

GULF POWER COMPANY
TESTIMONY AND EXHIBITS OF
J. R. DOUGLASS

GENERATING PERFORMANCE INCENTIVE FACTOR

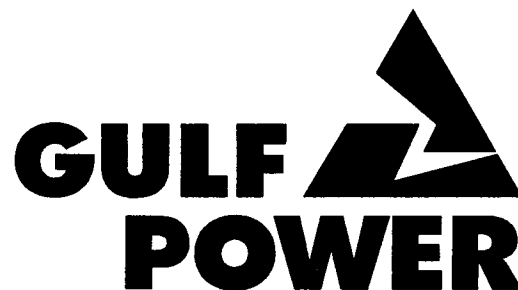
TARGETS FOR

JANUARY 2002 - DECEMBER 2002

Before

THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 010001-EI



A SOUTHERN COMPANY

DOCUMENT NUMBER-DATE

11731 SEP 20 5

FPSC-COMMISSION CLERK

1 GULF POWER COMPANY
2 Before the Florida Public Service Commission
3 Direct Testimony of
4 J. R. Douglass
5 Docket No. 010001-EI
6 Date of Filing September 20, 2001

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

8 A. My name is James R. Douglass, 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 Aviation Management Degree
15 from Auburn University in 1989. Following graduation,
16 I served as a commissioned officer in the U.S. Navy
17 filling several shipboard roles including Electrical
18 Division Officer, Engineering Officer of the Watch, and
19 Deck Division Officer. After serving in the Navy, I
20 worked in the Generation Planning and Development
21 Department of Southern Company Services as a System
22 Planning Analyst for six years and, as I previously
23 stated, my current position is Performance Test
24 Specialist at Gulf Power Company.

25
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FPSC-COMMISSION CLERK

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 January 1,
5 2002 through December 31, 2002.

6

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

9 A. Yes, I have prepared one 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. Douglass's exhibit be
17 marked for identification as exhibit _____(JRD-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 4, 6, and 7, Smith Units 1
22 and 2, and Daniel Units 1 and 2 be the Company's GPIF
23 units. Crist Unit 4 has been added to the other six
24 GPIF units in order to ensure that at least 80% of
25 Gulf's expected generation for the period is

1 represented by the units included in the GPIF. Combined-
2 cycle unit Smith 3 will come on-line in June of 2002.
3 This unit will be considered for inclusion in the GPIF
4 after it has been in commercial operation for at least
5 1 year as described in the GPIF implementation manual
6 for Gulf.

7
8 Q. What are the target heat rates Gulf proposes to use in
9 the GPIF for these units for the performance period
10 January 1, 2002 through December 31, 2002?

11 A. I would like to refer you to Page 39 of Schedule 1 of
12 my exhibit _____ (JRD-2) where these targets are
13 listed.

14
15 Q. How were these proposed target heat rates determined?

16 A. They were determined according to the GPIF
17 implementation manual procedures for Gulf. For Plant
18 Daniel, use of the BTU/LB independent variable in the
19 heat rate regression equations has been discontinued.
20 This is due to regression analysis which determined
21 that this variable is not significant to a 90%
22 confidence interval for either unit. It is anticipated
23 that high-BTU coal with a reasonably consistent average
24 heat content will be used at Plant Daniel for the
25 foreseeable future and the resulting heat rate

1 equations are valid for those conditions.

2

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

5 A. Page 2 of Schedule 1 of exhibit _____ (JRD-2) shows the
6 target average net operating heat rate equations for
7 the proposed GPIF units, and pages 4 through 35 of
8 Schedule 1 contain the weekly historical data used for
9 the statistical development of these equations.

10 Pages 36 through 38 of Schedule 1 present the
11 calculations which provide the unit target heat rates
12 from the target equations.

13

14 Q. Were the maximum and minimum attainable heat rates for
15 each proposed GPIF unit, indicated on page 39 of
16 Schedule 1 of exhibit _____ (JRD-2), calculated
17 according to the appropriate GPIF implementation manual
18 procedures?

19 A. Yes.

20

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

23 A. The target equivalent availabilities and their ranges
24 are listed on page 4 of Schedule 2 of exhibit
25 _____ (JRD-2).

1 Q. How are these target equivalent availabilities
2 determined?

3 A. The target equivalent availabilities were determined
4 according to the standard GPIF implementation manual
5 procedures for Gulf, and are presented on page 2 of
6 Schedule 2 of exhibit (JRD-2).

