



June 19, 1998

Ms. Blanca S. Bayo, Director
Division of Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee FL 32399-0870

Dear Ms. Bayo:

Enclosed for official filing in Docket No. 980001-EI are an original and ten copies of the following:

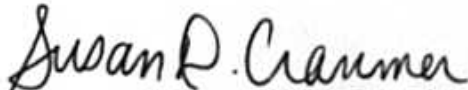
1. Petition of Gulf Power Company for Approval of Final Fuel Cost Recovery True-up Amounts and GPIF Adjustment for October 1997 through March 1998; Estimated Fuel Cost Recovery True-up Amounts for April 1998 through September 1998; Projected Fuel Cost Recovery Amounts for October 1998 through December 1998; Final Purchased Power Capacity Cost Recovery True-up Amounts for October 1996 through September 1997; Estimated Purchased Power Capacity Cost Recovery True-up Amounts for October 1997 through September 1998; Projected Purchased Power Capacity Cost Recovery True-up Amounts for October 1998 through December 1998; GPIF Targets and Ranges for October 1998 through December 1998; Estimated As-available Avoided Energy Costs and Fuel Cost Recovery Factors to be applied beginning with the period October 1998 through December 1998; Capacity Cost Recovery Factors to be applied to with the period October 1998 through December 1998. *06567-98*
2. Prepared direct testimony and exhibit of M. F. Oaks. *06568-98*
3. Prepared direct testimony and exhibit of G. D. Fontaine. *06569-98*
4. Prepared direct testimony and exhibit of M. W. Howell. *06570-98*
5. Prepared direct testimony and exhibit of S. D. Cranmer. *06571-98*

ACK _____
AFA _____
APP _____
CAF _____
CMU _____
CTR _____
EAG _____
LEG _____
LIN _____
OPC _____
RCH _____
SEC _____
WAS _____
OTH _____

Ms. Blanca S. Bayo
June 19, 1998
Page Two

Also enclosed is a 3.5 inch double sided, double density diskette containing the Petition in WordPerfect for Windows 6.1 format as prepared on a NT computer.

Sincerely,



Susan D. Cranmer
Assistant Secretary and Assistant Treasurer

lw

Enclosures

cc: Beggs and Lane
Jeffrey A. Stone, Esquire

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

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

Docket No. 980001-EI

Certificate of Service

I HEREBY CERTIFY that a true copy of the foregoing was furnished by hand delivery or the U. S. Mail this 14th day of June 1998 on the following:

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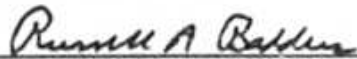
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Attorneys for Gulf Power Company

1 GULF POWER COMPANY
2 Before the Florida Public Service Commission
3 Direct Testimony of
4 G. D. Fontaine
5 Docket No. 980001-EI
6 Date of Filing June 22, 1998

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

8 A. My name is George D. Fontaine, my business address is
9 One Energy Place, Pensacola, Florida 32520-0335, and my
10 position is Performance Test Specialist for Gulf Power
11 Company.

12 Q. Please describe your educational and business
13 background.

14 A. I received my Bachelor of Mechanical Engineering Degree
15 from Auburn University in 1980. Following graduation,
16 I joined Gulf Power Company as an Associate Engineer at
17 the Scholz Electric Generating Plant, and as I
18 previously stated, my current position is Performance
19 Test Specialist. I am also a registered Professional
20 Engineer in the State of Florida.

21
22 Q. Have you previously testified in this Docket?

23 A. Yes. I have presented testimony regarding the
24 Generating Performance Incentive Factor (GPIF)
25 periodically for the past several years.

06569-98

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

3 A. The purpose of my testimony today is to present GPIF
4 targets for Gulf Power Company for the period of October 1,
5 1998 through December 31, 1998.

6

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

9 A. Yes, I have prepared an exhibit consisting of three
10 schedules.

11

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

14 A. Yes, it was.

15

16 Counsel: We ask that Mr. Fontaine's exhibit be
17 marked for identification as exhibit _____ (GDF-2).

18

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

21 A. We propose that Crist Units 6 and 7, Smith Units 1 and
22 2, and Daniel Units 1 and 2 continue to be the
23 Company's GPIF units.

24

25

1 Q. What are the target heat rates Gulf proposes to use in
2 the GPIF for these units for the performance period
3 October 1, 1998 through December 31, 1998?

4 A. I would like to refer you to Page 32 of Schedule 1 of
5 my exhibit where these targets are listed.
6

7 Q. How were these proposed target heat rates determined?

8 A. In every case they were determined according to the
9 GPIF implementation manual procedures for Gulf.
10 Page 2 of Schedule 1 shows the target average net
11 operating heat rate equations for the proposed GPIF
12 units, and pages 4 through 29 of Schedule 1 contain the
13 weekly historical data used for the statistical
14 development of these equations.
15 Pages 30 and 31 of Schedule 1 present the calculations
16 which provide the unit target heat rates from the
17 target equations.
18

19 Q. Were the maximum and minimum attainable heat rates for
20 each proposed GPIF unit, indicated on page 32 of
21 Schedule 1, calculated according to the appropriate
22 GPIF implementation manual procedures?

23 A. Yes.
24
25

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

3 A. The target equivalent availabilities and their ranges
4 are listed on page 4 of Schedule 2.
5

6 Q. How are these target equivalent availabilities
7 determined?

8 A. The target equivalent availabilities were determined
9 according to the standard GPIF implementation manual
10 procedures for Gulf, and are presented on page 2 of
11 Schedule 2.
12

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

15 A. The maximum and minimum attainable equivalent
16 availabilities, which are presented along with their
17 respective target availabilities on page 4 of Schedule
18 2, were determined per GPIF manual procedures for Gulf.
19

20 Q. Mr. Fontaine, has Gulf completed the GPIF minimum
21 filing requirements data package?

22 A. Yes, we have completed the required data. Schedule 3
23 of my exhibit contains this information.
24
25

1 Q. Mr. Fontaine, would you please summarize your
2 testimony?

3 A. Yes. Gulf asks that the Commission accept:

4 1. Crist Units 6 and 7, Smith Units 1 and 2 and Daniel
5 Units 1 and 2, for inclusion under the GPIF for the
6 period of October 1, 1998 through December 31, 1998.

7

8 2. The target, maximum attainable, and minimum
9 attainable average net operating heat rates, as
10 proposed by the Company and as shown on page 32 of
11 Schedule 1 and also page 5 of Schedule 3 of my
12 exhibit.

13

14 3. The target, maximum attainable, and minimum
15 attainable equivalent availabilities, as proposed
16 by the Company and as shown on Page 4 of Schedule
17 2 and also page 5 of Schedule 3 of my exhibit.

18

19 4. The weekly average net operating heat rate least
20 squares regression equations, shown on page 2 of
21 Schedule 1 and also pages 18 through 23 of
22 Schedule 3 of my exhibit, for use in adjusting the
23 six-month actual unit heat rates to target
24 conditions.

25

1 Q. Mr. Fontaine, does this conclude your testimony?

2 A. Yes, Sir.

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Florida Public Service Commission
Docket No. 980001-EI
Gulf Power Company
Witness: G. D. Fontaine
Exhibit No. ____ (GDF-2)

EXHIBIT TO THE TESTIMONY OF
G. D. FONTAINE
IN FPSC DOCKET 980001-EI

I. DETERMINATION OF HEAT RATE TARGETS

Target Heat Rate Equations

Crist 6 ANOHR $10^{-6} / AKW * [425.50 - 38.13 * FEB - 32.39 * MAR - 43.76 * OCT]$
 $+ 6.831 + 0.00773 * LSRF / AKW$

Crist 7 ANOHR $10^{-6} / AKW * [308.05 + 76.91 * MAY + 35.39 * JUN + 95.55 * JUL + 47.29 * AUG]$
 $+ 9.460$

Smith 1 ANOHR $10^{-6} / AKW * [66.60 + 13.44 * JAN + 16.58 * FEB + 11.46 * MAR - 8.41 * MAY + 11.13 * JUL]$
 $+ 9.760$

Smith 2 ANOHR $10^{-6} / AKW * [159.06 + 14.06 * JAN + 42.51 * MAR + 24.16 * JUL - 20.05 * AUG]$
 $+ 6.911 + 0.01352 * LSRF / AKW$

Daniel 1 ANOHR $10^{-6} / AKW * [-141.87 - 50.17 * MAR]$
 $+ 12.568 - 0.00408 * LSRF / AKW$

Daniel 2 ANOHR $10^{-6} / AKW * [4.25 - 61.50 * JAN - 54.19 * FEB - 46.22 * MAR - 38.23 * OCT]$
 $+ 11.573 - 0.00296 * LSRF / AKW$

Where: ANOHR = Average Net Operating Heat Rate, BTU/KWH
AKW = Average Kilowatt Load, KW
LSRF = Load Square Range Factor, KW²
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 CRIST 6 Target Heat Rate Equation

HR	HOUR	AMW	LSRP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
11023	167	160.6	31249	0	0	0	1	0	0	0	0	0	0	0	0	1995
11259	143	139.9	22998	0	0	0	1	0	0	0	0	0	0	0	0	1995
11199	154	172.5	35840	0	0	0	1	0	0	0	0	0	0	0	1	1995
12451	11	107.4	12726	0	0	0	1	0	0	0	0	0	0	0	0	1995
11490	107	138.7	22485	0	0	0	0	1	0	0	0	0	0	0	1	1995
11286	168	148.2	25839	0	0	0	0	1	0	0	0	0	0	0	0	1995
11169	168	180.9	38194	0	0	0	0	1	0	0	0	0	0	0	0	1995
11121	168	176.0	38226	0	0	0	0	1	0	0	0	0	0	0	0	1995
11501	168	138.4	21466	0	0	0	0	1	0	0	0	0	0	0	0	1995
10949	168	195.4	44859	0	0	0	0	0	1	0	0	0	0	0	0	1995
11345	104	155.7	29441	0	0	0	0	0	1	0	0	0	0	0	0	1995
11218	76	159.0	29713	0	0	0	0	0	1	0	0	0	0	0	2	1995
10840	168	210.3	50639	0	0	0	0	0	1	0	0	0	0	0	0	1995
11418	108	150.1	26757	0	0	0	0	0	0	1	0	0	0	0	1	1995
11025	168	184.4	40441	0	0	0	0	0	0	1	0	0	0	0	0	1995
10903	168	192.9	43860	0	0	0	0	0	0	1	0	0	0	0	0	1995
10916	168	184.3	38638	0	0	0	0	0	0	1	0	0	0	0	0	1995
11159	168	176.6	36791	0	0	0	0	0	0	0	1	0	0	3	0	1995
11188	168	178.2	36748	0	0	0	0	0	0	0	1	0	0	3	0	1995
11109	168	230.1	60291	0	0	0	0	0	0	0	1	0	0	0	0	1995
10928	168	210.7	50719	0	0	0	0	0	0	0	1	0	0	0	0	1995
11305	168	188.4	40732	0	0	0	0	0	0	0	1	0	0	0	0	1995
12225	108	119.8	15657	0	0	0	0	0	0	0	0	1	0	0	0	1995
11991	116	155.8	26778	0	0	0	0	0	0	0	0	1	0	0	1	1995
11784	76	162.9	30184	0	0	0	0	0	0	0	0	1	0	0	1	1995
10808	132	170.8	34980	0	0	0	0	0	0	0	0	0	1	0	1	1995
10662	168	171.6	35309	0	0	0	0	0	0	0	0	0	1	0	0	1995
10953	169	163.4	32659	0	0	0	0	0	0	0	0	0	0	1	0	1995
11235	168	179.6	39233	0	0	0	0	0	0	0	0	0	0	1	0	1995
11656	168	128.3	17397	0	0	0	0	0	0	0	0	0	0	1	0	1995
11883	16	108.2	12082	0	0	0	0	0	0	0	0	0	0	1	0	1995
11055	95	161.3	28710	0	0	0	0	0	0	0	0	0	0	0	1	1995
10716	88	166.7	31221	0	0	0	0	0	0	0	0	0	0	0	0	1995
10828	159	144.8	23548	1	0	0	0	0	0	0	0	0	0	0	1	1996
10832	168	149.5	26310	1	0	0	0	0	0	0	0	0	0	0	0	1996
10875	168	131.2	17895	1	0	0	0	0	0	0	0	0	0	0	0	1996
10652	168	164.9	31223	1	0	0	0	0	0	0	0	0	0	0	0	1996
10431	168	238.0	60081	0	1	0	0	0	0	0	0	0	0	0	0	1996
10299	168	192.6	39064	0	1	0	0	0	0	0	0	0	0	0	0	1996
10463	168	178.3	33845	0	1	0	0	0	0	0	0	0	0	0	0	1996
10882	168	167.9	31291	0	1	0	0	0	0	0	0	0	0	0	0	1996
10525	168	206.2	49907	0	0	1	0	0	0	0	0	0	0	0	0	1996
10872	150	158.4	29348	0	0	1	0	0	0	0	0	0	0	0	0	1996
10677	168	155.0	26646	0	0	1	0	0	0	0	0	0	0	0	0	1996
10809	168	139.1	20373	0	0	1	0	0	0	0	0	0	0	0	0	1996
11129	24	130.0	16928	0	0	1	0	0	0	0	0	0	0	0	0	1996
10918	167	160.1	29483	0	0	0	1	0	0	0	0	0	0	0	0	1996

Data Base for CRIST 6 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10897	168	144.1	22781	0	0	0	1	0	0	0	0	0	0	0	0	1996
11024	159	160.2	29526	0	0	0	1	0	0	0	0	0	0	0	0	1996
10954	168	150.2	25419	0	0	0	1	0	0	0	0	0	0	0	0	1996
10561	168	179.0	36527	0	0	0	0	1	0	0	0	0	0	0	0	1996
10827	168	160.7	28941	0	0	0	0	1	0	0	0	0	0	0	0	1996
7615	7	98.9	10077	0	0	0	0	1	0	0	0	0	0	0	0	1996
11704	77	119.2	14516	0	0	0	0	1	0	0	0	0	0	0	1	1996
10771	168	150.6	24664	0	0	0	0	0	1	0	0	0	0	0	0	1996
10497	168	165.5	31083	0	0	0	0	0	1	0	0	0	0	0	0	1996
10510	155	182.1	38418	0	0	0	0	0	1	0	0	0	0	0	0	1996
10433	168	188.3	39686	0	0	0	0	0	1	0	0	0	0	0	0	1996
10554	168	166.0	32167	0	0	0	0	0	0	1	0	0	0	0	0	1996
10506	168	189.1	40435	0	0	0	0	0	0	1	0	0	0	0	0	1996
10437	168	208.4	48527	0	0	0	0	0	0	1	0	0	0	0	0	1996
10660	168	174.1	34747	0	0	0	0	0	0	1	0	0	0	0	0	1996
10594	168	179.8	37388	0	0	0	0	0	0	0	1	0	0	0	0	1996
10555	168	185.8	40687	0	0	0	0	0	0	0	1	0	0	0	0	1996
10635	168	177.1	36296	0	0	0	0	0	0	0	1	0	0	0	0	1996
10574	168	166.9	30468	0	0	0	0	0	0	0	1	0	0	0	0	1996
10800	168	143.3	23076	0	0	0	0	0	0	0	1	0	0	0	0	1996
10577	168	170.0	32930	0	0	0	0	0	0	0	0	1	0	0	0	1996
10559	168	164.6	32612	0	0	0	0	0	0	0	0	1	0	0	0	1996
10645	168	186.3	42682	0	0	0	0	0	0	0	0	1	0	0	0	1996
10544	168	185.4	41787	0	0	0	0	0	0	0	0	1	0	0	0	1996
10660	24	150.4	27195	0	0	0	0	0	0	0	0	1	0	0	0	1996
10934	168	137.4	20296	0	0	0	0	0	0	0	0	0	1	0	0	1996
10769	168	139.4	20831	0	0	0	0	0	0	0	0	0	1	0	0	1996
10484	168	156.3	27865	0	0	0	0	0	0	0	0	0	1	0	0	1996
10613	169	162.6	30049	0	0	0	0	0	0	0	0	0	1	0	0	1996
10882	168	141.1	21315	0	0	0	0	0	0	0	0	0	0	1	0	1996
11015	168	142.8	22265	0	0	0	0	0	0	0	0	0	0	1	0	1996
10666	168	171.6	32771	0	0	0	0	0	0	0	0	0	0	1	0	1996
10652	152	160.3	27575	0	0	0	0	0	0	0	0	0	0	1	0	1996
11712	20	145.9	23325	0	0	0	0	0	0	0	0	0	0	0	1	1996
10980	168	142.8	21954	0	0	0	0	0	0	0	0	0	0	0	0	1996
10660	160	169.5	33373	0	0	0	0	0	0	0	0	0	0	0	0	1996
11318	158	120.6	14901	0	0	0	0	0	0	0	0	0	0	0	0	1996
11191	168	125.7	17423	1	0	0	0	0	0	0	0	0	0	0	0	1997
10847	168	147.7	24075	1	0	0	0	0	0	0	0	0	0	0	0	1997
10676	168	167.5	31788	1	0	0	0	0	0	0	0	0	0	0	0	1997
10711	168	140.5	20753	1	0	0	0	0	0	0	0	0	0	0	0	1997
10626	133	177.7	36651	1	0	0	0	0	0	0	0	0	0	0	0	1997
12327	22	122.4	15294	0	1	0	0	0	0	0	0	0	0	0	1	1997
10918	93	144.1	22329	0	1	0	0	0	0	0	0	0	0	0	1	1997
10948	46	135.4	18587	0	0	1	0	0	0	0	0	0	0	0	0	1997
11479	26	123.3	15940	0	0	1	0	0	0	0	0	0	0	0	1	1997
11031	91	126.4	16459	0	0	1	0	0	0	0	0	0	0	0	0	1997

