS FOR JANUARY 2019 THROUGH DECEMBER 2019; PROJECTED FUEL COST RECOVERY AMOUNTS FOR JANUARY 2020 THROUGH DECEMBER 2020; FINAL PURCHASED POWER CAPACITY COST TRUE-UP AMOUNTS FOR JANUARY 2018 THROUGH DECEMBER 2018; ESTIMATED PURCHASED POWER CAPACITY COST TRUE-UP AMOUNTS FOR JANUARY 2019 THROUGH DECEMBER 2019; PROJECTED PURCHASED POWER CAPACITY COST RECOVERY AMOUNTS FOR JANUARY 2020 THROUGH DECEMBER 2020; ESTIMATED AS-AVAILABLE AVOIDED ENERGY COSTS; GPIF TARGETS AND RANGES FOR JANUARY 2020 THROUGH DECEMBER 2020; FINANCIAL HEDGING ACTIVITIES AND SETTLEMENTS FOR AUGUST 2018 THROUGH JULY 2019; FUEL COST RECOVERY FACTORS TO BE APPLIED BEGINNING WITH THE PERIOD JANUARY 2020 THROUGH DECEMBER 2020; AND CAPACITY COST RECOVERY FACTORS TO BE APPLIED BEGINNING WITH THE PERIOD JANUARY 2020 THROUGH DECEMBER 2020

Notices and communications with respect to this petition and docket should be addressed to:

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GULF POWER COMPANY ("Gulf Power", "Gulf", or "the Company"), by and through its undersigned counsel, hereby petitions this Commission for approval of the Company's (a) final fuel adjustment true-up amounts for the period January 2018 through December 2018; (b) final GPIF adjustment for the period January 2018 through December 2018; (c) estimated fuel cost true-up amounts for the period January 2019 through December 2019; (d) projected fuel cost recovery amounts for the period January 2020 through December 2020; (e) final purchased power capacity cost true-up amounts for the period January 2018 through December 2018; (f) estimated purchased power capacity cost true-up amounts for the period January 2019 through December 2019; (g) projected purchased power capacity cost recovery amounts for the period January 2020 through December 2020; (h) estimated as-available avoided energy costs for qualifying facilities (QF's); (i) GPIF targets and ranges for January 2020 through December 2020; (j) financial hedging activities and settlements for August 2018 through July 2019; (k) fuel cost recovery factors to be applied beginning with the period January 2020 through December

2020; and (l) capacity cost recovery factors to be applied beginning with the period January 2020 through December 2020.

As grounds for the relief requested by this petition, the Company would respectfully show:

FINAL FUEL ADJUSTMENT TRUE-UP

(1) By vote of the Commission at the November 2018 hearings, estimated fuel true-up amounts were approved by the Commission, subject to establishing the final fuel true-up amounts. According to the data filed by Gulf for the period ending December 31, 2018, the actual fuel true-up amount for the subject twelve months should be an over recovery of $17,707,628 instead of the estimated over recovery of $13,195,558 as approved previously by this Commission. The difference between these two amounts of $4,512,071, is submitted for approval by the Commission to be applied in the next period. The supporting data has been prepared in accordance with the uniform system of accounts as applicable to the Company's fuel cost procedures, and it fairly presents the Company's fuel and purchased energy expenses for the period. Amounts spent by the Company for fuel and purchased energy are reasonable and prudent, and the Company makes every effort to secure the most favorable price for all of the fuel it purchases and for its energy purchases.

GPIF ADJUSTMENT

(2) On March 15, 2019, Gulf filed the testimony and exhibit of C. L. Nicholson containing the Company's actual operating results for the period January 2018 through December 2018. Based on the actual operating results for the period January 2018 through December 2018, Gulf should receive a reward in the amount of $10,384. The methodology used by Gulf in determining the various factors required to compute the GPIF is in accordance with the requirements of the Commission.

ESTIMATED FUEL COST TRUE-UP

(3) Gulf has calculated its estimated fuel cost true-up amount for the period January 2019 through December 2019. Based on six months actual experience and six months projected data, the Company's estimated fuel cost true-up amount for the current period (January 2019 through December 2019) is an under recovery of $5,178,904. The supporting data is provided in the testimony and schedules of C. S. Boyett filed herewith. The estimated fuel cost true-up for the current period is combined with the net final fuel adjustment true-up for the period ending December 2017 to reach the total fuel cost true-up to be addressed in the factors for the next fuel cost recovery period. The proposed fuel cost recovery factors reflect the collection of this total true-up amount, $666,833, during the period of January 2020 through December 2020.

PROJECTED FUEL COST RECOVERY AMOUNTS

(4) Gulf has calculated its projected fuel cost recovery amounts for the months January 2019 through December 2019 for fuel and purchased energy in accordance with the procedures set out in this Commission's Orders Nos. 6357, 7890, 7501, and 9273 of Docket No.

74680-EI and with the orders entered in this ongoing cost recovery docket. The computations thereof are attached as Schedule E-1 of the exhibit to the testimony of C. S. Boyett filed herewith. The supporting data prepared in accordance with the Commission Staff's suggested procedures and format is attached as Schedules E-1 through E-11, and H-1 of the exhibit to the testimony of Mr. Boyett filed herewith. Said schedules are by reference made a part hereof. The proposed amounts and supporting data have been prepared in accordance with the uniform system of accounts as applicable to the Company's fuel cost projection procedures and fairly present the Company's best estimate of fuel and purchased energy expense for the projected period. Amounts projected by the Company for fuel and purchased energy are reasonable and prudent, and the Company continues to make every effort to secure the most favorable price for all of the fuel it purchases and for its purchased energy.

FINAL PURCHASED POWER CAPACITY COST TRUE-UP

(5) By vote of the Commission at the November 2018 hearings, estimated purchased power capacity cost true-up amounts were approved by the Commission, subject to establishing the final purchased power capacity cost true-up amounts. According to the data filed by Gulf for the twelve-month period ending December 2018, the final purchased power capacity cost true-up amount for the subject twelve months should be an actual over recovery of $1,572,391, instead of the estimated over recovery of $1,187,593 as approved previously by this Commission. The difference between these two amounts of $384,798 is submitted for approval by the Commission to be applied in the next period. The supporting data has been prepared in accordance with the uniform system of accounts and fairly presents the Company's purchased power capacity expenses for the period. Amounts spent by the Company for purchased power capacity are

reasonable and prudent, and in the best long-term interests of Gulf's general body of customers.

ESTIMATED PURCHASED POWER CAPACITY COST TRUE-UP

(6) Gulf has calculated its estimated purchased power capacity cost true-up amount for the period January 2019 through December 2019. Based on six months actual and six months projected data, the Company's estimated capacity cost true-up amount for the current period is an under recovery of $622,746. The net estimated capacity cost true-up for the current period is combined with the net final capacity cost true-up for the period ending December 2018 to reach the total capacity cost true-up to be addressed in the factors for the next cost recovery period. The proposed capacity cost recovery factors reflect the collection of this total capacity cost true-up amount of $237,948 during the period of January 2020 through December 2020.

PROJECTED PURCHASED POWER CAPACITY COST RECOVERY AMOUNTS

(7) Gulf has calculated its projected purchased power capacity cost recovery amounts for the months January 2020 through December 2020 in accordance with the procedures set out in Order No. 25773, Order No. PSC-93-0047-FOF-EI and Order No. PSC-99-2512-FOF-EI. The proposed factors reflect the recovery of the net capacity cost recovery amount of $83,785,002 projected for the period January 2020 through December 2020.

The computations and supporting data for the Company's purchased power capacity cost recovery factors are set forth in the testimony and on Schedules CCE-1 (including CCE-1A and CCE-1B), CCE-2 and CCE-4 attached as part of the exhibit to the testimony of C. S. Boyett filed herewith. The methodology used by Gulf in determining the amounts to include in these factors and the allocation to rate classes, based 12/13th on demand and 1/13th on energy, is in accordance with

the requirements of the Commission as set forth in Order No. 25773. The amounts included in the factors for this projection period are based on reasonable projections of the capacity transactions that are expected to occur during the period January 2020 through December 2020. The proposed factors and supporting data have been prepared in accordance with the uniform system of accounts and fairly present the Company's best estimate of purchased power capacity costs for the projected period. Amounts projected by the Company for purchased power capacity are reasonable and prudent, and in the best long-term interests of Gulf's general body of customers.

ESTIMATED AS-AVAILABLE AVOIDED ENERGY COSTS

(8) Pursuant to Order 13247 (entered May 1, 1984) in Docket No. 830377-EI and Order No. 19548 (entered June 21, 1988) in Docket No. 880001-EI, Gulf has calculated estimates of as-available avoided energy costs for QF's in accordance with the procedures required in said orders. The resultant costs are attached to the testimony of C. S. Boyett as Schedule E-11 and by reference made a part hereof. Gulf Power requests that the Commission approve the estimates for these costs set forth on Schedule E-11.

GPIF TARGETS AND RANGES

(9) Gulf also seeks approval of the GPIF targets and ranges for the period January 2020 through December 2020. The computations and supporting data for the Company's GPIF targets and ranges are provided in the testimony and exhibit of C. L. Nicholson filed herewith. The GPIF targets for the period January 2020 through December 2020 are:

Unit	EAF	Heat Rate
Crist 7	78.4	10,584
Daniel 1	70.9	11,404
Daniel 2	84.7	11,057
Scherer 3	96.8	10,616
Smith 3	89.9	6,900
EAF = Equivalent Availability Factor (%)		

HEDGING ACTIVITIES AND SETTLEMENTS

(10) As demonstrated in Schedule 3 filed as part of Exhibit CSB-1 to the testimony of C. Shane Boyett on March 1, 2019, the Hedging Information Report filed on April 3, 2019, and the Hedging Information Report filed on August 9, 2019, Gulf experienced a net loss of $6,679,150 associated with its natural gas hedging transactions effected between August 1, 2018 and July 31, 2019 Pursuant to Order No. PSC-08-0316-PAA-EI, Gulf Power requests that the Commission find that its hedging transactions for the period August 1, 2018 through July 31, 2019 are prudent.

FUEL COST RECOVERY FACTORS

(11) The proposed levelized fuel and purchased energy cost recovery factor, including GPIF and True-Up, herein requested is 3.244 ¢/kWh. The proposed factors by rate schedule are:

Group	Standard Rate Schedules*	Line Loss Multipliers	Fuel Cost Factors ¢/kWh
A	RS, RSVP, RSTOU, GS, GSD, GSTOU, OSIII	1.00555	3.262
B	LP, LPT	0.99188	3.218
C	PX, PXT, RTP	0.97668	3.168
D	OSI/II	1.00560	3.236

Group	Time-of-Use Rate Schedules*	Line Loss Multipliers	Fuel Cost Factors	
			On-Peak ¢/kWh	Off-Peak ¢/kWh
A	GSDT, SBS	1.00555	3.762	3.059
B	LPT, SBS	0.99188	3.711	3.017
C	PXT, SBS	0.97668	3.654	2.971

*The recovery factor applicable to customers taking service under Rate Schedule SBS is determined as follows: customers with a Contract Demand in the range of 100 to 499 kW will use the recovery factor applicable to Rate Schedule GSD; customers with a Contract Demand in the range of 500 to 7,499 kW will use the recovery factor applicable to Rate Schedule LP; and customers with a Contract Demand over 7,499 kW will use the recovery factor applicable to Rate Schedule PX.

CAPACITY COST RECOVERY FACTORS

(12) The proposed purchased power capacity cost recovery factors by rate class herein requested, including true-up, are:

RATE CLASS	CAPACITY COST RECOVERY FACTORS ¢/kWh
RS, RSVP, RSTOU	0.878
GS	0.893
GSD, GSDT, GSTOU	0.703
LP, LPT	2.92 ($/kW)
PX, PXT, RTP, SBS	0.598
OS-I/II	0.121
OSIII	0.543

WHEREFORE, Gulf Power Company respectfully requests the Commission to approve the final fuel adjustment true-up for the period January 2018 through December 2018; the GPIF adjustment for the period January 2018 through December 2018; the estimated fuel cost true-up for the period January 2019 through December 2019; the projected fuel cost recovery amount for the period January 2020 through December 2020; the final purchased power capacity cost true-up amount for the period January 2018 through December 2018; the estimated purchased power capacity cost recovery true-up amount for the period January 2019 through December 2019; the projected purchased power capacity cost recovery amount for the period January 2020 through December 2020; the estimated as-available avoided energy costs for QF's; the GPIF targets and ranges for the period January 2020 through December 2020; the financial hedging activities and settlements for the period August 2018 through July 2019; the fuel cost recovery factors to be applied beginning with the period January 2020 through December 2020; and the capacity cost recovery factors to be applied beginning with the period January 2020 through December 2020.

Dated the 3rd day of September, 2019.

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BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

Docket No. 20190001-EI

Prepared Direct Testimony
and Exhibits of
C. Shane Boyett

Projection Filing for the Period
January 2020 – December 2020

Date of Filing: September 3, 2019

Gulf Power®

GULF POWER COMPANY

Before the Florida Public Service Commission
Prepared Direct Testimony of
C. Shane Boyett
Docket No. 20190001-EI
Date of Filing: September 3, 2019

Q. Please state your name, business address and occupation.

A. My name is Shane Boyett. My business address is One Energy Place, Pensacola, Florida 32520. I am the Regulatory, Forecasting and Pricing Manager for Gulf Power Company.

Q. Have you previously filed testimony before the Florida Public Service Commission (FPSC or Commission) in Docket No. 20190001-EI?

A. Yes, I have.

Q. What is the purpose of your testimony?

A. The purpose of my testimony is to discuss the projection of fuel expenses, net power transaction expense, and purchased power capacity costs for the period January 2020, through December 2020. I will also present the resulting calculation of Gulf Power's fuel cost recovery and purchased power capacity factors for the period January 2020 through December 2020.

Q. Have you prepared any exhibits that contain information to which you will refer in your testimony?

A. Yes. I have three separate exhibits I am sponsoring as part of this testimony as shown below.

Exhibit Number	Summary
CSB-5	23 schedules related to Fuel and Purchased Power Capacity Calculations
CSB-6	Gulf Power Company's Hedging Information Report filed with the Commission Clerk on April 3, 2019, and assigned Document Numbers DN 03491-2019 (redacted) and 03495-2019 (confidential information). This exhibit details Gulf Power's natural gas hedging transactions for August 2018 through December 2018 in compliance with Order No. PSC-08-0316-PAA-EI.
CSB-7	Gulf Power Company's Hedging Information Report filed with the Commission Clerk on August 9, 2019, and assigned Document Numbers DN 07298-2019 (redacted) and DN 07334-2019 (confidential information). This exhibit details Gulf Power's natural gas hedging transactions for January 2019 through July 2019 in compliance with Order No. PSC-08-0316-PAA-EI.

Counsel: We ask that Mr. Boyett's exhibits as described be marked for identification as Exhibit Nos. _____(CSB-5), _____(CSB-6), and _____(CSB-7).

Q. Have you verified that to the best of your knowledge and belief, the information contained in these documents is correct?

A. Yes, I have.

I. FUEL

Q. Please explain the calculation of the fuel and purchased power expense true-up amount included in the levelized fuel factor for the period January 2020 through December 2020.

A. As shown on Schedule E-1A of Exhibit CSB-5, the total true-up amount of $666,834 includes an estimated under-recovery for the January 2019 through December 2019 period of $5,178,904, in addition to a final over-recovery for the period January 2018 through December 2018 of $4,512,071. The estimated under-recovery for the January 2019 through December 2019 period includes six months of actual data and six months of estimated data as reflected on Schedule E-1B of Exhibit CSB-5.

Q. What has been included in this filing to reflect the GPIF reward/penalty for the period of January 2018 through December 2018?

A. The GPIF result shown on Line 26 of Schedule E-1 is an increase of 0.0001 cents per kWh to the levelized fuel factor, thereby rewarding Gulf $10,384.

Q. Has Gulf Power accounted for and returned all tax reform savings resulting from the Tax Cuts and Jobs Act of 2017 and related Stipulation and Settlement Agreements?

A. Yes. Each of the respective provisions of the Stipulation and Settlement Agreements approved by this Commission through issuance of Order Nos. PSC-2018-0180-FOF-EI and PSC-2018-0548-S-EI in Docket No. 20180039-EI were implemented through fuel cost recovery rates spanning the period April 2018 through December 2019. There are no additional tax savings to be included in prospective fuel cost recovery rates.

Q. What is the appropriate revenue tax factor to be applied in calculating the levelized fuel factor?

A. A revenue tax factor of 1.00072 has been applied to all jurisdictional fuel costs, as shown on Line 24 of Schedule E-1.

Q. What is the levelized projected fuel factor for the period January 2020 through December 2020?

A. Gulf has proposed a levelized fuel factor of 3.244 cents per kWh. This factor is based on projected fuel and purchased power energy expenses and projected kWh sales for January 2020 through December 2020 and includes the true-up and GPIF amounts identified above.

Q. Mr. Boyett, how were the line loss multipliers used on Schedule E-1E calculated?

A. The line loss multipliers were calculated in accordance with procedures approved in prior filings and were based on Gulf's latest MWh Load Flow Allocators.

Q. Mr. Boyett, what fuel factor does Gulf propose for its largest group of customers (Group A), those on Rate Schedules RS, GS, GSD, and OS-III?

A. Gulf proposes a standard fuel factor, adjusted for line losses, of 3.262 cents per kWh for Group A. Fuel factors for Groups A, B, C, and D are shown on Schedule E-1E. These factors have all been adjusted for line losses.

Q. Mr. Boyett, how were the time-of-use fuel factors calculated?

A. The time-of-use fuel factors were calculated based on projected loads and system lambdas for the period January 2020 through December 2020 and include the GPIF and true-up amount. These time-of-use fuel factors as shown on Schedule E-1E have all been adjusted for line losses.

Q. How does the proposed fuel factor for Rate Schedule RS compare with the factor applicable to December 2019, and how would the change affect the cost of 1,000 kWh on Gulf's residential rate RS?

A. The current fuel factor for Rate Schedule RS applicable through December 2019 is 3.047 cents per kWh compared with the proposed factor of 3.262 cents per kWh. For a residential customer who is billed for 1,000 kWh in January 2020, the fuel portion of the bill would increase from $30.47 to $32.62.

Q. Has Gulf updated its estimates of the as-available avoided energy costs to be shown on COG1 as required by Order No. 13247 issued May 1, 1984, in Docket No. 830377-EI and Order No. 19548 issued June 21, 1988, in Docket No. 880001-EI?

A. Yes. A tabulation of these costs is set forth in Schedule E-11 of my exhibit. These costs represent the estimated averages for the period from January 2020 through December 2020. In addition, pursuant to Commission Order No. PSC-16-0119-TRF-EG in Docket No. 150248-EG, Gulf has calculated the bill credit for participants of the Community Solar Pilot Program to be $1.68 per month based on the 2020 projected solar-weighted average annual avoided energy cost of 2.7 cents per kWh.

Q. What amount have you calculated to be the appropriate benchmark level for calendar year 2020 gains on non-separated wholesale energy sales eligible for a shareholder incentive?

A. In accordance with Order No. PSC-00-1744-PAA-EI, an estimated three-year average benchmark level has been calculated as follows:

2017 actual gains	1,988,936
2018 actual gains	589,410
2019 estimated gains	123,369
Three-Year Average	$900,572

This amount represents the minimum projected threshold for 2020 that must be achieved before shareholders may receive any incentive. As demonstrated on Schedule E-6, page 2 of 2, Gulf's projection reflects a credit to customers of 100% of the gains on non-separated sales for 2020.

Total Fuel and Net Power Transactions

Q. What is Gulf's projected recoverable total fuel and net power transactions cost for the January 2020 through December 2020 recovery period?

A. Gulf's projected total fuel and net power transactions cost for the period is $353,910,537 as shown on Schedule E-1 line 15 of Exhibit CSB-5.

Q. How does the total projected fuel and net power transactions cost for the 2020 period compare to the updated projection of fuel cost for the same period in 2019?

A. The total updated cost of fuel and net power transactions for 2019, reflected on Schedule E-1B-1 line 13 of Exhibit CSB-3 filed in this docket on July 26, 2019, is projected to be $376,284,806. The projected total cost of fuel and net power transactions for the 2020 period reflects a decrease of $22,374,269 or 5.95% lower than the same period in 2019. On a fuel cost per kWh basis, the 2019 projected cost is 3.1828 cents per kWh, and the 2020 projected fuel cost is 3.0700 cents per kWh, a decrease of 0.1128 cents per kWh or 3.54%.

Total Cost of Generated Power

Q. What is Gulf's projected recoverable total fuel cost of generated power for the period?

A. The projected total cost of fuel to meet system generated power needs in 2020 as shown in Exhibit CSB-5, Schedule E-1, line 4 is $266,767,756.

Q. How does the projected total fuel cost of generated power for the 2020 period compare to the updated projection of fuel cost for the same period in 2019?

A. The total updated cost of fuel to meet 2019 system generated power needs, reflected on Schedule E-1B-1, line 4 of CSB-3 filed in this docket on July 26, 2019, is projected to be $274,733,590. The projected total cost of fuel to meet system net generation needs for the 2020 period reflects a decrease of $7,965,834 or 2.90% less than the same period in 2019. Total system net generation in 2020 is projected to be 9,374,344 MWh, which is 455,635 MWh

or 5.11% higher than projected for 2019. The lower projected total fuel expense is primarily the result of lower estimated hedging settlement costs for the period as Gulf's hedge ratio approaches zero in the first quarter of 2020 and fuel savings related to the addition of Gulf's first utility-scale solar project going into service in January 2020. On a fuel cost per kWh basis, the 2019 projected cost is 3.0804 cents per kWh, and the 2020 projected fuel cost is 2.8457 cents per kWh, a decrease of 0.2347 cents per kWh or 7.62%.

Weighted average coal burned price including boiler lighter fuel for 2019 as reflected on Schedule E-3, line 32 of my Exhibit CSB-3 filed in this docket on July 26, 2019, is projected to be $3.03 per MMBtu. Weighted average coal burned price including boiler lighter fuel for 2020, as reflected on Schedule E-3, line 34 is projected to be $3.00 per MMBtu. These figures reflect a cost decrease of $0.03 per MMBtu or 0.99%. The weighted average natural gas price for 2019, as reflected on Schedule E-3, line 33 of the exhibit to my testimony filed in this docket on July 26, 2019, is projected to be $3.57 per MMBtu. The weighted average natural gas price for 2020, as reflected on Schedule E-3, line 35 is projected to be $3.39 per MMBtu. This is a decrease in price of $0.18 per MMBtu or 5.04%.

As reflected on Schedule E-3, lines 42 and 43, the projected fuel cost of Gulf's coal-fired generation is 3.28 cents per kWh, and the projected fuel cost of Gulf's gas-fired generation is 2.68 cents per kWh for the 2020 period.

Fuel Cost and Gains on Power Sales

Q. What are Gulf's projected recoverable fuel cost and gains on power sales for the 2020 period?

A. Gulf's projected recoverable fuel cost and gains on power sales is $129,226,624 as shown on Schedule E-1, line 13.

Q. How does the total projected recoverable fuel cost and gains on power sales for the 2020 period compare to the projected recoverable fuel cost and gains on power sales for the same period in 2019?

A. The total updated recoverable fuel cost and gains on power sales in 2019, reflected on Schedule E-1B-1, line 12 of my exhibit filed in this docket on July 26, 2019, is projected to be $101,489,520. The projected recoverable fuel cost and gains on power sales in 2020 represents an increase of $27,737,104 or 27.33%. Total quantity of power sales in 2020 is projected to be 5,407,380 MWh, which is 1,194,807 MWh or 28.36% higher than currently projected for 2019. On a fuel cost per kWh basis, the 2019 projected cost is 2.4092 cents per kWh, and the 2020 projected fuel cost is 2.3898 cents per kWh, which is a decrease of 0.0194 cents per kWh or 0.81%. The higher total credit to fuel expense from power sales is attributed to a higher projected quantity of power sales from units operating to meet incremental system loads.

Total Cost of Purchased Power

Q. What is Gulf's projected total cost of purchased power for the period?

A. Gulf's projected recoverable cost for energy purchases is $216,369,405 as shown on Schedule E-1, line 8.

Q. How does the total projected purchased power cost for the 2020 period compare to the projected purchased power cost for the same period in 2019?

A. The total updated cost of purchased power to meet 2019 system needs, reflected on Schedule E-1B-1, line 7 of my testimony filed in this docket on July 26, 2019, is projected to be $203,040,737. The projected cost of purchased power to meet system needs in 2020 is an increase of $13,328,668 or 6.56% higher than currently projected for 2019. The total quantity of purchased power in 2020 is projected to be 7,560,995 MWh, which is 444,685 MWh or 6.25% higher than is currently projected for 2019. On a fuel cost per kWh basis, the 2019 projected cost is 2.8532 cents per kWh, and the 2020 projected fuel cost is 2.8617 cents per kWh, which represents an increase of 0.0085 cents per kWh or 0.30%. The higher total cost of purchased power is attributed to a higher projected quantity of purchased power energy to meet system loads.

II. FUEL PROCUREMENT

Q. Does the 2020 projection of fuel cost of net generation reflect any major changes in Gulf's fuel procurement program for this period?

A. No. There have been no major changes in Gulf's fuel procurement program for the 2020 period. Gulf Power's coal requirements are purchased in the market through the Request for Proposal (RFP) process that has been used for many years. Natural gas requirements will be purchased from various suppliers using firm quantity agreements with market pricing for base needs

and on the daily spot market when necessary. Natural gas transportation will be secured using a combination of firm and spot transportation agreements.

Q. What actions does Gulf take to procure natural gas and natural gas transportation for its units at competitive prices for both long-term and short-term deliveries?

A. Gulf procures natural gas using both long and short-term agreements for gas supply at market-based prices. Gulf secures gas transportation for non-peaking units using long-term agreements for firm pipeline capacity and for peaking units using interruptible transportation, released seasonal firm transportation, or delivered natural gas agreements.

III. HEDGING

Q. Has anything changed with regard to the status of Gulf's hedging program since filing testimony on July 26, 2019, in this docket?

A. There has been no change in the status of Gulf's hedging program. However, actual hedging settlement data has become available for the month of July 2019 and is included in my Exhibit CSB-7 as previously filed with this Commission on August 9, 2019.

Q. What are the results of Gulf's natural gas price hedging program for the period August 2018 through July 2019?

A. Gulf had financial hedges in place during the period to hedge the price of natural gas. These financial hedges have been effective in fixing the price of a percentage of Gulf's gas burn during the period. Between August 2018 and July 2019, Gulf recorded hedging settlement costs of $6,679,150. Pursuant to Order No. PSC-08-0316-PAA-EI, Gulf filed Hedging Information Reports with the Commission on April 3, 2019, and August 9, 2019, detailing its natural gas hedging transactions for August 2018 through July 2019. I am sponsoring these reports as Exhibits CSB-6 and CSB-7 to my testimony in this docket.

IV. PURCHASED POWER CAPACITY

Q. You stated earlier that you are responsible for the calculation of the purchased power capacity cost (PPCC) recovery factors. Which of your exhibits relate to the calculation of these factors?

A. Schedule CCE-1, including CCE-1A and CCE-1B, Schedule CCE-2, and Schedule CCE-4 of my Exhibit CSB-5 relate to the calculation of the PPCC recovery factors for the period January 2020 through December 2020.

Q. Please describe Schedule CCE-1 of your exhibit.

A. Schedule CCE-1 shows the calculation of jurisdictional capacity costs to be recovered through the PPCC Recovery Clause. Lines 1 through 3 show Gulf's projected net capacity expense, which includes a credit for transmission revenue. The total net projected capacity costs are applied to a jurisdictional

factor and added to the total true-up which is then adjusted for revenue taxes to determine the amount to be recovered in the period through PPCC recovery factors.

Q. What jurisdictional factor was used to calculate projected recoverable capacity costs for the period January 2020 through December 2020?

A. The PPCC jurisdictional factors applied in the calculation of jurisdictional net purchased power capacity costs is 97.23427 percent, which is based upon Gulf Power's 2018 Cost of Service Load Research Study results filed with the Commission in accordance with Rule 25-6.0437, F.A.C. This approach is consistent with past jurisdictional allocations in the PPCC Recovery Clause. The existing wholesale generation services agreement between Gulf Power Company and Florida Public Utilities Company (FPU) will expire on December 31, 2019, however, on August 12, 2019, Gulf Power and FPU executed a new stratified wholesale agreement that will commence on January 1, 2020, if approved. In order to implement a stratified allocation of costs between the retail and wholesale jurisdiction consistent with the new contract structure, considerable work by Gulf Power to stratify costs and derive appropriate stratified jurisdictional factors must be completed. Gulf currently estimates this work will be completed before 2020 final true-up calculations are filed with the Commission. Subject to the foregoing determination of stratified jurisdictional factors, any eventual over or under recovery of costs due to changes in jurisdictional allocations will be handled through the normal true-up process.

Q. What is the appropriate revenue tax factor to be applied in calculating the total recoverable capacity payments?

A. A revenue tax factor of 1.00072 has been applied to all jurisdictional purchased power capacity costs, as shown on Line 10 of Schedule CCE-1.

Q. What methodology was used to allocate the capacity payments by rate class?

A. As required by Commission Order No. 25773 in Docket No. 910794-EQ, the revenue requirements have been allocated using the cost of service methodology approved by the Commission in Order No. PSC 17-0178-S-EI in consolidated Docket Nos. 160186-EI and 160170-EI. This allocation is consistent with the treatment accorded to production plant in the cost of service study approved by the Commission in Gulf's most recent base rate proceeding. For purposes of the PPCC Recovery Clause, Gulf has allocated the net purchased power capacity costs by rate class within the retail jurisdiction based on the 12-MCP and 1/13th energy allocator.

Q. How were the rate class allocation factors used in the PPCC Recovery Clause calculated?

A. The rate class demand allocation factors used in the PPCC Recovery Clause have been calculated using the 2018 Cost of Service Load Research Study results filed with the Commission in accordance with Rule 25-6.0437, F.A.C. and adjusted for losses. The rate class energy allocation factors were calculated based on projected kWh sales for the period and adjusted for losses.

The calculations of the allocation factors are shown in columns A through I on page 1 of Schedule CCE-2.

Q. Please describe the calculation of the PPCC recovery factors by rate class used to recover purchased power capacity costs.

A. As shown in columns A through D on page 2 of Schedule CCE-2, 12/13th of the jurisdictional capacity cost to be recovered is allocated by rate class based on the demand allocator. The remaining 1/13th is allocated based on energy.

Gulf has calculated the PPCC factor for the LP/LPT rate classes based on kilowatt (kW) rather than kilowatt hour (kWh) in accordance with Order No. PSC-13-0670-S-EI issued December 9, 2013, in Docket No. 130140-EI. The total revenue requirement assigned to rate class LP/LPT shown in column E is then divided by the sum of the projected billing demands (kW) for the twelve-month period to calculate the PPCC recovery factor. This factor would be applied to each LP/LPT customer's billing demand (kW) to calculate the amount to be billed each month.

For all other rate classes, the total revenue requirement assigned to each rate class shown in column E is then divided by that class's projected kWh sales for the twelve-month period to calculate the PPCC recovery factor. This factor would be applied to each customer's total kWh to calculate the amount to be billed each month.

Q. What is the amount related to purchased power capacity costs recovered through this factor that will be included on a residential customer's bill for 1,000 kWh?

A. The purchased power capacity costs recovered through the clause for a residential customer who is billed for 1,000 kWh will be $8.78.

Q. What is Gulf's projected recoverable capacity payments for the 2020 cost recovery period?

A. The total recoverable capacity payments for the period are $83,785,002. This amount is captured in the Schedule CCE-1, line 11. Schedule CCE-4 shows the projected cost associated with the Southern Intercompany Interchange capacity, if applicable, and any long-term purchased power contracts that are included for capacity cost recovery and lists their associated capacity amounts in megawatts. Also included in Gulf's 2020 projection of capacity cost is revenue produced by a market-based agreement between the Southern electric system operating companies and South Carolina PSA (Public Service Authority). The total capacity cost of $85,867,467 is shown on Schedule CCE-4, line 14. The total capacity costs included on Schedule CCE-4 line 14 is the sum of lines 1 and 2 of Schedule CCE-1.

Q. Have there been any new purchased power agreements entered into by Gulf that impact the total recoverable capacity payments for the period?

A. No.

Q. What other projected revenues or credits has Gulf included in its capacity cost recovery clause for the period?

A. Gulf has included an estimate of transmission revenues associated with off-system economy sales in the amount of $6,000 in its capacity cost recovery projection. This amount is captured on Schedule CCE-1, line 3 of my Exhibit CSB-5.

Q. Have there been any other notable changes to the projected recoverable capacity costs for the period January 2020 through December 2020?

A. Yes. The ratemaking adjustment I have referred to in previous testimony as the "Scherer/Flint credit" will cease at the end of December 2019 when the long-term wholesale contract with Flint EMC expires on December 31, 2019. As a result, the Scherer/Flint revenue credits associated with the Flint contract are no longer available to retail customers through reductions to the recoverable purchased power capacity cost recovery rates beginning in 2020. The end of this ratemaking treatment was contemplated by the Stipulation and Settlement Agreement approved by FPSC Order No. PSC-17-0178-S-EI.

Q. How do the total projected net jurisdictional capacity payments for the 2020 period compare to the current estimated net jurisdictional capacity payments for the same period in 2019?

A. Gulf's 2020 Projected Jurisdictional Capacity Payments, found on Schedule CCE-1, line 7, are $83,486,772. This amount is $8,219,096 or 10.92% more than the current estimate of $75,267,676 (Schedule CCE-1B, line 7) for 2019 that was filed in my actual/estimated true-up testimony in this docket on July

26, 2019. The higher projected jurisdictional capacity payments for 2020 are attributed to the expiration of the Flint EMC wholesale agreement and resulting Scherer/Flint revenue credits which are projected to be $8,722,800 for the updated 2019 period.

Q. When does Gulf propose to collect these new fuel charges and purchased power capacity charges?

A. The fuel and capacity recovery factors will be effective beginning with the first billing cycle in January 2020 and continuing through the last billing cycle of December 2020.

Q. Mr. Boyett, does this conclude your testimony?

A. Yes.

AFFIDAVIT

STATE OF FLORIDA)
)
COUNTY OF ESCAMBIA)

Docket No. 20190001-EI

Before me, the undersigned authority, personally appeared C. Shane Boyett, who being first duly sworn, deposes and says that he is the Regulatory, Forecasting and Pricing Manager of Gulf Power Company, a Florida corporation, that the foregoing is true and correct to the best of his knowledge and belief. He is personally known to me.

C. Shane Boyett

C. Shane Boyett
Regulatory, Forecasting and Pricing Manager

Sworn to and subscribed before me this 30th day of August, 2019.