7

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

10 A. The maximum and minimum attainable equivalent
11 availabilities, which are presented along with their
12 respective target availabilities on page 4 of Schedule
13 2 of exhibit (JRD-2), were determined per GPIF manual
14 procedures for Gulf.

15

16 Q. Mr. Douglass, has Gulf completed the GPIF minimum
17 filing requirements data package?

18 A. Yes, we have completed the required data. Schedule 3
19 of my exhibit _____ (JRD-2) contains this information.

20

21 Q. Mr. Douglass, would you please summarize your
22 testimony?

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

24 1. Crist Units 4, 6 and 7, Smith Units 1 and 2 and
25 Daniel Units 1 and 2, for inclusion under the GPIF

1 for the period of January 1, 2002 through December
2 31, 2002.

3

4 2. The target, maximum attainable, and minimum
5 attainable average net operating heat rates, as
6 proposed by the Company and as shown on page 39 of
7 Schedule 1 and also page 5 of Schedule 3 of my
8 exhibit _____ (JRD-2).

9

10 3. The target, maximum attainable, and minimum
11 attainable equivalent availabilities, as proposed
12 by the Company and as shown on Page 4 of Schedule
13 2 and also page 5 of Schedule 3 of my exhibit
14 _____ (JRD-2).

15

16 4. The weekly average net operating heat rate least
17 squares regression equations, shown on page 2 of
18 Schedule 1 and also pages 19 through 32 of
19 Schedule 3 of my exhibit _____ (JRD-2), for use in
20 adjusting the annual actual unit heat rates to
21 target conditions.

22

23 Q. Mr. Douglass, does this conclude your testimony?

24 A. Yes, Sir.

25

Florida Public Service Commission
Docket No. 010001-EI
Gulf Power Company
Witness: J. R. Douglass
Exhibit No. ____ (JRD-2)

EXHIBIT TO THE TESTIMONY OF

J. R. DOUGLASS

IN FPSC DOCKET 010001-EI

I. DETERMINATION OF HEAT RATE TARGETS

Target Heat Rate Equations

Crist 4 ANOHR = $10^6 / AKW * (449.21 - 12.61 * JAN + 16.96 * JUN + 24.56 * JUL + 27.59 * AUG)$
- 3640 + 0.10501 * LSRF / AKW

Crist 6 ANOHR = $10^6 / AKW * (187.63 - 85.12 * APR + 32.17 * JUN)$
+ 9,810

Crist 7 ANOHR = $10^6 / AKW * (204.45 - 44.16 * MAY + 83.05 * JUL + 67.20 * AUG + 91.16 * SEP + 58.82 * OCT)$
+ 9,704

Smith 1 ANOHR = $10^6 / AKW * (43.96 - 17.87 * FEB - 12.85 * MAY - 18.43 * NOV)$
+ 9,793

Smith 2 ANOHR = $10^6 / AKW * (410.85 - 30.87 * JAN - 38.46 * FEB - 38.20 * MAR - 18.64 * APR)$
+ 4,743 + 0.01678 * LSRF / AKW

Daniel 1 ANOHR = $10^6 / AKW * (-429.41 - 91.37 * FEB - 136.56 * JUN + 105.89 * JUL)$
+ 14,936 - 0.00805 * LSRF / AKW

Daniel 2 ANOHR = $10^6 / AKW * (-42.23 + 77.21 * MAY + 79.18 * JUL + 123.19 * AUG - 68.28 * NOV)$
+ 13,010 - 0.00640 * LSRF / AKW

Where:

- ANOHR = Average Net Operating Heat Rate, BTU/KWH
- AKW = Average Kilowatt Load, KW
- LSRF = Load Square Range Factor, KW²
- 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 CRIST 4 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10587	168	77.9	6074	0	0	0	0	0	0	1	0	0	0	0	0	1998
10498	168	78.7	6209	0	0	0	0	0	0	1	0	0	0	0	0	1998
10623	168	75.6	5728	0	0	0	0	0	0	1	0	0	0	0	0	1998
10594	116	75.7	5762	0	0	0	0	0	0	1	0	0	0	0	0	1998
10974	95	71.6	5376	0	0	0	0	0	0	0	1	0	0	0	2	1998
10680	165	77.8	6120	0	0	0	0	0	0	0	1	0	0	0	1	1998
10531	168	78.8	6232	0	0	0	0	0	0	0	1	0	0	0	0	1998
10263	168	75.8	5785	0	0	0	0	0	0	0	1	0	0	0	0	1998
10393	168	78.2	6123	0	0	0	0	0	0	0	1	0	0	0	0	1998
10343	168	77.8	6061	0	0	0	0	0	0	0	0	1	0	0	0	1998
10192	168	79.8	6376	0	0	0	0	0	0	0	0	1	0	0	0	1998
10225	76	79.1	6258	0	0	0	0	0	0	0	0	1	0	0	0	1998
11275	68	61.3	4069	0	0	0	0	0	0	0	0	0	1	0	1	1998
11013	168	46.3	2223	0	0	0	0	0	0	0	0	0	1	0	0	1998
10738	168	59.1	3711	0	0	0	0	0	0	0	0	0	1	0	0	1998
10849	56	49.8	2716	0	0	0	0	0	0	0	0	0	1	0	1	1998
10492	168	54.1	3129	0	0	0	0	0	0	0	0	0	0	1	0	1998
10162	168	62.6	4088	0	0	0	0	0	0	0	0	0	0	1	0	1998
10369	168	60.5	3903	0	0	0	0	0	0	0	0	0	0	1	0	1998
10158	81	63.7	4331	0	0	0	0	0	0	0	0	0	0	1	0	1998
11114	51	48.1	2417	0	0	0	0	0	0	0	0	0	0	0	1	1998
10430	45	56.0	3289	0	0	0	0	0	0	0	0	0	0	0	0	1998
10549	92	61.5	4079	1	0	0	0	0	0	0	0	0	0	0	1	1999
10406	108	50.4	2697	1	0	0	0	0	0	0	0	0	0	0	0	1999
10729	114	54.1	3087	0	1	0	0	0	0	0	0	0	0	0	1	1999
10683	145	55.9	3335	0	1	0	0	0	0	0	0	0	0	0	1	1999
10732	168	46.3	2206	0	0	1	0	0	0	0	0	0	0	0	0	1999
10702	168	53.9	3068	0	0	1	0	0	0	0	0	0	0	0	0	1999
10587	168	53.4	3011	0	0	1	0	0	0	0	0	0	0	0	0	1999
10427	118	63.5	4254	0	0	1	0	0	0	0	0	0	0	0	1	1999
10478	140	65.8	4494	0	0	1	0	0	0	0	0	0	0	0	1	1999
10589	167	70.1	5045	0	0	0	1	0	0	0	0	0	0	0	0	1999
10409	168	71.3	5160	0	0	0	1	0	0	0	0	0	0	0	0	1999
10377	168	68.2	4815	0	0	0	1	0	0	0	0	0	0	0	0	1999
10487	168	67.7	4758	0	0	0	1	0	0	0	0	0	0	0	0	1999
10601	168	56.2	3359	0	0	0	0	1	0	0	0	0	0	0	0	1999
10502	168	54.8	3179	0	0	0	0	1	0	0	0	0	0	0	0	1999
10620	168	50.5	2623	0	0	0	0	1	0	0	0	0	0	0	0	1999
10592	168	56.1	3329	0	0	0	0	1	0	0	0	0	0	0	0	1999
10491	168	57.2	3467	0	0	0	0	1	0	0	0	0	0	0	0	1999
10744	168	61.3	3991	0	0	0	0	0	1	0	0	0	0	0	0	1999
11262	168	59.8	3848	0	0	0	0	0	1	0	0	0	0	0	0	1999
10858	155	58.8	3701	0	0	0	0	0	1	0	0	0	0	0	0	1999
11365	127	57.5	3527	0	0	0	0	0	1	0	0	0	0	0	1	1999
10903	167	59.0	3758	0	0	0	0	0	0	1	0	0	0	0	0	1999
10935	168	57.0	3458	0	0	0	0	0	0	1	0	0	0	0	0	1999
10975	168	61.0	3945	0	0	0	0	0	0	1	0	0	0	0	0	1999