Data Base for CRIST 6 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
11614	25	124.6	16021	0	0	1	0	0	0	0	0	0	0	0	1	1997
10807	167	149.0	23780	0	0	0	1	0	0	0	0	0	0	0	0	1997
10694	168	148.4	23603	0	0	0	1	0	0	0	0	0	0	0	0	1997
10617	168	172.8	33320	0	0	0	1	0	0	0	0	0	0	0	0	1997
10511	168	202.4	46310	0	0	0	1	0	0	0	0	0	0	0	0	1997
10724	99	170.2	33466	0	0	0	0	1	0	0	0	0	0	0	0	1997
11029	141	149.7	27563	0	0	0	0	1	0	0	0	0	0	0	1	1997
10403	168	198.0	42852	0	0	0	0	1	0	0	0	0	0	0	0	1997
10866	168	157.9	32869	0	0	0	0	1	0	0	0	0	0	0	0	1997
10818	167	162.4	30606	0	0	0	0	1	0	0	0	0	0	0	0	1997
11330	168	133.0	20826	0	0	0	0	0	1	0	0	0	0	0	0	1997
11102	168	174.3	35632	0	0	0	0	0	1	0	0	0	0	0	0	1997
10818	168	187.2	40880	0	0	0	0	0	1	0	0	0	0	0	0	1997
10943	168	179.6	37652	0	0	0	0	0	1	0	0	0	0	0	0	1997
10883	168	208.7	50498	0	0	0	0	0	0	1	0	0	0	0	0	1997
11483	168	155.8	27723	0	0	0	0	0	0	1	0	0	0	0	0	1997
11234	168	162.4	30227	0	0	0	0	0	0	1	0	0	0	0	0	1997
10901	168	213.4	50938	0	0	0	0	0	0	1	0	0	0	0	0	1997
10871	168	178.9	37117	0	0	0	0	0	0	0	1	0	0	0	0	1997
11006	168	173.3	34804	0	0	0	0	0	0	0	1	0	0	0	0	1997
10539	168	222.2	54505	0	0	0	0	0	0	0	1	0	0	0	0	1997
10554	168	208.3	49645	0	0	0	0	0	0	0	1	0	0	0	0	1997
10616	168	201.2	48706	0	0	0	0	0	0	0	1	0	0	0	0	1997
10560	168	212.0	52281	0	0	0	0	0	0	0	0	1	0	0	0	1997
10516	117	213.7	53660	0	0	0	0	0	0	0	0	1	0	0	1	1997
10373	165	228.3	58801	0	0	0	0	0	0	0	0	1	0	0	0	1997
10831	168	179.8	37447	0	0	0	0	0	0	0	0	1	0	0	0	1997
10574	18	195.0	45296	0	0	0	0	0	0	0	0	1	0	0	0	1997
10415	75	219.5	54886	0	0	0	0	0	0	0	0	0	1	0	1	1997
10684	168	202.9	46288	0	0	0	0	0	0	0	0	0	1	0	0	1997
10679	70	163.2	28695	0	0	0	0	0	0	0	0	0	1	0	0	1997
11436	110	165.1	32220	0	0	0	0	0	0	0	0	0	0	0	1	1997
10680	168	235.3	61294	0	0	0	0	0	0	0	0	0	0	0	0	1997
10914	76	198.9	45226	0	0	0	0	0	0	0	0	0	0	0	0	1997
11744	99	144.8	22986	0	0	0	0	0	0	0	0	0	0	0	1	1997
11279	15	123.8	16118	1	0	0	0	0	0	0	0	0	0	0	0	1998
10939	149	218.3	53383	1	0	0	0	0	0	0	0	0	0	0	1	1998
10810	168	234.2	59691	1	0	0	0	0	0	0	0	0	0	0	0	1998
11037	168	197.0	43142	1	0	0	0	0	0	0	0	0	0	0	0	1998
11229	168	176.4	33936	1	0	0	0	0	0	0	0	0	0	0	0	1998
10657	168	194.9	41264	0	1	0	0	0	0	0	0	0	0	0	0	1998
10613	168	186.6	39179	0	1	0	0	0	0	0	0	0	0	0	0	1998
10371	168	209.4	49823	0	1	0	0	0	0	0	0	0	0	0	0	1998
10391	168	205.0	47809	0	1	0	0	0	0	0	0	0	0	0	0	1998
10660	168	243.4	64790	0	0	1	0	0	0	0	0	0	0	0	0	1998
10441	168	229.5	57861	0	0	1	0	0	0	0	0	0	0	0	0	1998
10663	168	202.6	45698	0	0	1	0	0	0	0	0	0	0	0	0	1998
10528	168	237.0	61359	0	0	1	0	0	0	0	0	0	0	0	0	1998

Data Base for CRIST 6 Target Heat Rate Equation

HR Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH.

HOOR Number of hours the unit was synchronized during the week.

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

JAN to NOV The number 1 indicates the month of the observation. All 0's indicate December.

NS Number of unit start ups during the week after being shut down for 24 hours or more.

YEAR 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

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
11139	167	198.8	39985	0	0	0	1	0	0	0	0	0	0	0	0	1995
10817	168	243.3	68305	0	0	0	1	0	0	0	0	0	0	0	0	1995
10857	168	294.5	104401	0	0	0	1	0	0	0	0	0	0	0	0	1995
11092	168	226.9	55323	0	0	0	1	0	0	0	0	0	0	0	0	1995
11156	168	220.1	53031	0	0	0	0	1	0	0	0	0	0	0	0	1995
10844	168	288.2	98355	0	0	0	0	1	0	0	0	0	0	0	0	1995
10719	163	430.2	189076	0	0	0	0	1	0	0	0	0	0	0	0	1995
13009	13	160.7	29024	0	0	0	0	1	0	0	0	0	0	0	1	1995
10873	147	246.7	70268	0	0	0	0	1	0	0	0	0	0	0	0	1995
10854	142	348.1	138690	0	0	0	0	0	1	0	0	0	0	0	1	1995
10770	168	303.1	108842	0	0	0	0	0	1	0	0	0	0	0	0	1995
10442	168	327.0	120485	0	0	0	0	0	1	0	0	0	0	0	0	1995
10567	164	362.1	144713	0	0	0	0	0	1	0	0	0	0	0	0	1995
11142	44	299.2	102050	0	0	0	0	0	0	1	0	0	0	0	1	1995
10519	168	344.2	134198	0	0	0	0	0	0	1	0	0	0	0	0	1995
10925	168	339.1	131113	0	0	0	0	0	0	1	0	0	0	0	0	1995
10982	168	364.3	149818	0	0	0	0	0	0	1	0	0	0	0	0	1995
11032	168	323.6	119955	0	0	0	0	0	0	0	1	0	0	0	0	1995
11119	168	287.2	88123	0	0	0	0	0	0	0	1	0	0	0	0	1995
10711	168	374.6	154031	0	0	0	0	0	0	0	1	0	0	0	0	1995
10809	95	338.2	134595	0	0	0	0	0	0	0	1	0	0	0	1	1995
10543	168	344.1	136056	0	0	0	0	0	0	0	1	0	0	0	0	1995
10733	168	282.8	91224	0	0	0	0	0	0	0	0	1	0	0	0	1995
10679	168	312.5	110739	0	0	0	0	0	0	0	0	1	0	0	0	1995
10885	168	308.9	108831	0	0	0	0	0	0	0	0	1	0	0	0	1995
10635	168	301.5	103574	0	0	0	0	0	0	0	0	1	0	0	0	1995
11215	142	273.8	87823	0	0	0	0	0	0	0	0	0	1	0	1	1995
10941	168	266.8	79461	0	0	0	0	0	0	0	0	0	1	0	0	1995
10959	81	234.4	61078	0	0	0	0	0	0	0	0	0	1	0	0	1995
11121	130	217.9	49689	0	0	0	0	0	0	0	0	0	0	1	1	1995
11028	168	212.7	45428	0	0	0	0	0	0	0	0	0	0	1	0	1995
10574	168	288.4	91484	0	0	0	0	0	0	0	0	0	0	1	0	1995
10507	168	276.9	84402	0	0	0	0	0	0	0	0	0	0	0	0	1995
10432	168	285.2	90178	0	0	0	0	0	0	0	0	0	0	0	0	1995
10715	168	263.4	76353	0	0	0	0	0	0	0	0	0	0	0	0	1995
10802	168	232.0	56361	0	0	0	0	0	0	0	0	0	0	0	0	1995
10792	168	225.7	53489	1	0	0	0	0	0	0	0	0	0	0	0	1996
10625	168	271.8	82007	1	0	0	0	0	0	0	0	0	0	0	0	1996
10782	168	236.6	59917	1	0	0	0	0	0	0	0	0	0	0	0	1996
10801	168	222.1	50497	1	0	0	0	0	0	0	0	0	0	0	0	1996
10936	109	249.6	68586	1	0	0	0	0	0	0	0	0	0	0	0	1996
14771	6	136.2	22160	0	1	0	0	0	0	0	0	0	0	0	1	1996
10176	90	224.2	57425	0	0	0	0	1	0	0	0	0	0	0	2	1996
10672	165	326.8	121362	0	0	0	0	1	0	0	0	0	0	0	0	1996
10533	149	209.7	47211	0	0	0	0	1	0	0	0	0	0	0	0	1996
10433	166	259.4	76354	0	0	0	0	0	1	0	0	0	0	0	0	1996
10316	168	310.1	110729	0	0	0	0	0	1	0	0	0	0	0	0	1996

Data Base for CRIST 7 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10509	124	293.7	100919	0	0	0	0	0	1	0	0	0	0	0	1	1996
10183	168	346.1	135604	0	0	0	0	0	1	0	0	0	0	0	0	1996
10307	168	314.1	114054	0	0	0	0	0	0	1	0	0	0	0	0	1996
10406	98	340.2	130649	0	0	0	0	0	0	1	0	0	0	0	0	1996
10610	126	351.9	141120	0	0	0	0	0	0	1	0	0	0	0	1	1996
10340	168	317.9	115896	0	0	0	0	0	0	1	0	0	0	0	0	1996
10427	163	335.5	130760	0	0	0	0	0	0	0	1	0	0	0	0	1996
10393	165	323.7	122079	0	0	0	0	0	0	0	1	0	0	0	0	1996
10449	163	319.1	119372	0	0	0	0	0	0	0	1	0	0	0	0	1996
10300	168	323.3	120367	0	0	0	0	0	0	0	1	0	0	0	0	1996
10532	168	261.3	79233	0	0	0	0	0	0	0	1	0	0	0	0	1996
10428	168	356.4	146668	0	0	0	0	0	0	0	0	1	0	0	0	1996
10693	123	254.1	78190	0	0	0	0	0	0	0	0	1	0	0	1	1996
10392	163	309.4	113465	0	0	0	0	0	0	0	0	1	0	0	0	1996
10341	168	311.0	114394	0	0	0	0	0	0	0	0	1	0	0	0	1996
10781	24	199.5	40331	0	0	0	0	0	0	0	0	1	0	0	0	1996
10638	167	243.2	66328	0	0	0	0	0	0	0	0	0	1	0	0	1996
10660	168	235.0	60222	0	0	0	0	0	0	0	0	0	1	0	0	1996
10408	168	290.0	97416	0	0	0	0	0	0	0	0	0	1	0	0	1996
10266	169	310.8	107010	0	0	0	0	0	0	0	0	0	1	0	0	1996
10396	168	263.2	77262	0	0	0	0	0	0	0	0	0	0	1	0	1996
10515	168	274.9	85513	0	0	0	0	0	0	0	0	0	0	1	0	1996
10539	163	269.2	80429	0	0	0	0	0	0	0	0	0	0	1	0	1996
10504	95	332.6	121814	0	0	0	0	0	0	0	0	0	0	1	0	1996
10448	168	285.2	91265	0	0	0	0	0	0	0	0	0	0	0	1	1996
10660	106	231.0	60278	0	0	0	0	0	0	0	0	0	0	0	0	1996
10088	38	280.7	93284	1	0	0	0	0	0	0	0	0	0	0	1	1997
10332	166	309.0	108716	1	0	0	0	0	0	0	0	0	0	0	0	1997
10378	159	387.8	163663	1	0	0	0	0	0	0	0	0	0	0	0	1997
10455	97	267.8	79559	1	0	0	0	0	0	0	0	0	0	0	1	1997
10497	135	311.1	114813	1	0	0	0	0	0	0	0	0	0	0	1	1997
10267	165	301.8	102582	0	1	0	0	0	0	0	0	0	0	0	0	1997
10430	133	341.3	133210	0	1	0	0	0	0	0	0	0	0	0	1	1997
10556	168	284.9	92189	0	1	0	0	0	0	0	0	0	0	0	0	1997
10443	102	277.4	88087	0	1	0	0	0	0	0	0	0	0	0	0	1997
10627	104	259.7	74032	0	0	1	0	0	0	0	0	0	0	0	2	1997
10636	140	221.6	54325	0	0	1	0	0	0	0	0	0	0	0	0	1997
10624	131	247.2	66973	0	0	1	0	0	0	0	0	0	0	0	2	1997
10558	168	278.4	83495	0	0	1	0	0	0	0	0	0	0	0	0	1997
10358	167	343.1	131827	0	0	0	1	0	0	0	0	0	0	0	0	1997
10304	166	357.9	143356	0	0	0	1	0	0	0	0	0	0	0	0	1997
10558	142	352.2	137891	0	0	0	1	0	0	0	0	0	0	0	1	1997
10192	63	373.8	155010	0	0	0	1	0	0	0	0	0	0	0	0	1997
20529	7	140.3	22105	0	0	0	0	1	0	0	0	0	0	0	1	1997
11310	48	210.2	50548	0	0	0	0	0	1	0	0	0	0	0	1	1997
10768	101	288.6	105293	0	0	0	0	0	1	0	0	0	0	0	2	1997
10553	128	335.9	133952	0	0	0	0	0	1	0	0	0	0	0	1	1997

Data Base for CRIST 7 Target Heat Rate Equation

HR	HOOR	AMM	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10672	168	351.3	142934	0	0	0	0	0	1	0	0	0	0	0	0	1997
10735	166	358.9	149824	0	0	0	0	0	0	1	0	0	0	0	0	1997
10429	168	369.2	156851	0	0	0	0	0	0	1	0	0	0	0	0	1997
10577	168	355.0	145792	0	0	0	0	0	0	1	0	0	0	0	0	1997
10732	168	380.6	162265	0	0	0	0	0	0	1	0	0	0	0	0	1997
10625	122	320.7	126085	0	0	0	0	0	0	0	1	0	0	0	1	1997
10620	122	330.2	131125	0	0	0	0	0	0	0	1	0	0	0	1	1997
10238	168	415.8	185966	0	0	0	0	0	0	0	1	0	0	0	0	1997
9999	168	397.6	175594	0	0	0	0	0	0	0	1	0	0	0	0	1997
10221	168	379.3	163604	0	0	0	0	0	0	0	1	0	0	0	0	1997
10206	168	401.5	179966	0	0	0	0	0	0	0	0	1	0	0	0	1997
10357	150	390.5	173153	0	0	0	0	0	0	0	0	1	0	0	0	1997
9976	163	430.0	197475	0	0	0	0	0	0	0	0	1	0	0	0	1997
10263	168	374.6	156330	0	0	0	0	0	0	0	0	1	0	0	0	1997
10417	24	334.4	123221	0	0	0	0	0	0	0	0	1	0	0	0	1997
10440	118	345.6	133677	0	0	0	0	0	0	0	0	0	1	0	0	1997
10239	134	400.8	181371	0	0	0	0	0	0	0	0	0	1	0	1	1997
10008	168	364.4	153316	0	0	0	0	0	0	0	0	0	1	0	0	1997
10379	141	367.8	157382	0	0	0	0	0	0	0	0	0	1	0	1	1997
10247	157	361.1	150359	0	0	0	0	0	0	0	0	0	0	1	0	1997
10458	146	300.7	105485	0	0	0	0	0	0	0	0	0	0	1	0	1997
10188	168	388.9	165016	0	0	0	0	0	0	0	0	0	0	1	0	1997
10473	168	336.0	128873	0	0	0	0	0	0	0	0	0	0	1	0	1997
10049	29	311.7	112901	0	0	0	0	0	0	0	0	0	0	1	0	1997
10769	107	261.7	79032	0	0	0	0	0	0	0	0	0	0	0	0	1997
10556	128	244.5	74051	0	0	0	0	0	0	0	0	0	0	0	1	1997
10466	168	329.8	123668	1	0	0	0	0	0	0	0	0	0	0	0	1998
11493	33	257.6	74980	1	0	0	0	0	0	0	0	0	0	0	1	1998
10440	159	359.1	136046	1	0	0	0	0	0	0	0	0	0	0	1	1998
10384	168	402.8	173393	1	0	0	0	0	0	0	0	0	0	0	0	1998
10104	168	387.7	161630	1	0	0	0	0	0	0	0	0	0	0	0	1998
10019	168	414.7	180515	0	1	0	0	0	0	0	0	0	0	0	0	1998
10188	39	339.7	132661	0	1	0	0	0	0	0	0	0	0	0	0	1998
11457	25	245.6	70590	0	0	1	0	0	0	0	0	0	0	0	1	1998
10153	168	393.6	163232	0	0	1	0	0	0	0	0	0	0	0	0	1998
9963	168	436.7	198894	0	0	1	0	0	0	0	0	0	0	0	0	1998
10057	168	459.6	214840	0	0	1	0	0	0	0	0	0	0	0	0	1998

Data Base for CRIST 7 Target Heat Rate Equation

NR Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH.

HOUR Number of hours the unit was synchronized during the week.

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

JAN to NOV The number 1 indicates the month of the observation. All 0's indicate December.

NS Number of unit start ups during the week after being shut down for 24 hours or more.