Melissa Darnes

Notary Public, State of Florida at Large

NOTARY PUBLIC
MELISSA DARNES
MY COMMISSION # FF 912698
EXPIRES: December 17, 2019
Budget Notary Services

SCHEDULE E-1

GULF POWER COMPANY
FUEL COST RECOVERY CALCULATION

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1)	(2)	(3)	(4)	(5)
Line No.	Description	$	kWh	¢ / kWh
1	Fuel Cost of System Net Generation (E-3)	263,829,683	9,306,904,000	2.8348
2	Other Generation (E-3)	1,844,483	67,440,000	2.7350
3	Hedging Settlement (E-2)	1,093,590	0	N/A
4	**Total Cost of Generated Power**	266,767,756	9,374,344,000	2.8457
5	Fuel Cost of Purchased Power (Exclusive of Economy) (E-7)	0	0	
6	Energy Cost of Other Econ. Purch. (E-9))	216,369,405	7,560,995,000	2.8617
7	Energy Payments to Qualifying Facilities (E-8)	0	0	
8	**Total Cost of Purchased Power**	216,369,405	7,560,995,000	2.8617
9	**Total Available kWh** (Lines 4 + 8)		16,935,339,000	
10	Fuel Cost of Economy Sales (E-6)	(2,817,048)	(109,487,000)	2.5730
11	Gain on Economy Sales (E-6)	(223,000)	0	N/A
12	Fuel Cost of Other Power Sales (E-6)	(126,186,576)	(5,297,893,000)	2.3818
13	**Total Fuel Cost & Gains on Power Sales**	(129,226,624)	(5,407,380,000)	2.3898
14	Net Inadvertant Interchange			
15	**Total Fuel & Net Power Trans.** (Lines 4+8+13)	353,910,537	11,527,959,000	3.0700
16	Company Use *	465,627	15,167,000	3.0700
17	T & D Losses *	17,246,124	561,763,000	3.0700
18	**System kWh Sales**	353,910,537	10,951,029,000	3.2318
19	Wholesale kWh Sales	0	0	#N/A
20	Jurisdictional kWh Sales	353,910,537	10,951,029,000	3.2318
20a	Jurisdictional Line Loss Multiplier	1.0012		1.0012
21	Jurisdictional kWh Sales Adjusted for Line Losses	354,335,230	10,951,029,000	3.2356
22	**True-Up ****	666,833	10,951,029,000	0.0061
23	**Total Jurisdictional Fuel Cost**	355,002,063	10,951,029,000	3.2417
24	Revenue Tax Factor			1.00072
25	Fuel Factor Adjusted For Revenue Taxes	355,257,664	10,951,029,000	3.2441
26	GPIF Reward/(Penalty) **	10,384	10,951,029,000	0.0001
27	Fuel Factor Adjusted for GPIF	355,268,048	10,951,029,000	3.2442
28	Fuel Factor Adjusted for GPIF	355,268,048	10,951,029,000	3.2442
29	**Fuel Factor Rounded to Nearest .001 (¢/kWh)**			**3.244**

*For informational purposes only
** Calculation Based on Jurisdictional kWh Sales

SCHEDULE E-1A

GULF POWER COMPANY
FUEL COST RECOVERY CLAUSE
CALCULATION OF TRUE-UP

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

Line No.	Description	Annual Total
1	Estimated over/(under)-recovery, January 2019 - December 2019 (Schedule E-1B, page 2, line C9)	($5,178,904)
2	Final over/(under)-recovery, January 2018 - December 2018 (Exhibit CSB-1, Schedule 1, Line 3)	$4,512,071
3	Total over/(under)-recovery (Lines 1 + 2) To be included in January 2020 - December 2020 (Schedule E1, Line 23)	($666,833)
4	Jurisdictional MWh sales For the period: January 2020 - December 2020	10,951,029
5	True-up Factor (Line 3 / Line 4) x 100 (¢ / kWh)	0.0061

Schedule E-1B

GULF POWER COMPANY
CALCULATION OF ESTIMATED TRUE-UP
ACTUAL FOR THE PERIOD JANUARY 2019 - JUNE 2019 / ESTIMATED FOR JULY 2019 - DECEMBER 2019

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Line No.	Description	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Projection	August Projection	September Projection	October Projection	November Projection	December Projection	Total Period
A	1	Fuel Cost of System Generation	23,179,762.07	10,379,345.74	19,124,590.38	16,011,423.76	22,744,884.73	21,829,691.65	32,355,942.00	33,932,386.00	28,876,538.00	26,477,294.00	16,096,467.00	20,688,685.00	271,697,010.33
	1a	Fuel Cost of Hedging Settlement	142,790.00	454,190.00	496,940.00	560,840.00	626,990.00	596,840.00	700,340.00	761,540.00	772,790.00	757,490.00	722,990.00	619,640.00	7,213,380.00
	1b	Scherer/Flint Credit	(511,810.14)	0.00	1,541.56	(376,161.34)	(655,819.50)	(513,522.52)	(763,107.73)	(738,824.35)	(627,971.57)	(527,931.36)	(415,019.64)	(599,952.54)	(5,728,579.13)
	2	Fuel Cost of Power Sold	(6,315,373.90)	(3,847,602.75)	(11,789,380.30)	(2,592,931.79)	(4,832,360.33)	(1,715,190.22)	(11,989,619.00)	(14,428,268.00)	(13,972,870.00)	(9,378,224.00)	(9,287,276.00)	(11,340,424.00)	(101,489,520.29)
	3	Fuel Cost of Purchased Power	13,982,321.47	13,445,845.38	18,678,300.26	14,107,961.11	17,941,515.70	18,094,689.47	18,326,343.00	18,449,475.00	17,874,387.00	12,677,788.00	18,593,413.00	17,905,853.00	200,077,892.39
	3a	Demand & Non-Fuel Cost of Purchased Power	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3b	Energy Payments to Qualified Facilities	639,169.63	523,201.78	497,243.49	444,567.42	520,567.74	338,094.18	0.00	0.00	0.00	0.00	0.00	0.00	2,962,844.24
	4	Energy Cost of Economy Purchases	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5	Other Generation	177,352.92	149,457.86	237,961.29	190,881.88	171,705.71	158,454.96	156,204.00	156,204.00	151,173.00	156,204.00	151,173.00	156,204.00	2,012,976.62
	6	Adjustments to Fuel Cost	0.00	(311,628.74)	(248,867.42)	0.00	(6,380.84)	105,679.30	0.00	0.00	0.00	0.00	0.00	0.00	(461,197.70)
	7	TOTAL FUEL & NET POWER TRANSACTIONS	31,294,212.05	20,792,809.27	26,998,329.26	28,346,581.04	36,511,103.21	38,894,736.82	38,786,102.27	38,132,512.65	33,074,046.43	30,162,620.64	25,861,747.36	27,430,005.46	376,284,806.46
B	1	Jurisdictional kWh Sales	864,788,358	670,334,830	747,527,553	754,647,350	1,008,838,581	1,116,743,905	1,182,325,000	1,171,710,000	1,004,542,000	848,931,000	731,492,000	827,032,000	10,928,912,577
	2	Non-Jurisdictional kWh Sales	24,797,417	18,315,462	20,326,293	19,981,205	27,436,089	27,436,089	30,780,000	30,334,000	26,676,000	22,945,000	21,493,000	25,124,000	295,644,555
	3	TOTAL SALES (Lines B1 + B2)	889,585,775	688,650,292	767,853,846	774,628,555	1,036,274,670	1,144,179,994	1,213,105,000	1,202,044,000	1,031,218,000	871,876,000	752,985,000	852,156,000	11,224,557,132
	4	Jurisdictional % of Total Sales (Line B1/B3)	97.2125%	97.3404%	97.3528%	97.4205%	97.3524%	97.6021%	97.4627%	97.4765%	97.4132%	97.3683%	97.1456%	97.0517%	
C	1	Jurisdictional Fuel Recovery Revenue (1) (Net of Revenue Taxes)	25,873,403.53	19,672,728.02	22,537,774.01	22,548,788.96	30,354,039.24	34,011,265.87	35,798,672.46	35,477,269.37	30,415,723.28	25,704,102.35	22,148,260.85	25,041,040.05	329,583,067.98
	2	True-Up Provision	1,950,781.00	1,950,778.00	1,950,778.00	1,950,778.00	1,950,778.00	1,950,778.00	1,950,778.00	1,950,778.00	1,950,778.00	1,950,778.00	1,950,778.00	1,950,778.00	23,409,339.00
	2a	Incentive Provision	21,386.00	21,391.00	21,391.00	21,391.00	21,391.00	21,391.00	21,391.00	21,391.00	21,391.00	21,391.00	21,391.00	21,391.00	256,687.00
	2b	Retail Tax Savings Credit	674,592.00	674,590.00	674,590.00	674,590.00	674,590.00	674,590.00	674,590.00	674,590.00	674,590.00	674,590.00	674,590.00	674,590.00	8,095,082.00
	3	FUEL REVENUE APPLICABLE TO PERIOD	28,520,162.53	22,319,487.02	25,184,533.01	25,195,547.96	33,000,798.24	36,658,024.87	38,445,431.46	38,124,028.37	33,062,482.28	28,350,861.35	24,795,019.85	27,687,799.05	361,344,175.98
	4	Fuel & Net Power Transactions (Line A7)	31,294,212.05	20,792,809.27	26,998,329.26	28,346,581.04	36,511,103.21	38,894,736.82	38,786,102.27	38,132,512.65	33,074,046.43	30,162,620.64	25,861,747.36	27,430,005.46	$376,284,806.46
	5	Jurisdictional Fuel Cost Adj. for Line Losses (Line A7 x Line B4 x 1.0012)	30,458,392	20,264,091	26,315,170	27,648,519	35,587,089	38,007,634	37,847,344.88	37,214,842.98	32,257,149.18	29,404,073.55	25,153,697.90	26,653,232.15	$366,811,236.53
	6	Over/(Under) Recovery (Line C3-C5)	(1,938,229.62)	2,055,395.54	(1,130,636.83)	(2,452,971.48)	(2,586,290.32)	(1,349,609.55)	598,086.58	909,185.39	805,333.10	(1,053,212.20)	(358,678.05)	1,034,566.90	($5,467,060.540)
	7	Interest Provision	52,291.51	48,467.09	46,256.62	38,875.52	29,254.97	20,964.32	16,187.25	13,904.47	11,817.57	7,829.99	2,709.68	(403)	$288,156.30
	8	Adjustments	0	0	0	0	0	0	0	0	0	0	0	0	$0
	9	**TOTAL ESTIMATED TRUE-UP FOR THE PERIOD JANUARY 2019 - DECEMBER 2019**													($5,178,904.24)

* (Gain)/Loss on sales of natural gas and contract dispute litigation

Notes 1: Projected Revenues based on the current approved 2019 Fuel Factor excluding revenue taxes of: 3.0278 ¢/KWH

Schedule E-1B-1

GULF POWER COMPANY
COMPARISON OF ESTIMATED/ACTUAL VERSUS ORIGINAL PROJECTIONS
OF THE FUEL COST RECOVERY FACTOR

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
		Dollars				kWh				¢/kWh			
Line No.	Description	Estimated Actual	Estimated Original	Difference Amount	Difference %	Estimated Actual	Estimated Original	Difference Amount	Difference %	Estimated Actual	Estimated Original	Difference Amount	Difference %
1	Fuel Cost of System Net Generation	271,697,010	256,848,474	14,848,536	5.78	9,045,489,480	8,888,872,000	156,617,480	1.76	3.0037	2.8896	0.1141	3.95
1a	Fuel Cost of Hedging Settlement	7,213,380	6,701,880	511,500	7.63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1b	Scherer/Flint Credit	(5,728,579)	(5,587,895)	(140,684)	2.52	(200,390,000)	(209,718,000)	9,328,000	(4.45)	0.0000	2.6645	(2.6645)	(100.00)
2	Other Generation	2,012,977	2,390,125	(377,148)	(15.78)	73,609,520	81,352,000	(7,742,480)	(9.52)	2.7347	2.9380	(0.2033)	(6.92)
3	Adjustments to Fuel Cost	(461,198)	0	(461,198)	-	0	0	0	0	N/A	N/A	N/A	N/A
4	**Total Cost of Generated Power**	274,733,590	260,352,584	14,381,006	5.52	8,918,709,000	8,760,506,000	158,203,000	1.81	3.0804	2.9719	0.1085	3.65
5	Energy Cost of Other Economy Purchases (Nonbroker)	200,077,892	214,200,334	(14,122,442)	(6.59)	7,003,878,800	7,318,073,000	(314,194,200)	(4.29)	2.8567	2.9270	(0.0703)	(2.40)
6	Energy Payments to Qualifying Facilities	2,962,844	0	2,962,844	-	112,431,285	0	112,431,285	-	2.6352	0.0000	2.6352	100.00
7	**Total Cost of Purchased Power**	203,040,737	214,200,334	(11,159,597)	(5.21)	7,116,310,085	7,318,073,000	(201,762,915)	(2.76)	2.8532	2.9270	(0.0738)	(2.52)
8	**Total Available** (Line 4 + Line 7)	477,774,327	474,552,918	3,221,409	0.68	16,035,019,085	16,078,579,000	(43,559,915)	(0.27)	2.9796	2.9515	0.0281	0.95
9	Fuel Cost of Economy Sales	(2,118,112)	(2,762,145)	644,033	(23.32)	(84,540,224)	(109,939,000)	25,398,776	(23.10)	2.5054	2.5124	(0.0070)	(0.28)
10	Gain on Economy Sales	(123,369)	(104,000)	(19,369)	18.62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11	Fuel Cost of Other Power Sales	(99,248,038)	(102,387,084)	3,139,046	(3.07)	(4,128,033,058)	(4,307,932,000)	179,898,942	(4.18)	2.4042	2.3767	0.0275	1.16
12	**Total Gains on Power Sales**	(101,489,520)	(105,253,229)	3,763,710	(3.58)	(4,212,573,282)	(4,417,871,000)	205,297,718	(4.65)	2.4092	2.3824	0.0268	1.12
13	**Total Fuel & Net Power Transactions**	376,284,806	369,299,689	6,985,117	1.89	11,822,445,803	11,660,708,000	161,737,803	1.39	3.1828	3.1670	0.0158	0.50
14	Company Use *	447,036	490,410	(43,374)	(8.84)	14,045,371	15,485,000	(1,439,629)	(9.30)	3.1828	3.1670	0.0158	0.50
15	T & D Losses *	18,582,565	18,191,090	391,475	2.15	583,843,300	574,395,000	9,448,300	1.64	3.1828	3.1670	0.0158	0.50
16	TERRITORIAL (SYSTEM) SALES	376,284,806	369,299,689	6,985,117	1.89	11,224,557,132	11,070,828,000	153,729,132	1.39	3.3523	3.3358	0.0165	0.49
17	Wholesale Sales	9,910,997	10,049,464	(138,467)	(1.38)	295,644,555	301,261,000	(5,616,445)	(1.86)	3.3523	3.3358	0.0165	0.49
18	Jurisdictional Sales	366,373,809	359,250,225	7,123,584	1.98	10,928,912,577	10,769,567,000	159,345,577	1.48	3.3523	3.3358	0.0165	0.49
19	Jurisdictional Sales Adj. for Line Losses (Line 18 x 1.0012)	366,811,237	359,681,325	7,129,912	1.98	10,928,912,577	10,769,567,000	159,345,577	1.48	3.3563	3.3398	0.0165	0.49
20	TRUE-UP **	(23,409,339)	(23,409,339)	0	0.00	10,928,912,577	10,769,567,000	159,345,577	1.48	(0.2142)	(0.2174)	0.0032	(1.47)
21	TOTAL JURISDICTIONAL FUEL COST	343,401,898	336,271,986	7,129,912	2.12	10,928,912,577	10,769,567,000	159,345,577	1.48	3.1421	3.1224	0.0197	0.63
22	Fuel Factor Adjusted for Revenue Taxes									3.1444	3.1246	0.0197	0.63
23	GPIF Reward / (Penalty) **	(256,872)	(256,872)	0	0.00	10,928,912,577	10,769,567,000	159,345,577	1.48	(0.0024)	(0.0024)	0.0000	0.00
27	Tax Savings Credit	(8,095,082)	(9,946,000)	1,850,918	(18.61)	10,928,912,577	10,769,567,000	159,345,577	1.48	(0.0741)	(0.0924)	0.0183	19.81
28	Fuel Factor Adjusted for GPIF Reward / (Penalty)									3.0679	3.0298	0.0381	1.26
29	**FUEL FACTOR ROUNDED TO NEAREST .001(¢/kWh)**									3.0680	3.0300	0.0380	1.25

Totals may not add due to rounding

* Included for informational purposes only.

** ¢/kWh calculation based on jurisdictional kWh sales.

Note: Amounts included in the Estimated/Actual column represent 6 months actual and 6 months estimate.

Jurisdictional Loss Multiplier	1.0012
Revenue Tax Factor	1.00072

SCHEDULE E-1C

GULF POWER COMPANY
CALCULATION OF GENERATING PERFORMANCE INCENTIVE FACTOR AND TRUE-UP FACTOR

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

Line No.	Description		Annual Total
1	TOTAL AMOUNT OF ADJUSTMENTS:		
A	Generating Performance Incentive Reward/(Penalty)	$	10,384
B	True-up (Over)/Under Recovered	$	666,833
2	Jurisdictional MWh sales		
	For the period: January 2020 - December 2020		10,951,029
3	ADJUSTMENT FACTORS (¢ per kWh):		
A	Generating Performance Incentive Factor		0.0001
B	True-up Factor		0.0061

SCHEDULE E-1D

GULF POWER COMPANY
DETERMINATION OF FUEL RECOVERY FACTOR
TIME OF USE RATE SCHEDULES

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

Net Energy For Load %

On-Peak	28.91
Off-Peak	71.09
	100.00

	AVERAGE	ON-PEAK	OFF-PEAK
Cost per kWh Sold	3.2318	3.7273	3.0303
Jurisdictional Loss Factor	1.0012	1.0012	1.0012
Jurisdictional Fuel Factor	3.2357	3.7318	3.0339
GPIF	0.0001	0.0001	0.0001
True-Up	0.0061	0.0061	0.0061
TOTAL	3.2419	3.738	3.0401
Revenue Tax Factor	1.00072	1.00072	1.00072
Recovery Factor	3.2442	3.7407	3.0423
Recovery Factor (Rounded to the nearest .001 ¢/kWh)	3.244	3.741	3.042

HOURS:	ON-PEAK	25.13%
	OFF-PEAK	74.87%
		100.00%

SCHEDULE E-1E

GULF POWER COMPANY
FUEL RECOVERY FACTORS - BY RATE GROUP
(ADJUSTED FOR LINE/TRANSFORMATION LOSSES)

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1)	(2)	(3)	(4)	(5)		(6)	(7)	(8)
						Time Of Use		
Groups	Rate Schedules	Average Factor	Fuel Recovery LossMultipliers	Fuel Recovery Factor		Groups	Time of Use	Factor
A	RS, RSVP, RSTOU	3.244	1.00555	3.262		A	On-Peak	3.762
A	GS, GSD, GSDT, GSTOU	3.244	1.00555	3.262			Off-Peak	3.059
A	OSIII	3.244	1.00555	3.262				
A	SBS (1)	3.244	1.00555	3.262				
B	LP, LPT, SBS (2)	3.244	0.99188	3.218		B	On-Peak	3.711
B	SBS (2)	3.244	0.99188	3.218			Off-Peak	3.017
C	PX,PXT, RTP, SBS (3)	3.244	0.97668	3.168		C	On-Peak	3.654
C	RTP	3.244	0.97668	3.168			Off-Peak	2.971
C	SBS (3)	3.244	0.97668	3.168				
D	OS-I/II	3.244	1.00560	3.236	*	D	On-Peak	N/A
							Off-Peak	N/A

Group D Calculation

* D	On-Peak	3.741 ¢ / kWh	x	0.2513	=	0.940 ¢ / kWh
	Off-Peak	3.042 ¢ / kWh	x	0.7487	=	2.278 ¢ / kWh
						3.218 ¢ / kWh
			Line Loss Multiplier		x	1.00560
						3.236 ¢ / kWh

(1) Includes SBS customers with a Contract Demand in the range of 100 to 499 kW
(2) Includes SBS customers with a Contract Demand in the range of 500 to 7,499 kW
(3) Includes SBS customers with a Contract Demand over 7,499 kW

SCHEDULE E-2

GULF POWER COMPANY
FUEL AND PURCHASED POWER COST RECOVERY CLAUSE CALCULATION

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
		ESTIMATED												
LINE	LINE DESCRIPTION	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
	$													
1	Fuel Cost of System Generation	24,452,484	19,969,316	13,083,318	14,593,948	22,482,830	32,285,562	32,921,037	33,861,353	17,213,568	18,414,074	15,629,210	18,922,983	263,829,683
1a	Other Generation	156,223	146,158	156,223	151,191	156,223	151,191	156,223	156,223	151,191	156,223	151,191	156,223	1,844,483
2	Fuel Cost of Power Sold	(13,460,337)	(9,932,375)	(10,534,504)	(5,177,491)	(10,427,647)	(14,547,887)	(15,787,353)	(16,922,844)	(5,499,805)	(5,149,782)	(10,669,375)	(11,117,224)	(129,226,624)
3	Fuel Cost of Purchased Power	18,147,632	15,463,578	20,575,813	15,343,323	18,665,758	18,921,208	18,985,391	19,173,381	19,844,785	14,019,957	18,914,698	18,313,881	216,369,405
3a	Demand & Non-Fuel Cost of Pur Powe	0	0	0	0	0	0	0	0	0	0	0	0	0
3b	Qualifying Facilities	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Energy Cost of Economy Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Hedging Settlement	352,320	360,570	380,700	0	0	0	0	0	0	0	0	0	1,093,590
6	**Total Fuel & Net Power Trans.** (Sum of Lines 1 - 5)	29,648,322	26,007,247	23,661,550	24,910,971	30,877,164	36,810,074	36,275,298	36,268,113	31,709,739	27,440,472	24,025,724	26,275,863	353,910,537
7	System MWh Sold	881,768	772,423	736,408	756,129	938,298	1,094,766	1,186,135	1,175,626	1,004,436	844,529	734,055	826,456	10,951,029
7a	Jurisdictional % of Total Sales	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000	100.0000
8	Cost per kWh Sold (¢/kWh)	3.3624	3.3670	3.2131	3.2945	3.2908	3.3624	3.0583	3.0850	3.1570	3.2492	3.2730	3.1793	3.2318
8a	Jurisdictional Loss Multiplier	1.0012	1.0012	1.0012	1.0012	1.0012	1.0012	1.0012	1.0012	1.0012	1.0012	1.0012	1.0012	1.0012
8b	Jurisdictional Cost (¢/kWh)	3.3664	3.3710	3.2170	3.2985	3.2947	3.3664	3.0619	3.0887	3.1608	3.2531	3.2769	3.1832	3.2356
9	GPIF (¢/kWh) *	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
10	True-Up (¢/kWh) *	0.0063	0.0072	0.0075	0.0073	0.0059	0.0051	0.0047	0.0047	0.0055	0.0066	0.0076	0.0067	0.0061
11	TOTAL	3.3728	3.3783	3.2247	3.3060	3.3007	3.3716	3.0667	3.0935	3.1664	3.2598	3.2846	3.1900	3.2418
12	Revenue Tax Factor	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072	1.00072
13	Recovery Factor Adjusted for Taxes	3.3752	3.3807	3.2270	3.3084	3.3031	3.3740	3.0689	3.0957	3.1687	3.2621	3.2870	3.1923	3.2441
14	**Recovery Factor Rounded to the Nearest .001 ¢/kWh**	3.375	3.381	3.227	3.308	3.303	3.374	3.069	3.096	3.169	3.262	3.287	3.192	3.244

* Calculations Based on Jurisdictional kWh Sales

GENERATING SYSTEM COMPARATIVE DATA BY FUEL TYPE
GULF POWER COMPANY

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1) Line No.	(2) Description	(3)	(4) January Estimated	(5) February Estimated	(6) March Estimated	(7) April Estimated	(8) May Estimated	(9) June Estimated	(10) July Estimated	(11) August Estimated	(12) September Estimated	(13) October Estimated	(14) November Estimated	(15) December Estimated	(16) 12 Month Period
	FUEL COST - NET GEN. ($)														
1	LIGHTER OIL (B.L.)		91,023	90,858	50,439	86,130	90,604	90,539	73,783	73,747	73,721	46,411	6,281	46,406	819,942
2	COAL		10,919,496	8,562,187	2,747,654	3,032,400	9,234,243	18,012,556	5,154,486	6,029,815	3,599,117	2,147,251	0	2,000,980	71,440,185
2a	Coal at Scherer		2,806,024	1,801,255	1,715,578	2,241,265	2,701,149	2,826,708	3,258,490	3,203,759	3,023,748	2,428,212	1,651,726	2,629,976	30,287,890
3	GAS - Generation		10,523,338	9,399,316	8,465,288	9,226,200	10,366,185	11,136,283	24,438,211	24,635,853	10,596,113	13,874,021	14,050,334	14,327,442	161,038,584
4	GAS (B.L.)		194,424	192,246	186,180	87,084	172,470	174,534	0	0	0	0	0	0	1,006,938
5	LANDFILL GAS		74,402	69,612	74,402	72,060	74,402	196,133	74,402	74,402	72,060	74,402	72,060	74,402	1,002,739
6	OIL - C.T.		0	0	0	0	0	0	77,888	0	0	0	0	0	77,888
7	TOTAL ($)		24,608,707	20,115,474	13,239,541	14,745,139	22,639,053	32,436,753	33,077,260	34,017,576	17,364,759	18,570,297	15,780,401	19,079,206	265,674,166
	SYSTEM NET GEN. (MWh)														
8	LIGHTER OIL (B.L.)		0	0	0	0	0	0	0	0	0	0	0	0	0
9	COAL		317,511	240,066	74,894	84,718	245,540	514,682	157,244	185,964	110,664	65,569	0	58,594	2,055,446
9a	Coal at Scherer		102,328	66,459	63,840	80,251	97,692	102,739	118,624	117,745	109,265	87,675	58,809	95,375	1,100,802
10	GAS		418,247	384,900	359,035	359,436	392,422	433,375	858,107	854,325	338,955	519,194	546,439	537,381	6,001,816
11	LANDFILL GAS		2,097	1,962	2,097	2,031	2,097	2,031	2,097	2,097	2,031	2,097	2,031	2,097	24,765
12	OIL - C.T.		80	0	72	0	72	0	0	64	128	0	0	0	416
13	Solar		11,638	12,412	16,674	18,060	20,573	18,952	19,512	18,386	16,506	15,970	12,516	9,900	191,099
14	TOTAL (MWH)		851,901	705,799	516,612	544,496	758,396	1,071,779	1,155,584	1,178,581	577,549	690,505	619,795	703,347	9,374,344
	UNITS OF FUEL BURNED														
15	LIGHTER OIL (BBL)		1,018	1,018	564	967	1,018	1,018	830	830	830	521	67	521	9,202
16	COAL (TON)		165,742	123,179	43,696	48,610	121,960	265,156	94,957	111,573	66,866	40,554	0	36,686	1,118,979
17	GAS-all (MCF) (1)		2,973,461	2,679,833	2,436,479	2,410,657	2,822,772	3,104,961	7,430,924	7,459,336	2,732,174	3,859,436	4,283,969	4,129,714	46,323,716
18	OIL - C.T. (BBL)		0	0	0	0	0	0	846	0	0	0	0	0	846
	BTUS BURNED (MMBtu)														
19	COAL + GAS B.L. + OIL B.L.		4,607,428	3,339,245	1,584,102	1,845,076	3,714,470	6,737,115	2,997,543	3,274,336	2,386,269	1,671,238	636,706	1,687,112	34,480,640
20	GAS-Generation (1)		2,972,930	2,673,429	2,425,208	2,428,870	2,819,227	3,107,060	7,579,542	7,608,522	2,786,818	3,936,624	4,369,649	4,212,308	46,920,187
21	OIL - C.T.		0	0	0	0	0	0	4,951	0	0	0	0	0	4,951
22	TOTAL (MMBtu) (1)		7,580,358	6,012,674	4,009,310	4,273,946	6,533,697	9,844,175	10,582,036	10,882,858	5,173,087	5,607,862	5,006,355	5,899,420	81,405,778

(1) Data excludes Landfill Gas and Gulf's CT in Santa Rosa County because MCF and MMBtus are not available due to contract specifications.

GENERATING SYSTEM COMPARATIVE DATA BY FUEL TYPE
GULF POWER COMPANY

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1) Line No.	(2) Description	(3)	(4) January Estimated	(5) February Estimated	(6) March Estimated	(7) April Estimated	(8) May Estimated	(9) June Estimated	(10) July Estimated	(11) August Estimated	(12) September Estimated	(13) October Estimated	(14) November Estimated	(15) December Estimated	(16) 12 Month Period
	GENERATION MIX (% MWh)														
23	LIGHTER OIL (B.L.)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	COAL		49.27	43.43	26.85	30.30	45.26	57.60	23.87	25.76	38.08	22.20	9.49	21.89	33.68
25	GAS-Generation		49.10	54.53	69.50	66.01	51.74	40.44	74.26	72.49	58.69	75.19	88.16	76.40	64.02
26	LANDFILL GAS		0.25	0.28	0.41	0.37	0.28	0.19	0.18	0.18	0.35	0.30	0.33	0.30	0.26
27	OIL - C.T.		0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00
28	Solar		1.37	1.76	3.23	3.32	2.71	1.77	1.69	1.56	2.86	2.31	2.02	1.41	2.04
29	TOTAL (% MWH)		100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	FUEL COST ($ / Unit)														
30	LIGHTER OIL ($/BBL)		89.41	89.25	89.43	89.07	89.00	88.94	88.90	88.85	88.82	89.08	93.75	89.07	89.10
31	COAL ($/TON)		65.88	69.51	62.88	62.38	75.72	67.93	54.28	54.04	53.83	52.95	#N/A	54.54	63.84
32	GAS + B.L. ($/MCF) (1)		3.55	3.52	3.49	3.80	3.68	3.59	3.27	3.28	3.82	3.55	3.24	3.43	3.46
33	OIL - C.T.		0.00	0.00	0.00	0.00	0.00	0.00	92.07	0.00	0.00	0.00	0.00	0.00	92.07
	FUEL COST ($ / MMBtu)														
34	COAL + GAS B.L. + OIL B.L.		3.04	3.19	2.97	2.95	3.28	3.13	2.83	2.84	2.81	2.77	2.60	2.77	3.00
35	GAS-Generation (1)		3.49	3.46	3.43	3.74	3.62	3.54	3.20	3.22	3.75	3.48	3.18	3.36	3.39
36	OIL - C.T.		0.00	0.00	0.00	0.00	0.00	0.00	15.73	0.00	0.00	0.00	0.00	0.00	15.73
37	TOTAL ($/MMBtu) (1)		3.22	3.31	3.24	3.40	3.43	3.26	3.10	3.10	3.31	3.27	3.11	3.19	3.23
	BTU BURNED (Btu / kWh)														
38	COAL + GAS B.L. + OIL B.L.		10,974	10,894	11,418	11,184	10,822	10,912	10,866	10,781	10,850	10,906	#N/A	10,957	10,925
39	GAS-Generation (1)		7,206	7,044	6,864	6,863	7,290	7,262	8,892	8,966	8,358	7,667	8,078	7,923	7,907
40	OIL - C.T.		0	0	0	0	0	0	0	0	0	0	0	0	11,901
41	TOTAL (Btu/kWh) (1)		8,980	8,608	7,880	7,960	8,705	9,281	9,220	9,295	9,076	8,214	8,177	8,482	8,770
	FUEL COST (Cents / kWh)														
42	COAL + GAS B.L. + OIL B.L.		3.34	3.47	3.39	3.30	3.55	3.42	3.08	3.06	3.04	3.02	#N/A	3.04	3.28
43	GAS-Generation		2.52	2.44	2.36	2.57	2.64	2.57	2.85	2.88	3.13	2.67	2.57	2.67	2.68
44	LANDFILL GAS		3.55	3.55	3.55	3.55	3.55	9.66	3.55	3.55	3.55	3.55	3.55	3.55	4.05
45	OIL - C.T.		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.72
46	TOTAL (¢/kWh)		2.89	2.85	2.56	2.71	2.99	3.03	2.86	2.89	3.01	2.69	2.55	2.71	2.83

(1) Data excludes Landfill Gas and Gulf's CT in Santa Rosa County because MCF and MMBtus are not available due to contract specifications.