Data Base for CRIST 4 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10938	168	65.6	4524	0	0	0	0	0	0	1	0	0	0	0	0	1999
11508	168	66.1	4586	0	0	0	0	0	0	0	1	0	0	0	0	1999
11614	130	63.3	4263	0	0	0	0	0	0	0	1	0	0	0	1	1999
10773	168	66.8	4681	0	0	0	0	0	0	0	1	0	0	0	0	1999
11141	168	60.7	3980	0	0	0	0	0	0	0	1	0	0	0	0	1999
11982	159	54.7	3312	0	0	0	0	0	0	0	1	0	0	0	0	1999
10970	168	60.3	3897	0	0	0	0	0	0	0	0	1	0	0	0	1999
10892	168	60.0	3867	0	0	0	0	0	0	0	0	1	0	0	0	1999
10657	168	56.8	3473	0	0	0	0	0	0	0	0	1	0	0	0	1999
10569	168	60.9	3941	0	0	0	0	0	0	0	0	1	0	0	0	1999
10617	168	57.3	3533	0	0	0	0	0	0	0	0	0	1	0	0	1999
10576	168	66.6	4681	0	0	0	0	0	0	0	0	0	1	0	0	1999
10711	168	64.6	4433	0	0	0	0	0	0	0	0	0	1	0	0	1999
10929	159	59.0	3758	0	0	0	0	0	0	0	0	0	1	0	0	1999
10597	169	68.4	4968	0	0	0	0	0	0	0	0	0	1	0	0	1999
10053	49	74.4	5642	0	0	0	0	0	0	0	0	0	0	1	0	1999
* 8889	56	46.3	2298	0	0	0	0	0	0	0	0	0	0	0	1	1999
9960	163	55.0	3216	0	0	0	0	0	0	0	0	0	0	0	1	1999
* 12785	86	58.2	3663	0	0	0	0	0	0	0	0	0	0	0	1	1999
* 13092	24	45.3	2054	0	0	0	0	0	0	0	0	0	0	0	0	1999
10253	62	45.1	2102	1	0	0	0	0	0	0	0	0	0	0	1	2000
9870	127	52.9	2916	1	0	0	0	0	0	0	0	0	0	0	1	2000
10823	168	52.5	2895	1	0	0	0	0	0	0	0	0	0	0	0	2000
10667	168	62.2	4069	1	0	0	0	0	0	0	0	0	0	0	0	2000
10670	168	62.8	4090	0	1	0	0	0	0	0	0	0	0	0	0	2000
10622	168	65.1	4428	0	1	0	0	0	0	0	0	0	0	0	0	2000
10641	168	56.7	3379	0	1	0	0	0	0	0	0	0	0	0	0	2000
10558	168	63.0	4189	0	1	0	0	0	0	0	0	0	0	0	0	2000
10577	168	66.0	4571	0	1	0	0	0	0	0	0	0	0	0	0	2000
10566	168	66.1	4589	0	0	1	0	0	0	0	0	0	0	0	0	2000
10565	168	67.1	4698	0	0	1	0	0	0	0	0	0	0	0	0	2000
10654	168	67.2	4738	0	0	1	0	0	0	0	0	0	0	0	0	2000
10687	115	68.1	4838	0	0	1	0	0	0	0	0	0	0	0	1	2000
10546	167	65.8	4521	0	0	0	1	0	0	0	0	0	0	0	0	2000
10454	168	68.6	4863	0	0	0	1	0	0	0	0	0	0	0	0	2000
10418	168	66.8	4693	0	0	0	1	0	0	0	0	0	0	0	0	2000
10485	168	62.3	4086	0	0	0	1	0	0	0	0	0	0	0	0	2000
10305	168	64.0	4327	0	0	0	0	1	0	0	0	0	0	0	0	2000
10463	168	66.3	4600	0	0	0	0	1	0	0	0	0	0	0	0	2000
10365	168	66.6	4623	0	0	0	0	1	0	0	0	0	0	0	0	2000
10668	168	65.3	4469	0	0	0	0	1	0	0	0	0	0	0	0	2000
10834	168	59.8	3832	0	0	0	0	1	0	0	0	0	0	0	0	2000
10937	168	57.7	3574	0	0	0	0	0	1	0	0	0	0	0	0	2000
10983	168	58.6	3685	0	0	0	0	0	1	0	0	0	0	0	0	2000
11034	168	57.8	3578	0	0	0	0	0	1	0	0	0	0	0	0	2000
11153	168	56.2	3375	0	0	0	0	0	1	0	0	0	0	0	0	2000
10841	168	55.3	3270	0	0	0	0	0	0	1	0	0	0	0	0	2000