YEAR 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 1 Target Heat Rate Equation

HR	HOOR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10446	167	155.0	24160	0	0	0	1	0	0	0	0	0	0	0	0	1995
10356	163	149.8	22784	0	0	0	1	0	0	0	0	0	0	0	0	1995
10263	149	151.2	23218	0	0	0	0	1	0	0	0	0	0	0	0	1995
10064	168	153.0	23719	0	0	0	0	1	0	0	0	0	0	0	0	1995
10047	168	158.4	25176	0	0	0	0	1	0	0	0	0	0	0	0	1995
10051	168	152.1	23491	0	0	0	0	1	0	0	0	0	0	0	0	1995
10161	168	155.2	24284	0	0	0	0	1	0	0	0	0	0	0	0	1995
10109	168	159.1	25336	0	0	0	0	0	1	0	0	0	0	0	0	1995
10245	168	158.8	25210	0	0	0	0	0	1	0	0	0	0	0	0	1995
10226	111	151.1	23355	0	0	0	0	0	1	0	0	0	0	0	1	1995
10092	168	159.9	25581	0	0	0	0	0	1	0	0	0	0	0	0	1995
10199	168	146.8	22043	0	0	0	0	0	0	1	0	0	0	0	0	1995
10386	168	147.5	22268	0	0	0	0	0	0	1	0	0	0	0	0	1995
10285	168	153.1	23555	0	0	0	0	0	0	1	0	0	0	0	0	1995
10292	168	152.2	23542	0	0	0	0	0	0	1	0	0	0	0	0	1995
10224	168	150.4	22894	0	0	0	0	0	0	0	1	0	0	0	0	1995
10291	168	150.4	22925	0	0	0	0	0	0	0	1	0	0	0	0	1995
10221	168	156.9	24671	0	0	0	0	0	0	0	1	0	0	0	0	1995
10116	168	155.1	24130	0	0	0	0	0	0	0	1	0	0	0	0	1995
10209	168	150.3	22844	0	0	0	0	0	0	0	1	0	0	0	0	1995
10191	168	135.9	19805	0	0	0	0	0	0	0	0	1	0	0	0	1995
10261	168	149.0	22638	0	0	0	0	0	0	0	0	1	0	0	0	1995
10186	168	148.8	22572	0	0	0	0	0	0	0	0	1	0	0	0	1995
10140	168	153.0	23696	0	0	0	0	0	0	0	0	1	0	0	0	1995
9991	24	157.0	24689	0	0	0	0	0	0	0	0	1	0	0	0	1995
10209	143	147.6	22723	0	0	0	0	0	0	0	0	0	1	0	1	1995
10275	168	151.0	23377	0	0	0	0	0	0	0	0	0	1	0	0	1995
10299	168	145.7	21664	0	0	0	0	0	0	0	0	0	1	0	0	1995
10273	168	155.1	24156	0	0	0	0	0	0	0	0	0	1	0	0	1995
10303	135	154.6	24576	0	0	0	0	0	0	0	0	0	0	1	1	1995
10305	168	157.8	24968	0	0	0	0	0	0	0	0	0	0	1	0	1995
10266	168	153.2	23708	0	0	0	0	0	0	0	0	0	0	1	0	1995
10478	141	141.0	20822	0	0	0	0	0	0	0	0	0	0	1	0	1995
12129	21	66.5	4725	0	0	0	0	0	0	0	0	0	0	1	1	1995
10292	168	139.5	20477	0	0	0	0	0	0	0	0	0	0	0	0	1995
10243	168	145.9	21997	0	0	0	0	0	0	0	0	0	0	0	0	1995
10381	168	140.1	20763	0	0	0	0	0	0	0	0	0	0	0	0	1995
10338	168	153.0	23685	0	0	0	0	0	0	0	0	0	0	0	0	1995
10403	168	139.2	20712	1	0	0	0	0	0	0	0	0	0	0	0	1996
10383	168	156.8	24669	1	0	0	0	0	0	0	0	0	0	0	0	1996
10301	168	148.9	22482	1	0	0	0	0	0	0	0	0	0	0	0	1996
10363	168	150.8	23205	1	0	0	0	0	0	0	0	0	0	0	0	1996
10393	168	148.5	22737	1	0	0	0	0	0	0	0	0	0	0	0	1996
10683	168	148.1	22373	0	1	0	0	0	0	0	0	0	0	0	0	1996
10575	168	137.1	19965	0	1	0	0	0	0	0	0	0	0	0	0	1996
10298	168	141.5	20761	0	1	0	0	0	0	0	0	0	0	0	0	1996
10378	168	142.3	20901	0	1	0	0	0	0	0	0	0	0	0	0	1996

Data Base for SMITH 1 Target Heat Rate Equation

HR	HR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10262	168	147.6	22311	0	0	1	0	0	0	0	0	0	0	0	0	1996
10241	168	148.9	22801	0	0	1	0	0	0	0	0	0	0	0	0	1996
10299	168	150.3	23124	0	0	1	0	0	0	0	0	0	0	0	0	1996
10264	168	144.0	21376	0	0	1	0	0	0	0	0	0	0	0	0	1996
10507	24	132.1	18885	0	0	1	0	0	0	0	0	0	0	0	0	1996
10473	108	143.5	21488	0	0	0	1	0	0	0	0	0	0	0	0	1996
10363	41	138.8	20634	0	0	0	1	0	0	0	0	0	0	0	1	1996
10348	168	145.8	22030	0	0	0	1	0	0	0	0	0	0	0	0	1996
10077	168	154.6	24137	0	0	0	0	1	0	0	0	0	0	0	0	1996
10182	168	150.8	23193	0	0	0	0	1	0	0	0	0	0	0	0	1996
10233	168	143.5	21399	0	0	0	0	1	0	0	0	0	0	0	0	1996
10255	168	152.1	23338	0	0	0	0	1	0	0	0	0	0	0	0	1996
10349	168	142.8	21393	0	0	0	0	1	0	0	0	0	0	0	0	1996
10212	168	151.0	23239	0	0	0	0	0	1	0	0	0	0	0	0	1996
10215	160	149.4	22942	0	0	0	0	0	1	0	0	0	0	0	0	1996
10236	168	153.1	23634	0	0	0	0	0	1	0	0	0	0	0	0	1996
10249	168	152.7	23633	0	0	0	0	0	1	0	0	0	0	0	0	1996
10238	168	151.6	23243	0	0	0	0	0	0	1	0	0	0	0	0	1996
10224	168	157.4	24844	0	0	0	0	0	0	1	0	0	0	0	0	1996
10184	168	158.3	25073	0	0	0	0	0	0	1	0	0	0	0	0	1996
10135	168	156.6	24665	0	0	0	0	0	0	1	0	0	0	0	0	1996
10222	168	155.3	24349	0	0	0	0	0	0	0	1	0	0	0	0	1996
10192	168	155.7	24389	0	0	0	0	0	0	0	1	0	0	0	0	1996
10345	168	149.9	22838	0	0	0	0	0	0	0	1	0	0	0	0	1996
10259	168	148.6	22458	0	0	0	0	0	0	0	1	0	0	0	0	1996
10361	168	145.0	21700	0	0	0	0	0	0	0	1	0	0	0	0	1996
10504	168	141.6	20879	0	0	0	0	0	0	0	0	1	0	0	0	1996
10082	168	144.4	21594	0	0	0	0	0	0	0	0	1	0	0	0	1996
10148	168	144.1	21626	0	0	0	0	0	0	0	0	1	0	0	0	1996
10145	168	144.6	21786	0	0	0	0	0	0	0	0	1	0	0	0	1996
10286	24	144.4	21518	0	0	0	0	0	0	0	0	1	0	0	0	1996
10153	168	141.6	21123	0	0	0	0	0	0	0	0	0	1	0	0	1996
10248	168	137.4	19856	0	0	0	0	0	0	0	0	0	1	0	0	1996
10102	168	145.0	21646	0	0	0	0	0	0	0	0	0	1	0	0	1996
10061	169	147.9	22404	0	0	0	0	0	0	0	0	0	1	0	0	1996
9989	95	146.0	21881	0	0	0	0	0	0	0	0	0	0	1	0	1996
10096	62	151.9	23514	0	0	0	0	0	0	0	0	0	0	1	1	1996
10019	168	153.2	23688	0	0	0	0	0	0	0	0	0	0	1	0	1996
10017	168	144.9	21688	0	0	0	0	0	0	0	0	0	0	1	0	1996
10079	168	130.6	18405	0	0	0	0	0	0	0	0	0	0	1	0	1996
10110	168	134.4	19204	0	0	0	0	0	0	0	0	0	0	0	0	1996
10184	168	131.0	18364	0	0	0	0	0	0	0	0	0	0	0	0	1996
10142	168	135.2	19396	0	0	0	0	0	0	0	0	0	0	0	0	1996
10315	167	92.4	9657	0	0	0	0	0	0	0	0	0	0	0	0	1996
10947	25	104.5	12649	1	0	0	0	0	0	0	0	0	0	0	1	1997
10316	168	130.6	18238	1	0	0	0	0	0	0	0	0	0	0	0	1997
10210	168	145.7	22041	1	0	0	0	0	0	0	0	0	0	0	0	1997

Data Base for SMITH 1 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10293	168	125.5	17385	1	0	0	0	0	0	0	0	0	0	0	0	1997
10313	168	129.4	18164	1	0	0	0	0	0	0	0	0	0	0	0	1997
10263	168	121.0	16213	0	1	0	0	0	0	0	0	0	0	0	0	1997
10380	168	130.3	18310	0	1	0	0	0	0	0	0	0	0	0	0	1997
10295	168	114.4	14483	0	1	0	0	0	0	0	0	0	0	0	0	1997
10339	168	111.8	14237	0	1	0	0	0	0	0	0	0	0	0	0	1997
10655	168	90.6	9470	0	0	1	0	0	0	0	0	0	0	0	0	1997
10450	58	86.6	8717	0	0	1	0	0	0	0	0	0	0	0	0	1997
11144	20	107.3	12534	0	0	1	0	0	0	0	0	0	0	0	1	1997
9994	167	156.3	24582	0	0	0	1	0	0	0	0	0	0	0	0	1997
10050	168	149.8	22865	0	0	0	1	0	0	0	0	0	0	0	0	1997
10019	168	149.0	22623	0	0	0	1	0	0	0	0	0	0	0	0	1997
10088	168	150.3	22982	0	0	0	1	0	0	0	0	0	0	0	0	1997
10090	168	138.2	20423	0	0	0	0	1	0	0	0	0	0	0	0	1997
10150	168	130.5	18329	0	0	0	0	1	0	0	0	0	0	0	0	1997
10190	116	139.8	20685	0	0	0	0	1	0	0	0	0	0	0	1	1997
10086	168	138.0	20104	0	0	0	0	1	0	0	0	0	0	0	0	1997
10292	168	135.7	19550	0	0	0	0	1	0	0	0	0	0	0	0	1997
10224	168	127.2	17639	0	0	0	0	0	1	0	0	0	0	0	0	1997
10191	168	130.7	18658	0	0	0	0	0	1	0	0	0	0	0	0	1997
10255	168	133.0	19105	0	0	0	0	0	1	0	0	0	0	0	0	1997
10221	168	137.8	20173	0	0	0	0	0	1	0	0	0	0	0	0	1997
10387	142	136.3	19820	0	0	0	0	0	0	1	0	0	0	0	1	1997
10361	168	141.5	20848	0	0	0	0	0	0	1	0	0	0	0	0	1997
10397	168	141.0	20741	0	0	0	0	0	0	1	0	0	0	0	0	1997
10358	168	151.0	23090	0	0	0	0	0	0	1	0	0	0	0	0	1997
10238	168	138.6	20323	0	0	0	0	0	0	0	1	0	0	0	0	1997
10255	168	138.5	20207	0	0	0	0	0	0	0	1	0	0	0	0	1997
10138	100	152.2	23372	0	0	0	0	0	0	0	1	0	0	0	0	1997
10577	78	120.5	16586	0	0	0	0	0	0	0	1	0	0	0	1	1997
10229	168	140.6	20642	0	0	0	0	0	0	0	1	0	0	0	0	1997
10196	168	139.8	20585	0	0	0	0	0	0	0	0	1	0	0	0	1997
10153	168	147.3	22330	0	0	0	0	0	0	0	0	1	0	0	0	1997
10130	168	156.6	24597	0	0	0	0	0	0	0	0	1	0	0	0	1997
10235	168	146.3	22121	0	0	0	0	0	0	0	0	1	0	0	0	1997
10272	24	142.3	21214	0	0	0	0	0	0	0	0	1	0	0	0	1997
10223	168	142.5	21190	0	0	0	0	0	0	0	0	0	1	0	0	1997
10170	168	151.8	23239	0	0	0	0	0	0	0	0	0	1	0	0	1997
10208	168	138.4	20265	0	0	0	0	0	0	0	0	0	1	0	0	1997
10245	73	137.2	20080	0	0	0	0	0	0	0	0	0	1	0	0	1997
10494	71	129.5	18433	0	0	0	0	0	0	0	0	0	0	1	1	1997
10367	168	98.3	10150	0	0	0	0	0	0	0	0	0	0	1	0	1997
10312	168	117.4	14886	0	0	0	0	0	0	0	0	0	0	1	0	1997
10299	168	146.4	21916	0	0	0	0	0	0	0	0	0	0	1	0	1997
10255	168	126.1	17284	0	0	0	0	0	0	0	0	0	0	1	0	1997
10401	168	146.0	21998	0	0	0	0	0	0	0	0	0	0	0	0	1997
10227	168	147.3	22270	0	0	0	0	0	0	0	0	0	0	0	0	1997

Data Base for SMITH 1 Target Heat Rate Equation

HR	HOOR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10264	168	141.6	21028	0	0	0	0	0	0	0	0	0	0	0	0	1997
10338	168	116.5	15378	0	0	0	0	0	0	0	0	0	0	0	0	1997
10233	168	122.2	16298	1	0	0	0	0	0	0	0	0	0	0	0	1998
10227	168	130.0	18360	1	0	0	0	0	0	0	0	0	0	0	0	1998
10300	168	134.8	19185	1	0	0	0	0	0	0	0	0	0	0	0	1998
10470	168	131.5	18355	1	0	0	0	0	0	0	0	0	0	0	0	1998
10559	168	127.4	17502	1	0	0	0	0	0	0	0	0	0	0	0	1998
10423	168	137.9	19903	0	1	0	0	0	0	0	0	0	0	0	0	1998
10391	168	117.8	15442	0	1	0	0	0	0	0	0	0	0	0	0	1998
10357	168	125.5	17185	0	1	0	0	0	0	0	0	0	0	0	0	1998
10419	168	118.2	15750	0	1	0	0	0	0	0	0	0	0	0	0	1998
10512	145	130.7	18853	0	0	1	0	0	0	0	0	0	0	0	1	1998
10311	168	140.3	20615	0	0	1	0	0	0	0	0	0	0	0	0	1998
10236	168	140.0	20604	0	0	1	0	0	0	0	0	0	0	0	0	1998
10208	168	139.4	20476	0	0	1	0	0	0	0	0	0	0	0	0	1998

Data Base for SMITH 1 Target Heat Rate Equation

HR Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH.

HOURL Number of hours the unit was synchronized during the week.

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

JAN to NOV The number 1 indicates the month of the observation. All 0's indicate December.

NS Number of unit start ups during the week after being shut down for 24 hours or more.

YEAR 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 2 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10573	140	165.8	28879	0	0	0	1	0	0	0	0	0	0	0	1	1995
10363	168	169.8	29964	0	0	0	1	0	0	0	0	0	0	0	0	1995
10313	168	170.9	30102	0	0	0	1	0	0	0	0	0	0	0	0	1995
10368	168	165.8	28951	0	0	0	0	1	0	0	0	0	0	0	0	1995
10314	168	170.6	30259	0	0	0	0	1	0	0	0	0	0	0	0	1995
10251	168	178.4	32396	0	0	0	0	1	0	0	0	0	0	0	0	1995
10308	168	167.3	29330	0	0	0	0	1	0	0	0	0	0	0	0	1995
10458	168	173.8	31175	0	0	0	0	1	0	0	0	0	0	0	0	1995
10377	168	186.7	34930	0	0	0	0	0	1	0	0	0	0	0	0	1995
10420	168	187.8	35296	0	0	0	0	0	1	0	0	0	0	0	0	1995
10296	168	183.2	33885	0	0	0	0	0	1	0	0	0	0	0	0	1995
10194	168	188.8	35638	0	0	0	0	0	1	0	0	0	0	0	0	1995
10343	168	165.3	28604	0	0	0	0	0	0	1	0	0	0	0	0	1995
10505	168	170.1	29969	0	0	0	0	0	0	1	0	0	0	0	0	1995
10466	168	178.9	32481	0	0	0	0	0	0	1	0	0	0	0	0	1995
10551	167	176.7	32050	0	0	0	0	0	0	1	0	0	0	0	0	1995
10614	78	159.6	27520	0	0	0	0	0	0	0	1	0	0	0	2	1995
10624	145	160.0	27267	0	0	0	0	0	0	0	1	0	0	0	0	1995
10533	141	178.4	32615	0	0	0	0	0	0	0	1	0	0	0	1	1995
10221	168	178.6	32247	0	0	0	0	0	0	0	1	0	0	0	0	1995
10293	168	174.2	31043	0	0	0	0	0	0	0	1	0	0	0	0	1995
10293	165	149.2	24927	0	0	0	0	0	0	0	0	1	0	0	0	1995
10223	142	171.2	30647	0	0	0	0	0	0	0	0	1	0	0	1	1995
10171	168	169.5	29989	0	0	0	0	0	0	0	0	1	0	0	0	1995
10608	77	158.8	27608	0	0	0	0	0	0	0	0	0	1	0	1	1995
10320	168	172.9	31063	0	0	0	0	0	0	0	0	0	1	0	0	1995
10281	168	170.6	29973	0	0	0	0	0	0	0	0	0	1	0	0	1995
10240	145	172.8	30948	0	0	0	0	0	0	0	0	0	1	0	0	1995
10236	146	135.6	19238	0	0	0	0	0	0	0	0	0	0	1	0	1995
10027	23	125.5	16417	0	0	0	0	0	0	0	0	0	0	1	0	1995
10234	167	171.5	30477	0	0	0	0	0	0	0	0	0	0	1	1	1995
10398	168	155.4	26034	0	0	0	0	0	0	0	0	0	0	1	0	1995
10251	168	181.4	33257	0	0	0	0	0	0	0	0	0	0	1	0	1995
10347	168	158.7	27170	0	0	0	0	0	0	0	0	0	0	0	0	1995
10369	148	166.0	29046	0	0	0	0	0	0	0	0	0	0	0	0	1995
10398	139	163.5	28542	0	0	0	0	0	0	0	0	0	0	0	1	1995
10298	168	171.8	30253	0	0	0	0	0	0	0	0	0	0	0	0	1995
10361	168	155.4	26386	1	0	0	0	0	0	0	0	0	0	0	0	1996
10631	168	182.5	33556	1	0	0	0	0	0	0	0	0	0	0	0	1996
10586	168	168.2	29153	1	0	0	0	0	0	0	0	0	0	0	0	1996
10544	168	172.6	30801	1	0	0	0	0	0	0	0	0	0	0	0	1996
10315	168	169.2	29964	1	0	0	0	0	0	0	0	0	0	0	0	1996
10389	168	167.4	29119	0	1	0	0	0	0	0	0	0	0	0	0	1996
10440	131	143.1	23005	0	1	0	0	0	0	0	0	0	0	0	1	1996
10350	168	159.2	27076	0	1	0	0	0	0	0	0	0	0	0	0	1996
10289	168	158.6	26722	0	1	0	0	0	0	0	0	0	0	0	0	1996
10286	168	171.7	30339	0	0	1	0	0	0	0	0	0	0	0	0	1996