GULF POWER COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE MONTH OF: JANUARY 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Plant/Unit & Fuel Type	Net Cap. (MW)	Net Gen. (MWh)	Cap. Factor (%)	Equiv. Avail. Factor (%)	Net Output Factor (%)	Avg. Net Heat Rate (Btu/kWh)	Fuel Burned Units (Tons/MCF/Bbl)	Fuel Heat Value (lbs./cf/Gal.)	Fuel Burned (MMBtu)	Fuel Burned Cost ($)	Fuel Cost/kWh (¢/kWh)	Fuel Cost/Unit ($/Unit)
1	Crist 4	75		0%	100.0%	0.0%	0						
2	Coal		0					0	0	0	0	N/A	N/A
3	Gas-G		0					0	0	0	146,591	N/A	N/A
4	Gas-S												
5	Oil-S												
6	Crist 5	75		46.7%	99.9%	56.0%	12,133						
7	Coal		0					0	0	0	0	N/A	N/A
8	Gas-G		26,082					310,248	1,020	316,453	1,172,026	4.49	3.78
9	Gas-S												
10	Oil-S												
11	Crist 6	299		22.0%	97.4%	56.2%	10,973						
12	Coal		48,890					24,161	11,102	536,474	1,745,841	3.57	72.26
13	Gas-G		0					0	0	0	0	N/A	N/A
14	Gas-S												
15	Oil-S												
16	Crist 7	475		46.7%	98.9%	69.9%	10,381						
17	Coal		165,008					77,147	11,102	1,712,943	5,574,411	3.38	72.26
18	Gas-G		0					0	0	0	0	N/A	N/A
19	Gas-S												
20	Oil-S												
21	Smith 3	661	386,453	78.5%	99.3%	88.5%	6,874						
22	Gas-G							2,604,389	1,020	2,656,477	9,048,498	2.34	3.47
23	Smith A	40	80	0.3%	98.4%	0.1%	0						
24	Oil-G							0	0	0	0	0.00	N/A
25	Scherer 3	216	102,328	63.7%	98.8%	64.7%	10,626						
26	Coal							64,616	8,414	1,087,333	2,806,024	2.74	N/A
27	Oil												
28	Other Generation		5,712										
29	Gas										156,223	2.73	N/A
30	Perdido		2,097										
31	Landfill Gas										74,402	3.55	N/A
32	Blue Indigo	75	11,638	20.9%									
33	Solar										0	0.00	N/A
34	Daniel 1	251	51,826	27.8%	98.3%	37.1%	11,880						
35	Coal							32,930	9,348	615,688	1,839,443	3.55	55.86
36	Oil-S												
37	Daniel 2	251	51,787	27.7%	97.4%	40.8%	11,374						
38	Coal							31,504	9,348	589,031	1,759,801	3.40	55.86
39	Oil-S							0	0	0	0		
40	Gas,BL												
41	Gas							58,824	1,020	60,000	194,424	N/A	3.31
42	Ltr. Oil												
43	Oil							1,018	139,400	5,959	91,023	N/A	89.41
44	Total	2,418	851,901	47.4	95.6%	0.6	9,106			7,580,358	24,608,707	2.89	

Notes:
(1) Smith A uses lighter oil
(2) Represents Gulf's 25% ownership
(3) Represents Gulf's 50% ownership

Recoverable Fuel **24,608,707** **2.89**

Schedule E-4

GULF POWER COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE MONTH OF: FEBRUARY 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Plant/Unit & Fuel Type	Net Cap. (MW)	Net Gen. (MWh)	Cap. Factor (%)	Equiv. Avail. Factor (%)	Net Output Factor (%)	Avg. Net Heat Rate (Btu/kWh)	Fuel Burned Units (Tons/MCF/Bbl)	Fuel Heat Value (lbs./cf/Gal.)	Fuel Burned (MMBtu)	Fuel Burned Cost ($)	Fuel Cost/kWh (¢/kWh)	Fuel Cost/Unit ($/Unit)
1	Crist 4	75		0%	100.0%	0.0%	0						
2	Coal		0					0	0	0	0	N/A	N/A
3	Gas-G		0					0	0	0	137,134	N/A	N/A
4	Gas-S												
5	Oil-S												
6	Crist 5	75		27.0%	99.9%	56.0%	13,144						
7	Coal		0					0	0	0	0	N/A	N/A
8	Gas-G		14,112					181,851	1,020	185,488	731,456	5.18	4.02
9	Gas-S												
10	Oil-S												
11	Crist 6	299		17.4%	97.6%	56.2%	10,973						
12	Coal		36,122					18,130	10,931	396,364	1,364,045	3.78	75.24
13	Gas-G		0					0	0	0	0	N/A	N/A
14	Gas-S												
15	Oil-S												
16	Crist 7	475		43.5%	98.9%	62.6%	10,490						
17	Coal		143,687					68,942	10,931	1,507,275	5,187,127	3.61	75.24
18	Gas-G		0					0	0	0	0	N/A	N/A
19	Gas-S												
20	Oil-S												
21	Smith 3	661	365,444	79.4%	99.3%	86.5%	6,808						
22	Gas-G							2,439,158	1,020	2,487,941	8,384,568	2.29	3.44
23	Smith A	40	0	0.0%	97.8%	0.0%	N/A						
24	Oil-G							0	0	0	0	N/A	N/A
25	Scherer 3	216	66,459	44.3%	98.7%	64.0%	10,489						
26	Coal							41,434	8,412	697,085	1,801,255	2.71	N/A
27	Oil												
28	Other Generation		5,344										
29	Gas										146,158	2.73	N/A
30	Perdido		1,962										
31	Landfill Gas										69,612	3.55	N/A
32	Blue Indigo	75	12,412	23.8%									
33	Solar										0	0.00	N/A
34	Daniel 1	251	24,530	14.0%	98.3%	31.3%	12,044						
35	Coal							15,860	9,314	295,428	883,354	3.60	55.70
36	Oil-S												
37	Daniel 2	251	35,727	20.5%	97.4%	39.5%	10,556						
38	Coal							20,247	9,314	377,134	1,127,661	3.16	55.70
39	Oil-S							0	0	0	0		
40	Gas,BL												
41	Gas							58,824	1,020	60,000	192,246	N/A	3.27
42	Ltr. Oil												
43	Oil							1,018	139,400	5,959	90,858	N/A	89.25
44	Total	2,418	705,799	41.9	95.6%	0.58	8,764			6,012,674	20,115,474	2.85	

Notes:
(1) Smith A uses lighter oil
(2) Represents Gulf's 25% ownership
(3) Represents Gulf's 50% ownership

Recoverable Fuel **20,115,474** **2.85**

Schedule E-4

GULF POWER COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE MONTH OF: MARCH 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Plant/Unit & Fuel Type	Net Cap. (MW)	Net Gen. (MWh)	Cap. Factor (%)	Equiv. Avail. Factor (%)	Net Output Factor (%)	Avg. Net Heat Rate (Btu/kWh)	Fuel Burned Units (Tons/MCF/Bbl)	Fuel Heat Value (lbs./cf/Gal.)	Fuel Burned (MMBtu)	Fuel Burned Cost ($)	Fuel Cost/kWh (¢/kWh)	Fuel Cost/Unit ($/Unit)
1	Crist 4	75		0%	80.6%	0.0%	0						
2	Coal		0					0	0	0	0	N/A	N/A
3	Gas-G		0					0	0	0	146,591	N/A	N/A
4	Gas-S												
5	Oil-S												
6	Crist 5	75		0.0%	70.7%	0.0%	0						
7	Coal		0					0	0	0	0	N/A	N/A
8	Gas-G		0					0	0	0	146,591	N/A	N/A
9	Gas-S												
10	Oil-S												
11	Crist 6	299		9.3%	18.7%	56.2%	10,973						
12	Coal		20,665					10,410	10,891	226,757	811,557	3.93	77.96
13	Gas-G		0					0	0	0	0	N/A	N/A
14	Gas-S												
15	Oil-S												
16	Crist 7	475		2.3%	19.4%	78.0%	10,326						
17	Coal		8,155					3,866	10,891	84,211	301,389	3.70	77.96
18	Gas-G		0					0	0	0	0	N/A	N/A
19	Gas-S												
20	Oil-S												
21	Smith 3	651	353,323	72.9%	80.1%	93.6%	6,864						
22	Gas-G							2,377,655	1,020	2,425,208	8,015,883	2.27	3.37
23	Smith A	36	72	0.3%	98.1%	0.1%	0						
24	Oil-G							0	0	0	0	0.00	N/A
25	Scherer 3	216	63,840	39.8%	79.6%	71.1%	10,393						
26	Coal							39,448	8,410	663,485	1,715,578	2.69	N/A
27	Oil												
28	Other Generation		5,712										
29	Gas										156,223	2.73	N/A
30	Perdido		2,097										
31	Landfill Gas										74,402	3.55	N/A
32	Blue Indigo	75	16,674	29.9%									
33	Solar										0	0.00	N/A
34	Daniel 1	251	46,074	24.7%	72.8%	40.3%	11,858						
35	Coal							29,420	9,285	546,347	1,634,708	3.55	55.56
36	Oil-S												
37	Daniel 2	251	0	0.0%	78.6%	0.0%	N/A						
38	Coal							0	0	0	0	N/A	N/A
39	Oil-S							0	0	0	0		
40	Gas,BL												
41	Gas							58,824	1,020	60,000	186,180	N/A	3.17
42	Ltr. Oil												
43	Oil							564	139,400	3,302	50,439	N/A	89.43
44	Total	2,404	516,612	28.9	57.0%	0.6	8,147			4,009,310	13,239,541	2.56	

Notes:
(1) Smith A uses lighter oil
(2) Represents Gulf's 25% ownership
(3) Represents Gulf's 50% ownership

Recoverable Fuel **13,239,541** **2.56**

Schedule E-4

GULF POWER COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE MONTH OF: APRIL 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Plant/Unit & Fuel Type	Net Cap. (MW)	Net Gen. (MWh)	Cap. Factor (%)	Equiv. Avail. Factor (%)	Net Output Factor (%)	Avg. Net Heat Rate (Btu/kWh)	Fuel Burned Units (Tons/MCF/Bbl)	Fuel Heat Value (lbs./cf/Gal.)	Fuel Burned (MMBtu)	Fuel Burned Cost ($)	Fuel Cost/kWh (¢/kWh)	Fuel Cost/Unit ($/Unit)
1	Crist 4	75		0%	93.3%	0.0%	0						
2	Coal		0					0	0	0	0	N/A	N/A
3	Gas-G		0					0	0	0	141,863	N/A	N/A
4	Gas-S												
5	Oil-S												
6	Crist 5	75		0.0%	86.3%	0.0%	0						
7	Coal		0					0	0	0	0	N/A	N/A
8	Gas-G		0					0	0	0	141,863	N/A	N/A
9	Gas-S												
10	Oil-S												
11	Crist 6	299		0.0%	13.3%	0.0%	-						
12	Coal		0					0	0	0	0	N/A	N/A
13	Gas-G		0					0	0	0	0	N/A	N/A
14	Gas-S												
15	Oil-S												
16	Crist 7	475		8.4%	13.3%	63.9%	10,386						
17	Coal		28,830					13,765	10,876	299,431	1,110,049	3.85	80.64
18	Gas-G		0					0	0	0	0	N/A	N/A
19	Gas-S												
20	Oil-S												
21	Smith 3	651	353,908	75.5%	83.3%	94.0%	6,863						
22	Gas-G							2,381,245	1,020	2,428,870	8,791,283	2.48	3.69
23	Smith A	36	0	0.0%	98.5%	0.0%	N/A						
24	Oil-G							0	0	0	0	N/A	N/A
25	Scherer 3	216	80,251	51.7%	95.4%	61.9%	10,792						
26	Coal							51,495	8,409	866,064	2,241,265	2.79	N/A
27	Oil												
28	Other Generation		5,528										
29	Gas										151,191	2.74	N/A
30	Perdido		2,031										
31	Landfill Gas										72,060	3.55	N/A
32	Blue Indigo	75	18,060	33.4%									
33	Solar										0	0.00	N/A
34	Daniel 1	251	38,031	21.0%	96.0%	34.4%	11,787						
35	Coal							24,258	9,240	448,276	1,338,274	3.52	55.17
36	Oil-S												
37	Daniel 2	251	17,857	9.9%	30.0%	51.9%	10,956						
38	Coal							10,587	9,240	195,646	584,077	3.27	55.17
39	Oil-S							0	0	0	0		
40	Gas,BL												
41	Gas							29,412	1,020	30,000	87,084	N/A	2.96
42	Ltr. Oil												
43	Oil							967	139,400	5,659	86,130	N/A	89.07
44	Total	2,404	544,496	31.5	55.6%	0.5	8,237			4,273,946	14,745,139	2.71	

Notes:
(1) Smith A uses lighter oil
(2) Represents Gulf's 25% ownership
(3) Represents Gulf's 50% ownership

Recoverable Fuel **14,745,139** **2.71**

Schedule E-4

GULF POWER COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE MONTH OF: MAY 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Plant/Unit & Fuel Type	Net Cap. (MW)	Net Gen. (MWh)	Cap. Factor (%)	Equiv. Avail. Factor (%)	Net Output Factor (%)	Avg. Net Heat Rate (Btu/kWh)	Fuel Burned Units (Tons/MCF/Bbl)	Fuel Heat Value (lbs./cf/Gal.)	Fuel Burned (MMBtu)	Fuel Burned Cost ($)	Fuel Cost/kWh (¢/kWh)	Fuel Cost/Unit ($/Unit)
1	Crist 4	75		50%	97.3%	56.9%	12,073						
2	Coal		0					0	0	0	0	N/A	N/A
3	Gas-G		28,090					332,477	1,020	339,127	1,121,412	3.99	3.37
4	Gas-S												
5	Oil-S												
6	Crist 5	75		7.4%	99.9%	66.7%	11,244						
7	Coal		0					0	0	0	0	N/A	N/A
8	Gas-G		4,150					45,747	1,020	46,662	280,721	6.76	6.14
9	Gas-S												
10	Oil-S												
11	Crist 6	299		11.8%	78.8%	56.2%	10,973						
12	Coal		26,221					13,089	10,991	287,719	1,047,780	4.00	80.05
13	Gas-G		0					0	0	0	0	N/A	N/A
14	Gas-S												
15	Oil-S												
16	Crist 7	475		52.2%	89.4%	67.4%	10,461						
17	Coal		184,636					87,865	10,991	1,931,474	7,033,809	3.81	80.05
18	Gas-G		0					0	0	0	0	N/A	N/A
19	Gas-S												
20	Oil-S												
21	Smith 3	651	354,470	73.2%	80.6%	93.4%	6,865						
22	Gas-G							2,385,724	1,020	2,433,438	8,807,829	2.48	3.69
23	Smith A	36	72	0.3%	98.4%	0.1%	0						
24	Oil-G							0	0	0	0	0.00	N/A
25	Scherer 3	216	97,692	60.9%	98.8%	62.1%	10,672						
26	Coal							62,014	8,406	1,042,570	2,701,149	2.76	N/A
27	Oil												
28	Other Generation		5,712										
29	Gas										156,223	2.73	N/A
30	Perdido		2,097										
31	Landfill Gas										74,402	3.55	N/A
32	Blue Indigo	75	20,573	36.9%									
33	Solar										0	0.00	N/A
34	Daniel 1	251	6,872	3.7%	60.2%	38.0%	11,536						
35	Coal							4,306	9,206	79,274	236,267	3.44	54.87
36	Oil-S												
37	Daniel 2	251	27,811	14.9%	48.4%	40.9%	11,056						
38	Coal							16,700	9,206	307,474	916,387	3.30	54.87
39	Oil-S							0	0	0	0		
40	Gas,BL												
41	Gas							58,824	1,020	60,000	172,470	N/A	2.93
42	Ltr. Oil												
43	Oil							1,018	139,400	5,959	90,604	N/A	89.00
44	Total	2,404	758,396	42.4	77.1%	0.6	8,950			6,533,697	22,639,053	2.99	

Notes:
(1) Smith A uses lighter oil
(2) Represents Gulf's 25% ownership
(3) Represents Gulf's 50% ownership

Recoverable Fuel **22,639,053** **2.99**

Schedule E-4

GULF POWER COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE MONTH OF: JUNE 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Plant/Unit & Fuel Type	Net Cap. (MW)	Net Gen. (MWh)	Cap. Factor (%)	Equiv. Avail. Factor (%)	Net Output Factor (%)	Avg. Net Heat Rate (Btu/kWh)	Fuel Burned Units (Tons/MCF/Bbl)	Fuel Heat Value (lbs./cf/Gal.)	Fuel Burned (MMBtu)	Fuel Burned Cost ($)	Fuel Cost/kWh (¢/kWh)	Fuel Cost/Unit ($/Unit)
1	Crist 4	75		55%	97.2%	57.5%	12,006						
2	Coal		0					0	0	0	0	N/A	N/A
3	Gas-G		29,519					347,451	1,020	354,400	1,172,777	3.97	3.38
4	Gas-S												
5	Oil-S												
6	Crist 5	75		5.5%	99.9%	66.4%	11,742						
7	Coal		0					0	0	0	0	N/A	N/A
8	Gas-G		2,989					34,409	1,020	35,097	243,956	8.16	7.09
9	Gas-S												
10	Oil-S												
11	Crist 6	299		54.3%	97.1%	56.2%	10,973						
12	Coal		117,003					57,223	11,218	1,283,877	4,280,858	3.66	74.81
13	Gas-G		0					0	0	0	0	N/A	N/A
14	Gas-S												
15	Oil-S												
16	Crist 7	475		73.0%	98.9%	74.1%	10,597						
17	Coal		249,579					117,879	11,218	2,644,791	8,818,582	3.53	74.81
18	Gas-G		0					0	0	0	0	N/A	N/A
19	Gas-S												
20	Oil-S												
21	Smith 3	627	395,339	87.6%	99.3%	93.2%	6,874						
22	Gas-G							2,664,277	1,020	2,717,563	9,568,359	2.42	3.59
23	Smith A	32	0	0.0%	97.6%	0.0%	N/A						
24	Oil-G							0	0	0	0	N/A	N/A
25	Scherer 3	216	102,739	66.1%	98.8%	71.8%	10,612						
26	Coal							64,863	8,404	1,090,272	2,826,708	2.75	N/A
27	Oil												
28	Other Generation		5,528										
29	Gas										151,191	2.74	N/A
30	Perdido		2,031										
31	Landfill Gas										196,133	9.66	N/A
32	Blue Indigo	75	18,952	35.1%									
33	Solar										0	0.00	N/A
34	Daniel 1	251	76,745	42.5%	98.2%	43.2%	11,264						
35	Coal							47,117	9,173	864,458	2,570,598	3.35	54.56
36	Oil-S												
37	Daniel 2	251	71,355	39.5%	96.7%	49.2%	11,040						
38	Coal							42,937	9,173	787,758	2,342,518	3.28	54.56
39	Oil-S							0	0	0	0		
40	Gas,BL												
41	Gas							58,824	1,020	60,000	174,534	N/A	2.97
42	Ltr. Oil												
43	Oil							1,018	139,400	5,959	90,539	N/A	88.94
44	Total	2,376	1,071,779	62.7	95.3%	0.7	9,418			9,844,175	32,436,753	3.03	

Notes:
(1) Smith A uses lighter oil
(2) Represents Gulf's 25% ownership
(3) Represents Gulf's 50% ownership

Recoverable Fuel **32,436,753** **3.03**

Schedule E-4

GULF POWER COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE MONTH OF: JULY 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Plant/Unit & Fuel Type	Net Cap. (MW)	Net Gen. (MWh)	Cap. Factor (%)	Equiv. Avail. Factor (%)	Net Output Factor (%)	Avg. Net Heat Rate (Btu/kWh)	Fuel Burned Units (Tons/MCF/Bbl)	Fuel Heat Value (lbs./cf/Gal.)	Fuel Burned (MMBtu)	Fuel Burned Cost ($)	Fuel Cost/kWh (¢/kWh)	Fuel Cost/Unit ($/Unit)
1	Crist 4	75		18%	97.3%	57.5%	12,019						
2	Coal		0					0	0	0	0	N/A	N/A
3	Gas-G		9,913					116,811	1,020	119,147	497,634	5.02	4.26
4	Gas-S												
5	Oil-S												
6	Crist 5	75		48.6%	99.6%	63.6%	12,083						
7	Coal		0					0	0	0	0	N/A	N/A
8	Gas-G		27,095					320,969	1,020	327,388	1,111,175	4.10	3.46
9	Gas-S												
10	Oil-S												
11	Crist 6	314		56.3%	97.4%	58.3%	10,930						
12	Coal		0					0	0	0	0	N/A	N/A
13	Gas-G		131,540					1,409,538	1,020	1,437,729	4,235,981	3.22	3.01
14	Gas-S												
15	Oil-S												
16	Crist 7	500		67.3%	98.9%	68.3%	10,637						
17	Coal		0					0	0	0	0	N/A	N/A
18	Gas-G		250,466					2,611,972	1,020	2,664,211	7,849,565	3.13	3.01
19	Gas-S												
20	Oil-S												
21	Smith 3	627	433,381	92.9%	99.3%	94.4%	6,994						
22	Gas-G							2,971,634	1,020	3,031,067	10,587,633	2.44	3.56
23	Smith A	32	0	0.0%	98.4%	0.0%	N/A						
24	Oil-G							846	139,400	4,951	77,888	N/A	92.10
25	Scherer 3	216	118,624	73.9%	98.8%	74.9%	10,587						
26	Coal							74,725	8,403	1,255,873	3,258,490	2.75	N/A
27	Oil												
28	Other Generation		5,712										
29	Gas										156,223	2.73	N/A
30	Perdido		2,097										
31	Landfill Gas										74,402	3.55	N/A
32	Blue Indigo	75	19,512	35.0%									
33	Solar										0	0.00	N/A
34	Daniel 1	251	66,590	35.7%	98.3%	48.8%	11,054						
35	Coal							40,244	9,145	736,081	2,184,532	3.28	54.28
36	Oil-S												
37	Daniel 2	251	90,654	48.5%	96.6%	55.4%	11,039						
38	Coal							54,713	9,145	1,000,730	2,969,954	3.28	54.28
39	Oil-S							0	0	0	0		
40	Gas,BL												
41	Gas							0	0	0	0	N/A	N/A
42	Ltr. Oil												
43	Oil							830	139,400	4,859	73,783	N/A	88.90
44	Total	2,416	1,155,584	64.3	95.4%	0.7	9,379			10,582,036	33,077,260	2.86	

Notes:
(1) Smith A uses lighter oil
(2) Represents Gulf's 25% ownership
(3) Represents Gulf's 50% ownership

Recoverable Fuel **33,077,260** **2.86**

Schedule E-4

GULF POWER COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE MONTH OF: AUGUST 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Plant/Unit & Fuel Type	Net Cap. (MW)	Net Gen. (MWh)	Cap. Factor (%)	Equiv. Avail. Factor (%)	Net Output Factor (%)	Avg. Net Heat Rate (Btu/kWh)	Fuel Burned Units (Tons/MCF/Bbl)	Fuel Heat Value (lbs./cf/Gal.)	Fuel Burned (MMBtu)	Fuel Burned Cost ($)	Fuel Cost/kWh (¢/kWh)	Fuel Cost/Unit ($/Unit)
1	Crist 4	75		26%	97.3%	56.9%	12,073						
2	Coal		0					0	0	0	0	N/A	N/A
3	Gas-G		14,777					174,899	1,020	178,397	674,361	4.56	3.86
4	Gas-S												
5	Oil-S												
6	Crist 5	75		52.5%	99.9%	62.6%	12,203						
7	Coal		0					0	0	0	0	N/A	N/A
8	Gas-G		29,306					350,611	1,020	357,623	1,204,583	4.11	3.44
9	Gas-S												
10	Oil-S												
11	Crist 6	314		56.9%	97.4%	58.9%	10,925						
12	Coal		0					0	0	0	0	N/A	N/A
13	Gas-G		132,864					1,423,082	1,020	1,451,544	4,294,248	3.23	3.02
14	Gas-S												
15	Oil-S												
16	Crist 7	500		67.2%	99.2%	68.2%	10,639						
17	Coal		0					0	0	0	0	N/A	N/A
18	Gas-G		250,074					2,608,374	1,020	2,660,541	7,870,944	3.15	3.02
19	Gas-S												
20	Oil-S												
21	Smith 3	627	421,592	90.4%	99.3%	95.2%	7,022						
22	Gas-G							2,902,370	1,020	2,960,417	10,435,494	2.48	3.60
23	Smith A	32	64	0.3%	98.3%	0.1%	0						
24	Oil-G							0	0	0	0	0.00	N/A
25	Scherer 3	216	117,745	73.4%	98.8%	74.7%	10,482						
26	Coal							73,441	8,403	1,234,198	3,203,759	2.72	N/A
27	Oil												
28	Other Generation		5,712										
29	Gas										156,223	2.73	N/A
30	Perdido		2,097										
31	Landfill Gas										74,402	3.55	N/A
32	Blue Indigo	75	18,386	32.9%									
33	Solar										0	0.00	N/A
34	Daniel 1	251	90,394	48.4%	98.3%	49.3%	11,037						
35	Coal							54,692	9,121	997,674	2,955,756	3.27	54.04
36	Oil-S												
37	Daniel 2	251	95,570	51.2%	96.9%	55.5%	10,857						
38	Coal							56,881	9,121	1,037,605	3,074,059	3.22	54.04
39	Oil-S							0	0	0	0		
40	Gas,BL												
41	Gas							0	0	0	0	N/A	N/A
42	Ltr. Oil												
43	Oil							830	139,400	4,859	73,747	N/A	88.85
44	Total	2,416	1,178,581	65.6	95.5%	0.7	9,444			10,882,858	34,017,576	2.89	

Notes:
(1) Smith A uses lighter oil
(2) Represents Gulf's 25% ownership
(3) Represents Gulf's 50% ownership

Recoverable Fuel **34,017,576** **2.89**

Schedule E-4

GULF POWER COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE MONTH OF: SEPTEMBER 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Plant/Unit & Fuel Type	Net Cap. (MW)	Net Gen. (MWh)	Cap. Factor (%)	Equiv. Avail. Factor (%)	Net Output Factor (%)	Avg. Net Heat Rate (Btu/kWh)	Fuel Burned Units (Tons/MCF/Bbl)	Fuel Heat Value (lbs./cf/Gal.)	Fuel Burned (MMBtu)	Fuel Burned Cost ($)	Fuel Cost/kWh (¢/kWh)	Fuel Cost/Unit ($/Unit)
1	Crist 4	75		54%	96.8%	57.2%	12,046						
2	Coal		0					0	0	0	0	N/A	N/A
3	Gas-G		29,292					345,931	1,020	352,850	1,180,723	4.03	3.41
4	Gas-S												
5	Oil-S												
6	Crist 5	75		53.2%	99.9%	61.4%	12,378						
7	Coal		0					0	0	0	0	N/A	N/A
8	Gas-G		28,720					348,527	1,020	355,498	1,188,520	4.14	3.41
9	Gas-S												
10	Oil-S												
11	Crist 6	314		7.1%	58.8%	53.5%	10,973						
12	Coal		0					0	0	0	0	N/A	N/A
13	Gas-G		16,130					173,525	1,020	176,995	521,109	3.23	3.00
14	Gas-S												
15	Oil-S												
16	Crist 7	500		6.5%	59.0%	48.7%	11,195						
17	Coal		0					0	0	0	0	N/A	N/A
18	Gas-G		23,372					256,514	1,020	261,644	770,332	3.30	3.00
19	Gas-S												
20	Oil-S												
21	Smith 3	627	235,913	52.2%	56.3%	94.3%	6,951						
22	Gas-G							1,607,677	1,020	1,639,831	6,784,238	2.88	4.22
23	Smith A	32	128	0.6%	98.5%	0.1%	0						
24	Oil-G							0	0	0	0	0.00	N/A
25	Scherer 3	216	109,265	70.3%	98.8%	71.3%	10,659						
26	Coal							69,307	8,402	1,164,653	3,023,748	2.77	N/A
27	Oil												
28	Other Generation		5,528										
29	Gas										151,191	2.74	N/A
30	Perdido		2,031										
31	Landfill Gas										72,060	3.55	N/A
32	Blue Indigo	75	16,506	30.6%									
33	Solar										0	0.00	N/A
34	Daniel 1	251	23,325	12.9%	80.0%	50.5%	10,999						
35	Coal							14,099	9,098	256,552	758,869	3.25	53.82
36	Oil-S												
37	Daniel 2	251	87,339	48.3%	97.5%	50.6%	10,994						
38	Coal							52,767	9,098	960,205	2,840,248	3.25	53.83
39	Oil-S							0	0	0	0		
40	Gas,BL												
41	Gas							0	0	0	0	N/A	N/A
42	Ltr. Oil												
43	Oil							830	139,400	4,859	73,721	N/A	88.82
44	Total	2,416	577,549	33.2	69.1%	0.6	9,346			5,173,087	17,364,759	3.01	

Notes:
(1) Smith A uses lighter oil
(2) Represents Gulf's 25% ownership
(3) Represents Gulf's 50% ownership

Recoverable Fuel **17,364,759** **3.01**

Schedule E-4

GULF POWER COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE MONTH OF: OCTOBER 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Plant/Unit & Fuel Type	Net Cap. (MW)	Net Gen. (MWh)	Cap. Factor (%)	Equiv. Avail. Factor (%)	Net Output Factor (%)	Avg. Net Heat Rate (Btu/kWh)	Fuel Burned Units (Tons/MCF/Bbl)	Fuel Heat Value (lbs./cf/Gal.)	Fuel Burned (MMBtu)	Fuel Burned Cost ($)	Fuel Cost/kWh (¢/kWh)	Fuel Cost/Unit ($/Unit)
1	Crist 4	75		7%	96.1%	56.0%	12,170						
2	Coal		0					0	0	0	0	N/A	N/A
3	Gas-G		4,032					48,107	1,020	49,069	292,253	7.25	6.08
4	Gas-S												
5	Oil-S												
6	Crist 5	75		0.0%	99.9%	0.0%	0						
7	Coal		0					0	0	0	0	N/A	N/A
8	Gas-G		0					0	0	0	146,591	N/A	N/A
9	Gas-S												
10	Oil-S												
11	Crist 6	314		45.0%	91.3%	53.5%	10,973						
12	Coal		0					0	0	0	0	N/A	N/A
13	Gas-G		105,022					1,129,814	1,020	1,152,410	3,420,929	3.26	3.03
14	Gas-S												
15	Oil-S												
16	Crist 7	500		0.0%	70.8%	0.0%	-						
17	Coal		0					0	0	0	0	N/A	N/A
18	Gas-G		0					0	0	0	0	N/A	N/A
19	Gas-S												
20	Oil-S												
21	Smith 3	651	404,428	83.5%	89.8%	93.8%	6,763						
22	Gas-G							2,681,515	1,020	2,735,145	9,858,025	2.44	3.68
23	Smith A	36	0	0.0%	98.4%	0.0%	N/A						
24	Oil-G							0	0	0	0	N/A	N/A
25	Scherer 3	216	87,675	54.6%	98.7%	62.3%	10,668						
26	Coal							55,655	8,403	935,319	2,428,212	2.77	N/A
27	Oil												
28	Other Generation		5,712										
29	Gas										156,223	2.73	N/A
30	Perdido		2,097										
31	Landfill Gas										74,402	3.55	N/A
32	Blue Indigo	75	15,970	28.6%									
33	Solar										0	0.00	N/A
34	Daniel 1	251	0	0.0%	0.0%	0.0%	N/A						
35	Coal							0	0	0	0	N/A	N/A
36	Oil-S												
37	Daniel 2	251	65,569	35.1%	97.4%	45.4%	11,177						
38	Coal							40,554	9,036	732,867	2,147,251	3.27	52.95
39	Oil-S							0	0	0	0		
40	Gas,BL												
41	Gas							0	0	0	0	N/A	N/A
42	Ltr. Oil												
43	Oil							521	139,400	3,052	46,411	N/A	89.08
44	Total	2,444	690,505	38.0	76.3%	0.4	8,411			5,607,862	18,570,297	2.69	

Notes:
(1) Smith A uses lighter oil
(2) Represents Gulf's 25% ownership
(3) Represents Gulf's 50% ownership

Recoverable Fuel **18,570,297** **2.69**

GULF POWER COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE MONTH OF: NOVEMBER 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Plant/Unit & Fuel Type	Net Cap. (MW)	Net Gen. (MWh)	Cap. Factor (%)	Equiv. Avail. Factor (%)	Net Output Factor (%)	Avg. Net Heat Rate (Btu/kWh)	Fuel Burned Units (Tons/MCF/Bbl)	Fuel Heat Value (lbs./cf/Gal.)	Fuel Burned (MMBtu)	Fuel Burned Cost ($)	Fuel Cost/kWh (¢/kWh)	Fuel Cost/Unit ($/Unit)
1	Crist 4	75		0%	100.0%	0.0%	0						
2	Coal		0					0	0	0	0	N/A	N/A
3	Gas-G		0					0	0	0	141,863	N/A	N/A
4	Gas-S												
5	Oil-S												
6	Crist 5	75		0.0%	99.9%	0.0%	0						
7	Coal		0					0	0	0	0	N/A	N/A
8	Gas-G		0					0	0	0	141,863	N/A	N/A
9	Gas-S												
10	Oil-S												
11	Crist 6	314		14.2%	97.6%	53.5%	10,973						
12	Coal		0					0	0	0	0	N/A	N/A
13	Gas-G		32,092					345,241	1,020	352,146	1,067,425	3.33	3.09
14	Gas-S												
15	Oil-S												
16	Crist 7	500		33.4%	100.0%	45.3%	10,653						
17	Coal		0					0	0	0	0	N/A	N/A
18	Gas-G		120,190					1,255,280	1,020	1,280,386	3,881,106	3.23	3.09
19	Gas-S												
20	Oil-S												
21	Smith 3	651	388,629	82.9%	92.8%	92.0%	7,043						
22	Gas-G							2,683,448	1,020	2,737,117	8,666,886	2.23	3.23
23	Smith A	36	0	0.0%	98.3%	0.0%	N/A						
24	Oil-G							0	0	0	0	N/A	N/A
25	Scherer 3	216	58,809	37.9%	98.6%	49.2%	10,820						
26	Coal							37,861	8,403	636,311	1,651,726	2.81	N/A
27	Oil												
28	Other Generation		5,528										
29	Gas										151,191	2.74	N/A
30	Perdido		2,031										
31	Landfill Gas										72,060	3.55	N/A
32	Blue Indigo	75	12,516	23.2%									
33	Solar										0	0.00	N/A
34	Daniel 1	251	0	0.0%	0.0%	0.0%	N/A						
35	Coal							0	0	0	0	N/A	N/A
36	Oil-S												
37	Daniel 2	251	0	0.0%	81.3%	0.0%	N/A						
38	Coal							0	0	0	0	N/A	N/A
39	Oil-S							0	0	0	0		
40	Gas,BL												
41	Gas							0	0	0	0	N/A	N/A
42	Ltr. Oil												
43	Oil							67	139,400	395	6,281	N/A	93.75
44	Total	2,444	619,795	35.2	82.4%	0.4	8,348			5,006,355	15,780,401	2.55	

Notes:
(1) Smith A uses lighter oil
(2) Represents Gulf's 25% ownership
(3) Represents Gulf's 50% ownership

Recoverable Fuel **15,780,401** **2.55**

Schedule E-4

GULF POWER COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE MONTH OF: DECEMBER 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Plant/Unit & Fuel Type	Net Cap. (MW)	Net Gen. (MWh)	Cap. Factor (%)	Equiv. Avail. Factor (%)	Net Output Factor (%)	Avg. Net Heat Rate (Btu/kWh)	Fuel Burned Units (Tons/MCF/Bbl)	Fuel Heat Value (lbs./cf/Gal.)	Fuel Burned (MMBtu)	Fuel Burned Cost ($)	Fuel Cost/kWh (¢/kWh)	Fuel Cost/Unit ($/Unit)
1	Crist 4	75		0%	100.0%	0.0%	0						
2	Coal		0					0	0	0	0	N/A	N/A
3	Gas-G		0					0	0	0	146,591	N/A	N/A
4	Gas-S												
5	Oil-S												
6	Crist 5	75		0.0%	99.9%	0.0%	0						
7	Coal		0					0	0	0	0	N/A	N/A
8	Gas-G		0					0	0	0	146,591	N/A	N/A
9	Gas-S												
10	Oil-S												
11	Crist 6	314		43.2%	97.4%	53.5%	10,973						
12	Coal		0					0	0	0	0	N/A	N/A
13	Gas-G		100,981					1,086,336	1,020	1,108,063	3,541,369	3.51	3.26
14	Gas-S												
15	Oil-S												
16	Crist 7	500		8.7%	95.7%	45.2%	11,345						
17	Coal		0					0	0	0	0	N/A	N/A
18	Gas-G		32,318					359,459	1,020	366,648	1,171,807	3.63	3.26
19	Gas-S												
20	Oil-S												
21	Smith 3	661	398,370	81.0%	99.3%	89.0%	6,872						
22	Gas-G							2,683,919	1,020	2,737,597	9,164,861	2.30	3.41
23	Smith A	40	0	0.0%	98.1%	0.0%	N/A						
24	Oil-G							0	0	0	0	N/A	N/A
25	Scherer 3	216	95,375	59.4%	98.7%	65.0%	10,621						
26	Coal							60,280	8,402	1,012,981	2,629,976	2.76	N/A
27	Oil												
28	Other Generation		5,712										
29	Gas										156,223	2.73	N/A
30	Perdido		2,097										
31	Landfill Gas										74,402	3.55	N/A
32	Blue Indigo	75	9,900	17.7%									
33	Solar										0	0.00	N/A
34	Daniel 1	251	0	0.0%	64.5%	0.0%	N/A						
35	Coal							0	0	0	0	N/A	N/A
36	Oil-S												
37	Daniel 2	251	58,594	31.4%	97.6%	39.2%	11,453						
38	Coal							36,686	9,146	671,079	2,000,980	3.41	54.54
39	Oil-S							0	0	0	0		
40	Gas,BL												
41	Gas							0	0	0	0	N/A	N/A
42	Ltr. Oil												
43	Oil							521	139,400	3,052	46,406	N/A	89.07
44	Total	2,458	703,347	38.5	91.5%	0.5	8,604			5,899,420	19,079,206	2.71	

Notes:
(1) Smith A uses lighter oil
(2) Represents Gulf's 25% ownership
(3) Represents Gulf's 50% ownership

Recoverable Fuel **19,079,206** **2.71**

GULF POWER COMPANY
SYSTEM NET GENERATION AND FUEL COST
ESTIMATED FOR THE MONTH OF: JANUARY - DECEMBER 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Plant/Unit & Fuel Type	Net Cap. (MW)	Net Gen. (MWh)	Cap. Factor (%)	Equiv. Avail. Factor (%)	Net Output Factor (%)	Avg. Net Heat Rate (Btu/kWh)	Fuel Burned Units (Tons/MCF/Bbl)	Fuel Heat Value (lbs./cf/Gal.)	Fuel Burned (MMBtu)	Fuel Burned Cost ($)	Fuel Cost/kWh (¢/kWh)	Fuel Cost/Unit ($/Unit)
1	Crist 4	75		17.6%	96.3%	57.2%	12,048						
2	Coal		0					0	0	0	0	N/A	N/A
3	Gas-G		115,623					1,365,676	510	1,392,990	5,799,793	5.02	4.25
4	Gas-S												
5	Oil-S												
6	Crist 5	75		20.1%	96.3%	60.6%	12,262						
7	Coal		0					0	0	0	0	N/A	N/A
8	Gas-G		132,454					1,592,362	595	1,624,209	6,655,936	5.03	4.18
9	Gas-S												
10	Oil-S												
11	Crist 6	307		28.5%	78.6%	56.5%	10,957						
12	Coal		248,901					123,013	4,594	2,731,191	9,250,081	3.72	75.20
13	Gas-G		518,629					5,567,536	510	5,678,887	17,081,061	3.29	3.07
14	Gas-S												
15	Oil-S												
16	Crist 7	488		34.0%	78.5%	64.7%	10,584						
17	Coal		779,895					369,464	5,501	8,180,125	28,025,367	3.59	75.85
18	Gas-G		676,420					7,091,599	425	7,233,430	21,543,754	3.18	3.04
19	Gas-S												
20	Oil-S												
21	Smith 3	646	4,491,250	79.2%	89.9%	92.2%	6,900	0		0	0		
22	Gas-G							30,383,011	1,020	30,990,671	108,113,557	2.41	3.56
23	Smith A	36	416	0.1%	98.2%	0.1%	11,901				0		
24	Oil-G							846	11,617	4,951	77,888	18.72	92.10
25	Scherer 3	216	1,100,802	58.1%	96.8%	66.4%	10,616						
26	Coal		0					695,139	8,406	11,686,144	30,287,890	2.75	43.57
27	Oil												
28	Other Generation		67,440										
29	Gas									0	1,844,483	2.73	N/A
30	Perdido		24,765										
31	Landfill Gas									0	1,002,739	4.05	N/A
32	Blue Indigo	75	191,099	29.0%									
33	Solar									0	0	0.00	N/A
34	Daniel 1	251	424,387	19.2%	72.0%	42.2%	11,404						
35	Coal		0					262,926	6,911	4,839,778	14,401,801	3.39	54.78
36	Oil-S												
37	Daniel 2	251	602,263	27.3%	84.7%	47.5%	11,058			0			
38	Coal		0					363,576	7,652	6,659,529	19,762,936	3.28	54.36
39	Oil-S												
40	Gas,BL												
41	Gas							323,532	510	330,000	1,006,938	N/A	3.11
42	Ltr. Oil												
43	Oil							9,202	139,400	53,873	819,942	N/A	89.10
44	Total	2,418	9,374,344	44.1	82.1%	63.7%	8,955			81,405,778	265,674,166	2.83	