Data Base for CRIST 4 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
11096	168	64.3	4313	0	0	0	0	0	0	1	0	0	0	0	0	2000
11273	168	61.1	3941	0	0	0	0	0	0	1	0	0	0	0	0	2000
11174	168	52.8	3007	0	0	0	0	0	0	1	0	0	0	0	0	2000
11103	168	51.6	2831	0	0	0	0	0	0	0	1	0	0	0	0	2000
11101	168	56.2	3424	0	0	0	0	0	0	0	1	0	0	0	0	2000
11126	168	55.5	3331	0	0	0	0	0	0	0	1	0	0	0	0	2000
11059	168	57.5	3525	0	0	0	0	0	0	0	1	0	0	0	0	2000
11074	168	59.2	3741	0	0	0	0	0	0	0	1	0	0	0	0	2000
11020	168	53.0	3035	0	0	0	0	0	0	0	0	1	0	0	0	2000
10827	168	57.1	3474	0	0	0	0	0	0	0	0	1	0	0	0	2000
10732	168	54.4	3197	0	0	0	0	0	0	0	0	1	0	0	0	2000
12271	45	55.4	3614	0	0	0	0	0	0	0	0	0	0	1	1	2000
10462	168	70.5	5046	0	0	0	0	0	0	0	0	0	0	0	0	2000
10639	168	56.6	3361	0	0	0	0	0	0	0	0	0	0	0	0	2000
10265	168	64.4	4352	0	0	0	0	0	0	0	0	0	0	0	0	2000
• 12730	24	57.0	3462	0	0	0	0	0	0	0	0	0	0	0	0	2000
10440	168	66.0	4500	1	0	0	0	0	0	0	0	0	0	0	0	2001
10440	143	64.2	4307	1	0	0	0	0	0	0	0	0	0	0	1	2001
10405	82	51.0	2738	1	0	0	0	0	0	0	0	0	0	0	0	2001
10730	118	51.9	2835	1	0	0	0	0	0	0	0	0	0	0	1	2001
10882	90	50.1	2626	0	1	0	0	0	0	0	0	0	0	0	1	2001
10339	168	61.7	4061	0	1	0	0	0	0	0	0	0	0	0	0	2001
10348	168	69.0	4893	0	1	0	0	0	0	0	0	0	0	0	0	2001
10338	168	73.6	5473	0	1	0	0	0	0	0	0	0	0	0	0	2001
10416	168	73.0	5408	0	0	1	0	0	0	0	0	0	0	0	0	2001
10285	168	73.3	5436	0	0	1	0	0	0	0	0	0	0	0	0	2001
10347	168	67.0	4650	0	0	1	0	0	0	0	0	0	0	0	0	2001
10372	168	68.9	4879	0	0	1	0	0	0	0	0	0	0	0	0	2001
10279	167	66.9	4574	0	0	1	0	0	0	0	0	0	0	0	0	2001
9943	168	70.1	5051	0	0	0	1	0	0	0	0	0	0	0	0	2001
9956	168	73.2	5441	0	0	0	1	0	0	0	0	0	0	0	0	2001
9966	168	76.5	5861	0	0	0	1	0	0	0	0	0	0	0	0	2001
10022	168	63.1	4175	0	0	0	1	0	0	0	0	0	0	0	0	2001
10174	168	67.7	4763	0	0	0	0	1	0	0	0	0	0	0	0	2001
10260	168	64.7	4373	0	0	0	0	1	0	0	0	0	0	0	0	2001
10413	168	57.4	3515	0	0	0	0	1	0	0	0	0	0	0	0	2001
10362	168	59.5	3710	0	0	0	0	1	0	0	0	0	0	0	0	2001
10603	168	56.1	3324	0	0	0	0	1	0	0	0	0	0	0	0	2001
10743	168	57.5	3547	0	0	0	0	0	1	0	0	0	0	0	0	2001
10565	168	64.4	4379	0	0	0	0	0	1	0	0	0	0	0	0	2001
10494	168	61.8	4079	0	0	0	0	0	1	0	0	0	0	0	0	2001
10721	144	56.6	3437	0	0	0	0	0	1	0	0	0	0	0	0	2001