Data Base for SMITH 2 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10476	15	161.2	28329	0	0	1	0	0	0	0	0	0	0	0	0	1996
11576	16	135.8	20555	0	0	1	0	0	0	0	0	0	0	0	1	1996
10616	168	157.5	26608	0	0	1	0	0	0	0	0	0	0	0	0	1996
10789	24	141.4	22272	0	0	1	0	0	0	0	0	0	0	0	0	1996
10562	167	173.4	30874	0	0	0	1	0	0	0	0	0	0	0	0	1996
10306	168	181.8	33373	0	0	0	1	0	0	0	0	0	0	0	0	1996
10288	168	180.7	33053	0	0	0	1	0	0	0	0	0	0	0	0	1996
10407	155	158.7	27174	0	0	0	1	0	0	0	0	0	0	0	0	1996
10144	154	171.7	30455	0	0	0	0	1	0	0	0	0	0	0	1	1996
10244	168	171.5	30410	0	0	0	0	1	0	0	0	0	0	0	0	1996
10275	168	163.2	28344	0	0	0	0	1	0	0	0	0	0	0	0	1996
10265	168	174.1	30924	0	0	0	0	1	0	0	0	0	0	0	0	1996
10321	168	159.6	27350	0	0	0	0	1	0	0	0	0	0	0	0	1996
10258	168	169.2	29701	0	0	0	0	0	1	0	0	0	0	0	0	1996
10333	129	164.4	28561	0	0	0	0	0	1	0	0	0	0	0	1	1996
10274	168	174.4	31058	0	0	0	0	0	1	0	0	0	0	0	0	1996
10258	168	175.7	31593	0	0	0	0	0	1	0	0	0	0	0	0	1996
10308	168	172.4	30540	0	0	0	0	0	0	1	0	0	0	0	0	1996
10407	168	180.9	33028	0	0	0	0	0	0	1	0	0	0	0	0	1996
10474	148	79.9	32962	0	0	0	0	0	0	1	0	0	0	0	0	1996
10418	155	175.9	31924	0	0	0	0	0	0	1	0	0	0	0	0	1996
10478	168	177.3	32099	0	0	0	0	0	0	0	1	0	0	0	0	1996
10413	168	177.6	32033	0	0	0	0	0	0	0	1	0	0	0	0	1996
10523	168	171.0	30187	0	0	0	0	0	0	0	1	0	0	0	0	1996
10543	168	169.9	29848	0	0	0	0	0	0	0	1	0	0	0	0	1996
10568	168	163.8	28367	0	0	0	0	0	0	0	1	0	0	0	0	1996
10638	154	156.0	26482	0	0	0	0	0	0	0	1	0	0	0	0	1996
10357	158	157.2	26715	0	0	0	0	0	0	0	0	1	0	0	1	1996
10278	168	163.0	28333	0	0	0	0	0	0	0	0	1	0	0	0	1996
10352	168	161.5	27867	0	0	0	0	0	0	0	0	1	0	0	0	1996
10428	24	163.0	28271	0	0	0	0	0	0	0	0	1	0	0	0	1996
10305	168	156.9	26609	0	0	0	0	0	0	0	0	0	1	0	0	1996
10221	168	151.6	24906	0	0	0	0	0	0	0	0	0	1	0	0	1996
10132	164	156.8	26268	0	0	0	0	0	0	0	0	0	1	0	0	1996
10239	143	164.5	28949	0	0	0	0	0	0	0	0	0	1	0	1	1996
10140	168	171.2	30246	0	0	0	0	0	0	0	0	0	0	1	0	1996
10080	168	177.0	31769	0	0	0	0	0	0	0	0	0	0	1	0	1996
10290	73	178.5	32575	0	0	0	0	0	0	0	0	0	0	1	0	1996
10410	61	147.7	23811	0	0	0	0	0	0	0	0	0	0	1	1	1996
10068	168	141.4	22187	0	0	0	0	0	0	0	0	0	0	1	0	1996
9917	168	148.9	24054	0	0	0	0	0	0	0	0	0	0	0	0	1996
10103	168	147.4	23656	0	0	0	0	0	0	0	0	0	0	0	0	1996
10224	140	142.1	22919	0	0	0	0	0	0	0	0	0	0	0	1	1996
10418	124	89.1	9030	0	0	0	0	0	0	0	0	0	0	0	1	1996
10233	168	115.3	15541	1	0	0	0	0	0	0	0	0	0	0	0	1997
10224	168	136.7	20724	1	0	0	0	0	0	0	0	0	0	0	0	1997
10038	168	162.6	27939	1	0	0	0	0	0	0	0	0	0	0	0	1997

Data Base for SMITH 2 Target Heat Rate Equation

NR	HOUR	AMW	LRRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MS	YEAR
10280	168	132.0	19932	1	0	0	0	0	0	0	0	0	0	0	0	1997
10372	168	131.0	19863	1	0	0	0	0	0	0	0	0	0	0	0	1997
10178	168	129.0	18776	0	1	0	0	0	0	0	0	0	0	0	0	1997
10281	168	134.4	20432	0	1	0	0	0	0	0	0	0	0	0	0	1997
10519	60	114.1	15578	0	1	0	0	0	0	0	0	0	0	0	1	1997
10219	168	113.3	15116	0	1	0	0	0	0	0	0	0	0	0	0	1997
10315	168	91.0	9700	0	0	1	0	0	0	0	0	0	0	0	0	1997
10398	168	85.7	8514	0	0	1	0	0	0	0	0	0	0	0	0	1997
10271	168	99.0	11208	0	0	1	0	0	0	0	0	0	0	0	0	1997
10126	24	126.6	18440	0	0	1	0	0	0	0	0	0	0	0	0	1997
10285	95	162.5	27958	0	0	0	1	0	0	0	0	0	0	0	1	1997
10098	168	165.3	28668	0	0	0	1	0	0	0	0	0	0	0	0	1997
10044	168	170.5	30248	0	0	0	1	0	0	0	0	0	0	0	0	1997
10132	168	149.4	24726	0	0	0	0	1	0	0	0	0	0	0	0	1997
10256	168	139.8	22011	0	0	0	0	1	0	0	0	0	0	0	0	1997
10166	168	153.4	25791	0	0	0	0	1	0	0	0	0	0	0	0	1997
9933	168	152.8	25617	0	0	0	0	1	0	0	0	0	0	0	0	1997
10344	168	146.9	24070	0	0	0	0	1	0	0	0	0	0	0	0	1997
10266	168	131.9	19901	0	0	0	0	0	1	0	0	0	0	0	0	1997
10210	168	143.5	23380	0	0	0	0	0	1	0	0	0	0	0	0	1997
10349	168	147.5	24373	0	0	0	0	0	1	0	0	0	0	0	0	1997
10340	146	151.1	25219	0	0	0	0	0	1	0	0	0	0	0	0	1997
10354	168	155.2	26245	0	0	0	0	0	0	1	0	0	0	0	0	1997
10237	168	156.6	26434	0	0	0	0	0	0	1	0	0	0	0	0	1997
10255	168	155.5	26141	0	0	0	0	0	0	1	0	0	0	0	0	1997
10200	168	168.9	29484	0	0	0	0	0	0	1	0	0	0	0	0	1997
10125	168	154.5	25964	0	0	0	0	0	0	0	1	0	0	0	0	1997
10151	168	152.3	25448	0	0	0	0	0	0	0	1	0	0	0	0	1997
10116	145	168.6	29387	0	0	0	0	0	0	0	1	0	0	0	0	1997
10164	168	165.8	29050	0	0	0	0	0	0	0	1	0	0	0	0	1997
10103	168	156.9	26571	0	0	0	0	0	0	0	1	0	0	0	0	1997
10020	168	156.1	26573	0	0	0	0	0	0	0	0	1	0	0	0	1997
10067	96	160.7	27555	0	0	0	0	0	0	0	0	1	0	0	1	1997
10085	92	176.8	31862	0	0	0	0	0	0	0	0	1	0	0	1	1997
9996	168	166.0	28953	0	0	0	0	0	0	0	0	1	0	0	0	1997
9842	24	163.4	28585	0	0	0	0	0	0	0	0	1	0	0	0	1997
9986	168	162.1	28097	0	0	0	0	0	0	0	0	0	1	0	0	1997
9939	168	173.4	30564	0	0	0	0	0	0	0	0	0	1	0	0	1997
9978	168	155.4	26152	0	0	0	0	0	0	0	0	0	1	0	0	1997
10114	169	162.9	28099	0	0	0	0	0	0	0	0	0	1	0	0	1997
10141	168	155.3	25961	0	0	0	0	0	0	0	0	0	0	1	0	1997
10156	145	157.5	26660	0	0	0	0	0	0	0	0	0	0	1	0	1997
9958	168	172.2	30675	0	0	0	0	0	0	0	0	0	0	1	0	1997
10024	168	168.5	29506	0	0	0	0	0	0	0	0	0	0	1	0	1997
10081	168	136.5	21002	0	0	0	0	0	0	0	0	0	0	1	0	1997
10181	134	167.5	29827	0	0	0	0	0	0	0	0	0	0	0	1	1997
10100	137	167.9	29694	0	0	0	0	0	0	0	0	0	0	0	0	1997

Data Base for SMITH 2 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10079	118	153.7	26164	0	0	0	0	0	0	0	0	0	0	0	1	1997
10189	95	131.5	20649	0	0	0	0	0	0	0	0	0	0	0	1	1997
10068	168	148.8	24665	1	0	0	0	0	0	0	0	0	0	0	0	1998
10135	139	147.9	23646	1	0	0	0	0	0	0	0	0	0	0	1	1998
10120	168	158.0	26116	1	0	0	0	0	0	0	0	0	0	0	0	1998
10056	168	175.2	30765	1	0	0	0	0	0	0	0	0	0	0	0	1998
10332	168	174.7	31139	1	0	0	0	0	0	0	0	0	0	0	0	1998
10198	168	173.4	30473	0	1	0	0	0	0	0	0	0	0	0	0	1998
9919	168	170.1	29092	0	1	0	0	0	0	0	0	0	0	0	0	1998
9951	168	166.8	28540	0	1	0	0	0	0	0	0	0	0	0	0	1998
10026	70	162.9	28013	0	1	0	0	0	0	0	0	0	0	0	0	1998

Data Base for SMITH 2 Target Heat Rate Equation

HR Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH.

HOURL Number of hours the unit was synchronized during the week.

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

JAN to NOV The number 1 indicates the month of the observation. All 0's indicate December.

NS Number of unit start ups during the week after being shut down for 24 hours or more.

YEAR 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

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10490	167	344.3	125972	0	0	0	1	0	0	0	0	0	0	0	0	1995
10709	124	354.6	135572	0	0	0	1	0	0	0	0	0	0	0	1	1995
10481	168	367.1	147493	0	0	0	1	0	0	0	0	0	0	0	0	1995
10760	168	376.0	151333	0	0	0	1	0	0	0	0	0	0	0	0	1995
10717	168	287.3	95512	0	0	0	0	1	0	0	0	0	0	0	0	1995
10501	72	233.1	61578	0	0	0	0	1	0	0	0	0	0	0	0	1995
10501	112	312.9	118164	0	0	0	0	1	0	0	0	0	0	0	1	1995
11013	168	200.0	50198	0	0	0	0	1	0	0	0	0	0	0	0	1995
10876	168	354.0	137119	0	0	0	0	1	0	0	0	0	0	0	0	1995
10642	168	266.5	86931	0	0	0	0	0	1	0	0	0	0	0	0	1995
11099	111	210.2	86650	0	0	0	0	0	1	0	0	0	0	0	0	1995
10355	137	242.1	73812	0	0	0	0	0	1	0	0	0	0	0	1	1995
10842	168	251.5	79744	0	0	0	0	0	1	0	0	0	0	0	0	1995
11199	104	228.5	66236	0	0	0	0	0	0	1	0	0	0	0	1	1995
10476	168	331.6	135731	0	0	0	0	0	0	1	0	0	0	0	0	1995
10493	168	324.8	125628	0	0	0	0	0	0	1	0	0	0	0	0	1995
10571	168	350.8	143158	0	0	0	0	0	0	1	0	0	0	0	0	1995
10328	142	404.6	175558	0	0	0	0	0	0	0	1	0	0	0	0	1995
11109	93	284.0	102242	0	0	0	0	0	0	0	1	0	0	0	2	1995
10367	168	365.4	155265	0	0	0	0	0	0	0	1	0	0	0	0	1995
10450	168	345.3	144231	0	0	0	0	0	0	0	1	0	0	0	0	1995
10515	163	318.5	127649	0	0	0	0	0	0	0	1	0	0	0	0	1995
10795	110	257.2	83804	0	0	0	0	0	0	0	0	1	0	0	1	1995
10543	168	288.1	101394	0	0	0	0	0	0	0	0	1	0	0	0	1995
10630	144	278.1	95227	0	0	0	0	0	0	0	0	1	0	0	0	1995
11177	127	317.0	114051	0	0	0	0	0	0	0	0	0	0	0	1	1995
10388	168	343.4	124341	0	0	0	0	0	0	0	0	0	0	0	0	1995
11074	168	269.8	82535	1	0	0	0	0	0	0	0	0	0	0	0	1996
10518	166	370.8	145008	1	0	0	0	0	0	0	0	0	0	0	0	1996
10350	64	300.8	101753	1	0	0	0	0	0	0	0	0	0	0	0	1996
10671	105	331.8	125509	1	0	0	0	0	0	0	0	0	0	0	1	1996
10342	168	394.1	166850	1	0	0	0	0	0	0	0	0	0	0	0	1996
10415	167	330.6	119581	0	1	0	0	0	0	0	0	0	0	0	0	1996
10503	142	357.6	143590	0	1	0	0	0	0	0	0	0	0	0	1	1996
10399	168	349.1	136493	0	1	0	0	0	0	0	0	0	0	0	0	1996
10251	168	366.1	148093	0	1	0	0	0	0	0	0	0	0	0	0	1996
10324	168	408.9	174215	0	0	1	0	0	0	0	0	0	0	0	0	1996
10392	153	426.0	189756	0	0	1	0	0	0	0	0	0	0	0	0	1996
10283	168	423.3	186093	0	0	1	0	0	0	0	0	0	0	0	0	1996
10329	168	393.2	156573	0	0	1	0	0	0	0	0	0	0	0	0	1996
10191	24	388.5	151716	0	0	1	0	0	0	0	0	0	0	0	0	1996
10228	92	414.7	174316	0	0	0	1	0	0	0	0	0	0	0	0	1996
10547	100	405.2	171374	0	0	0	1	0	0	0	0	0	0	0	1	1996
10477	168	395.8	161269	0	0	0	1	0	0	0	0	0	0	0	0	1996
10634	168	294.1	95104	0	0	0	1	0	0	0	0	0	0	0	0	1996
10325	168	360.2	132130	0	0	0	0	1	0	0	0	0	0	0	0	1996
10388	168	401.3	167524	0	0	0	0	1	0	0	0	0	0	0	0	1996

Data Base for DANIEL 1 Target Heat Rate Equation

HR	HOOR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10559	168	362.2	147236	0	0	0	0	1	0	0	0	0	0	0	0	1996
10552	168	391.4	164906	0	0	0	0	1	0	0	0	0	0	0	0	1996
10618	168	349.1	137431	0	0	0	0	1	0	0	0	0	0	0	0	1996
10292	168	314.9	120960	0	0	0	0	0	1	0	0	0	0	0	0	1996
10639	168	387.4	159682	0	0	0	0	0	1	0	0	0	0	0	0	1996
10645	168	383.7	156545	0	0	0	0	0	1	0	0	0	0	0	0	1996
10204	132	386.0	159559	0	0	0	0	0	1	0	0	0	0	0	0	1996
10394	153	333.2	135606	0	0	0	0	0	0	1	0	0	0	0	1	1996
10247	168	365.6	156769	0	0	0	0	0	0	1	0	0	0	0	0	1996
10242	138	397.7	177299	0	0	0	0	0	0	1	0	0	0	0	1	1996
9961	168	371.8	161217	0	0	0	0	0	0	1	0	0	0	0	0	1996
10138	168	368.4	159178	0	0	0	0	0	0	0	1	0	0	0	0	1996
10217	168	364.0	157202	0	0	0	0	0	0	0	1	0	0	0	0	1996
10410	168	360.3	156432	0	0	0	0	0	0	0	1	0	0	0	0	1996
10309	168	337.6	140366	0	0	0	0	0	0	0	1	0	0	0	0	1996
10813	168	284.6	105093	0	0	0	0	0	0	0	1	0	0	0	0	1996
10520	168	331.3	132807	0	0	0	0	0	0	0	0	1	0	0	0	1996
10819	168	361.1	133300	0	0	0	0	0	0	0	0	1	0	0	0	1996
10768	168	347.5	121243	0	0	0	0	0	0	0	0	1	0	0	0	1996
10480	119	356.3	128460	0	0	0	0	0	0	0	0	1	0	0	0	1996
13434	19	186.9	38605	0	0	0	0	0	0	0	0	0	1	0	1	1994
10994	168	313.4	102118	0	0	0	0	0	0	0	0	0	1	0	0	1996
10607	98	423.4	184613	0	0	0	0	0	0	0	0	0	1	0	1	1996
10564	169	441.8	196945	0	0	0	0	0	0	0	0	0	1	0	0	1996
10623	168	419.7	179445	0	0	0	0	0	0	0	0	0	0	1	0	1996
10656	168	400.6	162702	0	0	0	0	0	0	0	0	0	0	1	0	1996
10395	168	427.5	183049	0	0	0	0	0	0	0	0	0	0	1	0	1996
10255	76	367.3	136582	0	0	0	0	0	0	0	0	0	0	1	0	1996
10661	144	396.5	163244	0	0	0	0	0	0	0	0	0	0	1	1	1996
10595	168	451.8	205622	0	0	0	0	0	0	0	0	0	0	0	0	1996
10556	168	427.0	187822	0	0	0	0	0	0	0	0	0	0	0	0	1996
10447	168	441.7	198347	0	0	0	0	0	0	0	0	0	0	0	0	1996
10457	168	393.6	163949	0	0	0	0	0	0	0	0	0	0	0	0	1996
10779	168	401.5	165701	1	0	0	0	0	0	0	0	0	0	0	0	1997
10835	95	349.3	124956	1	0	0	0	0	0	0	0	0	0	0	0	1997
10905	152	320.1	107643	0	1	0	0	0	0	0	0	0	0	0	1	1997
10571	167	383.5	150753	0	1	0	0	0	0	0	0	0	0	0	0	1997
10777	97	377.7	155150	0	1	0	0	0	0	0	0	0	0	0	1	1997
10514	138	381.1	158484	0	1	0	0	0	0	0	0	0	0	0	1	1997
10561	130	361.5	145363	0	0	1	0	0	0	0	0	0	0	0	1	1997
10528	168	389.9	163244	0	0	1	0	0	0	0	0	0	0	0	0	1997
10401	168	408.4	174168	0	0	1	0	0	0	0	0	0	0	0	0	1997
10362	168	425.7	185977	0	0	1	0	0	0	0	0	0	0	0	0	1997
10574	89	406.4	173770	0	0	0	1	0	0	0	0	0	0	0	1	1997
10590	168	428.0	185933	0	0	0	1	0	0	0	0	0	0	0	0	1997
10352	168	449.3	202671	0	0	0	1	0	0	0	0	0	0	0	0	1997
10699	168	443.9	197621	0	0	0	1	0	0	0	0	0	0	0	0	1997