Notes:
(1) Smith A uses lighter oil
(2) Represents Gulf's 25% ownership
(3) Represents Gulf's 50% ownership

Recoverable Fuel **265,674,166** **2.83**

GULF POWER COMPANY
SYSTEM GENERATED FUEL COST INVENTORY ANALYSIS

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1)	(3) (4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
Line No.	Description	January Estimated	February Estimated	March Estimated	April Estimated	May Estimated	June Estimated	July Estimated	August Estimated	September Estimated	October Estimated	November Estimated	December Estimated	12 Month Period
	LIGHT OIL													
1	*PURCHASES :*													
2	UNITS (BBL)	1,021	1,021	567	970	1,021	1,021	833	833	833	518	71	524	9,233
3	UNIT COST ($/BBL)	76.61	76.61	67.22	78.44	76.61	76.61	84.42	84.42	84.42	82.59	42.00	82.10	78.72
4	AMOUNT ($)	78,212	78,212	38,126	76,060	78,212	78,212	70,321	70,321	70,321	42,793	2,967	43,054	726,811
5	*BURNED :*													
6	UNITS (BBL)	1,018	1,018	564	967	1,018	1,018	830	830	830	521	67	521	9,202
7	UNIT COST ($/BBL)	89.41	89.25	89.43	89.07	89.00	88.94	88.90	88.85	88.82	89.08	93.75	89.07	89.10
8	AMOUNT ($)	91,023	90,858	50,439	86,130	90,604	90,539	73,783	73,747	73,721	46,411	6,281	46,406	819,942
9	*ENDING INVENTORY :*													
10	UNITS (BBL)	6,860	6,863	6,866	6,869	6,871	6,874	6,877	6,880	6,883	6,881	6,884	6,888	
11	UNIT COST ($/BBL)	85.61	83.74	81.90	80.41	78.57	76.74	76.21	75.67	75.15	74.65	74.13	73.61	
12	AMOUNT ($)	587,304	574,658	562,345	552,275	539,883	527,556	524,094	520,668	517,268	513,650	510,336	506,984	
13	DAYS SUPPLY:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	COAL(EXCLUDING SCHERER)													
14	*PURCHASES :*													
15	UNITS (TONS)	173,000	126,000	66,000	70,000	115,552	245,137	70,000	70,000	70,000	64,000	52,000	44,000	1,165,689
16	UNIT COST ($/TON)	72.23	72.60	69.93	64.34	64.83	65.44	61.38	61.38	61.38	58.72	69.38	72.96	66.71
17	AMOUNT ($)	12,495,559	9,147,346	4,615,546	4,503,563	7,490,931	16,042,464	4,296,511	4,296,511	4,296,511	3,757,840	3,607,617	3,210,429	77,760,828
18	*BURNED :*													
19	UNITS (TONS)	165,742	123,179	43,696	48,610	121,960	265,156	94,957	111,573	66,866	40,554	0	36,686	1,118,979
20	UNIT COST ($/TON)	65.88	69.51	62.88	62.38	75.72	67.93	54.28	54.04	53.83	52.95	0.00	54.54	63.84
21	AMOUNT ($)	10,919,496	8,562,187	2,747,654	3,032,400	9,234,243	18,012,556	5,154,486	6,029,815	3,599,117	2,147,251	0	2,000,980	71,440,185
22	*ENDING INVENTORY :*													
23	UNITS (TONS)	526,469	529,290	551,594	572,984	566,576	546,557	521,600	480,027	483,161	506,607	558,607	565,921	
24	UNIT COST ($/TON)	64.42	65.19	65.94	66.04	63.71	62.44	63.78	65.70	66.71	66.81	67.05	68.32	
25	AMOUNT ($)	33,917,035	34,502,194	36,370,086	37,841,249	36,097,937	34,127,845	33,269,870	31,536,566	32,233,960	33,844,549	37,452,166	38,661,615	
26	DAYS SUPPLY:	33	33	35	36	35	34	33	30	30	32	35	35	

(1) Data excludes Gulf's CT in Santa Rosa County because MCF and MMBtus are not available due to contract specifications.

GULF POWER COMPANY
SYSTEM GENERATED FUEL COST INVENTORY ANALYSIS

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1) Line No.	(3) (4) Description	(5) January Estimated	(6) February Estimated	(7) March Estimated	(8) April Estimated	(9) May Estimated	(10) June Estimated	(11) July Estimated	(12) August Estimated	(13) September Estimated	(14) October Estimated	(15) November Estimated	(16) December Estimated	(17) 12 Month Period
	COAL at Plant Scherer													
27	*PURCHASES :*													
28	UNITS (MMBTU	963,210	807,013	653,142	859,455	1,050,351	1,001,475	1,275,799	1,167,259	1,103,991	885,335	804,587	935,418	11,507,035
29	UNIT COST ($/MMBT	2.60	2.59	2.59	2.59	2.60	2.60	2.60	2.60	2.60	2.60	2.59	2.60	2.60
30	AMOUNT ($)	2,501,113	2,094,016	1,693,533	2,229,991	2,729,322	2,601,427	3,315,356	3,033,314	2,867,441	2,298,091	2,087,601	2,430,017	29,881,222
31	*BURNED :*													
32	UNITS (MMBTU	1,087,333	1,087,333	1,087,333	1,087,333	1,087,333	1,087,333	1,087,333	1,087,333	1,087,333	1,087,333	1,087,333	1,087,333	13,047,996
33	UNIT COST ($/MMBT	2.58	1.66	1.58	2.06	2.48	2.60	3.00	2.95	2.78	2.23	1.52	2.42	2.32
34	AMOUNT ($)	2,806,024	1,801,255	1,715,578	2,241,265	2,701,149	2,826,708	3,258,490	3,203,759	3,023,748	2,428,212	1,651,726	2,629,976	30,287,890
35	*ENDING INVENTORY :*													
36	UNITS (MMBTU	2,562,544	2,282,224	1,848,033	1,620,155	1,583,173	1,497,315	1,685,781	1,765,707	1,782,365	1,580,367	1,297,621	1,145,706	
37	UNIT COST ($/MMBT	2.61	3.06	3.77	4.29	4.41	4.51	4.04	3.76	3.64	4.02	5.23	5.75	
38	AMOUNT ($)	6,693,785	6,986,546	6,964,501	6,953,227	6,981,400	6,756,119	6,812,985	6,642,540	6,486,233	6,356,112	6,791,987	6,592,028	
39	DAYS SUPPLY:	48	43	34	30	30	28	31	33	33	29	24	21	
	GAS (1)													
40	*BURNED :*													
41	UNITS (MMBtu)	3,032,930	2,733,429	2,485,208	2,458,870	2,879,227	3,167,060	7,579,542	7,608,522	2,786,818	3,936,624	4,369,649	4,212,308	47,250,187
42	UNIT COST ($/MMBt	3.48	3.46	3.42	3.73	3.61	3.52	3.20	3.22	3.75	3.48	3.18	3.36	3.39
43	AMOUNT ($)	10,561,539	9,445,404	8,495,245	9,162,093	10,382,432	11,159,626	24,281,988	24,479,630	10,444,922	13,717,798	13,899,143	14,171,219	160,201,039
	OTHER - C.T. OIL													
44	*PURCHASES :*													
45	UNITS (BBL)	0	0	0	0	0	0	846	0	0	0	0	0	846
46	UNIT COST ($/BBL)	0.00	0.00	0.00	0.00	0.00	0.00	88.11	0.00	0.00	0.00	0.00	0.00	88.08
47	AMOUNT ($)	0	0	0	0	0	0	74,518	0	0	0	0	0	74,518
48	*BURNED :*													
49	UNITS (BBL)	0.00	0.00	0.00	0.00	0.00	0.00	845.69	0.00	0	0.00	0.00	0.00	846
50	UNIT COST ($/BBL)	0.00	0.00	0.00	0.00	0.00	0.00	92.10	0.00	0.00	0.00	0.00	0.00	92.07
51	AMOUNT ($)	0	0	0	0	0	0	77,888	0	0	0	0	0	77,888
52	*ENDING INVENTORY :*													
53	UNITS (BBL)	6,376	6,376	6,376	6,376	6,376	6,376	6,376	6,376	6,376	6,376	6,376	6,376	
54	UNIT COST ($/BBL)	92.69	92.69	92.69	92.69	92.69	92.69	92.16	92.16	92.16	92.16	92.16	92.16	
55	AMOUNT ($)	590,980	590,980	590,980	590,980	590,980	590,980	587,610	587,610	587,610	587,610	587,610	587,610	
56	HOURS SUPPLY:	72	72	72	72	72	72	72	72	72	72	72	72	

(1) Data excludes Gulf's CT in Santa Rosa County because MCF and MMBtus are not available due to contract specifications.

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GULF POWER COMPANY
POWER SOLD

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1)	(2)	(3)	(4)	(6)	(7)	(8)	(9)	(10)
					¢ / kWh			
Line No.	Month	Type	Total KWH Sold	KWH From Own Generation	Fuel Costs	Total Costs	Total $ for Fuel Adjustment	Total Cost ($)
	JANUARY							
1		Southern Co. Interchange	545,135,000	545,135,000	2.43	2.81	13,220,914	15,332,424
2		Economy Sales	8,724,000	8,724,000	2.48	2.84	216,423	247,570
3		Gain on Economy Sales	0	0	0.00	0.00	23,000	23,000
4		TOTAL ESTIMATED SALES	553,859,000	553,859,000	2.43	2.82	13,460,337	15,602,994
	FEBRUARY							
5		Southern Co. Interchange	417,195,000	417,195,000	2.30	2.62	9,594,623	10,923,138
6		Economy Sales	13,169,000	13,169,000	2.41	2.69	316,752	353,872
7		Gain on Economy Sales	0	0	0.00	0.00	21,000	21,000
8		TOTAL ESTIMATED SALES	430,364,000	430,364,000	2.31	2.63	9,932,375	11,298,010
	MARCH							
9		Southern Co. Interchange	439,905,000	439,905,000	2.33	2.69	10,242,137	11,836,196
10		Economy Sales	10,921,000	10,921,000	2.55	2.94	278,367	320,738
11		Gain on Economy Sales	0	0	0.00	0.00	14,000	14,000
12		TOTAL ESTIMATED SALES	450,826,000	450,826,000	2.34	2.70	10,534,504	12,170,934
	APRIL							
13		Southern Co. Interchange	217,917,000	217,917,000	2.28	2.60	4,967,375	5,670,760
14		Economy Sales	8,184,000	8,184,000	2.47	2.78	202,116	227,645
15		Gain on Economy Sales	0	0	0.00	0.00	8,000	8,000
16		TOTAL ESTIMATED SALES	226,101,000	226,101,000	2.29	2.61	5,177,491	5,906,405
	MAY							
17		Southern Co. Interchange	454,023,000	454,023,000	2.26	2.59	10,251,501	11,746,474
18		Economy Sales	6,751,000	6,751,000	2.40	2.72	162,146	183,898
19		Gain on Economy Sales	0	0	0.00	0.00	14,000	14,000
20		TOTAL ESTIMATED SALES	460,774,000	460,774,000	2.26	2.59	10,427,647	11,944,372
	JUNE							
21		Southern Co. Interchange	585,898,000	585,898,000	2.44	2.83	14,310,710	16,562,390
22		Economy Sales	7,829,000	7,829,000	2.72	3.02	213,177	236,140
23		Gain on Economy Sales	0	0	0.00	0.00	24,000	24,000
24		TOTAL ESTIMATED SALES	593,727,000	593,727,000	2.45	2.83	14,547,887	16,822,530

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GULF POWER COMPANY
POWER SOLD

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1)	(2)	(3)	(4)	(6)	(7)	(8)	(9)	(10)
Line No.	Month	Type	Total KWH Sold	KWH From Own Generation	¢ / kWh Costs	¢ / kWh Costs	Total $ for Fuel Adjustment	Total Cost ($)
	JULY							
1		Southern Co. Interchange	593,112,000	593,112,000	2.62	2.96	15,511,736	17,585,460
2		Economy Sales	8,426,000	8,426,000	2.93	3.23	246,617	271,992
3		Gain on Economy Sales	0	0	0.00	0.00	29,000	29,000
4		TOTAL ESTIMATED SALES	601,538,000	601,538,000	2.62	2.97	15,787,353	17,886,452
	AUGUST							
5		Southern Co. Interchange	626,694,000	626,694,000	2.65	3.00	16,585,532	18,824,789
6		Economy Sales	10,418,000	10,418,000	2.95	3.26	307,312	339,314
7		Gain on Economy Sales	0	0	0.00	0.00	30,000	30,000
8		TOTAL ESTIMATED SALES	637,112,000	637,112,000	2.66	3.01	16,922,844	19,194,103
	SEPTEMBER							
9		Southern Co. Interchange	223,468,000	223,468,000	2.35	2.70	5,255,292	6,042,556
10		Economy Sales	7,998,000	7,998,000	2.81	3.11	224,513	248,539
11		Gain on Economy Sales	0	0	0.00	0.00	20,000	20,000
12		TOTAL ESTIMATED SALES	231,466,000	231,466,000	2.38	2.73	5,499,805	6,311,095
	OCTOBER							
13		Southern Co. Interchange	234,349,000	234,349,000	2.10	2.46	4,917,683	5,767,293
14		Economy Sales	9,400,000	9,400,000	2.36	2.72	222,099	255,752
15		Gain on Economy Sales	0	0	0.00	0.00	10,000	10,000
16		TOTAL ESTIMATED SALES	243,749,000	243,749,000	2.11	2.48	5,149,782	6,033,045
	NOVEMBER							
17		Southern Co. Interchange	497,322,000	497,322,000	2.11	2.39	10,485,194	11,890,038
18		Economy Sales	7,339,000	7,339,000	2.35	2.62	172,181	192,196
19		Gain on Economy Sales	0	0	0.00	0.00	12,000	12,000
20		TOTAL ESTIMATED SALES	504,661,000	504,661,000	2.11	2.40	10,669,375	12,094,234
	DECEMBER							
21		Southern Co. Interchange	462,875,000	462,875,000	2.34	2.71	10,843,879	12,550,232
22		Economy Sales	10,328,000	10,328,000	2.47	2.82	255,345	291,715
23		Gain on Economy Sales	0	0	0.00	0.00	18,000	18,000
24		TOTAL ESTIMATED SALES	473,203,000	473,203,000	2.35	2.72	11,117,224	12,859,947
	TOTAL							
25		Southern Co. Interchange	5,297,893,000	5,297,893,000	2.38	2.73	126,186,576	144,731,750
26		Economy Sales	109,487,000	109,487,000	2.57	2.89	2,817,048	3,169,371
27		Gain on Economy Sales	0	0	0.00	0.00	223,000	223,000
28		TOTAL ESTIMATED SALES	5,407,380,000	5,407,380,000	2.39	2.74	129,226,624	148,124,121

SCHEDULE E-7

PURCHASED POWER
GULF POWER COMPANY
(EXCLUSIVE OF ECONOMY ENERGY PURCHASES)

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Line No.	Month	Purchased From	Type & Schedule	Total KWH Purchased	KWH for Other Utilities	KWH for Interruptible	KWH for Firm	¢ / kWh Fuel Cost	¢ / kWh Total Cost	Total $ for Fuel Adj
1	January	NONE								
2	February	NONE								
3	March	NONE								
4	April	NONE								
5	May	NONE								
6	June	NONE								
7	July	NONE								
8	August	NONE								
9	September	NONE								
10	October	NONE								
11	November	NONE								
12	December	NONE								
13	Total	NONE								

SCHEDULE E-8

GULF POWER COMPANY
ENERGY PAYMENT TO QUALIFYING FACILITIES

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Line No.	Month	Purchased From	Type & Schedule	Total KWH Purchased	KWH for Other Utilities	KWH for Interruptible	KWH for Firm	¢ / kWh Fuel Cost	¢ / kWh Total Cost	Total $ for Fuel Adj
1	JANUARY		COG-1	0			None	0	0.00	0
2	FEBRUARY		COG-1	0			None	0	0.00	0
3	MARCH		COG-1	0			None	0	0.00	0
4	APRIL		COG-1	0			None	0	0.00	0
5	MAY		COG-1	0			None	0	0.00	0
6	JUNE		COG-1	0			None	0	0.00	0
7	JULY		COG-1	0			None	0	0.00	0
8	AUGUST		COG-1	0			None	0	0.00	0
9	SEPTEMBER		COG-1	0			None	0	0.00	0
10	OCTOBER		COG-1	0			None	0	0.00	0
11	NOVEMBER		COG-1	0			None	0	0.00	0
12	DECEMBER		COG-1	0			None	0	0.00	0
13	TOTAL			0			0	0.00	0.00	0

GULF POWER COMPANY
ECONOMY ENERGY PURCHASES

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1)	(2)	(3)	(4)	(5)	(6)
Line No.	Month	Type & Schedule	Total KWH Purchased	Transaction Cost ¢ / kWh	Total $ for Fuel Adj.
	JANUARY				
1		Southern Co. Interchange	7,738,000	2.05	158,822
2		Economy Energy	3,242,000	2.89	93,810
3		Other Purchases	619,432,000	2.89	17,895,000
4		TOTAL ESTIMATED PURCHASES	630,412,000	2.88	18,147,632
	FEBRUARY				
5		Southern Co. Interchange	9,034,000	1.96	177,065
6		Economy Energy	3,769,000	2.83	106,513
7		Other Purchases	525,165,000	2.89	15,180,000
8		TOTAL ESTIMATED PURCHASES	537,968,000	2.87	15,463,578
	MARCH				
9		Southern Co. Interchange	9,398,000	3.19	300,190
10		Economy Energy	4,983,000	3.08	153,623
11		Other Purchases	695,230,000	2.89	20,122,000
12		TOTAL ESTIMATED PURCHASES	709,611,000	2.90	20,575,813
	APRIL				
13		Southern Co. Interchange	54,318,000	2.71	1,472,877
14		Economy Energy	3,754,000	2.70	101,446
15		Other Purchases	419,682,000	3.28	13,769,000
16		TOTAL ESTIMATED PURCHASES	477,754,000	3.21	15,343,323
	MAY				
17		Southern Co. Interchange	11,163,000	2.80	313,027
18		Economy Energy	3,369,000	2.69	90,731
19		Other Purchases	675,418,000	2.70	18,262,000
20		TOTAL ESTIMATED PURCHASES	689,950,000	2.71	18,665,758
	JUNE				
21		Southern Co. Interchange	1,602,000	2.38	38,172
22		Economy Energy	4,863,000	3.02	147,036
23		Other Purchases	667,652,000	2.81	18,736,000
24		TOTAL ESTIMATED PURCHASES	674,117,000	2.81	18,921,208

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GULF POWER COMPANY
ECONOMY ENERGY PURCHASES

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1) Line No.	(2) Month	(3) Type & Schedule	(4) Total KWH Purchased	(5) Transaction Cost ¢ / kWh	(6) Total $ for Fuel Adj.
	JULY				
1		Southern Co. Interchange	51,000	2.28	1,165
2		Economy Energy	5,087,000	3.31	168,226
3		Other Purchases	689,062,000	2.73	18,816,000
4		TOTAL ESTIMATED PURCHASES	694,200,000	2.73	18,985,391
	AUGUST				
5		Southern Co. Interchange	590,000	2.65	15,660
6		Economy Energy	5,117,000	3.20	163,721
7		Other Purchases	690,073,000	2.75	18,994,000
8		TOTAL ESTIMATED PURCHASES	695,780,000	2.76	19,173,381
	SEPTEMBER				
9		Southern Co. Interchange	31,914,000	3.26	1,040,931
10		Economy Energy	5,084,000	3.22	163,854
11		Other Purchases	674,181,000	2.76	18,640,000
12		TOTAL ESTIMATED PURCHASES	711,179,000	2.79	19,844,785
	OCTOBER				
13		Southern Co. Interchange	32,540,000	2.92	950,405
14		Economy Energy	3,928,000	2.56	100,552
15		Other Purchases	405,838,000	3.20	12,969,000
16		TOTAL ESTIMATED PURCHASES	442,306,000	3.17	14,019,957
	NOVEMBER				
17		Southern Co. Interchange	269,000	2.78	7,481
18		Economy Energy	4,485,000	2.68	120,217
19		Other Purchases	652,986,000	2.88	18,787,000
20		TOTAL ESTIMATED PURCHASES	657,740,000	2.88	18,914,698
	DECEMBER				
21		Southern Co. Interchange	1,384,000	2.53	34,953
22		Economy Energy	4,414,000	3.01	132,928
23		Other Purchases	634,180,000	2.86	18,146,000
24		TOTAL ESTIMATED PURCHASES	639,978,000	2.86	18,313,881
	TOTAL FOR PERIOD				
25		Southern Co. Interchange	160,001,000	2.82	4,510,748
26		Economy Energy	52,095,000	2.96	1,542,657
27		Other Purchases	7,348,899,000	2.86	210,316,000
28		TOTAL ESTIMATED PURCHASES	7,560,995,000	2.86	216,369,405

SCHEDULE E-10

GULF POWER COMPANY
RESIDENTIAL BILL COMPARISON
FOR MONTHLY USAGE OF 1,000 kWh

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1)	(2)	(3)	(4)	(5)	(6)
Line No.	Bill Component	Current Approved 2019 ($/1,000 kWh)	Proposed 2020 ($/1,000 kWh)	Difference from Current ($)	Difference from Current (%)
1	Base Rate	$ 68.06	$ 68.06	$ -	0.0%
2	Fuel Cost Recovery	30.47	32.62	2.15	7.1%
3	Capacity Cost Recovery	7.76	8.78	1.02	13.1%
4	Energy Conservation Cost Recovery	1.25	0.60	(0.65)	-52.0%
5	Environmental Cost Recovery	18.10	18.97	0.87	4.8%
6	Storm	8.00	8.00	-	0.0%
7	Subtotal	$ 133.64	$ 137.03	$ 3.39	2.5%
8	Gross Receipts Tax	3.43	3.52	0.09	2.6%
9	Total	$ 137.07	$ 140.55	$ 3.48	2.5%

SCHEDULE E-11

GULF POWER COMPANY
ESTIMATED AS-AVAILABLE AVOIDED ENERGY COST

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2022

Year: 2020	
Month	Total ¢ / kWh
JANUARY	2.536
FEBRUARY	2.536
MARCH	2.536
APRIL	2.768
MAY	2.768
JUNE	2.768
JULY	2.768
AUGUST	2.768
SEPTEMBER	2.768
OCTOBER	2.768
NOVEMBER	2.536
DECEMBER	2.536

Schedule H-1
Page 1 of 2

GULF POWER COMPANY
GENERATING SYSTEM COMPARATIVE DATA BY FUEL TYPE

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1)	(2) (3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
						% Change		
LINE	LINE DESCRIPTION	2017	2018	2019	2020	2018	2019	2019 to 2020
	FUEL COST OF SYSTEM NET GENERATION ($)							
1	LIGHTER OIL (B.L.)	735,886	882,162	1,001,330	819,942	19.88	13.51	(18.11)
2	COAL	140,114,416	113,947,937	125,761,821	71,440,185	(18.68)	10.37	(43.19)
2a	COAL at Scherer	17,121,552	34,571,593	23,282,891	30,287,890	101.92	(32.65)	30.09
2b	Flint Credit	0	(8,297,183)	(5,587,895)	0	(100.00)	(32.65)	(100.00)
3	GAS-Generation	109,160,533	113,385,721	105,577,111	159,194,101	3.87	(6.89)	50.78
4	GAS (B.L.)	4,156,086	4,195,667	462,391	1,006,938	0.95	(88.98)	117.77
5	LANDFILL GAS	774,446	835,811	740,970	1,002,739	7.92	(11.35)	35.33
6	OTHER - C.T.	0	155,064	21,960	77,888	100.00	(85.84)	254.68
7	OTHER GENERATION	2,514,497	2,902,925	2,390,125	1,844,483	15.45	(17.66)	(22.83)
8	TOTAL ($)	274,577,416	262,579,697	253,650,704	265,674,166	(4.37)	(3.40)	4.74
	SYSTEM NET GENERATION (MWh)							
9	COAL	4,450,261	3,584,903	3,792,741	2,055,446	(19.45)	5.80	(45.81)
9a	COAL at Scherer	798,738	1,353,538	873,821	1,100,802	69.46	(35.44)	25.98
9b	Flint Credit	0	(324,848)	(209,718)	0	(100.00)	(35.44)	(100.00)
10	GAS	3,997,684	4,031,809	4,197,515	5,934,376	0.85	4.11	41.38
11	LANDFILL GAS	24,719	24,699	24,699	24,765	(0.08)	0.00	0.27
12	OTHER - C.T.	0	672	96	416	100.00	(85.71)	333.33
13	OTHER GENERATION	81,428	81,360	81,352	67,440	(0.08)	(0.01)	(17.10)
14	Solar	0	0	0	191,099	0.00	0.00	100.00
15	TOTAL (MWH)	9,352,830	8,752,133	8,760,506	9,374,344	(6.42)	0.10	7.01
	UNITS OF FUEL BURNED							
16	LIGHTER OIL (BBL)	10,947	12,482	10,297	9,202	14.02	(17.50)	(10.63)
17	COAL excl. Scherer (TON)	2,081,172	1,849,633	1,903,268	1,118,979	(11.13)	2.90	(41.21)
18	GAS (MCF)	27,121,109	27,650,559	28,470,077	46,323,716	1.95	2.96	62.71
19	OTHER - C.T. (BBL)	0	1,605	231	846	100.00	(85.61)	266.23
	BTUS BURNED (MMBtu)							
20	COAL + GAS B.L. + OIL B.L.	53,815,132	51,302,066	48,882,204	34,480,640	(4.67)	(4.72)	(29.46)
21	GAS - Generation	27,663,531	27,993,569	28,889,477	46,920,187	1.19	3.20	62.41
22	OTHER - C.T.	0	9,402	1,350	4,951	100.00	(85.64)	266.74
23	TOTAL (MMBtu)	81,478,663	79,305,037	77,773,031	81,405,778	(2.67)	(1.93)	4.67
	GENERATION MIX (% MWh)							
24	COAL + GAS B.L. + OIL B.L.	56.12	52.71	50.87	33.67	(6.08)	(3.49)	(33.81)
25	GAS - Generation	42.74	46.07	47.92	63.30	7.79	4.02	32.10
26	LANDFILL GAS	0.26	0.28	0.28	0.26	7.69	0.00	(7.14)
27	OTHER - C.T.	0.00	0.01	0.00	0.00	100.00	(100.00)	0.00
28	OTHER GENERATION	0.87	0.93	0.93	0.72	6.90	0.00	(22.58)
29	Solar	0.00	0.00	0.00	2.04	0.00	0.00	100.00
30	TOTAL (% MWH)	100.00	100.00	100.00	100.00	0.00	0.00	0.00

GULF POWER COMPANY
GENERATING SYSTEM COMPARATIVE DATA BY FUEL TYPE

PROPOSED FOR THE PERIOD: JANUARY 2020 - DECEMBER 2020

(1)	(2) (3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
						% Change		
LINE	LINE DESCRIPTION	2017	2018	2019	2020	2018	2019	2019 to 2020
	FUEL COST PER UNIT							
31	LIGHTER OIL B.L. ($/BBL)	97.25	70.68	97.25	89.10	(27.32)	37.59	(8.38)
32	COAL ($/TON)	66.08	61.61	66.08	63.84	(6.76)	7.26	(3.39)
33	GAS +B.L. ($/MCF)	3.72	4.25	3.72	3.46	14.25	(12.47)	(6.99)
34	OTHER - C.T.	95.06	96.61	95.06	92.07	1.63	(1.60)	(3.15)
	FUEL COST ($ / MMBtu)							
35	COAL + GAS B.L. + OIL B.L.	2.96	2.83	2.96	3.00	(4.39)	4.59	1.35
36	GAS - Generation	3.65	4.05	3.65	3.39	10.96	(9.88)	(7.12)
37	OTHER - C.T.	16.27	16.49	16.27	15.73	1.35	(1.33)	(3.32)
38	TOTAL ($/MMBtu)	3.22	3.26	3.22	3.23	1.24	(1.23)	0.31
	BTU BURNED (Btu / kWh)							
39	COAL + GAS B.L. + OIL B.L.	10,968	11,120	10,968	10,925	1.39	(1.37)	(0.39)
40	GAS - Generation	6,883	6,943	6,883	7,907	0.87	(0.86)	14.88
41	OTHER - C.T.	18,750	13,991	14,063	11,901	(25.38)	0.51	(15.37)
42	TOTAL (Btu/kWh)	8,987	9,172	8,986	8,770	2.06	(2.03)	(2.40)
	FUEL COST (¢ / kWh)							
43	COAL + GAS B.L. + OIL B.L.	3.09	3.15	3.25	3.28	1.94	3.17	0.92
44	GAS - Generation	2.73	2.81	2.52	2.68	2.93	(10.32)	6.35
45	LANDFILL GAS	3.13	3.38	3.00	4.05	7.99	(11.24)	35.00
46	OTHER - C.T.	0.00	23.08	22.88	18.72	100.00	(0.87)	(18.18)
47	OTHER GENERATION	3.09	3.57	2.94	2.73	15.53	(17.65)	(7.14)
48	TOTAL (¢ / kWh)	2.94	3.00	2.90	2.83	2.04	(3.33)	(2.41)

Schedule CCE-1

Projected Purchased Power Capacity Payments / (Receipts)
Gulf Power Company

TO BE INCLUDED IN THE PERIOD JANUARY 2020 - DECEMBER 2020

Line No.	Line Descritpiton	January Projection	February Projection	March Projection	April Projection	May Projection	June Projection	July Projection	August Projection	September Projection	October Projection	November Projection	December Projection	TOTAL
1	Projected IIC Payments / (Receipts)	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Other Capacity Payments / (Receipts)	7,162,992	7,162,992	7,162,992	7,162,992	7,162,992	7,162,992	7,148,252	7,148,252	7,148,252	7,148,252	7,148,252	7,148,252	85,867,467
3	Projected Transmission Revenue	(500)	(500)	(500)	(500)	(500)	(500)	(500)	(500)	(500)	(500)	(500)	(500)	(6,000)
4	Total Projected Capacity Payments / (Receipts)	7,162,492	7,162,492	7,162,492	7,162,492	7,162,492	7,162,492	7,147,752	7,147,752	7,147,752	7,147,752	7,147,752	7,147,752	85,861,467
6	Jurisdictional %	0.9723427	0.9723427	0.9723427	0.9723427	0.9723427	0.9723427	0.9723427	0.9723427	0.9723427	0.9723427	0.9723427	0.9723427	
7	Projected Jurisdictional Capacity Payments / (Receipts)	6,964,397	6,964,397	6,964,397	6,964,397	6,964,397	6,964,397	6,950,065	6,950,065	6,950,065	6,950,065	6,950,065	6,950,065	83,486,772
8	True-Up ($)													237,948
9	Total Jurisdictional Amount to be Recovered (Line 7 + Line 8) ($)													83,724,720
10	Revenue Tax Multiplier													1.00072
11	Total Recoverable Capacity Payments / (Receipts) (Line 9 x Line 10) ($)													83,785,002

Calculation of Jurisdictional % *

	12 CP KW	%
FPSC	1,892,069.55	97.23427%
FERC	53,817.94	2.76573%
Total	1,945,887.49	100.00000%

Schedule CCE-1A

GULF POWER COMPANY
PURCHASED POWER CAPACITY COST RECOVERY CLAUSE
CALCULATION OF TRUE-UP

TO BE INCLUDED IN THE PERIOD JANUARY 2020 - DECEMBER 2020

1.	Estimated over/(under)-recovery, January 2019 - December 2019 (Schedule CCE-1B, Line 16 + Line 19)	(622,746)
2.	Final over/(under)-recovery, January 2018 - December 2018 (Exhibit CSB-1, Schedule CCA-1)	384,798
3.	Total over/(under)-recovery (Line 1 + 2) (To be included in January 2020 - December 2020)	($237,948)
4.	Jurisdictional kWh sales, January 2020 - December 2020	10,951,029,000
5.	True-up factor (Line 3 / Line 4) x 100 (¢/kWh)	0.0022

SCHEDULE CCE-1B

GULF POWER COMPANY
PURCHASED POWER CAPACITY COST RECOVERY CLAUSE
CALCULATION OF ESTIMATED TRUE-UP AMOUNT
ACTUAL FOR THE PERIOD JANUARY 2019 - JUNE 2019 / ESTIMATED FOR JULY 2019 - DECEMBER 2019

Line No.	Line Descritpiton	January Actual	February Actual	March Actual	April Actual	May Actual	June Actual	July Projection	August Projection	September Projection	October Projection	November Projection	December Projection	TOTAL
1	IIC Payments/(Receipts)	24,045	16,194	(2,995)	(3,628)	(2,995)	(2,995)	0	0	0	0	0	0	27,626
2	Other Capacity Payments / (Receipts)	7,161,383	7,181,450	7,181,449	7,181,449	7,266,193	7,198,831	7,163,330	7,163,330	7,163,330	7,163,330	7,163,330	7,163,330	86,150,733
3	Transmission Revenue	(726)	(541)	(541)	(681)	(151)	(311)	(500)	(500)	(500)	(500)	(500)	(500)	(5,951)
4	Scherer/Flint Credit	(682,078)	(610,980)	(589,922)	(533,987)	(720,007)	(651,768)	(775,216)	(798,886)	(851,222)	(857,561)	(866,108)	(785,065)	(8,722,800)
5	Total Net Capacity Payments/(Receipts)	6,502,624	6,586,123	6,587,991	6,643,153	6,543,040	6,543,757	6,387,614	6,363,944	6,311,608	6,305,269	6,296,722	6,377,765	77,449,608
6	Jurisdictional %	0.9718277	0.9718277	0.9718277	0.9718277	0.9718277	0.9718277	0.9718277	0.9718277	0.9718277	0.9718277	0.9718277	0.9718277	
7	Jurisdictional Capacity Payments/(Receipts)	6,319,430	6,400,577	6,402,392	6,456,000	6,358,708	6,359,404	6,207,660	6,184,657	6,133,795	6,127,635	6,119,329	6,198,089	75,267,676
8	Retail KWH Sales							1,182,325,000	1,171,710,000	1,004,542,000	848,931,000	731,492,000	827,032,000	
9	Purchased Power Capacity Cost Recovery Factor (¢/KWH)							0.672	0.672	0.672	0.672	0.672	0.672	
10	Capacity Cost Recovery Revenues	5,699,684	4,374,885	4,856,216	4,880,950	6,633,211	7,475,622	7,945,224	7,873,891	6,750,522	5,704,816	4,915,626	5,557,655	72,668,302
11	Revenue Taxes (Line 10 x .00072)	4,104	3,150	3,496	3,514	4,776	5,382	5,721	5,669	4,860	4,107	3,539	4,002	52,320
12	True-Up Provision	169,499	169,501	169,501	169,501	169,501	169,501	169,501	169,501	169,501	169,501	169,501	169,501	2,034,010
13	Capacity Cost Recovery Revenues (net of Revenue Taxes)	5,865,079	4,541,236	5,022,220	5,046,937	6,797,936	7,639,741	8,109,004	8,037,723	6,915,163	5,870,210	5,081,588	5,723,154	74,649,992
14	Over/(Under) Recovery	(454,351)	(1,859,341)	(1,380,172)	(1,409,063)	439,228	1,280,337	1,901,344	1,853,066	781,368	(257,425)	(1,037,741)	(474,935)	(617,685)
15	Interest Provision	4,241	1,576	(2,044)	(5,256)	(6,483)	(4,996)	(2,182)	1,115	3,336	3,521	1,948	163	(5,061)
16	Total Estimated True-Up for the Period													(622,746)
17	Beginning Balance True-Up & Interest Provision	2,418,808	1,799,199	(228,067)	(1,779,784)	(3,363,604)	(3,100,360)	(1,994,520)	(264,859)	1,419,821	2,035,024	1,611,619	406,325	2,418,808
18	True-Up Collected/(Refunded)	(169,499)	(169,501)	(169,501)	(169,501)	(169,501)	(169,501)	(169,501)	(169,501)	(169,501)	(169,501)	(169,501)	(169,501)	(2,034,010)
19	Adjustment	0	0	0	0	0	0	0	0	0	0	0	0	0
20	End of Period TOTAL Net True-Up	1,799,199	(228,067)	(1,779,784)	(3,363,604)	(3,100,360)	(1,994,520)	(264,859)	1,419,821	2,035,024	1,611,619	406,325	(237,948)	(237,948)