Data Base for CRIST 4 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 CRIST 6 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10763	168	235.8	60731	0	0	0	0	0	0	1	0	0	0	0	0	1998
10686	168	251.2	2627	0	0	0	0	0	0	1	0	0	0	0	0	1998
10678	168	251.3	2213	0	0	0	0	0	0	1	0	0	0	0	0	1998
10792	154	264.0	10891	0	0	0	0	0	0	1	0	0	0	0	0	1998
10770	168	246.8	1664	0	0	0	0	0	0	0	1	0	0	0	0	1998
10840	168	240.9	63176	0	0	0	0	0	0	0	1	0	0	0	0	1998
11101	168	229.8	58271	0	0	0	0	0	0	0	1	0	0	0	0	1998
11028	168	238.7	63320	0	0	0	0	0	0	0	1	0	0	0	0	1998
10652	168	273.9	12562	0	0	0	0	0	0	0	1	0	0	0	0	1998
10772	157	222.8	55696	0	0	0	0	0	0	0	0	1	0	0	0	1998
10725	168	209.8	47428	0	0	0	0	0	0	0	0	1	0	0	0	1998
11071	142	213.4	48377	0	0	0	0	0	0	0	0	1	0	0	1	1998
10671	168	236.5	60544	0	0	0	0	0	0	0	0	1	0	0	0	1998
11260	24	216.8	52596	0	0	0	0	0	0	0	0	1	0	0	0	1998
11279	168	234.9	60121	0	0	0	0	0	0	0	0	0	1	0	0	1998
10915	168	184.6	38492	0	0	0	0	0	0	0	0	0	1	0	0	1998
10616	168	240.2	62106	0	0	0	0	0	0	0	0	0	1	0	0	1998
10836	169	178.0	33687	0	0	0	0	0	0	0	0	0	1	0	0	1998
11241	46	163.8	27811	0	0	0	0	0	0	0	0	0	0	1	0	1998
10834	97	237.1	61976	0	0	0	0	0	0	0	0	0	0	1	1	1998
10726	167	239.7	62983	0	0	0	0	0	0	0	0	0	0	1	0	1998
10388	168	251.0	1578	0	0	0	0	0	0	0	0	0	0	1	0	1998
10731	168	181.0	37056	0	0	0	0	0	0	0	0	0	0	1	0	1998
10699	168	218.8	53167	0	0	0	0	0	0	0	0	0	0	0	0	1998
10606	168	206.1	46963	0	0	0	0	0	0	0	0	0	0	0	0	1998
10573	168	197.2	42770	0	0	0	0	0	0	0	0	0	0	0	0	1998
10711	168	159.2	27797	0	0	0	0	0	0	0	0	0	0	0	0	1998
10489	24	212.0	48246	0	0	0	0	1	0	0	0	0	0	0	0	1998
10493	168	233.2	59731	1	0	0	0	0	0	0	0	0	0	0	0	1999
10901	168	186.5	38813	1	0	0	0	0	0	0	0	0	0	0	0	1999
10987	168	157.4	27151	1	0	0	0	0	0	0	0	0	0	0	0	1999
11079	168	149.8	24220	1	0	0	0	0	0	0	0	0	0	0	0	1999
11015	168	168.5	30545	0	1	0	0	0	0	0	0	0	0	0	0	1999
10985	168	173.0	33086	0	1	0	0	0	0	0	0	0	0	0	0	1999
10696	168	224.0	54377	0	1	0	0	0	0	0	0	0	0	0	0	1999
10871	168	204.9	46925	0	1	0	0	0	0	0	0	0	0	0	0	1999
11118	168	156.8	26531	0	0	1	0	0	0	0	0	0	0	0	0	1999
10779	168	194.3	41923	0	0	1	0	0	0	0	0	0	0	0	0	1999
10718	168	199.4	43824	0	0	1	0	0	0	0	0	0	0	0	0	1999
10780	112	220.7	53263	0	0	1	0	0	0	0	0	0	0	0	1	1999
10408	168	266.5	7673	0	0	1	0	0	0	0	0	0	0	0	0	1999
10495	26	221.8	55893	0	0	0	1	0	0	0	0	0	0	0	0	1999
10164	166	236.3	61472	0	0	0	1	0	0	0	0	0	0	0	1	1999
• 9147	168	206.0	48180	0	0	0	0	1	0	0	0	0	0	0	0	1999
* 9339	168	204.1	46604	0	0	0	0	1	0	0	0	0	0	0	0	1999
11254	159	190.9	41135	0	0	0	0	1	0	0	0	0	0	0	0	1999
10719	168	226.8	57330	0	0	0	0	1	0	0	0	0	0	0	0	1999