Data Base for DANIEL 1 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10404	93	408.0	169639	0	0	0	0	1	0	0	0	0	0	0	0	1997
10946	67	340.3	128531	0	0	0	0	1	0	0	0	0	0	0	1	1997
10367	168	424.3	184712	0	0	0	0	1	0	0	0	0	0	0	0	1997
10513	168	418.2	178740	0	0	0	0	1	0	0	0	0	0	0	0	1997
10499	168	349.5	125242	0	0	0	0	1	0	0	0	0	0	0	0	1997
10609	168	374.0	150054	0	0	0	0	0	1	0	0	0	0	0	0	1997
10614	168	395.9	163115	0	0	0	0	0	1	0	0	0	0	0	0	1997
10637	168	397.3	165198	0	0	0	0	0	1	0	0	0	0	0	0	1997
10600	168	386.2	154992	0	0	0	0	0	1	0	0	0	0	0	0	1997
10645	168	399.0	164401	0	0	0	0	0	0	1	0	0	0	0	0	1997
10789	86	377.8	151678	0	0	0	0	0	0	1	0	0	0	0	1	1997
10640	168	369.9	140828	0	0	0	0	0	0	1	0	0	0	0	0	1997
10793	168	392.2	155125	0	0	0	0	0	0	1	0	0	0	0	0	1997
10790	168	362.9	137430	0	0	0	0	0	0	0	1	0	0	0	0	1997
10776	135	379.1	148806	0	0	0	0	0	0	0	1	0	0	0	1	1997
10639	168	413.0	170854	0	0	0	0	0	0	0	1	0	0	0	0	1997
10793	123	372.2	148539	0	0	0	0	0	0	0	1	0	0	0	1	1997
10553	168	383.2	152292	0	0	0	0	0	0	0	1	0	0	0	0	1997
10792	131	355.6	137302	0	0	0	0	0	0	0	0	1	0	0	1	1997
10597	168	368.0	142684	0	0	0	0	0	0	0	0	1	0	0	0	1997
10713	139	377.5	148203	0	0	0	0	0	0	0	0	1	0	0	1	1997
10696	168	363.3	138521	0	0	0	0	0	0	0	0	1	0	0	0	1997
10736	24	353.8	133462	0	0	0	0	0	0	0	0	1	0	0	0	1997
10617	168	373.7	143155	0	0	0	0	0	0	0	0	0	1	0	0	1997
10677	83	333.2	112028	0	0	0	0	0	0	0	0	0	1	0	0	1997
10705	68	339.6	127450	0	0	0	0	0	0	0	0	0	1	0	1	1997
10624	146	378.7	151108	0	0	0	0	0	0	0	0	0	1	0	0	1997
10830	167	373.9	148544	0	0	0	0	0	0	0	0	0	0	1	0	1997
10466	124	397.9	166774	0	0	0	0	0	0	0	0	0	0	1	1	1997
10378	168	417.1	177825	0	0	0	0	0	0	0	0	0	0	1	0	1997
10464	153	394.9	164220	0	0	0	0	0	0	0	0	0	0	1	0	1997
10529	168	351.9	134096	0	0	0	0	0	0	0	0	0	0	1	0	1997
10528	168	393.4	159933	0	0	0	0	0	0	0	0	0	0	0	0	1997
10550	168	400.6	164575	0	0	0	0	0	0	0	0	0	0	0	0	1997
10692	100	372.1	144588	0	0	0	0	0	0	0	0	0	0	0	1	1997
10735	168	315.3	110914	0	0	0	0	0	0	0	0	0	0	0	0	1997
10799	168	287.3	94698	1	0	0	0	0	0	0	0	0	0	0	0	1998
10771	168	326.6	118282	1	0	0	0	0	0	0	0	0	0	0	0	1998
10342	168	375.4	147535	1	0	0	0	0	0	0	0	0	0	0	0	1998
10600	168	346.2	126688	1	0	0	0	0	0	0	0	0	0	0	0	1998
10607	168	337.6	122720	1	0	0	0	0	0	0	0	0	0	0	0	1998
10499	72	374.8	148150	0	1	0	0	0	0	0	0	0	0	0	0	1998
10465	128	314.7	111832	0	0	1	0	0	0	0	0	0	0	0	1	1998
10495	168	389.3	163543	0	0	1	0	0	0	0	0	0	0	0	0	1998

Data Base for DANIEL 1 Target Heat Rate Equation

HR Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH.

HOUR Number of hours the unit was synchronized during the week.

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

JAN to NOV The number 1 indicates the month of the observation. All 0's indicate December.

NS Number of unit start ups during the week after being shut down for 24 hours or more.

YEAR 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

HR	HOUR	AMW	LEEF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10275	167	356.0	131239	0	0	0	1	0	0	0	0	0	0	0	0	1995
10341	168	366.4	138261	0	0	0	1	0	0	0	0	0	0	0	0	1995
9930	168	372.1	152985	0	0	0	1	0	0	0	0	0	0	0	0	1995
10383	168	378.7	148296	0	0	0	1	0	0	0	0	0	0	0	0	1995
10335	168	320.9	115784	0	0	0	0	1	0	0	0	0	0	0	0	1995
10316	168	314.6	114466	0	0	0	0	1	0	0	0	0	0	0	0	1995
10245	168	343.2	141604	0	0	0	0	1	0	0	0	0	0	0	0	1995
11003	114	209.0	56761	0	0	0	0	1	0	0	0	0	0	0	1	1995
10591	168	366.0	140614	0	0	0	0	1	0	0	0	0	0	0	0	1995
10309	168	305.4	113248	0	0	0	0	0	1	0	0	0	0	0	0	1995
10664	111	237.6	73445	0	0	0	0	0	1	0	0	0	0	0	0	1995
10897	70	250.2	78758	0	0	0	0	0	1	0	0	0	0	0	2	1995
10464	168	275.9	94821	0	0	0	0	0	1	0	0	0	0	0	0	1995
10944	102	231.2	68264	0	0	0	0	0	0	1	0	0	0	0	1	1995
10235	168	346.5	147412	0	0	0	0	0	0	1	0	0	0	0	0	1995
10202	168	344.6	140726	0	0	0	0	0	0	1	0	0	0	0	0	1995
10192	168	359.6	153115	0	0	0	0	0	0	1	0	0	0	0	0	1995
10445	168	291.4	107731	0	0	0	0	0	0	0	1	0	0	0	0	1995
10536	168	299.6	110824	0	0	0	0	0	0	0	1	0	0	0	0	1995
10155	168	388.2	173186	0	0	0	0	0	0	0	1	0	0	0	0	1995
10321	168	354.3	151498	0	0	0	0	0	0	0	1	0	0	0	0	1995
10305	168	330.4	135270	0	0	0	0	0	0	0	1	0	0	0	0	1995
10693	168	267.4	89350	0	0	0	0	0	0	0	0	1	0	0	0	1995
10361	167	294.6	106082	0	0	0	0	0	0	0	0	1	0	0	0	1995
10415	168	280.9	95840	0	0	0	0	0	0	0	0	1	0	0	0	1995
10840	128	202.1	50229	0	0	0	0	0	0	0	0	1	0	0	0	1995
10479	54	358.0	134863	0	0	0	0	0	0	0	0	0	1	0	1	1995
10642	168	335.2	122735	0	0	0	0	0	0	0	0	0	1	0	0	1995
10302	168	377.2	147787	0	0	0	0	0	0	0	0	0	1	0	0	1995
10695	169	286.2	94553	0	0	0	0	0	0	0	0	0	0	1	0	1995
11227	168	204.1	47484	0	0	0	0	0	0	0	0	0	0	1	0	1995
10828	168	242.2	68355	0	0	0	0	0	0	0	0	0	0	1	0	1995
10458	168	307.4	105084	0	0	0	0	0	0	0	0	0	0	1	0	1995
10366	168	367.5	141022	0	0	0	0	0	0	0	0	0	0	1	0	1995
10703	109	349.8	134300	0	0	0	0	0	0	0	0	0	0	0	1	1995
10298	168	398.6	163507	0	0	0	0	0	0	0	0	0	0	0	0	1995
10260	168	367.6	143481	0	0	0	0	0	0	0	0	0	0	0	0	1995
10361	168	369.7	141518	0	0	0	0	0	0	0	0	0	0	0	0	1995
11156	144	240.6	66072	1	0	0	0	0	0	0	0	0	0	0	0	1996
45511	12	33.5	1183	0	0	1	0	0	0	0	0	0	0	0	1	1996
10228	92	414.7	174316	0	0	0	1	0	0	0	0	0	0	0	0	1996
10547	100	405.2	171374	0	0	0	1	0	0	0	0	0	0	0	1	1996
10477	168	395.8	161269	0	0	0	1	0	0	0	0	0	0	0	0	1996
10634	168	294.1	95104	0	0	0	1	0	0	0	0	0	0	0	0	1996
10325	168	360.2	132130	0	0	0	0	1	0	0	0	0	0	0	0	1996
10388	168	401.3	167524	0	0	0	0	1	0	0	0	0	0	0	0	1996
10559	168	362.2	147236	0	0	0	0	1	0	0	0	0	0	0	0	1996

Data Base for DANIEL 2 Target Heat Rate Equation

HR	HOOR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MS	YEAR
10552	168	391.4	164906	0	0	0	0	1	0	0	0	0	0	0	0	1996
10618	168	349.1	137431	0	0	0	0	1	0	0	0	0	0	0	0	1996
10292	168	314.9	120960	0	0	0	0	0	1	0	0	0	0	0	0	1996
10639	168	387.4	159682	0	0	0	0	0	1	0	0	0	0	0	0	1996
10645	168	383.7	156545	0	0	0	0	0	1	0	0	0	0	0	0	1996
10204	132	386.0	159559	0	0	0	0	0	1	0	0	0	0	0	0	1996
10394	153	333.2	135606	0	0	0	0	0	0	1	0	0	0	0	1	1996
10247	168	365.6	156769	0	0	0	0	0	0	1	0	0	0	0	0	1996
10242	138	397.7	177299	0	0	0	0	0	0	1	0	0	0	0	1	1996
9961	168	371.8	161217	0	0	0	0	0	0	1	0	0	0	0	0	1996
10138	168	368.4	159178	0	0	0	0	0	0	0	1	0	0	0	0	1996
10217	168	364.0	157202	0	0	0	0	0	0	0	1	0	0	0	0	1996
10410	168	360.3	156432	0	0	0	0	0	0	0	1	0	0	0	0	1996
10309	168	337.6	140366	0	0	0	0	0	0	0	1	0	0	0	0	1996
10813	168	284.6	105093	0	0	0	0	0	0	0	1	0	0	0	0	1996
10520	168	331.3	132807	0	0	0	0	0	0	0	0	1	0	0	0	1996
10819	168	361.1	133300	0	0	0	0	0	0	0	0	1	0	0	0	1996
10768	168	347.5	121243	0	0	0	0	0	0	0	0	1	0	0	0	1996
10480	119	356.3	128460	0	0	0	0	0	0	0	0	1	0	0	0	1996
10131	168	422.2	183607	0	0	0	0	0	0	0	0	0	1	0	0	1996
10387	168	398.5	169036	0	0	0	0	0	0	0	0	0	1	0	0	1996
10451	168	421.1	184735	0	0	0	0	0	0	0	0	0	1	0	0	1996
10395	169	424.7	187212	0	0	0	0	0	0	0	0	0	1	0	0	1996
10499	168	406.6	173305	0	0	0	0	0	0	0	0	0	0	1	0	1996
10636	168	384.5	152482	0	0	0	0	0	0	0	0	0	0	1	0	1996
10243	74	413.9	179535	0	0	0	0	0	0	0	0	0	0	1	0	1996
10253	106	385.8	160769	0	0	0	0	0	0	0	0	0	0	1	1	1996
10340	168	401.2	168261	0	0	0	0	0	0	0	0	0	0	1	0	1996
10345	168	460.7	215927	0	0	0	0	0	0	0	0	0	0	0	0	1996
10367	168	415.4	180617	0	0	0	0	0	0	0	0	0	0	0	0	1996
10178	168	442.7	201239	0	0	0	0	0	0	0	0	0	0	0	0	1996
10338	168	375.5	152947	0	0	0	0	0	0	0	0	0	0	0	0	1996
10324	168	411.2	175882	1	0	0	0	0	0	0	0	0	0	0	0	1997
10222	168	457.6	209533	1	0	0	0	0	0	0	0	0	0	0	0	1997
9840	120	435.2	194714	1	0	0	0	0	0	0	0	0	0	0	0	1997
13137	59	189.0	49912	0	1	0	0	0	0	0	0	0	0	0	2	1997
10459	166	387.2	160496	0	1	0	0	0	0	0	0	0	0	0	0	1997
10134	168	405.1	173947	0	1	0	0	0	0	0	0	0	0	0	0	1997
10109	168	398.7	170639	0	0	1	0	0	0	0	0	0	0	0	0	1997
10212	168	411.3	179282	0	0	1	0	0	0	0	0	0	0	0	0	1997
10125	58	432.4	192365	0	0	1	0	0	0	0	0	0	0	0	0	1997
10257	168	451.0	205440	0	0	1	0	0	0	0	0	0	0	0	0	1997
10211	167	460.7	214256	0	0	0	1	0	0	0	0	0	0	0	0	1997
10513	167	377.6	160881	0	0	0	1	0	0	0	0	0	0	0	0	1997
10163	168	459.4	211500	0	0	0	1	0	0	0	0	0	0	0	0	1997
10215	96	425.6	183397	0	0	0	1	0	0	0	0	0	0	0	0	1997
10736	29	317.5	116301	0	0	0	0	1	0	0	0	0	0	0	1	1997

Data Base for DANIEL 2 Target Heat Rate Equation

HR	HOOR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10397	157	400.3	168885	0	0	0	0	1	0	0	0	0	0	0	0	1997
10284	110	418.3	181814	0	0	0	0	1	0	0	0	0	0	0	1	1997
10406	157	441.3	200684	0	0	0	0	1	0	0	0	0	0	0	0	1997
10293	165	422.5	188920	0	0	0	0	1	0	0	0	0	0	0	0	1997
10239	168	403.6	172114	0	0	0	0	0	1	0	0	0	0	0	0	1997
10346	168	425.3	187103	0	0	0	0	0	1	0	0	0	0	0	0	1997
10367	168	430.0	190572	0	0	0	0	0	1	0	0	0	0	0	0	1997
10365	168	421.7	181660	0	0	0	0	0	1	0	0	0	0	0	0	1997
10349	91	420.8	183395	0	0	0	0	0	0	1	0	0	0	0	0	1997
10312	166	434.5	194546	0	0	0	0	0	0	1	0	0	0	0	1	1997
10313	168	411.7	172947	0	0	0	0	0	0	1	0	0	0	0	0	1997
10480	168	424.5	181953	0	0	0	0	0	0	1	0	0	0	0	0	1997
10453	168	411.2	176328	0	0	0	0	0	0	0	1	0	0	0	0	1997
10361	168	427.4	186660	0	0	0	0	0	0	0	1	0	0	0	0	1997
10399	168	463.1	214743	0	0	0	0	0	0	0	1	0	0	0	0	1997
10363	168	440.8	199395	0	0	0	0	0	0	0	1	0	0	0	0	1997
10373	168	426.4	187242	0	0	0	0	0	0	0	1	0	0	0	0	1997
10397	168	400.8	170577	0	0	0	0	0	0	0	0	1	0	0	0	1997
10345	168	421.1	183222	0	0	0	0	0	0	0	0	1	0	0	0	1997
10359	168	450.0	203364	0	0	0	0	0	0	0	0	1	0	0	0	1997
10315	168	429.3	188643	0	0	0	0	0	0	0	0	1	0	0	0	1997
10263	24	417.8	180295	0	0	0	0	0	0	0	0	1	0	0	0	1997
10019	41	394.4	161330	0	0	0	0	0	0	0	0	0	1	0	0	1997
9942	89	434.7	194442	0	0	0	0	0	0	0	0	0	1	0	1	1997
10188	131	395.4	169441	0	0	0	0	0	0	0	0	0	1	0	1	1997
10071	169	446.0	203560	0	0	0	0	0	0	0	0	0	1	0	0	1997
10504	113	436.2	196652	0	0	0	0	0	0	0	0	0	0	1	1	1997
10024	168	427.8	187364	0	0	0	0	0	0	0	0	0	0	1	0	1997
10196	168	400.4	162773	0	0	0	0	0	0	0	0	0	0	1	0	1997
10198	168	462.1	214160	0	0	0	0	0	0	0	0	0	0	1	0	1997
10212	168	435.5	191599	0	0	0	0	0	0	0	0	0	0	1	0	1997
10235	168	451.6	205337	0	0	0	0	0	0	0	0	0	0	0	0	1997
10188	168	456.8	209735	0	0	0	0	0	0	0	0	0	0	0	0	1997
10088	168	445.5	200240	0	0	0	0	0	0	0	0	0	0	0	0	1997
10245	168	364.8	143680	0	0	0	0	0	0	0	0	0	0	0	0	1997
10048	168	396.4	158780	1	0	0	0	0	0	0	0	0	0	0	0	1998
10252	168	405.1	164789	1	0	0	0	0	0	0	0	0	0	0	0	1998
9909	73	390.5	155669	1	0	0	0	0	0	0	0	0	0	0	0	1998
10314	139	393.6	165512	1	0	0	0	0	0	0	0	0	0	0	1	1998
10148	168	445.2	200722	1	0	0	0	0	0	0	0	0	0	0	0	1998
10120	168	442.4	197540	0	1	0	0	0	0	0	0	0	0	0	0	1998
10217	168	415.6	179355	0	1	0	0	0	0	0	0	0	0	0	0	1998
10148	168	413.6	177315	0	1	0	0	0	0	0	0	0	0	0	0	1998
10088	168	389.3	156584	0	1	0	0	0	0	0	0	0	0	0	0	1998
10119	168	409.2	171606	0	0	1	0	0	0	0	0	0	0	0	0	1998
10290	168	434.4	194187	0	0	1	0	0	0	0	0	0	0	0	0	1998
10132	168	405.1	169019	0	0	1	0	0	0	0	0	0	0	0	0	1998
10453	72	351.2	124232	0	0	1	0	0	0	0	0	0	0	0	0	1998

Data Base for DANIEL 2 Target Heat Rate Equation

HR Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH.