Gulf Power Company
Calculation of Purchased Power Capacity Cost Recovery Factors

TO BE INCLUDED IN THE PERIOD JANUARY 2020 - DECEMBER 2020

Line No.	Rate Class	A Average 12 CP Load Factor at Meter	B Projected KWH Sales at Meter	C Projected Avg 12 CP KW at Meter	D Demand Loss Expansion Factor	E Energy Loss Expansion Factor	F Projected KWH Sales at Generation	G Projected Avg 12 CP KW at Generation	H Percentage of KWH Sales at Generation	I Percentage of 12 CP KW Demand at Generation
1	RS, RSVP, RSTOU	58.270328%	5,468,715,000	1,068,429	1.00609343	1.00559591	5,499,317,437	1,074,939	50.22061%	57.87765%
2	GS	57.224449%	302,467,000	60,173	1.00608241	1.00559477	304,159,233	60,539	2.77763%	3.25960%
3	GSD, GSDT, GSTOU	74.102156%	2,428,641,000	373,113	1.00590017	1.00544671	2,441,869,103	375,314	22.29953%	20.20794%
4	LP, LPT	85.094449%	879,247,000	117,630	0.98747379	0.99210885	872,308,730	116,156	7.96606%	6.25417%
5	PX, PXT, RTP, SBS	84.969370%	1,720,313,000	230,490	0.96884429	0.97666479	1,680,169,135	223,309	15.34356%	12.02358%
6	OS - I / II	767.743332%	104,803,000	1,554	1.00619545	1.00560119	105,390,022	1,564	0.96244%	0.08419%
7	OS-III	98.645916%	46,843,000	5,406	1.00617773	1.00558881	47,104,797	5,439	0.43017%	0.29287%
9	TOTAL		10,951,029,000	1,856,795			10,950,318,457	1,857,261	100.00000%	100.00000%

Notes:
Col A - Average 12 CP load factor at meterbased on actual 2018 load research data.
Col C - 8,784 is the number of hours in 12 months

Gulf Power Company
Calculation of Purchased Power Capacity Cost Recovery Factors

TO BE INCLUDED IN THE PERIOD JANUARY 2020 - DECEMBER 2020

		A	B	C	D	E	F	G	H	I
Line No.	Rate Class	Percentage of KWH Sales at Generation	Percentage of 12 CP KW Demand at Generation	Energy-Related Costs	Demand-Related Costs	Total Capacity Costs	Projected KWH Sales at Meter	Cost Recovery Factors	Projected KW at Meter	Costs Recovery Factors
1	RS, RSVP, RSTOU	50.22061%	57.87765%	3,236,719	44,762,575	47,999,294	5,468,715,000	0.878		
2	GS	2.77763%	3.25960%	179,018	2,520,975	2,699,993	302,467,000	0.893		
3	GSD, GSDT, GSTOU	22.29953%	20.20794%	1,437,205	15,628,821	17,066,026	2,428,641,000	0.703		
4	LP, LPT	7.96606%	6.25417%	513,413	4,836,975	5,350,388	879,247,000	0.000	1,835,156	2.92
5	PX, PXT, RTP, SBS	15.34356%	12.02358%	988,892	9,299,037	10,287,929	1,720,313,000	0.598		
6	OS - I / II	0.96244%	0.08419%	62,029	65,113	127,142	104,803,000	0.121		
7	OS-III	0.43017%	0.29287%	27,724	226,506	254,230	46,843,000	0.543		
9	TOTAL	100.00000%	100.00000%	$6,445,000	$77,340,002	$83,785,002	10,951,029,000	0.765	1,835,156	2.92

SCHEDULE CCE-4

Gulf Power Company
Projected 2020 Capacity Contracts

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
	Contract/Counterparty	Term Start	Term End [1]	Contract Type									
1	**Southern Intercompany Interchange**	**5/1/2007**	**5 Yr Notice**	**SES Opco**									
2	***PPAs***												
3	**Shell Energy N.A. (U.S.), LP**	**11/2/2009**	**5/31/2023**	**Firm**									
4	***Other***												
5	**South Carolina PSA**	**9/1/2003**	**-**	**Other**									

	Capacity Costs Description	January Projection	February Projection	March Projection	April Projection	May Projection	June Projection	July Projection	August Projection	September Projection	October Projection	November Projection	December Projection	TOTAL
9	Southern Intercompany Interchange	0	0	0	0	0	0	0	0	0	0	0	0	0
10	*PPAs*													
11	Shell Energy N.A. (U.S.), LP													
12	*Other*													
13	South Carolina PSA													
14	Total	7,162,992	7,162,992	7,162,992	7,162,992	7,162,992	7,162,992	7,148,252	7,148,252	7,148,252	7,148,252	7,148,252	7,148,252	85,867,467

	Capacity MW Description	January Projection	February Projection	March Projection	April Projection	May Projection	June Projection	July Projection	August Projection	September Projection	October Projection	November Projection	December Projection
15	Southern Intercompany Interchange	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	*PPAs*												
17	Shell Energy N.A. (U.S.), LP	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0	885.0
18	*Other*												
19	South Carolina PSA												

20 (1) Unless otherwise noted, contract remains effective unless terminated upon 30 days prior written notice.

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

FUEL AND PURCHASED POWER COST RECOVERY CLAUSE

Docket No. 20190001-EI

PREPARED DIRECT TESTIMONY AND EXHIBIT OF

C. L. NICHOLSON

GENERATING PERFORMANCE INCENTIVE FACTOR TARGETS FOR

JANUARY 2020 – DECEMBER 2020

SEPTEMBER 3, 2019

Gulf Power®

GULF POWER COMPANY

Before the Florida Public Service Commission
Direct Testimony and Exhibit of
C. L. Nicholson
Docket No. 20190001-EI
Date of Filing: September 3, 2019

Q. Please state your name, address, and occupation.

A. My name is Cody L. Nicholson. My business address is One Energy Place, Pensacola, Florida 32520-0335. My current job position is Senior Power Generation Division Technical Services Specialist for Gulf Power Company.

Q. Please describe your educational and business background.

A. I received my Bachelor of Science degree in Mechanical Engineering from Auburn University in 1998. I joined Southern Company with Alabama Power in 1996 as a summer intern. Upon graduation in 1998, I joined Southern Company Services (SCS), a subsidiary of Southern Company. During my time at SCS, I worked in the Farley Project department as well as Generating Plant Performance (GPP), where I progressed through various engineering positions with increasing responsibilities. My primary responsibility in the Farley Project was to coordinate design changes to Plant Farley. My primary responsibility in GPP was to conduct heat rate tests and performance tests on plant equipment. I joined Southern Nuclear Operating Company (SNC) in 2011. At SNC, my primary responsibility was to coordinate responses to requests from the U. S. Nuclear Regulatory Commission for various projects. I joined SCS in

2014 as a Performance and Reliability Engineer, where my primary responsibility was to report key performance indicators on a monthly basis. I joined Gulf Power in 2015 in my current job position as Senior Power Generation Division Technical Services Specialist as previously mentioned in my testimony. In this position, I am responsible for preparing all Generating Performance Incentive Factor (GPIF) filings as well as other generating plant reliability and heat rate performance reporting for Gulf Power Company.

Q. What is the purpose of your testimony in this proceeding?

A. The purpose of my testimony is to present GPIF targets for Gulf Power Company for the period of January 1, 2020 through December 31, 2020.

Q. Have you prepared an exhibit that contains information to which you will refer in your testimony?

A. Yes. I have prepared one exhibit entitled CLN-2 consisting of three schedules.

Q. Was this exhibit prepared by you or under your direction and supervision?

A. Yes, it was.

Counsel: We ask that Mr. Nicholson's exhibit consisting of three schedules be marked for identification as Exhibit___(CLN-2).

Q. Which units does Gulf propose to include under the GPIF for the subject period?

A. We propose that Crist Unit 7, Daniel Units 1 and 2, Smith Unit 3, and Scherer Unit 3 be included as the Company's GPIF units. The projected net generation from these units is approximately 88% of Gulf's projected net generation for 2020.

Q. For these units, what are the target heat rates Gulf proposes to use in the GPIF for these units for the performance period January 1, 2020 through December 31, 2020?

A. I would like to refer you to page 26 of Schedule 1 of my exhibit where these targets are listed.

Q. How were these proposed target heat rates determined?

A. They were determined according to the GPIF Implementation Manual procedures for Gulf.

Q. Describe how the targets were determined for Gulf's proposed GPIF units.

A. Page 2 of Schedule 1 of my exhibit shows the target average net operating heat rate equations for the proposed GPIF units and pages 4 through 23 of Schedule 1 contain the weekly historical data used for the statistical development of these equations. Pages 24 and 25 of Schedule 1 present the calculations that provide the unit target heat rates from the target equations.

Q. Were the maximum and minimum attainable heat rates for each proposed GPIF unit indicated on page 26 of Schedule 1 of your exhibit calculated according to the appropriate GPIF Implementation Manual procedures?

A. Yes.

Q. What are the proposed target, maximum, and minimum equivalent availabilities for Gulf's units?

A. The target, maximum, and minimum equivalent availabilities are listed on page 4 of Schedule 2 of my exhibit.

Q. How were the target equivalent availabilities determined?

A. The target equivalent availabilities were determined according to the standard GPIF Implementation Manual procedures for Gulf and are presented on page 2 of Schedule 2 of my exhibit.

Q. How were the maximum and minimum attainable equivalent availabilities determined for each unit?

A. The maximum and minimum attainable equivalent availabilities, which are presented along with their respective target availabilities on page 4 of Schedule 2 of my exhibit, were determined per GPIF Implementation Manual procedures for Gulf.

Q. Mr. Nicholson, has Gulf completed the GPIF minimum filing requirements data package?

A. Yes, we have completed the minimum filing requirements data package. Schedule 3 of my exhibit contains this information.

Q. Mr. Nicholson, would you please summarize your testimony?

A. Yes. Gulf asks that the Commission accept:

1. Crist Unit 7, Daniel Units 1 and 2, Smith Unit 3, and Scherer Unit 3 for inclusion under the GPIF for the period of January 1, 2020 through December 31, 2020.
2. The target, maximum attainable, and minimum attainable average net operating heat rates, as proposed by the Company and as shown on page 26 of Schedule 1 and also on page 5 of Schedule 3 of my exhibit.
3. The target, maximum attainable, and minimum attainable equivalent availabilities, as proposed by the Company and as shown on page 4 of Schedule 2 and also on page 5 of Schedule 3 of my exhibit.
4. The weekly average net operating heat rate least squares regression equations, shown on page 2 of Schedule 1 and on pages 17 through 26 of Schedule 3 of my exhibit, for use in adjusting the annual actual unit heat rates to target conditions.

Q. Mr. Nicholson, does this conclude your testimony?

A. Yes.

AFFIDAVIT

STATE OF FLORIDA)
)
COUNTY OF ESCAMBIA)

Docket No. 20190001-EI

Before me, the undersigned authority, personally appeared Cody Nicholson, who being first duly sworn, deposes and says that he is the Senior Power Generation Division Technical Services Specialist of Gulf Power Company, a Florida corporation, that the foregoing is true and correct to the best of his knowledge and belief. He is personally known to me.

Cody Nicholson
Senior Power Generation Division Technical Services Specialist

Sworn to and subscribed before me this 30th day of August, 2019.

Melissa Darnes
Notary Public, State of Florida at Large

NOTARY PUBLIC STATE OF FLORIDA
MELISSA DARNES
MY COMMISSION # FF 912698
EXPIRES: December 17, 2019
Bonded Thru Budget Notary Services

EXHIBIT TO THE TESTIMONY OF

C. L. NICHOLSON

IN FPSC DOCKET 20190001-EI

I. DETERMINATION OF HEAT RATE TARGETS

Target Heat Rate Equations

Scherer 3 ANOHR = 10^6 / AKW * [606.47 - 82.01 * FEB - 83.21 * MAR + 61.69 * APR + 58.15 * JUN + 70.05 * JUL + 82.11 * SEP
+ 9,540

Crist 7 ANOHR = 10^6 / AKW * [472.40 - 98.31 * JAN - 105.00 * FEB - 75.12 * MAR - 128.98 * APR - 86.23 * MAY
+ 9,255

Daniel 1 ANOHR = 10^6 / AKW * [513.64 + 53.71 * JAN + 90.24 * MAR - 77.10 * OCT - 78.86 * NOV]
+ 8,476 + 0.00192 * LSRF / AKW

Daniel 2 ANOHR = 10^6 / AKW * [398.23 - 174.36 * FEB - 127.75 * MAR - 64.08 * MAY + 49.83 * JUL]
+ 9,428

Smith 3 ANOHR = 10^6 / AKW * [-105.54 - 40.39 * FEB + 72.63 * JUL + 91.40 * AUG + 46.84 * SEP - 61.62 * OCT + 104.67 * NOV]
+ 7,448 - 0.00067 * LSRF / AKW

Where:

ANOHR	= Average Net Operating Heat Rate, BTU/KWH
AKW	= Average Kilowatt Load, KW
LSRF	= Load Square Range Factor, KW^2
BTU/LB	= Coal Burned Average Heat Content, BTU/LB
JAN	= January, 0 if not January, 1 if January
FEB	= February, 0 if not February, 1 if February
MAR	= March, 0 if not March, 1 if March
APR	= April, 0 if not April, 1 if April
MAY	= May, 0 if not May, 1 if May
JUN	= June, 0 if not June, 1 if June
JUL	= July, 0 if not July, 1 if July
AUG	= August, 0 if not August, 1 if August
SEP	= September, 0 if not September, 1 if September
OCT	= October, 0 if not October, 1 if October
NOV	= November, 0 if not November, 1 if November

WEEKLY UNIT OPERATING

DATA USED TO DEVELOP

TARGET HEAT RATE EQUATIONS

Data Base for SCHERER 3 Target Heat Rate Equation

HtRt	HR	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
10464	168	622.70	452004	0	0	0	0	0	0	1	0	0	0	0	0	2016	JUL
10463	168	649.67	481799	0	0	0	0	0	0	1	0	0	0	0	0	2016	
10510	168	688.96	527888	0	0	0	0	0	0	1	0	0	0	0	0	2016	
10569	168	645.39	477569	0	0	0	0	0	0	1	0	0	0	0	0	2016	
10467	168	594.55	418359	0	0	0	0	0	0	0	1	0	0	0	0	2016	
10397	168	630.88	455151	0	0	0	0	0	0	0	1	0	0	0	0	2016	
10943	168	611.38	434091	0	0	0	0	0	0	0	1	0	0	0	0	2016	
10404	168	589.31	410942	0	0	0	0	0	0	0	1	0	0	0	0	2016	
10481	168	596.20	420400	0	0	0	0	0	0	0	1	0	0	0	0	2016	
10858	168	499.38	299985	0	0	0	0	0	0	0	0	1	0	0	0	2016	
10903	168	564.77	373119	0	0	0	0	0	0	0	0	1	0	0	0	2016	
10668	168	605.58	425357	0	0	0	0	0	0	0	0	1	0	0	0	2016	
10724	168	553.11	361242	0	0	0	0	0	0	0	0	1	0	0	0	2016	
10607	168	481.00	275758	0	0	0	0	0	0	0	0	0	1	0	0	2016	
10986	168	439.63	225362	0	0	0	0	0	0	0	0	0	1	0	0	2016	
10473	168	550.80	353989	0	0	0	0	0	0	0	0	0	1	0	0	2016	
10891	168	432.07	215026	0	0	0	0	0	0	0	0	0	1	0	0	2016	
10630	168	520.23	311013	0	0	0	0	0	0	0	0	0	1	0	0	2016	
11091	168	374.44	163179	0	0	0	0	0	0	0	0	0	0	1	0	2016	
11178	24	372.50	20952	0	0	0	0	0	0	0	0	0	0	1	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2016	
10869	99	385.20	104700	0	0	0	0	0	0	0	0	0	0	1	1	2016	
10293	168	498.59	289485	0	0	0	0	0	0	0	0	0	0	0	0	2016	
10024	168	668.42	496633	0	0	0	0	0	0	0	0	0	0	0	0	2016	
10208	168	557.81	353398	0	0	0	0	0	0	0	0	0	0	0	0	2016	
11030	168	324.56	108963	0	0	0	0	0	0	0	0	0	0	0	0	2016	
10810	168	502.96	294419	1	0	0	0	0	0	0	0	0	0	0	0	2017	JAN
10692	61	633.20	183594	1	0	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	1	0	0	0	0	0	0	0	0	0	0	0	2017	
12011	61	310.93	47121	1	0	0	0	0	0	0	0	0	0	0	1	2017	
11005	168	327.92	112314	0	1	0	0	0	0	0	0	0	0	0	0	2017	
10640	168	367.57	148123	0	1	0	0	0	0	0	0	0	0	0	0	2017	
10399	135	438.64	200293	0	1	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2017	
11207	88	369.89	85109	0	0	1	0	0	0	0	0	0	0	0	1	2017	
10422	167	575.50	382039	0	0	1	0	0	0	0	0	0	0	0	0	2017	
10518	143	500.85	243957	0	0	1	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017	
10752	54	598.91	181046	0	0	0	0	1	0	0	0	0	0	0	2	2017	
11086	168	458.18	260051	0	0	0	0	1	0	0	0	0	0	0	0	2017	
10725	168	546.34	356999	0	0	0	0	1	0	0	0	0	0	0	0	2017	
10835	158	473.81	267075	0	0	0	0	0	1	0	0	0	0	0	0	2017	
10461	168	591.22	414059	0	0	0	0	0	1	0	0	0	0	0	0	2017	
10722	168	497.67	303975	0	0	0	0	0	1	0	0	0	0	0	0	2017	
10825	144	483.65	291900	0	0	0	0	0	1	0	0	0	0	0	0	2017	
10610	168	572.56	394246	0	0	0	0	0	0	1	0	0	0	0	0	2017	JUL

Data Base for SCHERER 3 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
10540	168	624.90	458929	0	0	0	0	0	0	1	0	0	0	0	0	2017	
10560	168	628.99	462900	0	0	0	0	0	0	1	0	0	0	0	0	2017	
10585	146	601.40	397138	0	0	0	0	0	0	1	0	0	0	0	0	2017	
10579	168	573.29	390209	0	0	0	0	0	0	0	1	0	0	0	0	2017	
10574	168	533.36	343400	0	0	0	0	0	0	0	1	0	0	0	0	2017	
10446	168	663.76	498544	0	0	0	0	0	0	0	1	0	0	0	0	2017	
10300	168	622.20	453669	0	0	0	0	0	0	0	1	0	0	0	0	2017	
10444	168	539.07	346204	0	0	0	0	0	0	0	1	0	0	0	0	2017	
10861	168	501.85	307597	0	0	0	0	0	0	0	0	1	0	0	0	2017	
11309	168	412.66	207138	0	0	0	0	0	0	0	0	1	0	0	0	2017	
10594	168	671.29	507350	0	0	0	0	0	0	0	0	1	0	0	0	2017	
10659	168	628.32	456310	0	0	0	0	0	0	0	0	1	0	0	0	2017	
10948	168	471.89	270302	0	0	0	0	0	0	0	0	0	1	0	0	2017	
10746	168	581.77	394817	0	0	0	0	0	0	0	0	0	1	0	0	2017	
10800	168	479.40	271563	0	0	0	0	0	0	0	0	0	1	0	0	2017	
11401	168	371.80	155290	0	0	0	0	0	0	0	0	0	1	0	0	2017	
11022	168	390.80	178361	0	0	0	0	0	0	0	0	0	1	0	0	2017	
10253	168	531.51	319892	0	0	0	0	0	0	0	0	0	0	1	0	2017	
10448	168	475.33	256096	0	0	0	0	0	0	0	0	0	0	1	0	2017	
11065	168	332.02	117386	0	0	0	0	0	0	0	0	0	0	1	0	2017	
11736	94	356.05	81551	0	0	0	0	0	0	0	0	0	0	1	0	2017	
10786	66	521.97	136732	0	0	0	0	0	0	0	0	0	0	0	1	2017	
10828	168	483.17	285715	0	0	0	0	0	0	0	0	0	0	0	0	2017	
10802	71	501.66	125575	0	0	0	0	0	0	0	0	0	0	0	0	2017	
11338	139	394.18	157312	0	0	0	0	0	0	0	0	0	0	0	1	2017	
10296	165	831.41	701486	1	0	0	0	0	0	0	0	0	0	0	0	2018	
10703	168	518.92	337125	1	0	0	0	0	0	0	0	0	0	0	0	2018	
10576	168	549.14	365050	1	0	0	0	0	0	0	0	0	0	0	0	2018	
10850	168	409.38	198042	1	0	0	0	0	0	0	0	0	0	0	0	2018	
10850	168	440.92	235529	0	1	0	0	0	0	0	0	0	0	0	0	2018	
11136	168	347.60	132949	0	1	0	0	0	0	0	0	0	0	0	0	2018	
11471	168	309.68	97260	0	1	0	0	0	0	0	0	0	0	0	0	2018	
11306	168	345.13	138484	0	1	0	0	0	0	0	0	0	0	0	0	2018	
11017	120	424.55	162491	0	0	1	0	0	0	0	0	0	0	0	0	2018	
11102	163	339.98	122725	0	0	1	0	0	0	0	0	0	0	0	1	2018	
10848	168	370.59	157097	0	0	1	0	0	0	0	0	0	0	0	0	2018	
10876	168	360.14	147039	0	0	1	0	0	0	0	0	0	0	0	0	2018	
10998	168	372.71	161663	0	0	1	0	0	0	0	0	0	0	0	0	2018	
10811	168	467.73	261011	0	0	0	1	0	0	0	0	0	0	0	0	2018	
10626	168	556.36	360054	0	0	0	1	0	0	0	0	0	0	0	0	2018	
11147	168	421.34	205784	0	0	0	1	0	0	0	0	0	0	0	0	2018	
11308	168	400.76	183892	0	0	0	1	0	0	0	0	0	0	0	0	2018	
10845	119	490.01	209218	0	0	0	0	1	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2018	
10556	164	613.59	442514	0	0	0	0	1	0	0	0	0	0	0	1	2018	
10747	168	557.52	370465	0	0	0	0	1	0	0	0	0	0	0	0	2018	
10908	168	525.23	330384	0	0	0	0	1	0	0	0	0	0	0	0	2018	
10971	168	504.72	313957	0	0	0	0	0	1	0	0	0	0	0	0	2018	
10972	168	532.90	344199	0	0	0	0	0	1	0	0	0	0	0	0	2018	
10768	168	630.71	462274	0	0	0	0	0	1	0	0	0	0	0	0	2018	
11023	144	548.30	365833	0	0	0	0	0	1	0	0	0	0	0	0	2018	
10879	168	584.89	408202	0	0	0	0	0	0	1	0	0	0	0	0	2018	JUL
10817	168	596.44	420909	0	0	0	0	0	0	1	0	0	0	0	0	2018	
10808	168	613.71	438642	0	0	0	0	0	0	1	0	0	0	0	0	2018	

Data Base for SCHERER 3 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
10850	168	597.85	424515	0	0	0	0	0	0	1	0	0	0	0	0	2018	
10767	168	583.04	402835	0	0	0	0	0	0	0	1	0	0	0	0	2018	
10707	168	627.98	456600	0	0	0	0	0	0	0	1	0	0	0	0	2018	
10691	168	594.28	419929	0	0	0	0	0	0	0	1	0	0	0	0	2018	
10600	168	570.57	389647	0	0	0	0	0	0	0	1	0	0	0	0	2018	
10519	168	642.25	475036	0	0	0	0	0	0	0	1	0	0	0	0	2018	
10546	168	701.02	543561	0	0	0	0	0	0	0	0	1	0	0	0	2018	
10515	168	697.92	538222	0	0	0	0	0	0	0	0	1	0	0	0	2018	
10335	168	707.73	548644	0	0	0	0	0	0	0	0	1	0	0	0	2018	
10563	168	731.10	577202	0	0	0	0	0	0	0	0	1	0	0	0	2018	
10662	157	657.12	465458	0	0	0	0	0	0	0	0	0	1	0	0	2018	
11065	87	520.98	200316	0	0	0	0	0	0	0	0	0	1	0	1	2018	
10510	168	746.71	596887	0	0	0	0	0	0	0	0	0	1	0	0	2018	
10841	157	561.25	370782	0	0	0	0	0	0	0	0	0	1	0	0	2018	
10605	127	543.35	275153	0	0	0	0	0	0	0	0	0	1	0	1	2018	
10539	168	572.54	386175	0	0	0	0	0	0	0	0	0	0	1	0	2018	
10597	168	607.32	428322	0	0	0	0	0	0	0	0	0	0	1	0	2018	
10233	168	708.19	540908	0	0	0	0	0	0	0	0	0	0	1	0	2018	
10202	168	801.80	660266	0	0	0	0	0	0	0	0	0	0	1	0	2018	
10514	168	686.24	518104	0	0	0	0	0	0	0	0	0	0	0	0	2018	
10686	140	541.46	306465	0	0	0	0	0	0	0	0	0	0	0	0	2018	
11362	110	325.25	76951	0	0	0	0	0	0	0	0	0	0	0	1	2018	
11668	168	301.73	91094	0	0	0	0	0	0	0	0	0	0	0	0	2018	
11445	168	315.18	102532	1	0	0	0	0	0	0	0	0	0	0	0	2019	JAN
10796	168	430.40	222437	1	0	0	0	0	0	0	0	0	0	0	0	2019	
10641	168	479.54	269709	1	0	0	0	0	0	0	0	0	0	0	0	2019	
11374	168	338.59	127434	1	0	0	0	0	0	0	0	0	0	0	0	2019	
11356	72	327.89	50300	0	1	0	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2019	
11169	135	474.77	222476	0	0	0	1	0	0	0	0	0	0	0	1	2019	
11515	168	352.29	135699	0	0	0	1	0	0	0	0	0	0	0	0	2019	
11195	168	402.45	192136	0	0	0	1	0	0	0	0	0	0	0	0	2019	
10604	168	562.80	365523	0	0	0	0	1	0	0	0	0	0	0	0	2019	
10902	168	451.23	238371	0	0	0	0	1	0	0	0	0	0	0	0	2019	
10910	168	439.89	230139	0	0	0	0	1	0	0	0	0	0	0	0	2019	
10794	168	534.32	344824	0	0	0	0	1	0	0	0	0	0	0	0	2019	
10718	168	537.96	350536	0	0	0	0	1	0	0	0	0	0	0	0	2019	
11189	168	364.15	149577	0	0	0	0	0	1	0	0	0	0	0	0	2019	
11240	131	401.60	163433	0	0	0	0	0	1	0	0	0	0	0	1	2019	
11053	168	412.73	201750	0	0	0	0	0	1	0	0	0	0	0	0	2019	
11081	144	434.91	229195	0	0	0	0	0	1	0	0	0	0	0	0	2019	

HtRt	Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shut down 24 hours or more, in BTU/Kwh.
Hr	Number of hours the unit was synchronized during the week.
AMW	Average load on the unit, in MW.
LSRF	Load square range factor, in MW^2.
J to N	The number 1 indicates the month of the observation. All 0's indicate December.
NS	Number of start ups during the week after being shut down for 24 hours or more.
YR	The year of the observation.
*	Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

Data Base for CRIST 7 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
10471	168	347.30	135997	0	0	0	0	0	0	1	0	0	0	0	0	2016	JUL
10579	168	323.51	118984	0	0	0	0	0	0	1	0	0	0	0	0	2016	
10512	168	324.61	119648	0	0	0	0	0	0	1	0	0	0	0	0	2016	
10765	168	333.40	126683	0	0	0	0	0	0	1	0	0	0	0	0	2016	
10703	168	329.18	122299	0	0	0	0	0	0	0	1	0	0	0	0	2016	
10961	168	325.70	119952	0	0	0	0	0	0	0	1	0	0	0	0	2016	
11380	117	295.50	71273	0	0	0	0	0	0	0	1	0	0	0	0	2016	
10015	168	328.77	121809	0	0	0	0	0	0	0	1	0	0	0	0	2016	
10269	168	271.63	82270	0	0	0	0	0	0	0	0	1	0	0	0	2016	
10981	168	315.61	111387	0	0	0	0	0	0	0	0	1	0	0	0	2016	
10890	168	319.58	114900	0	0	0	0	0	0	0	0	1	0	0	0	2016	
10818	168	333.62	125227	0	0	0	0	0	0	0	0	1	0	0	0	2016	
10585	168	292.44	95407	0	0	0	0	0	0	0	0	0	1	0	0	2016	
10927	96	292.41	52056	0	0	0	0	0	0	0	0	0	1	0	0	2016	
10715	152	329.32	124293	0	0	0	0	0	0	0	0	0	1	0	1	2016	
10993	168	276.01	83774	0	0	0	0	0	0	0	0	0	1	0	0	2016	
10640	26	298.27	17035	0	0	0	0	0	0	0	0	0	1	0	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2016	
11101	117	247.28	49809	0	0	0	0	0	0	0	0	0	0	0	2	2016	
11161	168	263.46	70885	0	0	0	0	0	0	0	0	0	0	0	0	2016	
10593	168	348.84	130020	1	0	0	0	0	0	0	0	0	0	0	0	2017	JAN
10381	168	320.61	114972	1	0	0	0	0	0	0	0	0	0	0	0	2017	
10543	168	287.96	91765	1	0	0	0	0	0	0	0	0	0	0	0	2017	
10798	131	241.39	53791	1	0	0	0	0	0	0	0	0	0	0	1	2017	
10741	168	251.79	66146	0	1	0	0	0	0	0	0	0	0	0	0	2017	
10770	168	251.11	66653	0	1	0	0	0	0	0	0	0	0	0	0	2017	
10869	168	236.88	59526	0	1	0	0	0	0	0	0	0	0	0	0	2017	
10713	71	251.96	29434	0	1	0	0	0	0	0	0	0	0	0	0	2017	
11050	127	240.87	49970	0	0	1	0	0	0	0	0	0	0	0	1	2017	
10493	168	277.47	84728	0	0	1	0	0	0	0	0	0	0	0	0	2017	
10076	167	350.53	134495	0	0	1	0	0	0	0	0	0	0	0	0	2017	
10304	168	311.79	107130	0	0	1	0	0	0	0	0	0	0	0	0	2017	
10271	168	308.10	106746	0	0	1	0	0	0	0	0	0	0	0	0	2017	
10257	168	284.86	90636	0	0	0	1	0	0	0	0	0	0	0	0	2017	
10265	168	333.67	123795	0	0	0	1	0	0	0	0	0	0	0	0	2017	
9746	168	429.11	186150	0	0	0	1	0	0	0	0	0	0	0	0	2017	
10406	59	334.17	45730	0	0	0	1	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017	
11507	29	232.83	11701	0	0	0	0	0	1	0	0	0	0	0	1	2017	
10605	168	323.51	113774	0	0	0	0	0	1	0	0	0	0	0	0	2017	
10706	49	323.06	37514	0	0	0	0	0	1	0	0	0	0	0	0	2017	
10374	92	290.28	75113	0	0	0	0	0	1	0	0	0	0	0	2	2017	
10565	168	337.15	124845	0	0	0	0	0	0	1	0	0	0	0	0	2017	JUL
10530	168	316.18	106904	0	0	0	0	0	0	1	0	0	0	0	0	2017	
10402	168	357.85	133880	0	0	0	0	0	0	1	0	0	0	0	0	2017	

Data Base for CRIST 7 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
10688	72	307.18	42538	0	0	0	0	0	0	0	1	0	0	0	0	2017	
10470	109	343.27	91015	0	0	0	0	0	0	0	1	0	0	0	1	2017	
10745	168	373.48	145617	0	0	0	0	0	0	0	1	0	0	0	0	2017	
10784	120	306.82	69298	0	0	0	0	0	0	0	1	0	0	0	0	2017	
10780	82	338.63	65731	0	0	0	0	0	0	0	1	0	0	0	1	2017	
10716	168	347.29	128596	0	0	0	0	0	0	0	0	1	0	0	0	2017	
10637	168	337.30	117547	0	0	0	0	0	0	0	0	1	0	0	0	2017	
10497	49	322.94	31897	0	0	0	0	0	0	0	0	1	0	0	0	2017	
10694	131	370.98	118213	0	0	0	0	0	0	0	0	1	0	0	1	2017	
10651	168	343.42	125155	0	0	0	0	0	0	0	0	0	1	0	0	2017	
10842	166	349.87	127263	0	0	0	0	0	0	0	0	0	1	0	0	2017	
9855	98	316.53	64577	0	0	0	0	0	0	0	0	0	1	0	1	2017	
10708	168	284.41	84739	0	0	0	0	0	0	0	0	0	1	0	0	2017	
10882	82	249.59	35235	0	0	0	0	0	0	0	0	0	1	0	0	2017	
9921	72	338.96	53187	0	0	0	0	0	0	0	0	0	0	1	1	2017	
9882	168	310.49	101792	0	0	0	0	0	0	0	0	0	0	1	0	2017	
10223	168	281.00	83366	0	0	0	0	0	0	0	0	0	0	1	0	2017	
10130	96	277.38	46482	0	0	0	0	0	0	0	0	0	0	1	0	2017	
11534	81	322.15	57925	0	0	0	0	0	0	0	0	0	0	0	1	2017	
11409	167	300.26	95703	0	0	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2017	
11924	118	272.11	60659	0	0	0	0	0	0	0	0	0	0	0	1	2017	
10231	168	440.12	198087	1	0	0	0	0	0	0	0	0	0	0	0	2018	JAN
10425	46	308.96	27537	1	0	0	0	0	0	0	0	0	0	0	0	2018	
10441	80	374.80	83825	1	0	0	0	0	0	0	0	0	0	0	1	2018	
0	0	0.00	0	1	0	0	0	0	0	0	0	0	0	0	0	2018	
10287	154	355.23	129137	0	1	0	0	0	0	0	0	0	0	0	1	2018	
10351	24	263.46	12583	0	1	0	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2018	
10793	84	279.35	50334	0	0	0	0	1	0	0	0	0	0	0	2	2018	
10331	168	352.96	133946	0	0	0	0	1	0	0	0	0	0	0	0	2018	
10407	132	354.58	117516	0	0	0	0	1	0	0	0	0	0	0	1	2018	
10804	96	262.98	55498	0	0	0	0	1	0	0	0	0	0	0	1	2018	
10962	168	213.24	45559	0	0	0	0	1	0	0	0	0	0	0	0	2018	
11432	60	231.70	28336	0	0	0	0	0	1	0	0	0	0	0	1	2018	
10734	168	319.64	110934	0	0	0	0	0	1	0	0	0	0	0	0	2018	
10643	168	380.42	155449	0	0	0	0	0	1	0	0	0	0	0	0	2018	
10615	144	344.71	129166	0	0	0	0	0	1	0	0	0	0	0	0	2018	
10766	141	328.64	102145	0	0	0	0	0	0	1	0	0	0	0	1	2018	
10647	168	350.81	134348	0	0	0	0	0	0	1	0	0	0	0	0	2018	JUL
10758	116	358.07	99113	0	0	0	0	0	0	1	0	0	0	0	0	2018	
10015	150	355.30	127774	0	0	0	0	0	0	1	0	0	0	0	1	2018	
10068	168	340.14	126220	0	0	0	0	0	0	0	1	0	0	0	0	2018	