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
10224	168	212.8	50396	0	0	0	0	1	0	0	0	0	0	0	0	1999
* 8907	168	239.3	62415	0	0	0	0	0	1	0	0	0	0	0	0	1999
10612	168	227.1	57552	0	0	0	0	0	1	0	0	0	0	0	0	1999
10166	168	225.3	56766	0	0	0	0	0	1	0	0	0	0	0	0	1999
11745	144	217.7	52645	0	0	0	0	0	1	0	0	0	0	0	0	1999
10632	168	234.4	60956	0	0	0	0	0	0	1	0	0	0	0	0	1999
10761	168	223.6	56906	0	0	0	0	0	0	1	0	0	0	0	0	1999
10682	168	229.9	60010	0	0	0	0	0	0	1	0	0	0	0	0	1999
10608	168	299.6	24229	0	0	0	0	0	0	1	0	0	0	0	0	1999
10595	168	300.5	24774	0	0	0	0	0	0	0	1	0	0	0	0	1999
10195	168	297.1	23389	0	0	0	0	0	0	0	1	0	0	0	0	1999
10331	165	295.3	22823	0	0	0	0	0	0	0	1	0	0	0	0	1999
10244	168	301.3	25241	0	0	0	0	0	0	0	1	0	0	0	0	1999
10300	168	300.6	24833	0	0	0	0	0	0	0	1	0	0	0	0	1999
10725	109	220.4	57526	0	0	0	0	0	0	0	0	1	0	0	1	1999
10518	168	229.2	58953	0	0	0	0	0	0	0	0	1	0	0	0	1999
10578	168	207.2	48684	0	0	0	0	0	0	0	0	1	0	0	0	1999
10470	168	238.1	61962	0	0	0	0	0	0	0	0	1	0	0	0	1999
10866	168	174.4	37683	0	0	0	0	0	0	0	0	0	1	0	0	1999
10621	168	245.8	246	0	0	0	0	0	0	0	0	0	1	0	0	1999
10666	168	248.1	1271	0	0	0	0	0	0	0	0	0	1	0	0	1999
10498	168	234.3	60546	0	0	0	0	0	0	0	0	0	1	0	0	1999
10374	169	255.6	4438	0	0	0	0	0	0	0	0	0	1	0	0	1999
10275	168	259.9	5830	0	0	0	0	0	0	0	0	0	0	1	0	1999
10497	168	224.6	56148	0	0	0	0	0	0	0	0	0	0	1	0	1999
10382	98	240.4	64364	0	0	0	0	0	0	0	0	0	0	1	1	1999
10486	168	195.1	44377	0	0	0	0	0	0	0	0	0	0	1	0	1999
9870	168	265.6	8688	0	0	0	0	0	0	0	0	0	0	0	0	1999
10021	168	246.7	2174	0	0	0	0	0	0	0	0	0	0	0	0	1999
10237	168	199.3	45227	0	0	0	0	0	0	0	0	0	0	0	0	1999
10422	168	203.6	46342	0	0	0	0	0	0	0	0	0	0	0	0	1999
10708	24	145.9	22684	0	0	0	0	0	0	0	0	0	0	0	0	1999
10565	168	174.9	35116	1	0	0	0	0	0	0	0	0	0	0	0	2000
10308	168	244.7	64249	1	0	0	0	0	0	0	0	0	0	0	0	2000
10093	14	259.7	9147	1	0	0	0	0	0	0	0	0	0	0	0	2000
11163	127	194.7	43622	0	1	0	0	0	0	0	0	0	0	0	2	2000
10272	168	259.0	4741	0	1	0	0	0	0	0	0	0	0	0	0	2000
10311	168	196.8	47017	0	0	1	0	0	0	0	0	0	0	0	0	2000
10073	168	263.7	7450	0	0	1	0	0	0	0	0	0	0	0	0	2000
10035	168	258.7	5482	0	0	1	0	0	0	0	0	0	0	0	0	2000
10422	168	161.3	27975	0	0	1	0	0	0	0	0	0	0	0	0	2000
10150	167	282.5	16680	0	0	0	1	0	0	0	0	0	0	0	0	2000
10487	122	224.5	56109	0	0	0	1	0	0	0	0	0	0	0	1	2000
10215	168	260.1	5799	0	0	0	1	0	0	0	0	0	0	0	0	2000
10136	168	257.6	4800	0	0	0	1	0	0	0	0	0	0	0	0	2000
10256	168	254.7	3068	0	0	0	0	1	0	0	0	0	0	0	0	2000
10654	119	229.4	60866	0	0	0	0	1	0	0	0	0	0	0	1	2000