HOUR Number of hours the unit was synchronized during the week.

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

JAN to NOV The number 1 indicates the month of the observation. All 0's indicate December.

NS Number of unit start ups during the week after being shut down for 24 hours or more.

YEAR 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 October 1998 - December 1998

Unit	Month	(1)	(2)	(3)	(4)	(5)
		Forecast AKW * 10 ⁻³	Forecast LSRF * 10 ⁻⁶	Forecast Monthly ANOHR	Forecast AKW * 10 ⁻³ Generation	Weighted ANOHR Target
CRIST 6	Oct '98	234.3	60.794	10.466	110,110	10,737
	Nov '98	180.8	37.712	10,797	127,300	
	Dec '98	157.6	28.535	10,930	114,760	
CRIST 7	Oct '98	467.8	228.476	10,114	275,550	10,156
	Nov '98	453.1	216.449	10,135	209,310	
	Dec '98	405.0	178.567	10,216	263,680	
SMITH 1	Oct '98	156.5	24,567	10,186	114,720	10,207
	Nov '98	152.8	23,662	10,196	108,160	
	Dec '98	138.3	20,179	10,242	101,250	

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.

$$\text{Column (5)} = (\sum ((3) * (4))) / (\sum (4))$$

Calculation of
Target Average Net Operating Heat Rates
for October 1998 - December 1998

Unit	Month	(1)	(2)	(3)	(4)	(5)
		Forecast AKW * 10 ³	Forecast LSRF * 10 ⁶	Forecast Monthly ANOHR	Forecast AKW * 10 ³ Generation	Weighted ANOHR Target
SMITH 2	Oct '98	181.3	33,184	10,263	132,360	
	Nov '98	176.0	31,710	10,251	124,050	
	Dec '98	158.6	26,944	10,211	78,340	
						10,246
DANIEL 1	Oct '98	0.0	0	-	0	
	Nov '98	0.0	0	-	0	
	Dec '98	310.3	110,727	10,655	120,400	
						10,655
DANIEL 2	Oct '98	433.7	192,285	10,182	202,540	
	Nov '98	411.7	177,177	10,309	287,340	
	Dec '98	371.3	150,416	10,385	250,600	
						10,300

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.

$$\text{Column (5)} = (\sum ((3) * (4))) / (\sum (4))$$

Summary of Target, Maximum, and Minimum
Average Net Operating Heat Rates
for October 1998 - December 1998

Unit	Target Heat Rate BTU/KWH (0 Points)	Minimum Attainable Heat Rate (* 10 Points)	Maximum Attainable Heat Rate (- 10 Points)
CRIST 6	10,737	10,415	11,059
CRIST 7	10,156	9,851	10,461
SMITH 1	10,207	9,901	10,513
SMITH 2	10,246	9,939	10,553
DANIEL 1	10,655	10,335	10,975
DANIEL 2	10,300	9,991	10,609

II. DETERMINATION OF EQUIVALENT AVAILABILITY TARGETS

Calculation of
Target Equivalent Availabilities
for October 1998 - December 1998

Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR	Planned Outage Hours for Oct '98 - Dec '98	Reserve Shutdown Hours for Oct '98 - Dec '98	Target Equivalent Availability *
Crist 6	0.0475	217	0	85.9
Crist 7	0.1487	216	0	76.8
Smith 1	0.0184	0	0	98.1
smith 2	0.0347	216	0	87.1
Daniel 1	0.1132	1,777	0	17.3
Daniel 2	0.0792	216	0	83.1

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

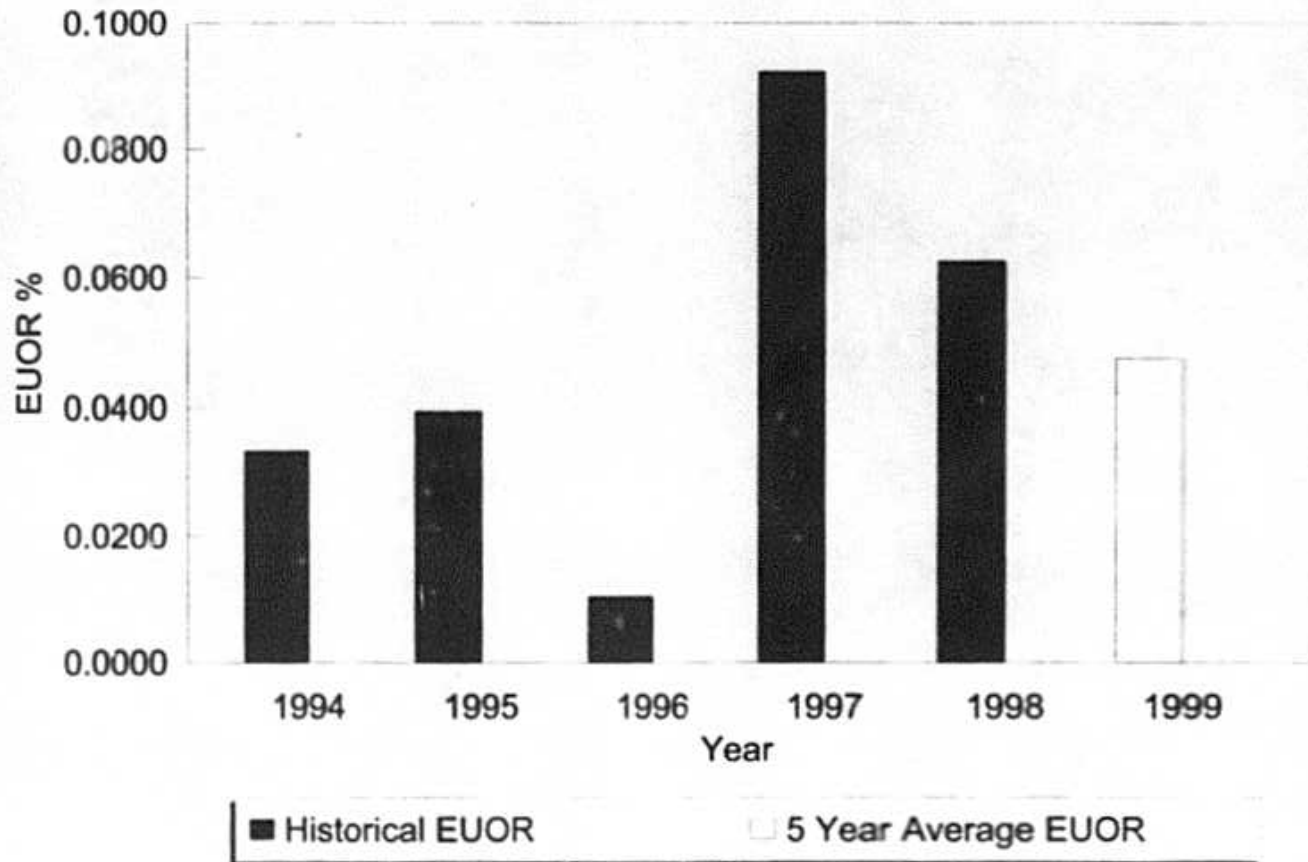
Calculation of Maximum and Minimum
Attainable Equivalent Availabilities
for October 1998 - December 1998

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
Crist 6	0.0475	0.0333	87.2	0.0689	84.0
Crist 7	0.1487	0.1041	80.8	0.2156	70.8
Smith 1	0.0184	0.0129	98.7	0.0267	97.3
Smith 2	0.0347	0.0243	88.0	0.0503	85.7
Daniel 1	0.1132	0.0792	18.0	0.1641	16.3
Daniel 2	0.0792	0.0554	85.2	0.1148	79.9

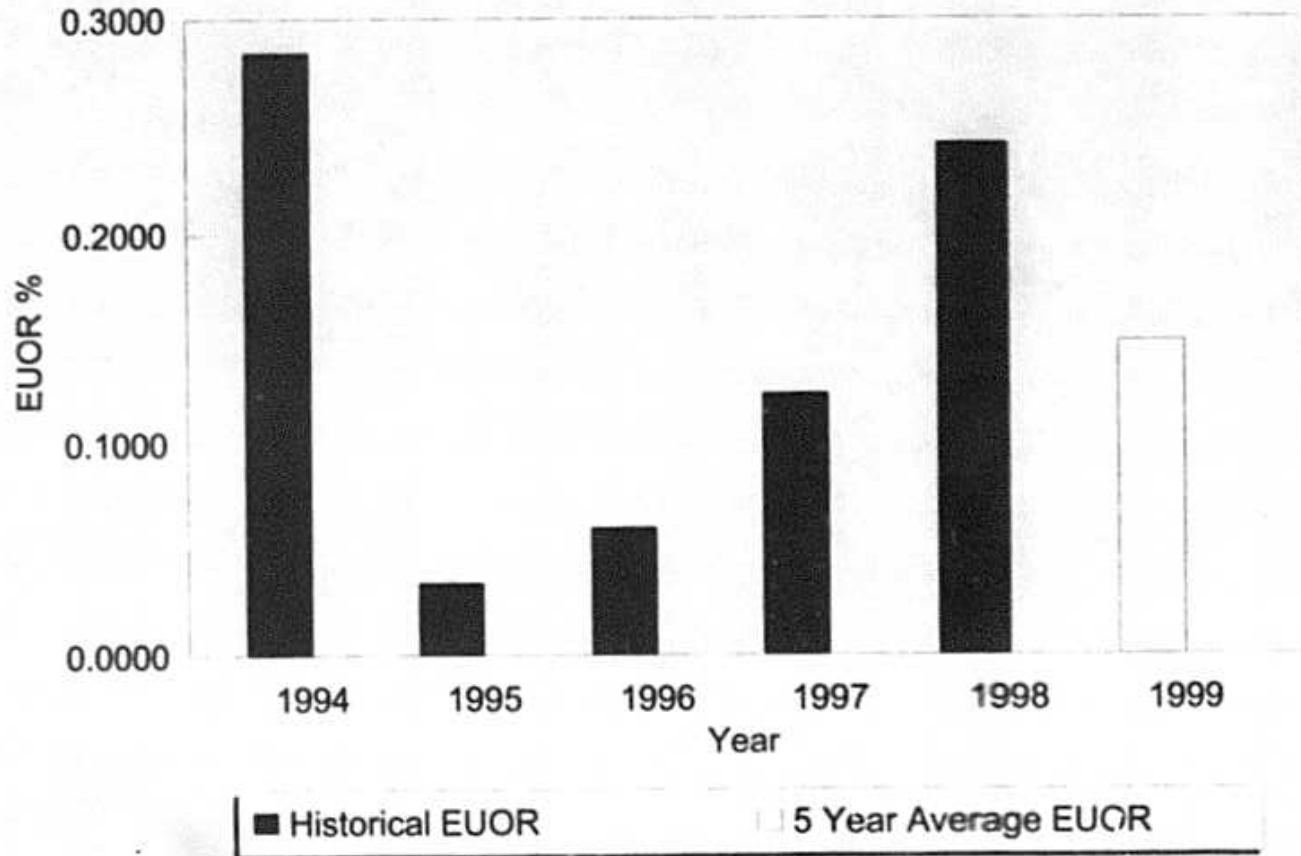
Summary of Target, Maximum, and Minimum
Equivalent Availabilities
for October 1998 - December 1998

Unit	Target Equivalent Availability (0 Points)	Maximum Attainable Equivalent Availability (+10 Points)	Minimum Attainable Equivalent Availability (-10 Points)
Crist 6	85.9	87.2	84.0
Crist 7	76.8	80.8	70.8
Smith 1	98.1	98.7	97.3
Smith 2	87.1	88.0	85.7
Daniel 1	17.3	18.0	16.3
Daniel 2	83.1	85.2	79.9