Data Base for CRIST 7 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
9791	168	376.65	151048	0	0	0	0	0	0	0	1	0	0	0	0	2018	
10473	168	341.43	124783	0	0	0	0	0	0	0	1	0	0	0	0	2018	
10821	142	325.25	96631	0	0	0	0	0	0	0	1	0	0	0	0	2018	
0	0	0.00	0	0	0	0	0	0	0	0	1	0	0	0	0	2018	
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2018	
11016	159	368.25	144102	0	0	0	0	0	0	0	0	1	0	0	1	2018	
10645	168	393.90	164935	0	0	0	0	0	0	0	0	1	0	0	0	2018	
10549	168	410.24	176442	0	0	0	0	0	0	0	0	1	0	0	0	2018	
10313	168	386.49	159371	0	0	0	0	0	0	0	0	0	1	0	0	2018	
10081	168	398.17	168729	0	0	0	0	0	0	0	0	0	1	0	0	2018	
10102	168	427.77	189528	0	0	0	0	0	0	0	0	0	1	0	0	2018	
10238	168	303.49	97389	0	0	0	0	0	0	0	0	0	1	0	0	2018	
10308	168	328.04	113931	0	0	0	0	0	0	0	0	0	1	0	0	2018	
10408	168	351.03	128917	0	0	0	0	0	0	0	0	0	0	1	0	2018	
10409	168	380.64	150118	0	0	0	0	0	0	0	0	0	0	1	0	2018	
10126	168	392.41	156735	0	0	0	0	0	0	0	0	0	0	1	0	2018	
10456	162	367.73	138208	0	0	0	0	0	0	0	0	0	0	1	0	2018	
10634	168	380.32	147977	0	0	0	0	0	0	0	0	0	0	0	0	2018	
10626	168	376.93	148542	0	0	0	0	0	0	0	0	0	0	0	0	2018	
10934	168	273.82	78066	0	0	0	0	0	0	0	0	0	0	0	0	2018	
11171	168	245.02	60049	0	0	0	0	0	0	0	0	0	0	0	0	2018	
10885	168	246.56	60868	1	0	0	0	0	0	0	0	0	0	0	0	2019	JAN
10766	168	249.58	62698	1	0	0	0	0	0	0	0	0	0	0	0	2019	
10450	82	272.49	42049	1	0	0	0	0	0	0	0	0	0	0	0	2019	
9999	126	357.31	100897	1	0	0	0	0	0	0	0	0	0	0	1	2019	
10173	168	360.75	136522	0	1	0	0	0	0	0	0	0	0	0	0	2019	
10808	109	297.64	68403	0	1	0	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2019	
10761	114	292.18	65393	0	0	1	0	0	0	0	0	0	0	0	1	2019	
10678	167	325.31	113474	0	0	1	0	0	0	0	0	0	0	0	0	2019	
10982	168	274.74	77125	0	0	1	0	0	0	0	0	0	0	0	0	2019	
11235	168	272.86	75333	0	0	1	0	0	0	0	0	0	0	0	0	2019	
10517	168	307.32	101130	0	0	1	0	0	0	0	0	0	0	0	0	2019	
10493	168	288.85	90509	0	0	0	1	0	0	0	0	0	0	0	0	2019	
11011	72	275.89	34044	0	0	0	1	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2019	
10933	168	297.08	94607	0	0	0	0	1	0	0	0	0	0	0	0	2019	
9973	168	261.18	69440	0	0	0	0	1	0	0	0	0	0	0	0	2019	
11003	168	291.64	89583	0	0	0	0	1	0	0	0	0	0	0	0	2019	
10772	168	322.23	111241	0	0	0	0	1	0	0	0	0	0	0	0	2019	
10114	168	327.18	115238	0	0	0	0	1	0	0	0	0	0	0	0	2019	
11132	168	264.57	72299	0	0	0	0	0	1	0	0	0	0	0	0	2019	
11363	168	252.71	64529	0	0	0	0	0	1	0	0	0	0	0	0	2019	
11287	165	294.91	93138	0	0	0	0	0	1	0	0	0	0	0	0	2019	
10585	92	294.85	61088	0	0	0	0	0	1	0	0	0	0	0	0	2019	

Data Base for CRIST 7 Target Heat Rate Equation

HtRt	Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shut down 24 hours or more, in BTU/Kwh.
Hr	Number of hours the unit was synchronized during the week.
AMW	Average load on the unit, in MW.
LSRF	Load square range factor, in MW^2.
J to N	The number 1 indicates the month of the observation. All 0's indicate December.
NS	Number of start ups during the week after being shut down for 24 hours or more.
YR	The year of the observation.
*	Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

Data Base for DANIEL 1 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
11118	168	263.56	89837	0	0	0	0	0	0	1	0	0	0	0	0	2016	JUL
11588	160	232.93	71855	0	0	0	0	0	0	1	0	0	0	0	0	2016	
11868	168	235.20	74390	0	0	0	0	0	0	1	0	0	0	0	0	2016	
11828	168	252.13	81555	0	0	0	0	0	0	1	0	0	0	0	0	2016	
11988	168	193.86	46292	0	0	0	0	0	0	0	1	0	0	0	0	2016	
11725	168	197.71	49002	0	0	0	0	0	0	0	1	0	0	0	0	2016	
12544	168	184.10	39730	0	0	0	0	0	0	0	1	0	0	0	0	2016	
11862	168	187.92	42721	0	0	0	0	0	0	0	1	0	0	0	0	2016	
11050	168	221.76	63070	0	0	0	0	0	0	0	1	0	0	0	0	2016	
12552	167	140.69	20218	0	0	0	0	0	0	0	0	1	0	0	0	2016	
11535	139	170.55	28662	0	0	0	0	0	0	0	0	1	0	0	0	2016	
11100	87	303.95	68414	0	0	0	0	0	0	0	0	1	0	0	1	2016	
11740	168	203.36	54407	0	0	0	0	0	0	0	0	1	0	0	0	2016	
11009	168	199.39	52731	0	0	0	0	0	0	0	0	0	1	0	0	2016	
10979	47	202.53	14558	0	0	0	0	0	0	0	0	0	1	0	0	2016	
10635	96	257.39	49683	0	0	0	0	0	0	0	0	0	1	0	1	2016	
11451	168	194.70	51799	0	0	0	0	0	0	0	0	0	0	1	0	2016	
12148	168	145.23	22445	0	0	0	0	0	0	0	0	0	0	1	0	2016	
11752	168	149.13	24946	0	0	0	0	0	0	0	0	0	0	1	0	2016	
11537	168	160.46	30721	0	0	0	0	0	0	0	0	0	0	1	0	2016	
12354	168	143.68	21303	0	0	0	0	0	0	0	0	0	0	0	0	2016	
11937	92	170.41	18056	0	0	0	0	0	0	0	0	0	0	0	1	2016	
12661	168	154.15	26947	0	0	0	0	0	0	0	0	0	0	0	0	2016	
12360	168	141.19	20107	0	0	0	0	0	0	0	0	0	0	0	0	2016	
11160	168	367.01	154806	1	0	0	0	0	0	0	0	0	0	0	0	2017	JAN
11062	168	367.61	146031	1	0	0	0	0	0	0	0	0	0	0	0	2017	
10468	168	397.02	160489	1	0	0	0	0	0	0	0	0	0	0	0	2017	
11538	168	263.78	73013	1	0	0	0	0	0	0	0	0	0	0	0	2017	
10899	48	298.48	27018	0	1	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2017	
12837	162	152.48	24431	0	0	1	0	0	0	0	0	0	0	0	0	2017	
12832	168	136.79	18729	0	0	1	0	0	0	0	0	0	0	0	0	2017	
12334	168	150.46	24577	0	0	1	0	0	0	0	0	0	0	0	0	2017	
12150	168	154.29	26763	0	0	0	1	0	0	0	0	0	0	0	0	2017	
11964	168	158.79	28947	0	0	0	1	0	0	0	0	0	0	0	0	2017	
13052	168	172.48	36308	0	0	0	1	0	0	0	0	0	0	0	0	2017	
12252	24	136.17	2657	0	0	0	0	1	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017	
10653	154	284.44	92805	0	0	0	0	1	0	0	0	0	0	0	1	2017	
11081	168	323.01	129162	0	0	0	0	1	0	0	0	0	0	0	0	2017	
12748	168	143.83	21859	0	0	0	0	1	0	0	0	0	0	0	0	2017	
12034	168	157.98	30523	0	0	0	0	0	1	0	0	0	0	0	0	2017	
11778	164	138.94	19839	0	0	0	0	0	1	0	0	0	0	0	0	2017	
12779	168	152.42	26296	0	0	0	0	0	1	0	0	0	0	0	0	2017	
12068	144	152.44	28764	0	0	0	0	0	1	0	0	0	0	0	0	2017	
12333	168	154.28	25121	0	0	0	0	0	0	1	0	0	0	0	0	2017	JUL
12122	99	142.32	14220	0	0	0	0	0	0	1	0	0	0	0	1	2017	
11076	168	197.22	50243	0	0	0	0	0	0	1	0	0	0	0	0	2017	
12232	168	159.79	27801	0	0	0	0	0	0	1	0	0	0	0	0	2017	
12049	163	161.87	32718	0	0	0	0	0	0	0	1	0	0	0	0	2017	

Data Base for DANIEL 1 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
12120	168	149.31	23920	0	0	0	0	0	0	0	1	0	0	0	0	2017	
11580	168	175.78	34362	0	0	0	0	0	0	0	1	0	0	0	0	2017	
12075	168	157.60	26806	0	0	0	0	0	0	0	1	0	0	0	0	2017	
11934	168	155.08	29376	0	0	0	0	0	0	0	1	0	0	0	0	2017	
12190	168	146.00	22683	0	0	0	0	0	0	0	0	1	0	0	0	2017	
11661	168	158.71	31082	0	0	0	0	0	0	0	0	1	0	0	0	2017	
11347	168	181.28	36988	0	0	0	0	0	0	0	0	1	0	0	0	2017	
12024	168	163.50	29534	0	0	0	0	0	0	0	0	1	0	0	0	2017	
11212	168	206.05	54021	0	0	0	0	0	0	0	0	0	1	0	0	2017	
11793	168	177.04	40565	0	0	0	0	0	0	0	0	0	1	0	0	2017	
11446	168	193.79	48490	0	0	0	0	0	0	0	0	0	1	0	0	2017	
11552	168	174.27	35830	0	0	0	0	0	0	0	0	0	1	0	0	2017	
11440	168	186.18	43268	0	0	0	0	0	0	0	0	0	1	0	0	2017	
10459	168	273.54	84948	0	0	0	0	0	0	0	0	0	0	1	0	2017	
10738	168	213.07	63616	0	0	0	0	0	0	0	0	0	0	1	0	2017	
11657	168	139.64	19722	0	0	0	0	0	0	0	0	0	0	1	0	2017	
12045	119	133.07	12713	0	0	0	0	0	0	0	0	0	0	1	0	2017	
13645	56	147.04	9314	0	0	0	0	0	0	0	0	0	0	0	1	2017	
12520	168	160.57	26156	0	0	0	0	0	0	0	0	0	0	0	0	2017	
12696	11	149.27	3381	0	0	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2017	
10940	168	188.90	38819	1	0	0	0	0	0	0	0	0	0	0	0	2018	JAN
11510	168	187.68	36913	1	0	0	0	0	0	0	0	0	0	0	0	2018	
10667	165	207.21	46811	1	0	0	0	0	0	0	0	0	0	0	0	2018	
12546	166	171.64	29783	1	0	0	0	0	0	0	0	0	0	0	0	2018	
10711	168	180.20	33203	0	1	0	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2018	
13160	85	165.15	17113	0	0	0	1	0	0	0	0	0	0	0	1	2018	
12029	166	184.15	43175	0	0	0	0	1	0	0	0	0	0	0	0	2018	
11419	168	185.63	40293	0	0	0	0	1	0	0	0	0	0	0	0	2018	
10822	48	188.48	11706	0	0	0	0	1	0	0	0	0	0	0	0	2018	
11693	141	194.39	35130	0	0	0	0	1	0	0	0	0	0	0	1	2018	
11298	168	206.64	44532	0	0	0	0	1	0	0	0	0	0	0	0	2018	
11861	162	178.49	37661	0	0	0	0	0	1	0	0	0	0	0	0	2018	
11737	168	207.05	44553	0	0	0	0	0	1	0	0	0	0	0	0	2018	
11241	168	249.68	65612	0	0	0	0	0	1	0	0	0	0	0	0	2018	
12449	144	162.89	28731	0	0	0	0	0	1	0	0	0	0	0	0	2018	
12118	168	151.79	24587	0	0	0	0	0	0	1	0	0	0	0	0	2018	JUL
11990	168	161.01	28252	0	0	0	0	0	0	1	0	0	0	0	0	2018	
11779	168	163.07	30807	0	0	0	0	0	0	1	0	0	0	0	0	2018	
12378	168	142.65	20765	0	0	0	0	0	0	1	0	0	0	0	0	2018	
11841	168	148.36	23062	0	0	0	0	0	0	0	1	0	0	0	0	2018	
11364	168	182.65	38044	0	0	0	0	0	0	0	1	0	0	0	0	2018	
12212	15	139.53	2946	0	0	0	0	0	0	0	1	0	0	0	0	2018	

Data Base for DANIEL 1 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
12120	65	163.31	12845	0	0	0	0	0	0	0	1	0	0	0	1	2018	
11589	168	160.54	27634	0	0	0	0	0	0	0	1	0	0	0	0	2018	
12132	168	169.49	30007	0	0	0	0	0	0	0	0	1	0	0	0	2018	
11557	168	198.58	40551	0	0	0	0	0	0	0	0	1	0	0	0	2018	
10562	168	240.04	59346	0	0	0	0	0	0	0	0	1	0	0	0	2018	
10748	126	238.63	47684	0	0	0	0	0	0	0	0	1	0	0	1	2018	
9894	135	281.04	72586	0	0	0	0	0	0	0	0	0	1	0	1	2018	
10212	142	293.82	76040	0	0	0	0	0	0	0	0	0	1	0	0	2018	
11047	97	206.07	29325	0	0	0	0	0	0	0	0	0	1	0	1	2018	
11893	111	146.36	15474	0	0	0	0	0	0	0	0	0	1	0	1	2018	
11693	168	160.30	25818	0	0	0	0	0	0	0	0	0	1	0	0	2018	
10881	168	198.36	42456	0	0	0	0	0	0	0	0	0	1	0	0	2018	
12161	168	152.08	24248	0	0	0	0	0	0	0	0	0	1	0	0	2018	
10385	168	211.79	48435	0	0	0	0	0	0	0	0	0	0	0	0	2018	
10448	147	228.07	53859	0	0	0	0	0	0	0	0	0	0	0	0	2018	
11615	109	155.94	18635	0	0	0	0	0	0	0	0	0	0	0	1	2018	
0	0	0.00	0	1	0	0	0	0	0	0	0	0	0	0	0	2019	JAN
0	0	0.00	0	1	0	0	0	0	0	0	0	0	0	0	0	2019	
13566	46	139.54	5834	1	0	0	0	0	0	0	0	0	0	0	1	2019	
12500	168	169.45	30179	1	0	0	0	0	0	0	0	0	0	0	0	2019	
10777	117	173.86	21724	0	1	0	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2019	
12261	18	221.89	7912	0	0	1	0	0	0	0	0	0	0	0	1	2019	
12098	145	187.89	33473	0	0	1	0	0	0	0	0	0	0	0	0	2019	
11001	168	193.84	39273	0	0	0	1	0	0	0	0	0	0	0	0	2019	
10940	168	212.03	47104	0	0	0	1	0	0	0	0	0	0	0	0	2019	
11564	168	189.65	37040	0	0	0	1	0	0	0	0	0	0	0	0	2019	
11521	168	190.25	37373	0	0	0	1	0	0	0	0	0	0	0	0	2019	
11471	168	215.40	50040	0	0	0	0	1	0	0	0	0	0	0	0	2019	
10742	71	186.13	15250	0	0	0	0	1	0	0	0	0	0	0	0	2019	
11100	116	223.09	38697	0	0	0	0	1	0	0	0	0	0	0	1	2019	
10977	168	225.67	55082	0	0	0	0	1	0	0	0	0	0	0	0	2019	
10548	168	248.63	70182	0	0	0	0	1	0	0	0	0	0	0	0	2019	
11216	95	184.41	20164	0	0	0	0	0	1	0	0	0	0	0	0	2019	
12077	19	179.74	5382	0	0	0	0	0	1	0	0	0	0	0	1	2019	
11288	168	216.12	52758	0	0	0	0	0	1	0	0	0	0	0	0	2019	
11370	144	197.44	41705	0	0	0	0	0	1	0	0	0	0	0	0	2019	

HtRt	Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shut down 24 hours or more, in BTU/Kwh.
Hr	Number of hours the unit was synchronized during the week.
AMW	Average load on the unit, in MW.
LSRF	Load square range factor, in MW^2.
J to N	The number 1 indicates the month of the observation. All 0's indicate December.
NS	Number of start ups during the week after being shut down for 24 hours or more.
YR	The year of the observation.
*	Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

Data Base for DANIEL 2 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
11403	168	242.36	77372	0	0	0	0	0	0	1	0	0	0	0	0	2016	JUL
11409	163	271.05	97614	0	0	0	0	0	0	1	0	0	0	0	0	2016	
11998	165	229.92	69844	0	0	0	0	0	0	1	0	0	0	0	0	2016	
11785	168	251.80	82566	0	0	0	0	0	0	1	0	0	0	0	0	2016	
11849	168	203.66	50928	0	0	0	0	0	0	0	1	0	0	0	0	2016	
11975	168	181.51	38837	0	0	0	0	0	0	0	1	0	0	0	0	2016	
11869	168	197.33	48423	0	0	0	0	0	0	0	1	0	0	0	0	2016	
11873	168	185.89	41823	0	0	0	0	0	0	0	1	0	0	0	0	2016	
11540	168	220.92	62599	0	0	0	0	0	0	0	1	0	0	0	0	2016	
12848	168	141.07	20203	0	0	0	0	0	0	0	0	1	0	0	0	2016	
12797	69	150.29	10072	0	0	0	0	0	0	0	0	1	0	0	0	2016	
11039	63	311.25	52650	0	0	0	0	0	0	0	0	1	0	0	1	2016	
11405	168	261.27	91113	0	0	0	0	0	0	0	0	1	0	0	0	2016	
11673	168	188.33	44370	0	0	0	0	0	0	0	0	0	1	0	0	2016	
11670	168	187.08	42398	0	0	0	0	0	0	0	0	0	1	0	0	2016	
11954	167	177.86	35202	0	0	0	0	0	0	0	0	0	1	0	0	2016	
12141	168	171.57	33725	0	0	0	0	0	0	0	0	0	1	0	0	2016	
10368	165	214.74	59315	0	0	0	0	0	0	0	0	0	1	0	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2016	
13078	99	146.24	15737	0	0	0	0	0	0	0	0	0	0	0	1	2016	
12110	168	176.54	33928	0	0	0	0	0	0	0	0	0	0	0	0	2016	
11702	168	157.55	27354	0	0	0	0	0	0	0	0	0	0	0	0	2016	
11549	24	137.17	2857	0	0	0	0	0	0	0	0	0	0	0	0	2016	
11371	50	274.50	24718	1	0	0	0	0	0	0	0	0	0	0	1	2017	JAN
11077	59	317.76	43181	1	0	0	0	0	0	0	0	0	0	0	0	2017	
11131	45	246.38	18913	1	0	0	0	0	0	0	0	0	0	0	1	2017	
11039	168	278.27	79224	1	0	0	0	0	0	0	0	0	0	0	0	2017	
10092	168	305.00	96253	0	1	0	0	0	0	0	0	0	0	0	0	2017	
9768	135	372.04	121664	0	1	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017	
11243	167	200.70	47612	0	0	0	0	0	1	0	0	0	0	0	0	2017	
11525	168	173.21	37454	0	0	0	0	0	1	0	0	0	0	0	0	2017	
11771	168	163.48	30461	0	0	0	0	0	1	0	0	0	0	0	0	2017	
12369	144	172.67	39212	0	0	0	0	0	1	0	0	0	0	0	0	2017	
12084	168	169.63	31495	0	0	0	0	0	0	1	0	0	0	0	0	2017	JUL
11953	163	157.74	26600	0	0	0	0	0	0	1	0	0	0	0	0	2017	
11488	168	206.37	53221	0	0	0	0	0	0	1	0	0	0	0	0	2017	

Data Base for DANIEL 2 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
11547	168	185.93	40756	0	0	0	0	0	0	1	0	0	0	0	0	2017	
11908	168	172.68	36350	0	0	0	0	0	0	0	1	0	0	0	0	2017	
11987	168	155.45	26168	0	0	0	0	0	0	0	1	0	0	0	0	2017	
11322	168	202.13	45994	0	0	0	0	0	0	0	1	0	0	0	0	2017	
11203	168	199.54	47681	0	0	0	0	0	0	0	1	0	0	0	0	2017	
11955	168	165.02	31893	0	0	0	0	0	0	0	1	0	0	0	0	2017	
11933	168	164.66	32134	0	0	0	0	0	0	0	0	1	0	0	0	2017	
11986	167	145.84	22911	0	0	0	0	0	0	0	0	1	0	0	0	2017	
10995	168	227.79	60429	0	0	0	0	0	0	0	0	1	0	0	0	2017	
11543	168	192.67	42900	0	0	0	0	0	0	0	0	1	0	0	0	2017	
11265	168	173.67	37370	0	0	0	0	0	0	0	0	0	1	0	0	2017	
11130	168	192.77	46312	0	0	0	0	0	0	0	0	0	1	0	0	2017	
12080	78	192.38	24658	0	0	0	0	0	0	0	0	0	1	0	0	2017	
13838	27	134.78	4602	0	0	0	0	0	0	0	0	0	1	0	1	2017	
12542	168	141.52	20398	0	0	0	0	0	0	0	0	0	1	0	0	2017	
11980	168	164.19	32521	0	0	0	0	0	0	0	0	0	0	1	0	2017	
11024	168	213.70	63200	0	0	0	0	0	0	0	0	0	0	1	0	2017	
11630	168	150.30	22954	0	0	0	0	0	0	0	0	0	0	1	0	2017	
12152	168	140.32	19830	0	0	0	0	0	0	0	0	0	0	1	0	2017	
11915	168	153.26	24771	0	0	0	0	0	0	0	0	0	0	0	0	2017	
11804	162	172.36	31084	0	0	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2017	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2017	
10953	168	250.05	72422	1	0	0	0	0	0	0	0	0	0	0	0	2018	JAN
11735	168	209.99	50277	1	0	0	0	0	0	0	0	0	0	0	0	2018	
10933	156	226.03	55739	1	0	0	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	1	0	0	0	0	0	0	0	0	0	0	0	2018	
10630	140	188.52	32287	0	1	0	0	0	0	0	0	0	0	0	1	2018	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
10859	65	228.52	26345	0	0	1	0	0	0	0	0	0	0	0	1	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2018	
12363	113	176.47	25723	0	0	0	1	0	0	0	0	0	0	0	1	2018	
12375	22	165.50	4108	0	0	0	1	0	0	0	0	0	0	0	0	2018	
12218	150	159.89	27582	0	0	0	0	1	0	0	0	0	0	0	1	2018	
11407	168	193.79	44711	0	0	0	0	1	0	0	0	0	0	0	0	2018	
11312	168	177.63	37728	0	0	0	0	1	0	0	0	0	0	0	0	2018	
10824	168	304.90	106007	0	0	0	0	1	0	0	0	0	0	0	0	2018	
11167	168	216.42	49781	0	0	0	0	1	0	0	0	0	0	0	0	2018	
11384	156	183.32	39462	0	0	0	0	0	1	0	0	0	0	0	0	2018	
11222	168	211.73	48122	0	0	0	0	0	1	0	0	0	0	0	0	2018	
10695	167	272.66	80408	0	0	0	0	0	1	0	0	0	0	0	0	2018	
11572	144	184.31	38872	0	0	0	0	0	1	0	0	0	0	0	0	2018	
11513	168	167.18	30955	0	0	0	0	0	0	1	0	0	0	0	0	2018	JUL
12172	168	174.82	33453	0	0	0	0	0	0	1	0	0	0	0	0	2018	
11805	168	162.99	28238	0	0	0	0	0	0	1	0	0	0	0	0	2018	
11239	168	161.42	27889	0	0	0	0	0	0	1	0	0	0	0	0	2018	
11914	168	162.34	28688	0	0	0	0	0	0	0	1	0	0	0	0	2018	

Data Base for DANIEL 2 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
11347	143	177.41	30122	0	0	0	0	0	0	0	1	0	0	0	0	2018	
11373	157	171.93	33617	0	0	0	0	0	0	0	1	0	0	0	1	2018	
11506	168	215.38	50394	0	0	0	0	0	0	0	1	0	0	0	0	2018	
11659	168	182.15	37223	0	0	0	0	0	0	0	1	0	0	0	0	2018	
11838	167	173.40	33199	0	0	0	0	0	0	0	0	1	0	0	0	2018	
11409	168	197.20	40969	0	0	0	0	0	0	0	0	1	0	0	0	2018	
10954	140	230.48	51651	0	0	0	0	0	0	0	0	1	0	0	1	2018	
10839	168	246.98	62222	0	0	0	0	0	0	0	0	1	0	0	0	2018	
10495	168	273.57	78083	0	0	0	0	0	0	0	0	0	1	0	0	2018	
10775	168	219.28	52280	0	0	0	0	0	0	0	0	0	1	0	0	2018	
10940	168	208.15	46968	0	0	0	0	0	0	0	0	0	1	0	0	2018	
11880	145	141.00	17564	0	0	0	0	0	0	0	0	0	1	0	0	2018	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2018	
12546	143	151.04	20881	0	0	0	0	0	0	0	0	0	0	1	1	2018	
11768	168	186.52	40212	0	0	0	0	0	0	0	0	0	0	1	0	2018	
11632	168	156.80	26691	0	0	0	0	0	0	0	0	0	0	1	0	2018	
10758	168	258.78	83332	0	0	0	0	0	0	0	0	0	0	1	0	2018	
10979	165	186.65	39330	0	0	0	0	0	0	0	0	0	0	0	0	2018	
11515	163	179.66	36296	0	0	0	0	0	0	0	0	0	0	0	0	2018	
11447	163	159.61	27294	0	0	0	0	0	0	0	0	0	0	0	0	2018	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2018	
12171	71	153.89	10476	1	0	0	0	0	0	0	0	0	0	0	1	2019	JAN
11979	168	147.24	22231	1	0	0	0	0	0	0	0	0	0	0	0	2019	
11873	168	153.68	25063	1	0	0	0	0	0	0	0	0	0	0	0	2019	
12235	168	150.61	24726	1	0	0	0	0	0	0	0	0	0	0	0	2019	
11669	93	159.14	14612	0	1	0	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2019	
11264	64	168.58	15670	0	0	1	0	0	0	0	0	0	0	0	0	2019	
10931	32	188.25	9454	0	0	1	0	0	0	0	0	0	0	0	1	2019	
10713	168	212.93	54121	0	0	1	0	0	0	0	0	0	0	0	0	2019	
11371	166	189.28	39898	0	0	0	1	0	0	0	0	0	0	0	0	2019	
11014	167	224.24	56962	0	0	0	1	0	0	0	0	0	0	0	0	2019	
11590	168	192.45	40982	0	0	0	1	0	0	0	0	0	0	0	0	2019	
11510	163	197.59	43420	0	0	0	1	0	0	0	0	0	0	0	0	2019	
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2019	
10348	168	236.02	65471	0	0	0	0	1	0	0	0	0	0	0	0	2019	
10204	109	248.71	52027	0	0	0	0	1	0	0	0	0	0	0	1	2019	
11359	168	167.57	31152	0	0	0	0	0	1	0	0	0	0	0	0	2019	
11765	168	174.81	34319	0	0	0	0	0	1	0	0	0	0	0	0	2019	
10882	164	216.26	58475	0	0	0	0	0	1	0	0	0	0	0	0	2019	
11045	144	203.48	51375	0	0	0	0	0	1	0	0	0	0	0	0	2019	

HtRt	Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shut down 24 hours or more, in BTU/Kwh.
Hr	Number of hours the unit was synchronized during the week.
AMW	Average load on the unit, in MW.
LSRF	Load square range factor, in MW^2.
J to N	The number 1 indicates the month of the observation. All 0's indicate December.
NS	Number of start ups during the week after being shut down for 24 hours or more.
YR	The year of the observation.
*	Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

Data Base for SMITH 3 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
7281	168	477.57	233355	0	0	0	0	0	0	1	0	0	0	0	0	2016	JUL
7337	168	482.67	238080	0	0	0	0	0	0	1	0	0	0	0	0	2016	
7243	168	480.15	235872	0	0	0	0	0	0	1	0	0	0	0	0	2016	
7104	168	491.04	245364	0	0	0	0	0	0	1	0	0	0	0	0	2016	
7126	168	482.27	236875	0	0	0	0	0	0	0	1	0	0	0	0	2016	
7224	168	493.19	246969	0	0	0	0	0	0	0	1	0	0	0	0	2016	
7173	168	486.73	239691	0	0	0	0	0	0	0	1	0	0	0	0	2016	
7143	168	477.67	232997	0	0	0	0	0	0	0	1	0	0	0	0	2016	
7157	168	402.43	178526	0	0	0	0	0	0	0	1	0	0	0	0	2016	
7337	162	456.25	218248	0	0	0	0	0	0	0	0	1	0	0	0	2016	
7351	143	478.22	200584	0	0	0	0	0	0	0	0	1	0	0	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2016	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2016	
7263	117	413.13	163041	0	0	0	0	0	0	0	0	0	0	1	1	2016	
6923	168	570.43	328652	0	0	0	0	0	0	0	0	0	0	1	0	2016	
6918	168	538.77	296105	0	0	0	0	0	0	0	0	0	0	1	0	2016	
7353	112	446.53	164893	0	0	0	0	0	0	0	0	0	0	1	1	2016	
6916	168	516.12	272191	0	0	0	0	0	0	0	0	0	0	0	0	2016	
6934	168	494.47	256605	0	0	0	0	0	0	0	0	0	0	0	0	2016	
7054	168	518.71	280205	0	0	0	0	0	0	0	0	0	0	0	0	2016	
6983	168	425.23	185778	0	0	0	0	0	0	0	0	0	0	0	0	2016	
6977	168	507.30	265571	1	0	0	0	0	0	0	0	0	0	0	0	2017	JAN
6976	168	510.79	270023	1	0	0	0	0	0	0	0	0	0	0	0	2017	
7097	168	463.55	222166	1	0	0	0	0	0	0	0	0	0	0	0	2017	
7139	168	433.92	195223	1	0	0	0	0	0	0	0	0	0	0	0	2017	
6795	168	481.38	239890	0	1	0	0	0	0	0	0	0	0	0	0	2017	
6936	168	522.33	277466	0	1	0	0	0	0	0	0	0	0	0	0	2017	
7022	168	488.73	245354	0	1	0	0	0	0	0	0	0	0	0	0	2017	
6849	168	484.58	240357	0	1	0	0	0	0	0	0	0	0	0	0	2017	
6959	168	539.85	294577	0	0	1	0	0	0	0	0	0	0	0	0	2017	
6997	142	518.54	234823	0	0	1	0	0	0	0	0	0	0	0	0	2017	
7003	147	550.03	276337	0	0	1	0	0	0	0	0	0	0	0	1	2017	
6885	168	512.31	268050	0	0	1	0	0	0	0	0	0	0	0	0	2017	
6852	168	492.54	250287	0	0	1	0	0	0	0	0	0	0	0	0	2017	
7001	168	494.70	251649	0	0	0	1	0	0	0	0	0	0	0	0	2017	
7065	168	470.69	235044	0	0	0	1	0	0	0	0	0	0	0	0	2017	
7201	73	444.75	95800	0	0	0	1	0	0	0	0	0	0	0	0	2017	
7037	168	451.72	218624	0	0	0	0	1	0	0	0	0	0	0	0	2017	
7004	168	530.70	287312	0	0	0	0	1	0	0	0	0	0	0	0	2017	
7021	168	517.13	272276	0	0	0	0	1	0	0	0	0	0	0	0	2017	
6924	168	440.05	205067	0	0	0	0	1	0	0	0	0	0	0	0	2017	
6798	168	490.24	246730	0	0	0	0	1	0	0	0	0	0	0	0	2017	
6890	168	482.38	243505	0	0	0	0	0	1	0	0	0	0	0	0	2017	
6914	168	493.60	254407	0	0	0	0	0	1	0	0	0	0	0	0	2017	
6802	168	503.36	258691	0	0	0	0	0	1	0	0	0	0	0	0	2017	
6752	144	486.81	243441	0	0	0	0	0	1	0	0	0	0	0	0	2017	
7114	168	503.93	260260	0	0	0	0	0	0	1	0	0	0	0	0	2017	JUL
7142	168	513.93	269980	0	0	0	0	0	0	1	0	0	0	0	0	2017	

Data Base for SMITH 3 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
7142	168	514.32	270531	0	0	0	0	0	0	1	0	0	0	0	0	2017	
6981	168	522.38	276550	0	0	0	0	0	0	1	0	0	0	0	0	2017	
6986	168	513.23	268860	0	0	0	0	0	0	0	1	0	0	0	0	2017	
7111	168	519.55	273245	0	0	0	0	0	0	0	1	0	0	0	0	2017	
7233	168	535.57	288881	0	0	0	0	0	0	0	1	0	0	0	0	2017	
6982	168	499.86	254180	0	0	0	0	0	0	0	1	0	0	0	0	2017	
6760	131	507.34	221630	0	0	0	0	0	0	0	1	0	0	0	1	2017	
6892	168	512.79	268030	0	0	0	0	0	0	0	0	1	0	0	0	2017	
6957	168	443.57	208983	0	0	0	0	0	0	0	0	1	0	0	0	2017	
6817	168	543.92	297026	0	0	0	0	0	0	0	0	1	0	0	0	2017	
6588	168	533.24	286068	0	0	0	0	0	0	0	0	1	0	0	0	2017	
6698	168	520.57	273757	0	0	0	0	0	0	0	0	0	1	0	0	2017	
6915	168	524.19	276836	0	0	0	0	0	0	0	0	0	1	0	0	2017	
6755	168	523.05	276729	0	0	0	0	0	0	0	0	0	1	0	0	2017	
6686	168	510.89	264611	0	0	0	0	0	0	0	0	0	1	0	0	2017	
6863	168	551.19	305124	0	0	0	0	0	0	0	0	0	1	0	0	2017	
7032	120	554.82	222739	0	0	0	0	0	0	0	0	0	0	1	0	2017	
6968	168	480.81	237807	0	0	0	0	0	0	0	0	0	0	1	0	2017	
6873	168	521.29	274334	0	0	0	0	0	0	0	0	0	0	1	0	2017	
6956	155	526.39	278443	0	0	0	0	0	0	0	0	0	0	0	0	2017	
6889	168	570.82	327256	0	0	0	0	0	0	0	0	0	0	0	0	2017	
6895	164	498.59	255660	0	0	0	0	0	0	0	0	0	0	0	0	2017	
6929	168	515.48	275897	0	0	0	0	0	0	0	0	0	0	0	0	2017	
6931	168	569.98	333381	1	0	0	0	0	0	0	0	0	0	0	0	2018	JAN
6974	168	496.04	261856	1	0	0	0	0	0	0	0	0	0	0	0	2018	
6951	168	542.71	303020	1	0	0	0	0	0	0	0	0	0	0	0	2018	
7013	168	476.18	241270	1	0	0	0	0	0	0	0	0	0	0	0	2018	
6912	144	503.09	224192	0	1	0	0	0	0	0	0	0	0	0	0	2018	
6943	168	461.39	228004	0	1	0	0	0	0	0	0	0	0	0	0	2018	
7012	168	444.28	216613	0	1	0	0	0	0	0	0	0	0	0	0	2018	
6804	168	512.17	266640	0	1	0	0	0	0	0	0	0	0	0	0	2018	
6797	168	519.15	271330	0	0	1	0	0	0	0	0	0	0	0	0	2018	
6913	149	498.92	238748	0	0	1	0	0	0	0	0	0	0	0	0	2018	
6893	168	516.96	275002	0	0	1	0	0	0	0	0	0	0	0	0	2018	
6940	168	513.57	269160	0	0	1	0	0	0	0	0	0	0	0	0	2018	
6896	144	520.34	238218	0	0	1	0	0	0	0	0	0	0	0	0	2018	
6744	168	536.93	293554	0	0	0	1	0	0	0	0	0	0	0	0	2018	
6713	168	553.95	308278	0	0	0	1	0	0	0	0	0	0	0	0	2018	
6686	168	547.45	301399	0	0	0	1	0	0	0	0	0	0	0	0	2018	
6735	168	515.02	274059	0	0	0	1	0	0	0	0	0	0	0	0	2018	
6742	168	524.11	281447	0	0	0	0	1	0	0	0	0	0	0	0	2018	
6869	168	489.53	254728	0	0	0	0	1	0	0	0	0	0	0	0	2018	
7058	70	303.34	45198	0	0	0	0	1	0	0	0	0	0	0	0	2018	
7181	34	418.18	48894	0	0	0	0	1	0	0	0	0	0	0	1	2018	
7032	144	422.85	171070	0	0	0	0	1	0	0	0	0	0	0	0	2018	
7099	168	479.27	244454	0	0	0	0	0	1	0	0	0	0	0	0	2018	
7099	168	492.67	252798	0	0	0	0	0	1	0	0	0	0	0	0	2018	
7084	168	520.40	275042	0	0	0	0	0	1	0	0	0	0	0	0	2018	
6860	144	489.69	248398	0	0	0	0	0	1	0	0	0	0	0	0	2018	
6839	168	515.08	269230	0	0	0	0	0	0	1	0	0	0	0	0	2018	JUL
6969	168	525.01	278809	0	0	0	0	0	0	1	0	0	0	0	0	2018	
6811	168	535.52	288045	0	0	0	0	0	0	1	0	0	0	0	0	2018	
6552	168	529.67	282107	0	0	0	0	0	0	1	0	0	0	0	0	2018	

Data Base for SMITH 3 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
6842	168	517.51	272976	0	0	0	0	0	0	0	1	0	0	0	0	2018	
7150	168	523.55	277443	0	0	0	0	0	0	0	1	0	0	0	0	2018	
7210	168	515.04	268828	0	0	0	0	0	0	0	1	0	0	0	0	2018	
7139	168	539.03	291964	0	0	0	0	0	0	0	0	1	0	0	0	2018	
7243	168	521.53	276367	0	0	0	0	0	0	0	0	1	0	0	0	2018	
6947	168	512.99	270236	0	0	0	0	0	0	0	0	1	0	0	0	2018	
6684	168	516.04	273503	0	0	0	0	0	0	0	0	1	0	0	0	2018	
6817	168	540.78	293019	0	0	0	0	0	0	0	0	0	1	0	0	2018	
6888	65	543.03	126132	0	0	0	0	0	0	0	0	0	1	0	0	2018	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2018	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2018	
7421	165	239.76	58592	0	0	0	0	0	0	0	0	0	0	1	0	2018	
7324	168	446.08	215083	0	0	0	0	0	0	0	0	0	0	1	0	2018	
7343	168	471.88	229560	0	0	0	0	0	0	0	0	0	0	1	0	2018	
7314	168	517.98	277988	0	0	0	0	0	0	0	0	0	0	1	0	2018	
6774	168	495.83	258993	0	0	0	0	0	0	0	0	0	0	0	0	2018	
6779	168	520.73	283060	0	0	0	0	0	0	0	0	0	0	0	0	2018	
6806	168	391.77	175719	0	0	0	0	0	0	0	0	0	0	0	0	2018	
6808	168	426.10	195164	0	0	0	0	0	0	0	0	0	0	0	0	2018	
6742	168	467.62	230144	1	0	0	0	0	0	0	0	0	0	0	0	2019	JAN
6710	168	540.54	296323	1	0	0	0	0	0	0	0	0	0	0	0	2019	
6721	168	488.64	258124	1	0	0	0	0	0	0	0	0	0	0	0	2019	
6800	168	447.93	218756	1	0	0	0	0	0	0	0	0	0	0	0	2019	
6722	168	498.26	256842	0	1	0	0	0	0	0	0	0	0	0	0	2019	
6682	168	539.41	292640	0	1	0	0	0	0	0	0	0	0	0	0	2019	
6664	168	533.75	285758	0	1	0	0	0	0	0	0	0	0	0	0	2019	
6503	168	536.90	288843	0	1	0	0	0	0	0	0	0	0	0	0	2019	
6900	168	500.96	258935	0	0	1	0	0	0	0	0	0	0	0	0	2019	
6938	167	537.62	292201	0	0	1	0	0	0	0	0	0	0	0	0	2019	
6927	168	526.58	279423	0	0	1	0	0	0	0	0	0	0	0	0	2019	
7060	168	351.72	142988	0	0	1	0	0	0	0	0	0	0	0	0	2019	
6887	168	264.48	70088	0	0	1	0	0	0	0	0	0	0	0	0	2019	
6753	168	259.50	67394	0	0	0	1	0	0	0	0	0	0	0	0	2019	
6821	168	254.39	64759	0	0	0	1	0	0	0	0	0	0	0	0	2019	
6709	168	256.08	65677	0	0	0	1	0	0	0	0	0	0	0	0	2019	
6720	168	249.24	62155	0	0	0	0	1	0	0	0	0	0	0	0	2019	
6850	168	247.01	61040	0	0	0	0	1	0	0	0	0	0	0	0	2019	
6886	25	232.48	8724	0	0	0	0	1	0	0	0	0	0	0	0	2019	
6945	112	259.96	56770	0	0	0	0	1	0	0	0	0	0	0	1	2019	
6553	168	285.54	81989	0	0	0	0	1	0	0	0	0	0	0	0	2019	
6612	168	294.92	87372	0	0	0	0	0	1	0	0	0	0	0	0	2019	
6625	168	279.00	78630	0	0	0	0	0	1	0	0	0	0	0	0	2019	
6608	168	289.74	84134	0	0	0	0	0	1	0	0	0	0	0	0	2019	
6613	111	282.95	68100	0	0	0	0	0	1	0	0	0	0	0	1	2019	

Data Base for SMITH 3 Target Heat Rate Equation

HtRt	Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shut down 24 hours or more, in BTU/Kwh.
Hr	Number of hours the unit was synchronized during the week.
AMW	Average load on the unit, in MW.
LSRF	Load square range factor, in MW^2.
J to N	The number 1 indicates the month of the observation. All 0's indicate December.
NS	Number of start ups during the week after being shut down for 24 hours or more.
YR	The year of the observation.
*	Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

Calculation of
Target Average Net Operating Heat Rates
for January 2020 - December 2020

Unit	Month	(1) Forecast AKW * 10^3	(2) Forecast LSRF * 10^6	(3) Forecast Monthly ANOHR	(4) Forecast AKWH * 10^3 Generation	(5) Weighted ANOHR Target
SCHERER 3	Jan '20	558.4	345,302	10,626	409,310	
	Feb '20	552.7	338,295	10,489	265,835	
	Mar '20	615.3	419,128	10,391	255,359	
	Apr '20	534.1	315,926	10,792	321,002	
	May '20	536.0	318,176	10,672	390,768	
	Jun '20	619.8	425,268	10,613	410,958	
	Jul '20	646.5	462,608	10,587	474,496	
	Aug '20	644.3	459,472	10,482	470,978	
	Sep '20	615.6	419,536	10,659	437,059	
	Oct '20	537.9	320,435	10,668	350,701	
	Nov '20	423.8	198,785	10,823	235,235	
	Dec '20	561.0	348,521	10,621	381,501	10,616
CRIST 7	Jan '20	332.0	105,536	10,381	165,008	
	Feb '20	297.5	80,806	10,490	143,687	
	Mar '20	388.3	152,748	10,278	8,155	
	Apr '20	303.5	84,877	10,386	28,830	
	May '20	320.0	96,572	10,461	184,636	
	Jun '20	352.0	121,334	10,597	249,579	
	Jul '20	341.7	113,064	10,637	250,466	
	Aug '20	341.2	112,669	10,639	250,074	
	Sep '20	243.5	48,506	11,195	23,372	
	Oct '20	0.0	0	-	0	
	Nov '20	225.9	39,669	10,656	120,190	
	Dec '20	226.0	39,717	11,345	32,318	10,584

NOTE: Column (3) monthly ANOHR's are determined using the values from columns (1) and (2) in the target ANOHR equation on Page 2 of Schedule 1.

Column (5) = $(\Sigma ((3) * (4))) / (\Sigma (4))$

Calculation of
Target Average Net Operating Heat Rates
for January 2020 - December 2020

Unit	Month	(1) Forecast AKW * 10^3	(2) Forecast LSRF * 10^6	(3) Forecast Monthly ANOHR	(4) Forecast AKWH * 10^3 Generation	(5) Weighted ANOHR Target
DANIEL 1	Jan '20	186.4	34,996	11,880	103,651	
	Feb '20	157.2	24,631	12,044	49,058	
	Mar '20	202.5	41,482	11,851	92,148	
	Apr '20	172.5	29,837	11,786	76,063	
	May '20	190.9	36,754	11,536	13,745	
	Jun '20	217.1	47,837	11,265	153,490	
	Jul '20	244.8	61,131	11,054	133,179	
	Aug '20	247.3	62,411	11,037	180,787	
	Sep '20	253.5	65,641	10,999	46,650	
	Oct '20	0.0	0	-	0	
	Nov '20	0.0	0	-	0	
	Dec '20	0.0	0	-	0	11,404
DANIEL 2	Jan '20	204.7	43,591	11,373	103,575	
	Feb '20	198.5	41,392	10,556	71,454	
	Mar '20	0.0	0	-	0	
	Apr '20	260.7	65,883	10,955	35,715	
	May '20	205.2	43,771	11,056	55,621	
	Jun '20	246.9	59,985	11,041	142,710	
	Jul '20	278.1	73,697	11,039	181,308	
	Aug '20	278.6	73,928	10,857	191,140	
	Sep '20	254.3	63,115	10,994	174,678	
	Oct '20	227.7	52,219	11,177	131,138	
	Nov '20	0.0	0	-	0	
	Dec '20	196.6	40,728	11,453	117,188	11,057
SMITH 3	Jan '20	585.5	343,737	6,874	386,453	
	Feb '20	571.9	327,825	6,808	365,444	
	Mar '20	610.2	373,594	6,864	353,323	
	Apr '20	612.3	376,189	6,863	353,908	
	May '20	608.0	370,884	6,865	354,470	
	Jun '20	584.8	342,909	6,874	395,339	
	Jul '20	592.1	351,594	6,994	433,381	
	Aug '20	597.2	357,726	7,022	421,592	
	Sep '20	591.3	350,637	6,951	235,913	
	Oct '20	610.9	374,458	6,763	404,428	
	Nov '20	597.9	358,571	7,044	388,629	
	Dec '20	588.4	347,178	6,872	398,370	6,900

NOTE: Column (3) monthly ANOHR's are determined using the values from columns (1) and (2) in the target ANOHR equation on Page 2 of Schedule 1.

Column (5) = $(\Sigma ((3) * (4))) / (\Sigma (4))$

Summary of Target, Maximum, and Minimum
Average Net Operating Heat Rates
for January 2020 - December 2020

Unit	Target Heat Rate BTU/KWH (0 Points)	Minimum Attainable Heat Rate (+ 10 Points)	Maximum Attainable Heat Rate (- 10 Points)
SCHERER 3	10,616	10,298	10,934
CRIST 7	10,584	10,266	10,902
DANIEL 1	11,404	11,062	11,746
DANIEL 2	11,057	10,725	11,389
SMITH 3	6,900	6,693	7,107

II. DETERMINATION OF EQUIVALENT AVAILABILITY TARGETS

Calculation of
Target Equivalent Availabilities
for January 2020 - December 2020

Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR *	Planned Outage Hours for Jan '20 - Dec '20	Reserve Shutdown Hours for Jan '20 - Dec '20	Target Equivalent Availability **
Scherer 3	0.0342	0	822	96.8
Crist 7	0.1218	1,223	2,265	78.4
Daniel 1	0.0773	2,065	2,318	70.9
Daniel 2	0.0766	888	2,389	84.7
Smith 3	0.0376	600	358	89.9

* For Period July 2014 through June 2019.

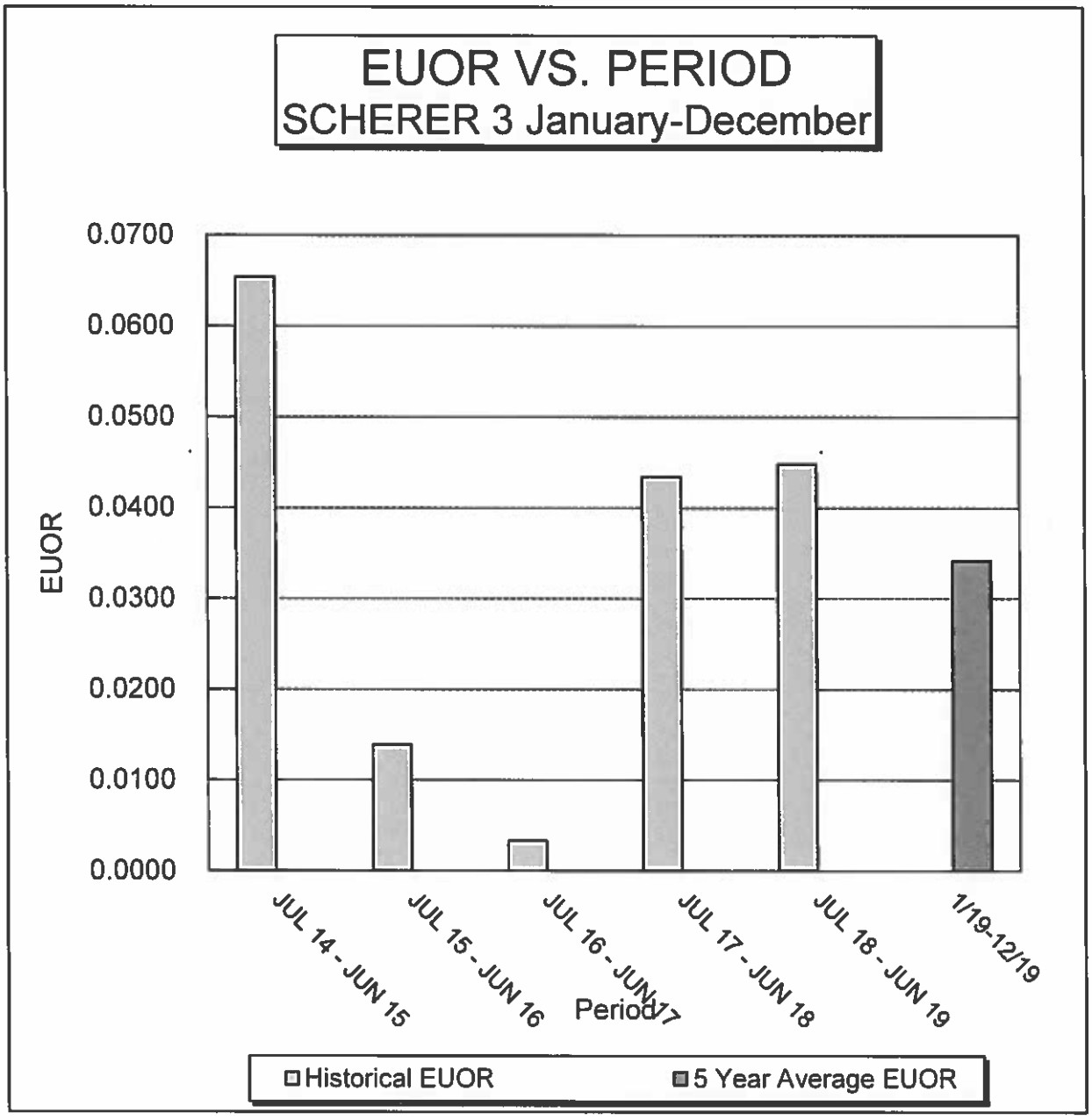
** EA = [1 - (POH + EUOR * (PH - POH - RSH)) / PH] * 100

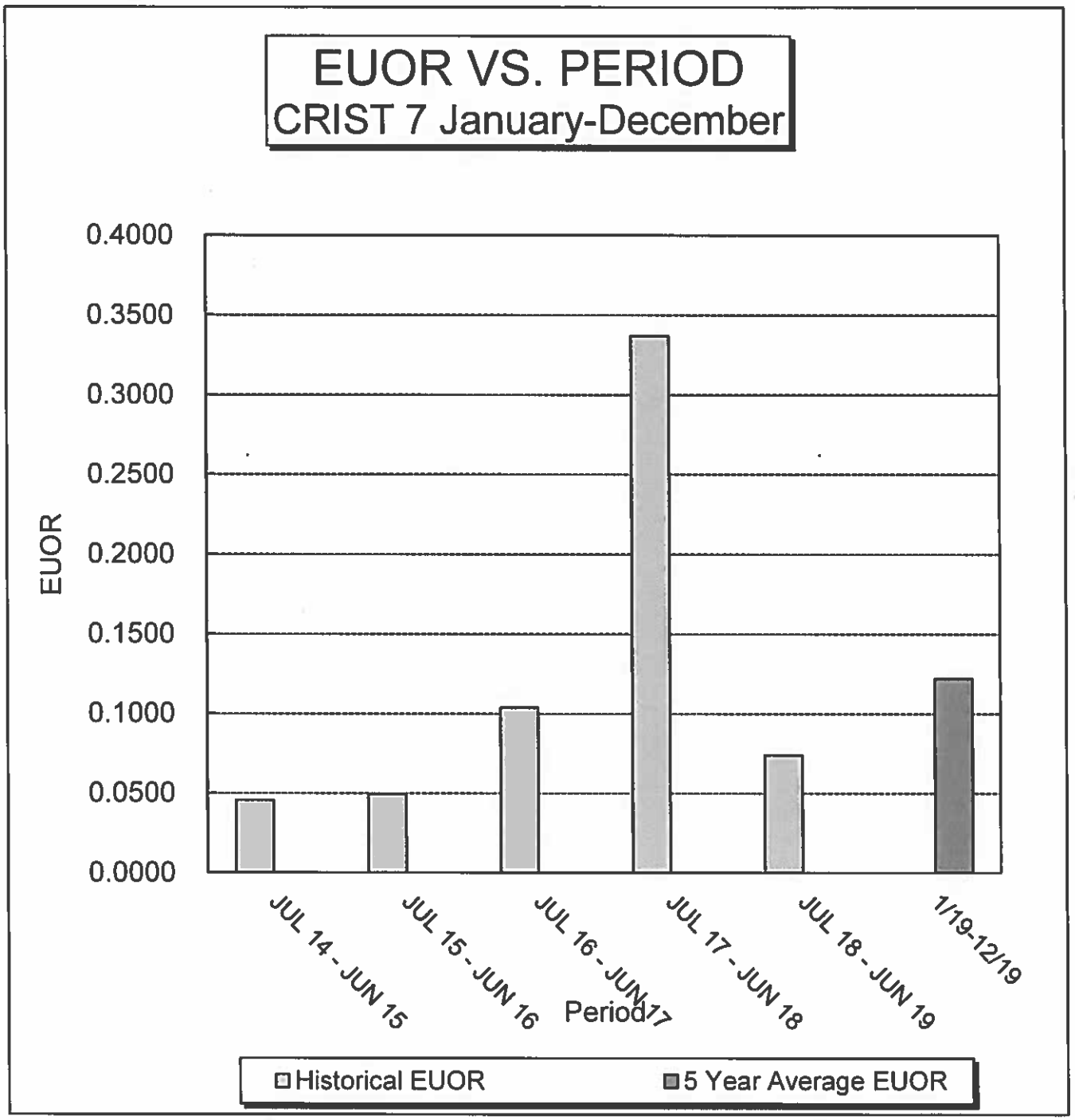
Calculation of Maximum and Minimum
Attainable Equivalent Availabilities
for January 2020 - December 2020

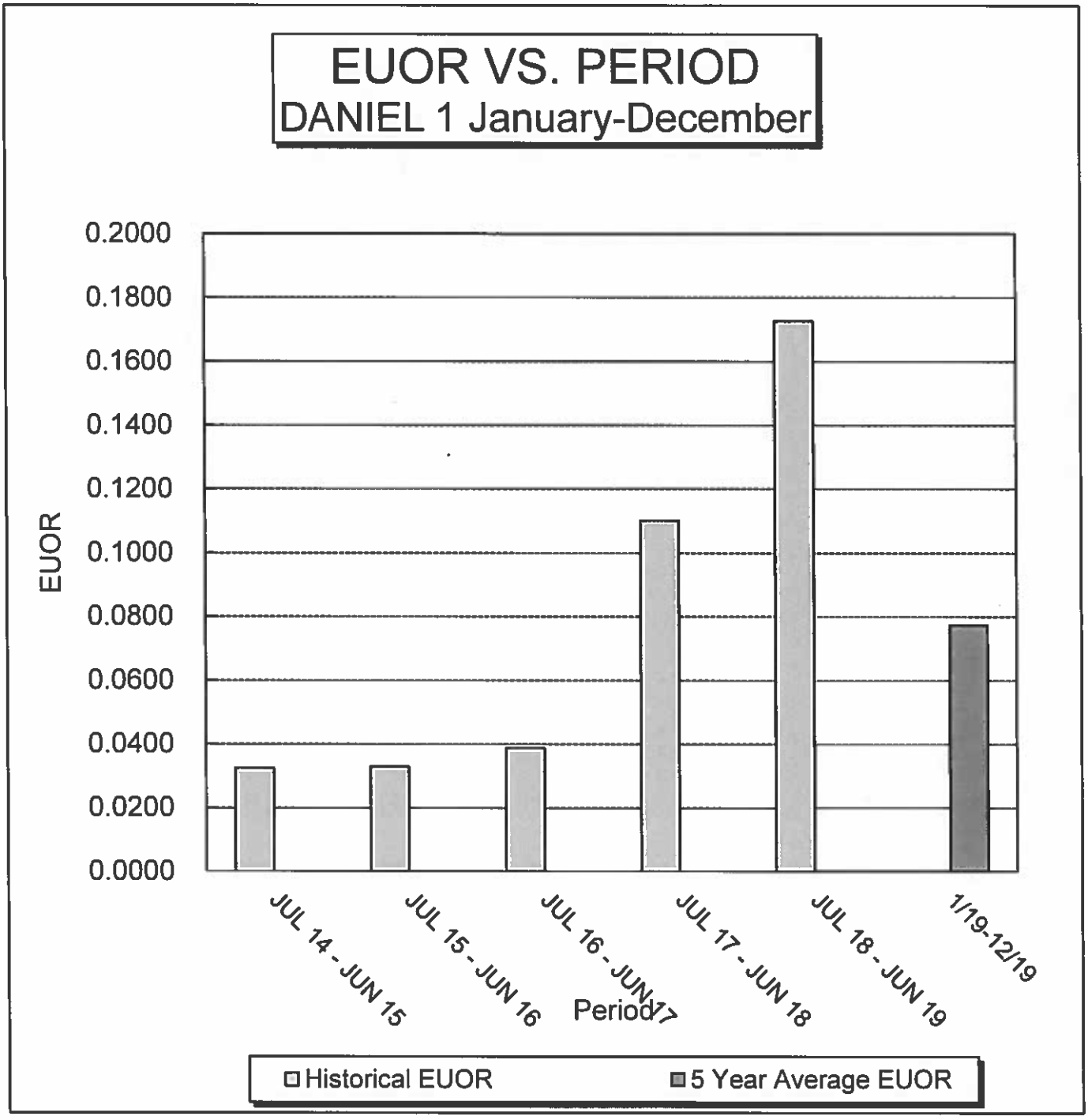
Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR (TARGET EUOR)	Minimum Attainable EUOR 70% of Target EUOR	Maximum Attainable Equivalent Availability	Maximum Attainable EUOR 145% of Target EUOR	Minimum Attainable Equivalent Availability
Scherer 3	0.0342	0.0239	97.8	0.0496	95.5
Crist 7	0.1218	0.0853	80.9	0.1766	75.4
Daniel 1	0.0773	0.0541	73.8	0.1121	70.9
Daniel 2	0.0766	0.0536	86.5	0.1111	82.9
Smith 3	0.0376	0.0263	90.8	0.0545	88.3

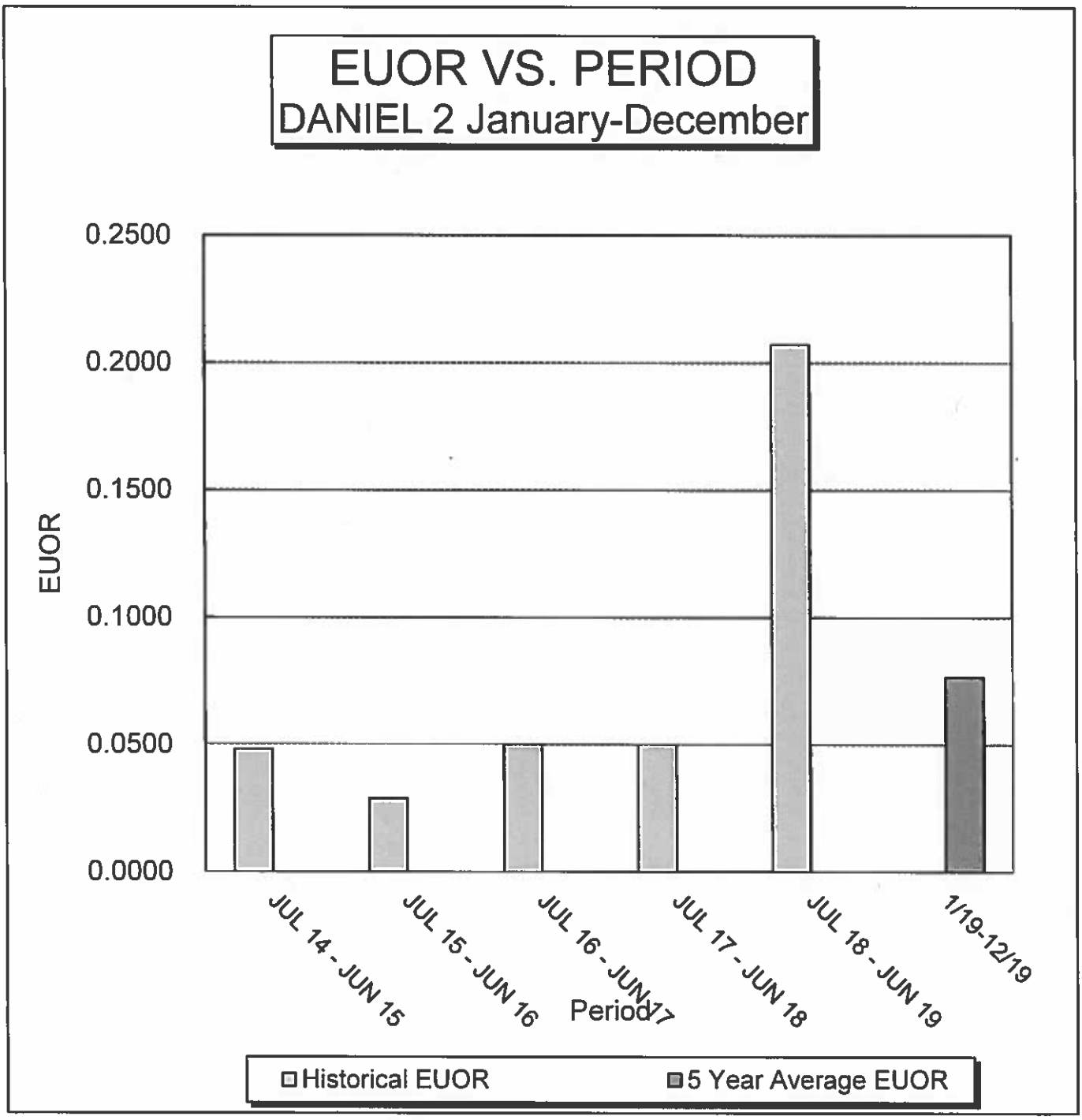
Summary of Target, Maximum, and Minimum
Equivalent Availabilities
for January 2020 - December 2020

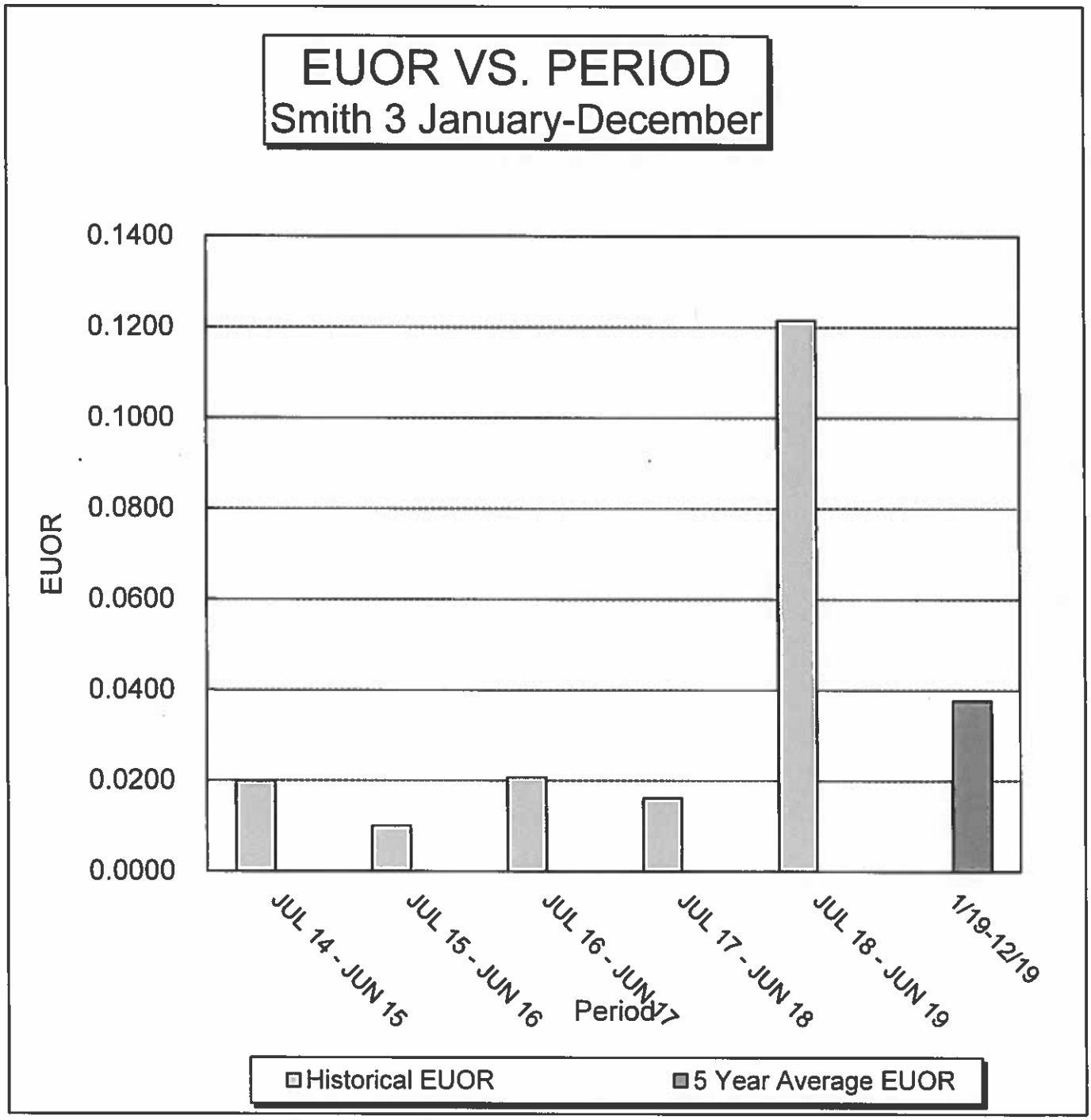
Unit	Target Equivalent Availability (0 Points)	Maximum Attainable Equivalent Availability (+10 Points)	Minimum Attainable Equivalent Availability (-10 Points)
Scherer 3	96.8	97.8	95.5
Crist 7	78.4	80.9	75.4
Daniel 1	70.9	73.8	70.9
Daniel 2	84.7	86.5	82.9
Smith 3	89.9	90.8	88.3


EUOR VS. PERIOD
SCHERER 3 January-December
EUOR
0.0700
0.0600
0.0500
0.0400
0.0300
0.0200
0.0100
0.0000
JUL 14 - JUN 15
JUL 15 - JUN 16
JUL 16 - JUN 17
JUL 17 - JUN 18
JUL 18 - JUN 19
1/19-12/19
Period
Historical EUOR
5 Year Average EUOR


EUOR VS. PERIOD
CRIST 7 January-December
0.4000
0.3500
0.3000
0.2500
0.2000
0.1500
0.1000
0.0500
0.0000
EUOR
JUL 14 - JUN 15
JUL 15 - JUN 16
JUL 16 - JUN 17
JUL 17 - JUN 18
JUL 18 - JUN 19
1/19-12/19
Period
Historical EUOR
5 Year Average EUOR


EUOR VS. PERIOD
DANIEL 1 January-December
EUOR
0.2000
0.1800
0.1600
0.1400
0.1200
0.1000
0.0800
0.0600
0.0400
0.0200
0.0000
JUL 14 - JUN 15
JUL 15 - JUN 16
JUL 16 - JUN 17
JUL 17 - JUN 18
JUL 18 - JUN 19
1/19-12/19
Period
Historical EUOR
5 Year Average EUOR


EUOR VS. PERIOD
DANIEL 2 January-December
0.2500
0.2000
0.1500
0.1000
0.0500
0.0000
EUOR
JUL 14 - JUN 15
JUL 15 - JUN 16
JUL 16 - JUN 17
JUL 17 - JUN 18
JUL 18 - JUN 19
1/19-12/19
Period
Historical EUOR
5 Year Average EUOR


EUOR VS. PERIOD
Smith 3 January-December
0.1400
0.1200
0.1000
0.0800
0.0600
0.0400
0.0200
0.0000
EUOR
JUL 14 - JUN 15
JUL 15 - JUN 16
JUL 16 - JUN 17
JUL 17 - JUN 18
JUL 18 - JUN 19
1/19-12/19
Period
Historical EUOR
5 Year Average EUOR