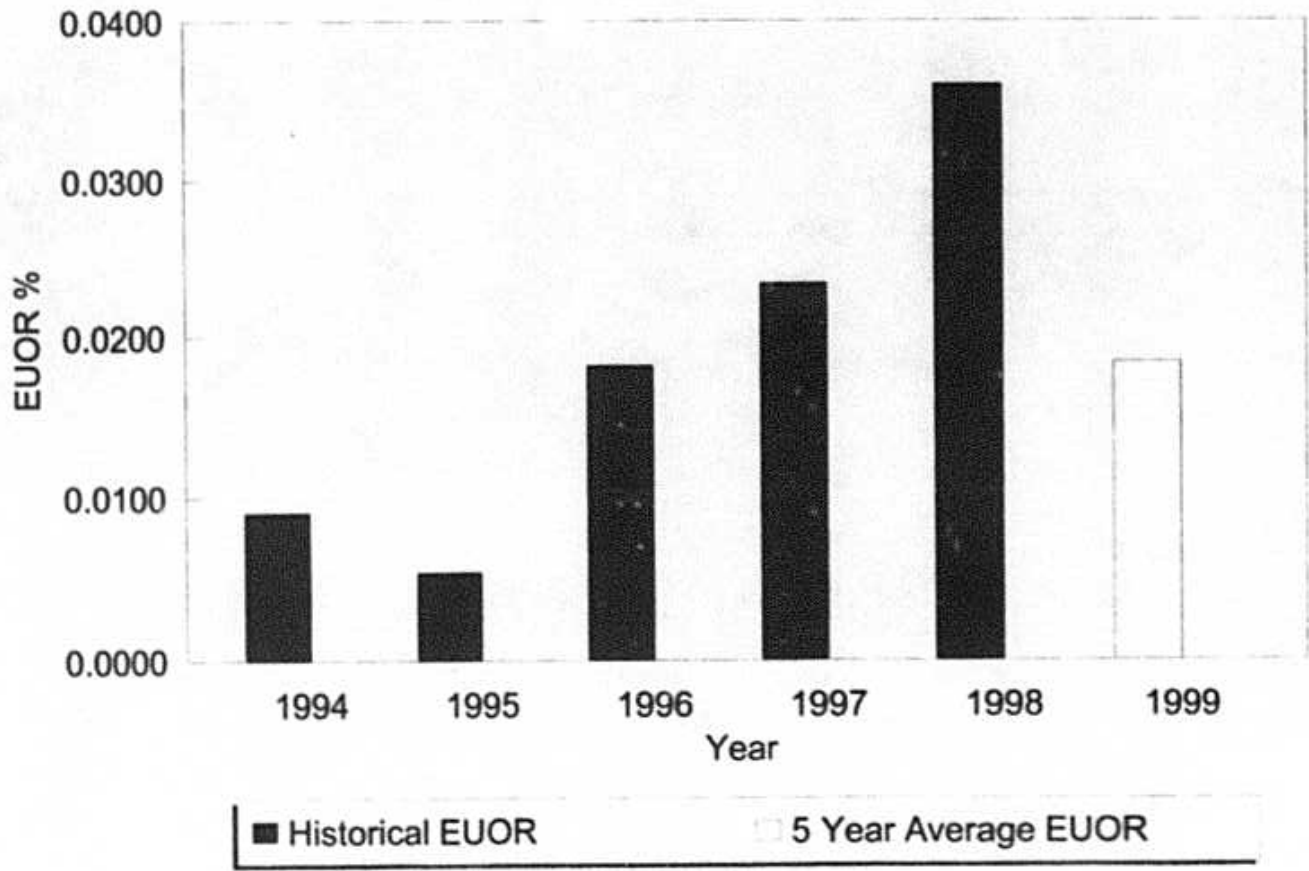
EUOR VS. YEAR
CRIST 6 October - March



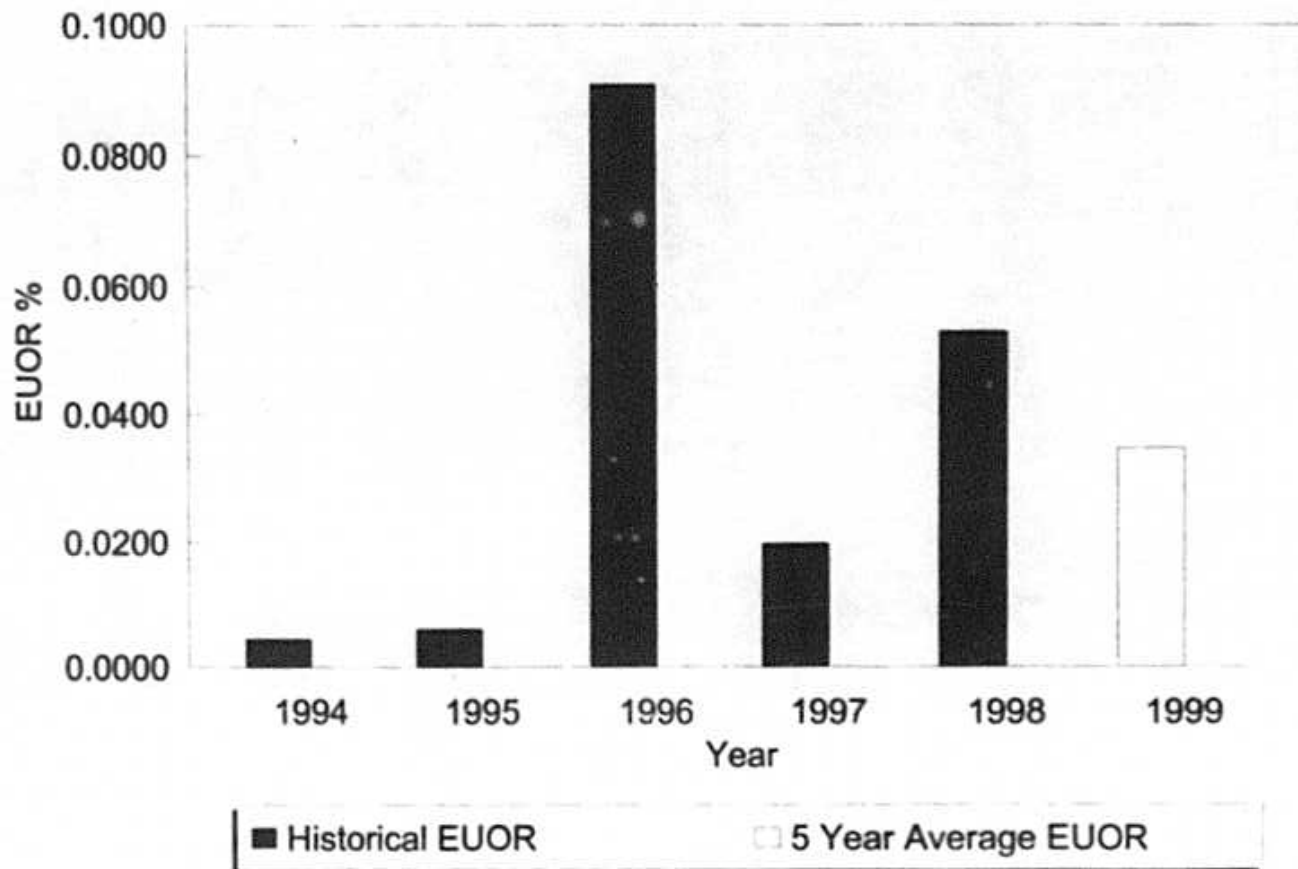
EUOR VS. YEAR
CRIST 7 October - March



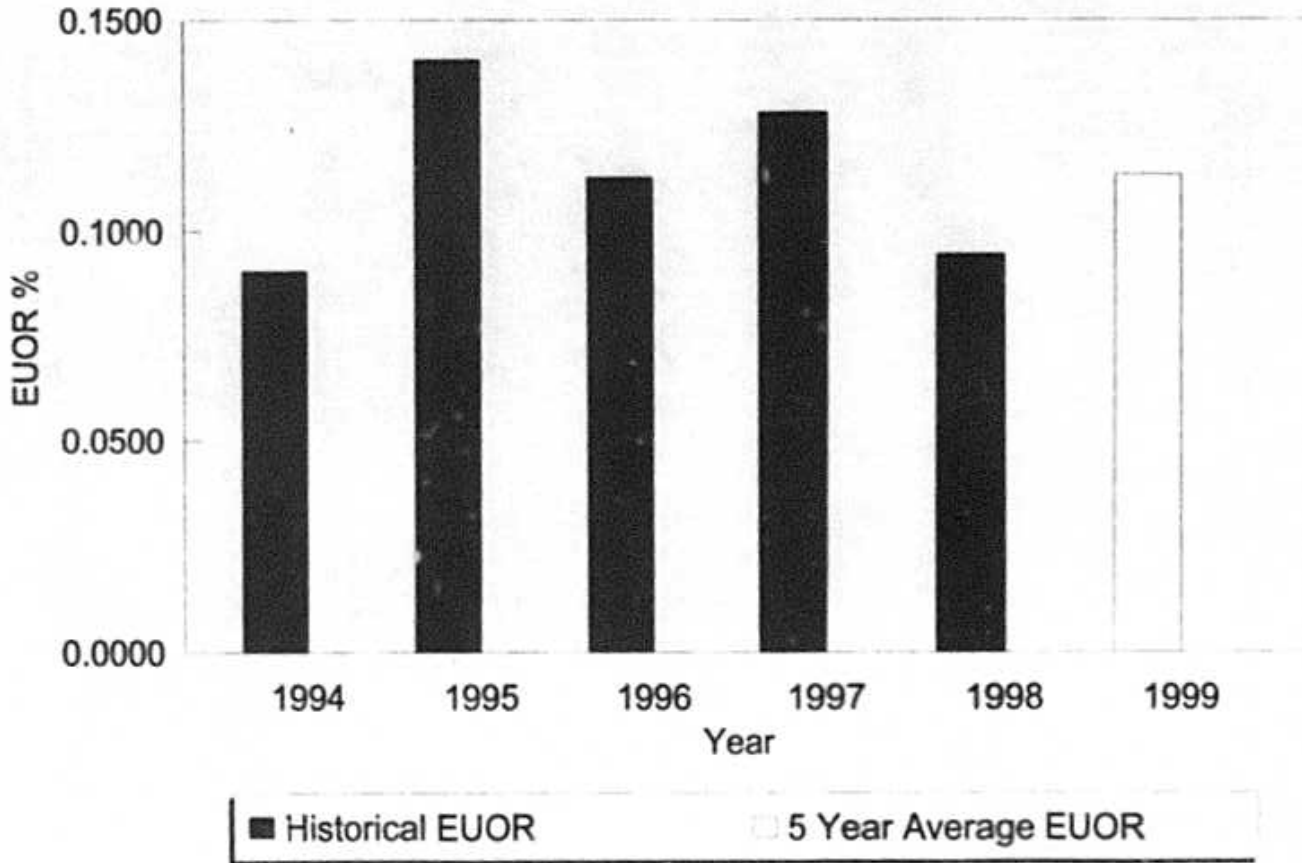
EUOR VS. YEAR
SMITH 1 October - March



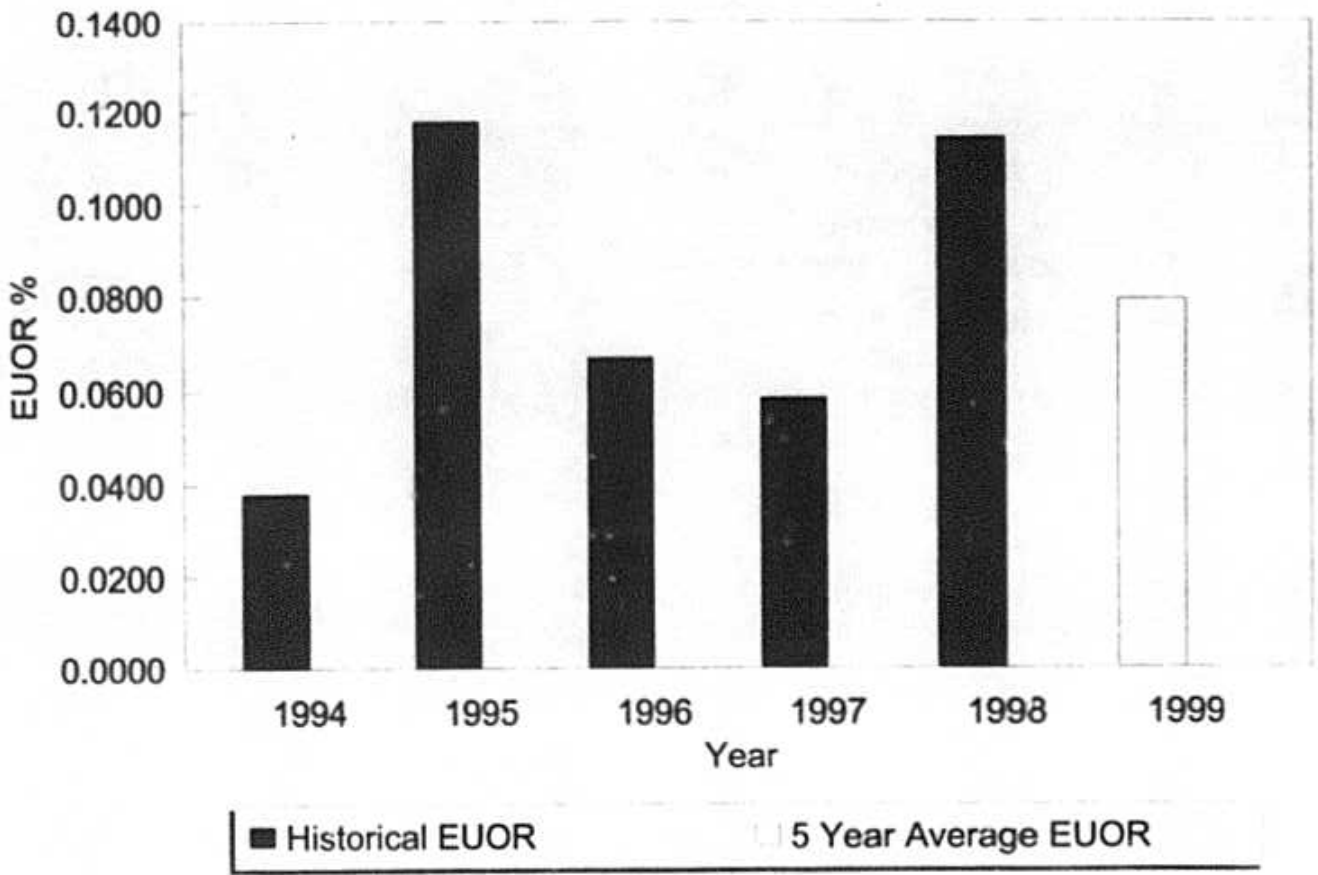
EUOR VS. YEAR
SMITH 2 October - March



EUOR VS. YEAR
DANIEL 1 October - March



EUOR VS. YEAR
DANIEL 2 October - March



Florida Public Service Commission
Docket No. 980001-E1
Oulf Power Company
Witness: G. D. Fontaine
Exhibit No. _____ (GDF-2)
Schedule 2
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III. GPIF MINIMUM FILING REQUIREMENTS FOR THE
PERIOD OCTOBER 1998 - DECEMBER 1998

	SCHEDULE 3
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CONTENTS	
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Generating Performance Incentive Factor

Estimated Reward/Penalty Table

Gulf Power Company

Period of: October 1998 - December 1998

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	1344	854
• 9	1210	769
• 8	1075	683
• 7	941	598
• 6	806	512
• 5	672	427
• 4	538	342
• 3	403	256
• 2	269	171
• 1	134	85
0	0	0
- 1	-152	-85
- 2	-304	-171
- 3	-456	-256
- 4	-608	-342
- 5	-760	-427
- 6	-912	-512
- 7	-1064	-598
- 8	-1216	-683
- 9	-1368	-769
- 10	-1520	-854
	Minimum Attainable Fuel Loss	Maximum Incentive Dollars Allowed by Commission During Period (Penalty)

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Generating Performance Incentive Factor
 Calculation of Maximum Allowed Incentive Dollars
 Estimated
 Gulf Power Company
 Period of: October 1998 - December 1998

Line 1	Beginning of Period Balance of Common Equity	\$435,474,000
	End of Month Balance of Common Equity:	
Line 2	Month of Oct '98	\$424,300,000
Line 3	Month of Nov '98	\$426,540,000
Line 4	Month of Dec '98	\$429,952,000
Line 5		
Line 6		
Line 7		
Line 8	Average Common Equity for the Period (sum of line 1 through line 4 divided by 4)	\$429,066,500
Line 9	25 Basis Points	0.0025
Line 10	Revenue Expansion Factor	60.4524%
Line 11	Maximum Allowed Incentive Dollars (line 8 multiplied by line 9 divided by line 10 multiplied by 0.5)	\$887,199
Line 12	Jurisdictional Sales (KWH)	2,061,293,386
Line 13	Total Territorial Sales (KWH)	2,141,665,038
Line 14	Jurisdictional Separation Factor (line 12 divided by line 13)	96.2472%
Line 15	Maximum Allowed Jurisdictional Incentive Dollars (line 11 multiplied by line 14)	\$853,904

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GPIP Unit Performance Summary

Gulf Power Company

Period of: October 1998 - December 1998

Plant & Unit	Weighting Factor %	EAP Target %	EAP Range		Max Fuel Savings (\$000)	Max Fuel Loss (\$000)
			Max %	Min %		
Crist 6	0.8%	85.9	87.2	84.0	\$11	(\$79)
Crist 7	11.8%	76.8	80.8	70.8	\$158	(\$199)
Smith 1	1.9%	98.1	98.7	97.3	\$25	(\$34)
Smith 2	3.2%	87.1	88.0	85.7	\$43	(\$66)
Daniel 1	1.8%	17.3	18.0	16.3	\$24	(\$15)
Daniel 2	3.4%	83.1	85.2	79.9	\$46	(\$90)

Plant & Unit	Weighting Factor %	ANOHR Target BTU/KWH	Target NOF	ANOHR Range		Max Fuel Savings (\$000)	Max Fuel Loss (\$000)
				Min BTU/KWH	Max BTU/KWH		
Crist 6	11.3%	10,737	58.4	10,415	11,059	\$152	(\$152)
Crist 7	24.7%	10,156	87.3	9,851	10,461	\$332	(\$332)
Smith 1	5.9%	10,207	92.6	9,901	10,513	\$79	(\$79)
Smith 2	5.5%	10,246	90.9	9,939	10,553	\$74	(\$74)
Daniel 1	4.2%	10,655	65.1	10,335	10,975	\$57	(\$57)
Daniel 2	25.5%	10,300	84.4	9,991	10,609	\$343	(\$343)

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: October 1998 - December 1998

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Target			Actual Performance 1st Prior Period Oct '97 - Mar '98			Actual Performance 2nd Prior Period Oct '96 - Mar '97		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Crist 6	0.8%	3.6%	0.0982	0.0430	0.0475	0.2526	0.0413	0.0625	0.0547	0.0674	0.0921
Crist 7	11.8%	51.5%	0.0978	0.1344	0.1487	0.1446	0.2047	0.2421	0.0988	0.1006	0.1234
Smith 1	1.9%	8.1%	0.0000	0.0186	0.0184	0.0444	0.0344	0.0360	0.1297	0.0197	0.0233
Smith 2	3.2%	14.0%	0.0978	0.0312	0.0347	0.1763	0.0428	0.0530	0.0793	0.0173	0.0196
Daniel 1	1.8%	7.8%	0.8044	0.0222	0.1132	0.2656	0.0694	0.0945	0.1696	0.1062	0.1278
Daniel 2	3.4%	15.0%	0.0978	0.0715	0.0792	0.0471	0.1090	0.1144	0.1512	0.0497	0.0585

Weighted GPIF System Average: 0.1451 0.0890 0.1053 0.1396 0.1374 0.1617 0.1104 0.0740 0.0902

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: October 1998 - December 1998

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Actual Performance 3rd Prior Period Oct '95 - Mar '96			Actual Performance 4th Prior Period Oct '94 - Mar '95			Actual Performance 5th Prior Period Oct '93 - Mar '94		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
			Crist 6	0.8%	3.6%	0.0847	0.0071	0.0163	0.0000	0.0228	0.0394
Crist 7	11.8%	51.5%	0.4551	0.0323	0.0598	0.0415	0.0217	0.0340	0.1063	0.2535	0.2843
Smith 1	1.9%	8.1%	0.0397	0.0175	0.0182	0.0000	0.0053	0.0054	0.3070	0.0052	0.0091
Smith 2	3.2%	14.0%	0.0721	0.0832	0.0908	0.0385	0.0049	0.0059	0.0811	0.0038	0.0044
Daniel 1	1.8%	7.8%	0.4087	0.0659	0.1126	0.0000	0.1117	0.1405	0.2254	0.0329	0.0907
Daniel 2	3.4%	15.0%	0.5062	0.0321	0.0669	0.0000	0.0921	0.1179	0.2641	0.0110	0.0381
Weighted GPIF System Average:			0.3584	0.0399	0.0642	0.0268	0.0356	0.0488	0.1550	0.1366	0.1617

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Average Net Operating Heat Rate

Gulf Power Company

Period of: October 1998 - December 1998

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Heat Rate Target	1st Prior Period		2nd Prior Period		3rd Prior Period
				Oct '97 - Mar '98	Heat Rate	Oct '96 - Mar '97	Heat Rate	Heat Rate
Crist 6	11.3%	14.7%	10,737	10,830		10,675		10,831
Crist 7	24.7%	32.0%	10,156	10,088		10,051		10,332
Smith 1	5.9%	7.6%	10,207	10,222		10,067		10,299
Smith 2	5.5%	7.1%	10,246	10,076		10,199		10,324
Daniel 1	4.2%	5.5%	10,655	10,669		10,739		10,855
Daniel 2	25.5%	33.1%	10,300	10,203		10,373		10,323
Weighted GPIF System Average:			10,327	10,276		10,299		10,429

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Example Calculation of Prior Season

Average Net Operating Heat Rate

Adjusted to Target Basis

Crist 6 Oct '96 - Mar '97

	Oct	Nov	Dec	Jan	Feb	Mar
1. Target Heat Rate*	10466	10797	10930	-	-	-
2. Target Heat Rate at Actual Conditions**	10680	10893	11038	10942	10851	10409
3. Adjustments to Actual Heat Rate (1-2)	-214	-96	-108	0	0	0
4. Actual Heat Rate for Prior Period	10709	10785	10941	10768	10913	10715
5. Adjusted actual Heat Rate (4+3)	10495	10689	10833	10768	10913	10715
6. Forecast Net MWH Generation*	110110	127300	114760	0	0	0
7. Adjusted Actual Heat Rate for Oct '96 - Dec '97 = (Σ ((5)*(6))) / (Σ (6))						10.675

* For the October 1998 - December 1998 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: October 1998 - December 1998