III. GPIF MINIMUM FILING REQUIREMENTS FOR THE PERIOD JANUARY 2020 - DECEMBER 2020

CONTENTS

Generating Performance Incentive Factor

Estimated Reward/Penalty Table

Gulf Power Company

Period of: January 2020 - December 2020

Generating Performance Incentive Factor Points	Fuel Saving/Loss ($000)	Generating Performance Incentive Factor ($000)
	Maximum Attainable Fuel Savings	Maximum Incentive Dollars Allowed by Commission During Period (Reward)
+ 10	4912	2456
+ 9	4421	2210
+ 8	3930	1965
+ 7	3438	1719
+ 6	2947	1474
+ 5	2456	1228
+ 4	1965	982
+ 3	1474	737
+ 2	982	491
+ 1	491	246
0	0	0
- 1	-502	-246
- 2	-1004	-491
- 3	-1506	-737
- 4	-2008	-982
- 5	-2510	-1228
- 6	-3011	-1474
- 7	-3513	-1719
- 8	-4015	-1965
- 9	-4517	-2210
- 10	-5019	-2456
	Minimum Attainable Fuel Loss	Maximum Incentive Dollars Allowed by Commission During Period (Penalty)

Issued by: Gulf Power Company

Generating Performance Incentive Factor

Calculation of Maximum Allowed Incentive Dollars

Estimated

Gulf Power Company

Period of: January 2020 - December 2020

Line 1	Beginning of Period Balance of Common Equity	$1,677,231,110
	End of Month Balance of Common Equity:	
Line 2	Month of Jan '20	$2,390,680,473
Line 3	Month of Feb '20	$2,407,957,894
Line 4	Month of Mar '20	$2,422,753,690
Line 5	Month of Apr '20	$2,434,596,947
Line 6	Month of May '20	$2,454,101,702
Line 7	Month of Jun '20	$2,478,329,836
Line 8	Month of Jul '20	$2,504,920,590
Line 9	Month of Aug '20	$2,270,784,586
Line 10	Month of Sep '20	$2,291,343,846
Line 11	Month of Oct '20	$2,306,180,845
Line 12	Month of Nov '20	$2,318,288,875
Line 13	Month of Dec '20	$2,332,301,723
Line 14	Average Common Equity for the Period (sum of line 1 through line 13 divided by 13)	$2,329,959,394
Line 15	25 Basis Points	0.0025
Line 16	Revenue Expansion Factor	74.4147%
Line 17	Maximum Allowed Incentive Dollars (line 14 multiplied by line 15 divided by line 16 multiplied by 1.0)	$7,827,618
Line 18	Jurisdictional Sales (KWH)	10,802,821,821
Line 19	Total Territorial Sales (KWH)	11,100,555,340
Line 20	Jurisdictional Separation Factor (line 18 divided by line 19)	97.3179%
Line 21	Maximum Allowed Jurisdictional Incentive Dollars (line 17 multiplied by line 20)	$7,617,670
Line 22	Incentive Cap (50% of Projected Fuel Savings at 10 GPIF point level from sheet 6.391.7)	$2,456,000
Line 23	Maximum Allowed GPIF Reward (at 10 GPIF Pt. leve (The lesser of Line 21 and Line 22)	$2,456,000

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GPIF Unit Performance Summary

Gulf Power Company

Period of: January 2020 - December 2020

Plant & Unit	Weighting Factor %	EAF Target %	EAF Range Max %	EAF Range Min %	Max Fuel Savings ($000)	Max Fuel Loss ($000)
Scherer 3	0.5%	96.8	97.8	95.5	$23	($35)
Crist 7	0.1%	78.4	80.9	75.4	$4	($5)
Daniel 1	0.0%	70.9	73.8	70.9	$1	($2)
Daniel 2	0.1%	84.7	86.5	82.9	$3	($4)
Smith 3	1.3%	89.9	90.8	88.3	$66	($158)

Plant & Unit	Weighting Factor %	ANOHR Target BTU/KWH	Target NOF	ANOHR Range Min BTU/KWH	ANOHR Range Max BTU/KWH	Max Fuel Savings ($000)	Max Fuel Loss ($000)
Scherer 3	24.7%	10,616	66.2	10,298	10,934	$1,211	($1,211)
Crist 7	7.4%	10,584	64.7	10,266	10,902	$365	($365)
Daniel 1	1.3%	11,404	42.2	11,062	11,746	$64	($64)
Daniel 2	3.3%	11,057	47.5	10,725	11,389	$164	($164)
Smith 3	61.3%	6,900	93.7	6,693	7,107	$3,011	($3,011)

Issued by: Gulf Power Company

Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: January 2020 - December 2020

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Target			Actual Performance 1st Prior Period Jul '18 - Jun '19			Actual Performance 2nd Prior Period Jul '17 - Jun '18		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Scherer 3	0.5%	23.7%	0.0000	0.0316	0.0342	0.1869	0.0363	0.0448	0.0000	0.0421	0.0434
Crist 7	0.1%	4.1%	0.1392	0.0771	0.1218	0.0417	0.0659	0.0739	0.1794	0.2710	0.3370
Daniel 1	0.0%	1.0%	0.2351	0.0454	0.0773	0.0000	0.1245	0.1726	0.1545	0.0802	0.1101
Daniel 2	0.1%	3.1%	0.1011	0.0521	0.0766	0.0000	0.1722	0.2070	0.0247	0.0353	0.0498
Smith 3	1.3%	68.0%	0.0683	0.0324	0.0376	0.0230	0.1183	0.1214	0.0499	0.0153	0.0161
Weighted GPIF System Average:			0.0578	0.0348	0.0419	0.0617	0.0984	0.1045	0.0437	0.0335	0.0378

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: January 2020 - December 2020

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Actual Performance 3rd Prior Period Jul '16 - Jun '17			Actual Performance 4th Prior Period Jul '15 - Jun '16			Actual Performance 5th Prior Period Jul '14 - Jun '15		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Scherer 3	0.5%	23.7%	0.1499	0.0024	0.0033	0.0000	0.0120	0.0139	0.1589	0.0550	0.0654
Crist 7	0.1%	4.1%	0.2417	0.0785	0.1036	0.1133	0.0322	0.0490	0.1938	0.0363	0.0453
Daniel 1	0.0%	1.0%	0.0372	0.0315	0.0387	0.0124	0.0135	0.0328	0.2231	0.0185	0.0324
Daniel 2	0.1%	3.1%	0.2074	0.0280	0.0497	0.0102	0.0153	0.0287	0.0495	0.0335	0.0480
Smith 3	1.3%	68.0%	0.1704	0.0171	0.0207	0.0583	0.0090	0.0100	0.0614	0.0182	0.0198
Weighted GPIF System Average:			0.1683	0.0166	0.0211	0.0448	0.0109	0.0133	0.0913	0.0281	0.0327

Issued by: Gulf Power Company

Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Average Net Operating Heat Rate

Gulf Power Company

Period of: January 2020 - December 2020

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Heat Rate Target	1st Prior Period Heat Rate Jul '18 - Jun '19	2nd Prior Period Heat Rate Jul '17 - Jun '18	3rd Prior Period Heat Rate Jul '16 - Jun '17
Scherer 3	24.7%	25.2%	10,616	10,666	10,637	10,560
Crist 7	7.4%	7.6%	10,584	10,549	10,564	10,448
Daniel 1	1.3%	1.3%	11,404	11,276	11,368	11,513
Daniel 2	3.3%	3.4%	11,057	10,934	11,014	11,468
Smith 3	61.3%	62.5%	6,900	6,827	6,928	6,990
Weighted GPIF System Average:			8,315	8,274	8,335	8,363

Issued by: Gulf Power Company

Example Calculation of Prior Season

Average Net Operating Heat Rate

Adjusted to Target Basis

Crist 7 Jul '17 - Jun '18

	Jul Jan	Aug Feb	Sep Mar	Oct Apr	Nov May	Dec Jun	
1. Target Heat Rate*	10637.0 10381.0	10639.0 10490.0	11195.0 10278.0	- 10386.0	10656.0 10461.0	11345.0 10597.0	
2. Target Heat Rate at Actual Conditions**	10681.0 10201.0	10629.0 10364.0	10647.0 0.0	10534.0 0.0	10315.0 10526.0	10845.0 10726.0	
3. Adjustments to Actual Heat Rate (1-2)	-44.0 180.0	10.0 126.0	548.0 10278.0	0.0 10386.0	341.0 -65.0	500.0 -129.0	
4. Actual Heat Rate for Prior Period	10496.0 10330.0	10692.0 10237.0	10663.0 0.0	10629.0 0.0	10039.0 10549.0	11501.0 10747.0	
5. Adjusted actual Heat Rate (4+3)	10452.0 10510.0	10702.0 10363.0	11211.0 10278.0	10629.0 10386.0	10380.0 10484.0	12001.0 10618.0	
6. Forecast Net MWH Generation*	250466.4 165007.5	250074.4 143686.8	23371.5 8155.2	0.0 28830.2	120190.2 184635.7	32318.0 249579.3	
7. Adjusted Actual Heat Rate for Jul '17 - Jun '18 = (Σ ((5)*(6)))/(Σ (6))							10,564

* For the January 2020 - December 2020 time period.

** Based on the target heat rate equation from Page 2 of Schedule 1 using actual rather than forecast variable values.

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Derivation of Weighting Factors

Gulf Power Company

Period of: January 2020 - December 2020

Plant & Unit	Unit Performance Indicator	Production Cost Simulation Fuel Cost ($000) At Target (1)	At Maximum Improvement (2)	Savings (3)	Weighting Factor (% of Savings)
Scherer 3	EA-3	$302,320	$302,297	$23	0.5%
Scherer 3	ANOHR-3	$302,320	$301,109	$1,211	24.7%
Crist 7	EA-4	$302,320	$302,316	$4	0.1%
Crist 7	ANOHR-4	$302,320	$301,955	$365	7.4%
Daniel 1	EA-5	$302,320	$302,319	$1	0.0%
Daniel 1	ANOHR-5	$302,320	$302,256	$64	1.3%
Daniel 2	EA-6	$302,320	$302,317	$3	0.1%
Daniel 2	ANOHR-6	$302,320	$302,156	$164	3.3%
Smith 3	EA-7	$302,320	$302,254	$66	1.3%
Smith 3	ANOHR-7	$302,320	$299,309	$3,011	61.3%

(1) Fuel Adjustment Base Case - All unit performance indicators at target.

(2) All other unit performance indicators at target.

(3) Expressed in replacement energy costs. Also includes variable operating and maintenance expense savings associated with availability improvements.

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2020 - December 2020

Scherer 3

Equivalent Availability Points	Fuel Savings/ Loss ($000)	Adjusted Actual Equivalent Availability	Average Heat Rate Points	Fuel Savings/ Loss ($000)	Adjusted Actual Heat Rate
+ 10	23	97.80	+ 10	1,211	10,298
+ 9	21	97.71	+ 9	1,090	10,322
+ 8	18	97.62	+ 8	969	10,347
+ 7	16	97.53	+ 7	848	10,371
+ 6	14	97.44	+ 6	727	10,395
+ 5	12	97.35	+ 5	606	10,420
+ 4	9	97.26	+ 4	484	10,444
+ 3	7	97.17	+ 3	363	10,468
+ 2	5	97.08	+ 2	242	10,492
+ 1	2	96.99	+ 1	121	10,517
				0	10,541
0	0	96.90	0	0	10,616
				0	10,691
- 1	(4)	96.76	- 1	(121)	10,715
- 2	(7)	96.62	- 2	(242)	10,740
- 3	(11)	96.48	- 3	(363)	10,764
- 4	(14)	96.34	- 4	(484)	10,788
- 5	(18)	96.20	- 5	(606)	10,813
- 6	(21)	96.06	- 6	(727)	10,837
- 7	(25)	95.92	- 7	(848)	10,861
- 8	(28)	95.78	- 8	(969)	10,885
- 9	(32)	95.64	- 9	(1,090)	10,910
- 10	(35)	95.50	- 10	(1,211)	10,934
Weighting Factor:		0.005	Weighting Factor:		0.247

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2020 - December 2020

Crist 7

Equivalent Availability Points	Fuel Savings/ Loss ($000)	Adjusted Actual Equivalent Availability	Average Heat Rate Points	Fuel Savings/ Loss ($000)	Adjusted Actual Heat Rate
+ 10	4	80.90	+ 10	365	10,266
+ 9	4	80.68	+ 9	329	10,290
+ 8	3	80.46	+ 8	292	10,315
+ 7	3	80.24	+ 7	256	10,339
+ 6	2	80.02	+ 6	219	10,363
+ 5	2	79.80	+ 5	183	10,388
+ 4	2	79.58	+ 4	146	10,412
+ 3	1	79.36	+ 3	110	10,436
+ 2	1	79.14	+ 2	73	10,460
+ 1	0	78.92	+ 1	37	10,485
				0	10,509
0	0	78.70	0	0	10,584
				0	10,659
- 1	(1)	78.37	- 1	(37)	10,683
- 2	(1)	78.04	- 2	(73)	10,708
- 3	(2)	77.71	- 3	(110)	10,732
- 4	(2)	77.38	- 4	(146)	10,756
- 5	(3)	77.05	- 5	(183)	10,781
- 6	(3)	76.72	- 6	(219)	10,805
- 7	(4)	76.39	- 7	(256)	10,829
- 8	(4)	76.06	- 8	(292)	10,853
- 9	(5)	75.73	- 9	(329)	10,878
- 10	(5)	75.40	- 10	(365)	10,902
Weighting Factor:		0.001	Weighting Factor:		0.074

Issued by: Gulf Power Company

Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2020 - December 2020

Daniel 1

Equivalent Availability Points	Fuel Savings/ Loss ($000)	Adjusted Actual Equivalent Availability	Average Heat Rate Points	Fuel Savings/ Loss ($000)	Adjusted Actual Heat Rate
+ 10	1	73.80	+ 10	64	11,062
+ 9	1	73.68	+ 9	58	11,089
+ 8	1	73.56	+ 8	51	11,115
+ 7	1	73.44	+ 7	45	11,142
+ 6	1	73.32	+ 6	38	11,169
+ 5	1	73.20	+ 5	32	11,196
+ 4	0	73.08	+ 4	26	11,222
+ 3	0	72.96	+ 3	19	11,249
+ 2	0	72.84	+ 2	13	11,276
+ 1	0	72.72	+ 1	6	11,302
				0	11,329
0	0	72.60	0	0	11,404
				0	11,479
- 1	(0)	72.43	- 1	(6)	11,506
- 2	(0)	72.26	- 2	(13)	11,532
- 3	(1)	72.09	- 3	(19)	11,559
- 4	(1)	71.92	- 4	(26)	11,586
- 5	(1)	71.75	- 5	(32)	11,613
- 6	(1)	71.58	- 6	(38)	11,639
- 7	(1)	71.41	- 7	(45)	11,666
- 8	(2)	71.24	- 8	(51)	11,693
- 9	(2)	71.07	- 9	(58)	11,719
- 10	(2)	70.90	- 10	(64)	11,746
Weighting Factor:		0.000	Weighting Factor:		0.013

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2020 - December 2020

Daniel 2

Equivalent Availability Points	Fuel Savings/ Loss ($000)	Adjusted Actual Equivalent Availability	Average Heat Rate Points	Fuel Savings/ Loss ($000)	Adjusted Actual Heat Rate
+ 10	3	86.50	+ 10	164	10,725
+ 9	3	86.36	+ 9	148	10,751
+ 8	2	86.22	+ 8	131	10,776
+ 7	2	86.08	+ 7	115	10,802
+ 6	2	85.94	+ 6	98	10,828
+ 5	2	85.80	+ 5	82	10,854
+ 4	1	85.66	+ 4	66	10,879
+ 3	1	85.52	+ 3	49	10,905
+ 2	1	85.38	+ 2	33	10,931
+ 1	0	85.24	+ 1	16	10,956
				0	10,982
0	0	85.10	0	0	11,057
				0	11,132
- 1	(0)	84.88	- 1	(16)	11,158
- 2	(1)	84.66	- 2	(33)	11,183
- 3	(1)	84.44	- 3	(49)	11,209
- 4	(2)	84.22	- 4	(66)	11,235
- 5	(2)	84.00	- 5	(82)	11,261
- 6	(2)	83.78	- 6	(98)	11,286
- 7	(3)	83.56	- 7	(115)	11,312
- 8	(3)	83.34	- 8	(131)	11,338
- 9	(4)	83.12	- 9	(148)	11,363
- 10	(4)	82.90	- 10	(164)	11,389
Weighting Factor:		0.001	Weighting Factor:		0.033

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2020 - December 2020

Smith 3

Equivalent Availability Points	Fuel Savings/ Loss ($000)	Adjusted Actual Equivalent Availability	Average Heat Rate Points	Fuel Savings/ Loss ($000)	Adjusted Actual Heat Rate
+ 10	66	90.80	+ 10	3,011	6,693
+ 9	59	90.70	+ 9	2,710	6,706
+ 8	53	90.60	+ 8	2,409	6,719
+ 7	46	90.50	+ 7	2,108	6,733
+ 6	40	90.40	+ 6	1,807	6,746
+ 5	33	90.30	+ 5	1,506	6,759
+ 4	26	90.20	+ 4	1,204	6,772
+ 3	20	90.10	+ 3	903	6,785
+ 2	13	90.00	+ 2	602	6,799
+ 1	7	89.90	+ 1	301	6,812
				0	6,825
0	0	89.80	0	0	6,900
				0	6,975
- 1	(16)	89.65	- 1	(301)	6,988
- 2	(32)	89.50	- 2	(602)	7,001
- 3	(47)	89.35	- 3	(903)	7,015
- 4	(63)	89.20	- 4	(1,204)	7,028
- 5	(79)	89.05	- 5	(1,506)	7,041
- 6	(95)	88.90	- 6	(1,807)	7,054
- 7	(111)	88.75	- 7	(2,108)	7,067
- 8	(126)	88.60	- 8	(2,409)	7,081
- 9	(142)	88.45	- 9	(2,710)	7,094
- 10	(158)	88.30	- 10	(3,011)	7,107
Weighting Factor:		0.013	Weighting Factor:		0.613

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Notes Regarding Estimated Planned Outage Schedules

Gulf Power Company

Period of: January 2020 - December 2020

It is important to understand that estimated dates for planned outages and their bar chart schedules are frequently changed in timing and work scope due to system conditions, findings of inspections, subcontractor requirements, material availability and so on.

Please note that in addition to the outages scheduled for the target period of January 2020 - December 2020, the outages shown below are currently planned and could be rescheduled for the target period.

Plant & Unit	Planned Outage Dates	Reason for Outage
None		

ESTIMATED UNIT PERFORMANCE DATA

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2020 - December 2020

	SCHERER 3	Jan '20	Feb '20	Mar '20	Apr '20	May '20	Jun '20	
1.	EAF (%)	98.8	98.7	79.5	95.4	98.8	98.8	
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3.	EUOF (%)	1.2	1.3	20.5	4.6	1.2	1.2	
4.	EUOR (%)	1.2	1.8	26.8	5.2	1.2	1.3	
5.	PH	744.0	696.0	743.0	720.0	744.0	720.0	
6.	SH	733.0	481.0	415.0	601.0	729.0	663.0	
7.	RSH	2.0	206.0	176.0	86.0	6.0	48.0	
8.	UH	9.0	9.0	152.0	33.0	9.0	9.0	
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	9.0	9.0	8.0	9.0	9.0	9.0	
11.	MOH & EMOH	0.0	0.0	144.0	24.0	0.0	0.0	
12.	Oper MBtu	4349332	2788341	2653430	3464254	4170279	4361497	
13.	Net Gen (MWH)	409310.4	265834.8	255358.5	321002.0	390768.3	410958.0	
14.	ANOHR (Btu/KWH)	10626.0	10489.0	10391.0	10792.0	10672.0	10613.0	
15.	NOF %	64.6	63.9	71.1	61.7	62.0	71.7	
16.	NPC (MW)	865.0	865.0	865.0	865.0	865.0	865.0	

19.	ANOHR Equation	10^6 / AKW * [606.47 - 82.01 * FEB - 83.21 * MAR + 61.89 * APR + 58.15 * JUN + 70.05 * JUL + 82.11 * SEP - 62.77 * NOV] + 9,540

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2020 - December 2020

	SCHERER 3	Jul '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20	Total
1.	EAF (%)	98.8	98.8	98.8	98.7	98.6	98.7	96.8
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.	EUOF (%)	1.2	1.2	1.2	1.3	1.4	1.3	3.2
4.	EUOR (%)	1.2	1.2	1.3	1.5	1.8	1.4	3.5
5.	PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6.	SH	734.0	731.0	710.0	652.0	555.0	680.0	7684.0
7.	RSH	1.0	4.0	1.0	82.0	156.0	54.0	822.0
8.	UH	9.0	9.0	9.0	10.0	10.0	10.0	278.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.	FOH & EFOH	9.0	9.0	9.0	10.0	10.0	10.0	110.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	168.0
12.	Oper MBtu	5023490	4936791	4658611	3741275	2545948	4051923	46745171
13.	Net Gen (MWH)	474496.1	470978.0	437058.9	350700.7	235234.9	381501.1	4403201.7
14.	ANOHR (Btu/KWH)	10587.0	10482.0	10659.0	10668.0	10823.0	10621.0	10616.0
15.	NOF %	74.7	74.5	71.2	62.2	49.0	64.9	66.2
16.	NPC (MW)	865.0	865.0	865.0	865.0	865.0	865.0	865.0

19.	ANOHR Equation	10^6 / AKW * [606.47 - 82.01 * FEB - 83.21 * MAR + 61.89 * APR + 58.15 * JUN + 70.05 * JUL + 82.11 * SEP - 62.77 * NOV] + 9,540

Issued by: Gulf Power Company

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2020 - December 2020

	CRIST 7	Jan '20	Feb '20	Mar '20	Apr '20	May '20	Jun '20	
1.	EAF (%)	98.9	98.9	19.2	13.3	89.4	98.9	
2.	POF (%)	0.0	0.0	80.6	86.7	0.0	0.0	
3.	EUOF (%)	1.1	1.1	0.2	0.0	10.6	1.1	
4.	EUOR (%)	1.6	1.6	4.5	0.0	12.0	1.1	
5.	PH	744.0	696.0	743.0	720.0	744.0	720.0	
6.	SH	497.0	483.0	21.0	95.0	577.0	709.0	
7.	RSH	239.0	205.0	122.0	1.0	88.0	3.0	
8.	UH	8.0	8.0	600.0	624.0	79.0	8.0	
9.	POH	0.0	0.0	599.0	624.0	0.0	0.0	
10.	FOH & EFOH	8.0	8.0	0.0	0.0	7.0	8.0	
11.	MOH & EMOH	0.0	0.0	1.0	0.0	72.0	0.0	
12.	Oper MBtu	1712943	1507275	83819	299431	1931474	2644791	
13.	Net Gen (MWH)	165007.5	143686.8	8155.2	28830.2	184635.7	249579.3	
14.	ANOHR (Btu/KWH)	10381.0	10490.0	10278.0	10386.0	10461.0	10597.0	
15.	NOF %	69.9	62.6	81.8	63.9	67.4	74.1	
16.	NPC (MW)	475.0	475.0	475.0	475.0	475.0	475.0	

19.	ANOHR Equation	10^6 / AKW * [472.40 - 98.31 * JAN - 105.00 * FEB - 75.12 * MAR - 128.98 * APR - 86.23 * MAY - 72.19 * OCT - 155.88 * NOV] + 9,255

Issued by: Gulf Power Company

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2020 - December 2020

	CRIST 7	Jul '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20	Total
1.	EAF (%)	98.9	99.2	59.0	69.9	98.9	95.7	78.4
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	13.9
3.	EUOF (%)	1.1	0.8	41.0	30.1	1.1	4.3	7.7
4.	EUOR (%)	1.1	0.8	75.4	100.0	1.5	18.3	12.8
5.	PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6.	SH	733.0	733.0	96.0	0.0	532.0	143.0	4619.0
7.	RSH	3.0	5.0	329.0	520.0	181.0	569.0	2265.0
8.	UH	8.0	6.0	295.0	224.0	8.0	32.0	1900.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	1223.0
10.	FOH & EFOH	8.0	6.0	7.0	8.0	8.0	8.0	76.0
11.	MOH & EMOH	0.0	0.0	288.0	216.0	0.0	24.0	601.0
12.	Oper MBtu	2664211	2660541	261644	0	1280746	366648	15413523
13.	Net Gen (MWH)	250466.4	250074.4	23371.5	0.0	120190.2	32318.0	1456315.2
14.	ANOHR (Btu/KWH)	10637.0	10639.0	11195.0	-	10656.0	11345.0	10584.0
15.	NOF %	68.3	68.2	48.7	0.0	45.2	45.2	64.7
16.	NPC (MW)	500.0	500.0	500.0	500.0	500.0	500.0	487.5

19.	ANOHR Equation	10^6 / AKW * [472.40 - 98.31 * JAN - 105.00 * FEB - 75.12 * MAR - 128.98 * APR - 86.23 * MAY - 72.19 * OCT - 155.88 * NOV] + 9,255

Issued by: Gulf Power Company

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2020 - December 2020

	DANIEL 1	Jan '20	Feb '20	Mar '20	Apr '20	May '20	Jun '20	
1.	EAF (%)	98.3	98.3	72.8	96.0	60.2	98.2	
2.	POF (%)	0.0	0.0	25.8	3.3	0.0	0.0	
3.	EUOF (%)	1.7	1.7	1.4	0.7	39.8	1.8	
4.	EUOR (%)	2.3	3.7	2.2	1.1	80.4	1.8	
5.	PH	744.0	696.0	743.0	720.0	744.0	720.0	
6.	SH	556.0	312.0	455.0	441.0	72.0	707.0	
7.	RSH	175.0	372.0	86.0	250.0	376.0	0.0	
8.	UH	13.0	12.0	202.0	29.0	296.0	13.0	
9.	POH	0.0	0.0	192.0	24.0	0.0	0.0	
10.	FOH & EFOH	13.0	12.0	10.0	5.0	8.0	13.0	
11.	MOH & EMOH	0.0	0.0	0.0	0.0	288.0	0.0	
12.	Oper MBtu	1231376	590856	1092048	896475	158561	1729070	
13.	Net Gen (MWH)	103651.2	49058.1	92148.2	76062.7	13744.9	153490.4	
14.	ANOHR (Btu/KWH)	11880.0	12044.0	11851.0	11786.0	11536.0	11265.0	
15.	NOF %	37.1	31.3	40.3	34.4	38.0	43.2	
16.	NPC (MW)	502.0	502.0	502.0	502.0	502.0	502.0	

19.	ANOHR Equation	10^6 / AKW * [513.64 + 53.71 * JAN + 90.24 * MAR - 77.10 * OCT - 78.86 * NOV] + 8,476 + 0.00192 * LSRF / AKW

Issued by: Gulf Power Company

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2020 - December 2020

	DANIEL 1	Jul '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20	Total
1.	EAF (%)	98.3	98.3	80.0	0.0	0.0	64.5	70.9
2.	POF (%)	0.0	0.0	16.7	100.0	100.0	35.5	23.5
3.	EUOF (%)	1.7	1.7	3.3	0.0	0.0	0.0	4.6
4.	EUOR (%)	2.3	1.7	11.5	0.0	0.0	0.0	9.1
5.	PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6.	SH	544.0	731.0	184.0	0.0	0.0	0.0	4002.0
7.	RSH	187.0	0.0	392.0	0.0	0.0	480.0	2318.0
8.	UH	13.0	13.0	144.0	744.0	721.0	264.0	2464.0
9.	POH	0.0	0.0	120.0	744.0	721.0	264.0	2065.0
10.	FOH & EFOH	13.0	13.0	0.0	0.0	0.0	0.0	87.0
11.	MOH & EMOH	0.0	0.0	24.0	0.0	0.0	0.0	312.0
12.	Oper MBtu	1472162	1995347	513103	0	0	0	9678998
13.	Net Gen (MWH)	133179.1	180787.1	46650.0	0.0	0.0	0.0	848771.7
14.	ANOHR (Btu/KWH)	11054.0	11037.0	10999.0	-	-	-	11404.0
15.	NOF %	48.8	49.3	50.5	0.0	0.0	0.0	42.2
16.	NPC (MW)	502.0	502.0	502.0	502.0	502.0	502.0	502.0

19.	ANOHR Equation	10^6 / AKW * [513.64 + 53.71 * JAN + 90.24 * MAR - 77.10 * OCT - 78.86 * NOV] + 8,476 + 0.00192 * LSRF / AKW

Issued by: Gulf Power Company

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2020 - December 2020

	DANIEL 2	Jan '20	Feb '20	Mar '20	Apr '20	May '20	Jun '20	
1.	EAF (%)	97.4	97.4	78.6	30.0	48.4	96.7	
2.	POF (%)	0.0	0.0	0.0	70.0	51.6	0.0	
3.	EUOF (%)	2.6	2.6	21.4	0.0	0.0	3.3	
4.	EUOR (%)	3.6	4.8	100.0	0.0	0.0	4.0	
5.	PH	744.0	696.0	743.0	720.0	744.0	720.0	
6.	SH	506.0	360.0	0.0	137.0	271.0	578.0	
7.	RSH	219.0	318.0	584.0	79.0	89.0	118.0	
8.	UH	19.0	18.0	159.0	504.0	384.0	24.0	
9.	POH	0.0	0.0	0.0	504.0	384.0	0.0	
10.	FOH & EFOH	19.0	18.0	15.0	0.0	0.0	24.0	
11.	MOH & EMOH	0.0	0.0	144.0	0.0	0.0	0.0	
12.	Oper MBtu	1177958	754268	0	391255	614947	1575657	
13.	Net Gen (MWH)	103574.9	71454.0	0.0	35714.8	55621.1	142709.7	
14.	ANOHR (Btu/KWH)	11373.0	10556.0	-	10955.0	11056.0	11041.0	
15.	NOF %	40.8	39.5	0.0	51.9	40.9	49.2	
16.	NPC (MW)	502.0	502.0	502.0	502.0	502.0	502.0	

19.	ANOHR Equation	10^6 / AKW * [398.23 - 174.36 * FEB - 127.75 * MAR - 64.08 * MAY + 49.83 * JUL] + 9,428

Issued by: Gulf Power Company

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2020 - December 2020

	DANIEL 2	Jul '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20	Total
1.	EAF (%)	96.6	96.9	97.5	97.4	81.3	97.6	84.7
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	10.1
3.	EUOF (%)	3.4	3.1	2.5	2.6	18.7	2.4	5.2
4.	EUOR (%)	3.7	3.2	2.6	3.2	100.0	2.9	8.3
5.	PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6.	SH	652.0	686.0	687.0	576.0	0.0	596.0	5049.0
7.	RSH	67.0	35.0	15.0	149.0	586.0	130.0	2389.0
8.	UH	25.0	23.0	18.0	19.0	135.0	18.0	1346.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	888.0
10.	FOH & EFOH	25.0	23.0	18.0	19.0	15.0	18.0	194.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	120.0	0.0	264.0
12.	Oper MBtu	2001460	2075210	1920410	1465734	0	1342157	13319056
13.	Net Gen (MWH)	181308.0	191140.3	174678.0	131138.5	0.0	117188.3	1204527.4
14.	ANOHR (Btu/KWH)	11039.0	10857.0	10994.0	11177.0	-	11453.0	11057.0
15.	NOF %	55.4	55.5	50.6	45.4	0.0	39.2	47.5
16.	NPC (MW)	502.0	502.0	502.0	502.0	502.0	502.0	502.0

19.	ANOHR Equation	10^6 / AKW * [398.23 - 174.36 * FEB - 127.75 * MAR - 64.08 * MAY + 49.83 * JUL] + 9,428

Issued by: Gulf Power Company

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2020 - December 2020

	SMITH 3	Jan '20	Feb '20	Mar '20	Apr '20	May '20	Jun '20	
1.	EAF (%)	99.3	99.3	80.1	83.3	80.6	99.3	
2.	POF (%)	0.0	0.0	0.0	10.0	19.4	0.0	
3.	EUOF (%)	0.7	0.7	19.9	6.7	0.0	0.7	
4.	EUOR (%)	0.8	0.8	20.4	7.7	0.0	0.7	
5.	PH	744.0	696.0	743.0	720.0	744.0	720.0	
6.	SH	660.0	639.0	579.0	578.0	583.0	676.0	
7.	RSH	79.0	52.0	16.0	22.0	17.0	39.0	
8.	UH	5.0	5.0	148.0	120.0	144.0	5.0	
9.	POH	0.0	0.0	0.0	72.0	144.0	0.0	
10.	FOH & EFOH	5.0	5.0	4.0	0.0	0.0	5.0	
11.	MOH & EMOH	0.0	0.0	144.0	48.0	0.0	0.0	
12.	Oper MBtu	2656477	2487941	2425208	2428870	2433438	2717563	
13.	Net Gen (MWH)	386452.8	365443.7	353322.9	353907.8	354470.2	395339.3	
14.	ANOHR (Btu/KWH)	6874.0	6808.0	6864.0	6863.0	6865.0	6874.0	
15.	NOF %	90.6	88.5	95.9	96.3	95.6	93.2	
16.	NPC (MW)	646.3	646.3	636.0	636.0	636.0	627.2	

19.	ANOHR Equation	10^6 / AKW * [-105.54 - 40.39 * FEB + 72.63 * JUL + 91.40 * AUG + 46.84 * SEP - 61.62 * OCT + 104.67 * NOV] + 7,448 - 0.00067 * LSRF / AKW

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2020 - December 2020

	SMITH 3	Jul '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20	Total
1.	EAF (%)	99.3	99.3	56.3	89.8	92.8	99.3	89.9
2.	POF (%)	0.0	0.0	43.3	9.7	0.0	0.0	6.8
3.	EUOF (%)	0.7	0.7	0.4	0.5	7.2	0.7	3.2
4.	EUOR (%)	0.7	0.7	0.7	0.6	7.4	0.7	3.6
5.	PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6.	SH	732.0	706.0	399.0	662.0	650.0	677.0	7541.0
7.	RSH	7.0	33.0	6.0	6.0	19.0	62.0	358.0
8.	UH	5.0	5.0	315.0	76.0	52.0	5.0	885.0
9.	POH	0.0	0.0	312.0	72.0	0.0	0.0	600.0
10.	FOH & EFOH	5.0	5.0	3.0	4.0	4.0	5.0	45.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	48.0	0.0	240.0
12.	Oper MBtu	3031067	2960417	1639831	2735145	2737505	2737597	30991059
13.	Net Gen (MWH)	433381.0	421591.8	235913.0	404427.8	388629.4	398369.8	4491249.5
14.	ANOHR (Btu/KWH)	6994.0	7022.0	6951.0	6763.0	7044.0	6872.0	6900.0
15.	NOF %	94.4	95.2	94.3	96.1	94.0	91.0	93.7
16.	NPC (MW)	627.2	627.2	627.2	636.0	636.0	646.3	635.6

19.	ANOHR Equation	10^6 / AKW * [-105.54 - 40.39 * FEB + 72.63 * JUL + 91.40 * AUG + 46.84 * SEP - 61.62 * OCT + 104.67 * NOV] + 7,448 - 0.00067 * LSRF / AKW

Issued by: Gulf Power Company

Planned Outage Schedules (Estimated)

Gulf Power Company

Period of: January 2020 - December 2020

Plant & Unit	Planned Outage Dates			Reason for Outage
Crist 7	03/07/20	-	04/26/20	Boiler outage
Smith 3	04/28/20	-	05/06/20	Borescope inspection
Smith 3	09/18/20	-	10/03/20	Borescope inspection
Daniel 1	03/24/20	-	04/01/20	Scrubber duct inspection
Daniel 1	09/26/20	-	12/11/20	Boiler outage
Daniel 2	04/10/20	-	05/17/20	Boiler outage

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

IN RE: **Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor**)

Docket No.: **20190001-EI**

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true copy of the foregoing was furnished by electronic mail this 3rd day of September, 2019 to the following:

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