Plant & Unit	Unit Performance Indicator	Production Cost Simulation Fuel Cost (\$000)			Weighting Factor (% of Savings)
		At Target (1)	At Maximum Improvement (2)	Savings (3)	
Crist 6	EA-1	\$38,258	\$38,247	\$11	0.8%
Crist 6	ANOHR-1	\$38,258	\$38,106	\$152	11.3%
Crist 7	EA-2	\$38,258	\$38,100	\$158	11.8%
Crist 7	ANOHR-2	\$38,258	\$37,926	\$332	24.7%
Smith 1	EA-3	\$38,258	\$38,233	\$25	1.9%
Smith 1	ANOHR-3	\$38,258	\$38,179	\$79	5.9%
Smith 2	EA-4	\$38,258	\$38,215	\$43	3.2%
Smith 2	ANOHR-4	\$38,258	\$38,184	\$74	5.5%
Daniel 1	EA-5	\$38,258	\$38,234	\$24	1.8%
Daniel 1	ANOHR-5	\$38,258	\$38,201	\$57	4.2%
Daniel 2	EA-6	\$38,258	\$38,212	\$46	3.4%
Daniel 2	ANOHR-6	\$38,258	\$37,915	\$343	25.5%

- (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: October 1998 - December 1998

Crist 6

Equivalent Availability Points	Fuel Savings/Loss (\$000)	Adjusted Actual Equivalent Availability	Average Heat Rate Points	Fuel Savings/Loss (\$000)	Adjusted Actual Heat Rate
+ 10	11	87.20	+ 10	152	10,415
+ 9	10	87.07	+ 9	137	10,440
+ 8	9	86.94	+ 8	122	10,464
+ 7	8	86.81	+ 7	106	10,489
+ 6	7	86.68	+ 6	91	10,514
+ 5	6	86.55	+ 5	76	10,539
+ 4	4	86.42	+ 4	61	10,563
+ 3	3	86.29	+ 3	46	10,588
+ 2	2	86.16	+ 2	30	10,613
+ 1	1	86.03	+ 1	15	10,637
				0	10,662
0	0	85.90	0	0	10,737
				0	10,812
- 1	(8)	85.71	- 1	(15)	10,837
- 2	(16)	85.52	- 2	(30)	10,861
- 3	(24)	85.33	- 3	(46)	10,886
- 4	(32)	85.14	- 4	(61)	10,911
- 5	(40)	84.95	- 5	(76)	10,936
- 6	(47)	84.76	- 6	(91)	10,960
- 7	(55)	84.57	- 7	(106)	10,985
- 8	(63)	84.38	- 8	(122)	11,010
- 9	(71)	84.19	- 9	(137)	11,034
- 10	(79)	84.00	- 10	(152)	11,059
Weighting Factor:		0.008	Weighting Factor:		0.113

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: October 1998 - December 1998

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	158	80.80	+ 10	332	9.851
+ 9	142	80.40	+ 9	299	9.874
+ 8	126	80.00	+ 8	266	9.897
+ 7	111	79.60	+ 7	232	9.920
+ 6	95	79.20	+ 6	199	9.943
+ 5	79	78.80	+ 5	166	9.966
+ 4	63	78.40	+ 4	133	9.989
+ 3	47	78.00	+ 3	100	10.012
+ 2	32	77.60	+ 2	66	10.035
+ 1	16	77.20	+ 1	33	10.058
0	0	76.80	0	0	10.081
				0	10.156
				0	10.231
- 1	(20)	76.20	- 1	(33)	10.254
- 2	(40)	75.60	- 2	(66)	10.277
- 3	(60)	75.00	- 3	(100)	10.300
- 4	(80)	74.40	- 4	(133)	10.323
- 5	(100)	73.80	- 5	(166)	10.346
- 6	(119)	73.20	- 6	(199)	10.369
- 7	(139)	72.60	- 7	(232)	10.392
- 8	(159)	72.00	- 8	(266)	10.415
- 9	(179)	71.40	- 9	(299)	10.438
- 10	(199)	70.80	- 10	(332)	10.461
Weighting Factor:		0.118	Weighting Factor:		0.247

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: October 1998 - December 1998

Smith 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	25	98.70	+ 10	79	9,901
+ 9	23	98.64	+ 9	71	9,924
+ 8	20	98.58	+ 8	63	9,947
+ 7	18	98.52	+ 7	55	9,970
+ 6	15	98.46	+ 6	47	9,993
+ 5	13	98.40	+ 5	40	10,017
+ 4	10	98.34	+ 4	32	10,040
+ 3	8	98.28	+ 3	24	10,063
+ 2	5	98.22	+ 2	16	10,086
+ 1	3	98.16	+ 1	8	10,109
0	0	98.10	0	0	10,132
- 1	(3)	98.02	- 1	(8)	10,207
- 2	(7)	97.94	- 2	(16)	10,282
- 3	(10)	97.86	- 3	(24)	10,305
- 4	(14)	97.78	- 4	(32)	10,328
- 5	(17)	97.70	- 5	(40)	10,351
- 6	(20)	97.62	- 6	(47)	10,374
- 7	(24)	97.54	- 7	(55)	10,398
- 8	(27)	97.46	- 8	(63)	10,421
- 9	(31)	97.38	- 9	(71)	10,444
- 10	(34)	97.30	- 10	(79)	10,467
Weighting Factor:		0.019	Weighting Factor:		0.059

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: October 1998 - December 1998

Smith 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	43	88.00	+ 10	74	9,939
+ 9	39	87.91	+ 9	67	9,962
+ 8	34	87.82	+ 8	59	9,985
+ 7	30	87.73	+ 7	52	10,009
+ 6	26	87.64	+ 6	44	10,032
+ 5	22	87.55	+ 5	37	10,055
+ 4	17	87.46	+ 4	30	10,078
+ 3	13	87.37	+ 3	22	10,101
+ 2	9	87.28	+ 2	15	10,125
+ 1	4	87.19	+ 1	7	10,148
0	0	87.10	0	0	10,171
- 1	(7)	86.96	- 1	(7)	10,246
- 2	(13)	86.82	- 2	(15)	10,321
- 3	(20)	86.68	- 3	(22)	10,344
- 4	(26)	86.54	- 4	(30)	10,367
- 5	(33)	86.40	- 5	(37)	10,391
- 6	(40)	86.26	- 6	(44)	10,414
- 7	(46)	86.12	- 7	(52)	10,437
- 8	(53)	85.98	- 8	(59)	10,460
- 9	(59)	85.84	- 9	(67)	10,483
- 10	(66)	85.70	- 10	(74)	10,507
					10,530
					10,553
Weighting Factor:		0.032	Weighting Factor:		0.055

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: October 1998 - December 1998

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	24	18.00	+ 10	57	10.335
+ 9	22	17.93	+ 9	51	10.360
+ 8	19	17.86	+ 8	46	10.384
+ 7	17	17.79	+ 7	40	10.409
+ 6	14	17.72	+ 6	34	10.433
+ 5	12	17.65	+ 5	29	10.458
+ 4	10	17.58	+ 4	23	10.482
+ 3	7	17.51	+ 3	17	10.507
+ 2	5	17.44	+ 2	11	10.531
+ 1	2	17.37	+ 1	6	10.556
				0	10.580
0	0	17.30	0	0	10.655
				0	10.730
- 1	(2)	17.20	- 1	(6)	10.755
- 2	(3)	17.10	- 2	(11)	10.779
- 3	(5)	17.00	- 3	(17)	10.804
- 4	(6)	16.90	- 4	(23)	10.828
- 5	(8)	16.80	- 5	(29)	10.853
- 6	(9)	16.70	- 6	(34)	10.877
- 7	(11)	16.60	- 7	(40)	10.902
- 8	(12)	16.50	- 8	(46)	10.926
- 9	(14)	16.40	- 9	(51)	10.951
- 10	(15)	16.30	- 10	(57)	10.975
Weighting Factor:		0.018	Weighting Factor:		0.042

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: October 1998 - December 1998

CRIST 6	Oct '98	Nov '98	Dec '98	Total
1. EAF (%)	62.4	97.8	97.8	85.9
2. POF (%)	29.1	0.0	0.0	9.8
3. EUOF (%)	8.5	2.2	2.2	4.3
4. EUOR (%)	11.9	2.2	2.2	4.8
5. PH	745.0	720.0	744.0	2209.0
6. SH	470.0	704.0	728.0	1902.0
7. RSH	0.0	0.0	0.0	0.0
8. UH	275.0	16.0	16.0	307.0
9. POH	217.0	0.0	0.0	217.0
10. POH & EPOH	15.0	16.0	16.0	47.0
11. MOH & EMOH	48.0	0.0	0.0	48.0
12. Oper MBtu	1152411.0	1374458.0	1254327.0	3781196.0
13. Net Gen (MWH)	110110.0	127300.0	114760.0	352170.0
14. ANOHR (Btu/KWH)	10466.0	10797.0	10930.0	10737.0
15. NOF %	73.9	57.0	49.7	58.4
16. NPC (MW)	317.0	317.0	317.0	317.0
19. ANOHR Equation	$18 \cdot E / ANH + [435.98 - 38.13 \cdot FEB - 32.39 \cdot MAR - 41.76 \cdot OCT]$ $+ 6.831 + 0.00773 \cdot LBRP / ANH$			

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GULF POWER COMPANY

PERIOD OF: October 1998 - December 1998

CRIST 7	Oct '98	Nov '98	Dec '98	Total
1. EAF (%)	79.1	63.3	87.5	76.8
2. POF (%)	3.2	26.7	0.0	9.8
3. EUOP (%)	17.7	10.0	12.5	13.4
4. EUOR (%)	18.3	13.6	12.5	14.9
5. PH	745.0	720.0	744.0	2209.0
6. SH	589.0	462.0	651.0	1702.0
7. RSH	0.0	0.0	0.0	0.0
8. UH	156.0	258.0	93.0	507.0
9. POH	24.0	192.0	0.0	216.0
10. FOH & EPOH	84.0	72.0	93.0	249.0
11. MOH & EMOH	48.0	0.0	0.0	48.0
12. Oper MBtu	2786913.0	2121357.0	2693755.0	7602025.0
13. Net Gen (MWH)	275550.0	209310.0	263680.0	748540.0
14. ANOHR (Btu/KWH)	10114.0	10135.0	10216.0	10156.0
15. NOP %	92.8	89.9	80.4	87.3
16. NPC (MW)	504.0	504.0	504.0	504.0
19. ANOHR Equation	$10^6 / \text{ANR} * [306.85 * \text{MAY} + 74.91 * \text{MAY} + 35.39 * \text{JUN} + 95.55 * \text{JUL} + 47.29 * \text{AUG}]$			
	* 3,468			

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GULF POWER COMPANY

PERIOD OF: October 1998 - December 1998

SMITH 1	Oct '98	Nov '98	Dec '98	Total
1. EAF (%)	97.7	98.3	98.4	98.1
2. POF (%)	0.0	0.0	0.0	0.0
3. EUOP (%)	2.3	1.7	1.6	1.9
4. EUOR (%)	2.3	1.7	1.6	1.9
5. PH	745.0	720.0	744.0	2209.0
6. SH	733.0	708.0	732.0	2173.0
7. RSH	0.0	0.0	0.0	0.0
8. UH	12.0	12.0	12.0	36.0
9. FOH	0.0	0.0	0.0	0.0
10. FOH & EFOH	17.0	12.0	12.0	41.0
11. MOH & EMOH	0.0	0.0	0.0	0.0
12. Oper MBtu	1168538.0	1102799.0	1037003.0	3308340.0
13. Net Gen (MWH)	114720.0	108160.0	101250.0	324130.0
14. ANOHR (Btu/KWH)	10186.0	10196.0	10242.0	10207.0
15. NOF %	97.2	94.9	85.9	92.6
16. NPC (MW)	161.0	161.0	161.0	161.0
19. ANOHR Equation	$10^{-6} / \text{ANR} * (66.60 * \text{JAN} + 13.44 * \text{FEB} + 18.98 * \text{MAR} + 11.46 * \text{APR} + 8.41 * \text{MAY} + 11.13 * \text{JUN})$ $= 9,760$			

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GULF POWER COMPANY

PERIOD OF: October 1998 - December 1998

SMITH 2	Oct '98	Nov '98	Dec '98			Total
1. EAF (%)	98.0	97.9	65.7			87.1
2. POF (%)	0.0	0.0	29.0			9.8
3. EUOF (%)	2.0	2.1	5.3			3.1
4. EUOR (%)	2.0	2.1	7.4			3.5
5. PH	745.0	720.0	744.0			2209.0
6. SH	730.0	705.0	494.0			1929.0
7. RSH	0.0	0.0	0.0			0.0
8. UH	15.0	15.0	250.0			280.0
9. POH	0.0	0.0	216.0			216.0
10. FOH & EPOH	15.0	15.0	15.0			45.0
11. MOH & EMOH	0.0	0.0	24.0			24.0
12. Oper MBtu	1358411.0	1271637.0	799930.0			3429978.0
13. Net Gen (MWH)	132360.0	124050.0	78340.0			334750.0
14. ANOHR (Btu/KWH)	10263.0	10251.0	10211.0			10246.0
15. NOF %	94.9	92.1	83.0			90.9
16. NPC (MW)	191.0	191.0	191.0			191.0
19. ANOHR Equation	$10^{-6} / \text{ANR} * [139.06 * \text{JAN} + 14.06 * \text{FEB} + 43.51 * \text{MAR} + 24.16 * \text{JUL} + 20.05 * \text{AUG}]$ $+ 6.911 + 0.01352 * \text{LORF} / \text{ANR}$					

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GULF POWER COMPANY

PERIOD OF: October 1998 - December 1998

DANIEL 1	Oct '98	Nov '98	Dec '98	Total
1. EAF (%)	0.0	0.0	51.5	17.3
2. POF (%)	100.0	100.0	41.9	80.4
3. EUOF (%)	0.0	0.0	6.6	2.3
4. EUOR (%)	0.0	0.0	11.3	11.3
5. PH	745.0	720.0	744.0	2209.0
6. SH	0.0	0.0	388.0	388.0
7. RSH	0.0	0.0	0.0	0.0
8. UH	745.0	720.0	356.0	1821.0
9. POH	745.0	720.0	312.0	1777.0
10. FOH & EFOH	0.0	0.0	25.0	25.0
11. MOH & EMOH	0.0	0.0	24.0	24.0
12. Oper MBtu	0.0	0.0	1282862.0	1282862.0
13. Net Gen (MWH)	0.0	0.0	120400.0	120400.0
14. ANOHR (Btu/KWH)	-	-	10655.0	10655.0
15. NOF %	0.0	0.0	65.1	65.1
16. NPC (MW)	477.0	477.0	477.0	477.0
19. ANOHR Equation	$10^{-6} / \text{ANW} * [-141.87 - 90.17 * \text{NOF}]$ $+ 12.568 - 0.00408 * \text{LDRF} / \text{ANW}$			

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GULF POWER COMPANY

PERIOD OF: October 1998 - December 1998

DANIEL 2		Oct '98	Nov '98	Dec '98	Total
1.	EAF (%)	62.0	96.9	90.7	83.1
2.	POF (%)	29.0	0.0	0.0	9.8
3.	EUOP (%)	9.0	3.1	9.3	7.1
4.	EUOR (%)	12.7	3.1	9.3	7.9
5.	PH	745.0	720.0	744.0	2209.0
6.	SH	467.0	698.0	675.0	1840.0
7.	RSR	0.0	0.0	0.0	0.0
8.	H	278.0	22.0	69.0	369.0
9.	POH	216.0	0.0	0.0	216.0
10.	POH & EFOH	19.0	22.0	21.0	62.0
11.	MOH & EMOH	48.0	0.0	48.0	96.0
12.	Oper MBtu	2062262.0	2962188.0	2602481.0	7626931.0
13.	Net Gen (MWh)	202540.0	287340.0	250600.0	740480.0
14.	ANQHR (Btu/KWH)	10182.0	10309.0	10385.0	10300.0
15.	NOF %	90.9	86.3	77.8	84.4
16.	NPC (MW)	477.0	477.0	477.0	477.0
19.	ANQHR Equation	$19.4 / ANH * (4.25 - 41.50 * JAN - 54.19 * FEB - 44.21 * MAR - 38.21 * OCT)$ $+ 11.573 - 0.00294 * LBRF / ANH$			

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Planned Outage Schedules (Estimated)

Gulf Power Company

Period of: October 1998 - December 1998

Plant & Unit	Planned Outage Dates	Reason for Outage
Crist 6	10/17/98 - 10/25/98	Semi-annual general boiler maintenance and inspection.
Crist 7	10/31/98 - 11/08/98	Semi-annual general boiler maintenance and inspection.
Smith 2	12/12/98 - 12/20/98	Semi-annual general boiler maintenance and inspection.
Dainel 1	09/12/98 - 12/13/98	General turbine & boiler maintenance and inspection.
Dainel 2	10/10/98 - 10/18/98	Semi-annual general boiler maintenance and inspection.

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Notes Regarding Estimated Planned Outage Schedules

Gulf Power Company

Period of: October 1998 - December 1998

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 October 1998 - December 1998, the outages shown below are currently planned and could be rescheduled for the target period.

Plant & Unit	Planned Outage Dates	Reason for Outage
Smith 1	09/19/98 - 09/27/98	Semi-annual general boiler maintenance and inspection.

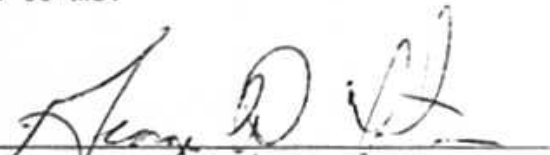
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)
COUNTY OF ESCAMBIA)

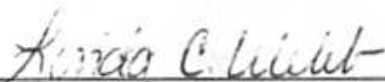
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Before me the undersigned authority, personally appeared George D. Fontaine, who being first duly sworn, deposes, and says that he is the Performance Test Specialist for Gulf Power Company, a Maine Corporation, and that the foregoing is true and correct to the best of his knowledge, information, and belief. He is personally known to me.



George D. Fontaine
Performance Test Specialist

Sworn to and subscribed before me this 17th day of June, 1998.



Notary Public, State of Florida at Large



LINDA C. WEBB
Notary Public-State of FL
Comm. Exp: May 31, 2002
Comm. No: CC 725869