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
10429	168	255.1	4903	0	0	0	0	1	0	0	0	0	0	0	0	2000
10534	168	249.6	1339	0	0	0	0	1	0	0	0	0	0	0	0	2000
10572	168	237.3	61960	0	0	0	0	1	0	0	0	0	0	0	0	2000
10750	118	202.6	47617	0	0	0	0	0	1	0	0	0	0	0	0	2000
10522	118	248.5	415	0	0	0	0	0	1	0	0	0	0	0	1	2000
10672	168	219.1	54451	0	0	0	0	0	1	0	0	0	0	0	0	2000
10521	168	241.8	63906	0	0	0	0	0	1	0	0	0	0	0	0	2000
10485	168	211.0	51070	0	0	0	0	0	0	1	0	0	0	0	0	2000
10565	168	280.8	15208	0	0	0	0	0	0	1	0	0	0	0	0	2000
10611	168	252.8	3624	0	0	0	0	0	0	1	0	0	0	0	0	2000
10668	168	235.8	61723	0	0	0	0	0	0	1	0	0	0	0	0	2000
10623	168	227.5	57701	0	0	0	0	0	0	0	1	0	0	0	0	2000
10538	168	250.0	2051	0	0	0	0	0	0	0	1	0	0	0	0	2000
10679	168	233.9	61200	0	0	0	0	0	0	0	1	0	0	0	0	2000
10605	168	248.8	1943	0	0	0	0	0	0	0	1	0	0	0	0	2000
10697	168	249.4	2022	0	0	0	0	0	0	0	1	0	0	0	0	2000
10747	168	214.3	51845	0	0	0	0	0	0	0	0	1	0	0	0	2000
10997	131	235.8	61505	0	0	0	0	0	0	0	0	1	0	0	1	2000
11444	74	146.0	26635	0	0	0	0	0	0	0	0	1	0	0	1	2000
10880	168	199.4	45140	0	0	0	0	0	0	0	0	1	0	0	0	2000
9891	168	208.2	49192	0	0	0	0	0	0	0	0	0	1	0	0	2000
11127	168	192.7	41069	0	0	0	0	0	0	0	0	0	1	0	0	2000
11039	140	204.9	49527	0	0	0	0	0	0	0	0	0	1	0	1	2000
10803	168	248.9	1752	0	0	0	0	0	0	0	0	0	1	0	0	2000
11136	143	231.4	60640	0	0	0	0	0	0	0	0	0	1	0	1	2000
11000	168	255.8	4710	0	0	0	0	0	0	0	0	0	0	1	0	2000
10520	21	283.3	16815	0	0	0	0	0	0	0	0	0	0	1	0	2000
11290	106	172.4	32972	0	0	0	0	0	0	0	0	0	0	0	1	2000
10669	145	265.2	9296	0	0	0	0	0	0	0	0	0	0	0	0	2000
10294	168	282.4	16106	0	0	0	0	0	0	0	0	0	0	0	0	2000
10950	86	200.2	47802	0	0	0	0	0	0	0	0	0	0	0	1	2000
10404	24	283.7	15342	0	0	0	0	0	0	0	0	0	0	0	0	2000
10421	168	279.7	14308	1	0	0	0	0	0	0	0	0	0	0	0	2001
10375	147	278.6	14905	1	0	0	0	0	0	0	0	0	0	0	0	2001
11365	133	182.4	39770	1	0	0	0	0	0	0	0	0	0	0	1	2001
10839	168	193.7	44148	1	0	0	0	0	0	0	0	0	0	0	0	2001
10980	99	208.3	50570	0	1	0	0	0	0	0	0	0	0	0	1	2001
10561	168	280.5	14378	0	1	0	0	0	0	0	0	0	0	0	0	2001
10612	168	275.6	13630	0	1	0	0	0	0	0	0	0	0	0	0	2001
10496	119	288.6	19299	0	1	0	0	0	0	0	0	0	0	0	0	2001
10985	144	262.7	7859	0	0	1	0	0	0	0	0	0	0	0	1	2001
10870	168	286.8	18155	0	0	1	0	0	0	0	0	0	0	0	0	2001
11177	168	256.3	3420	0	0	1	0	0	0	0	0	0	0	0	0	2001
10687	168	243.7	65011	0	0	1	0	0	0	0	0	0	0	0	0	2001
10719	122	276.4	13578	0	0	1	0	0	0	0	0	0	0	0	0	2001
• 13272	88	128.8	22929	0	0	0	0	1	0	0	0	0	0	0	1	2001
10764	159	224.2	56291	0	0	0	0	1	0	0	0	0	0	0	0	2001

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
11574	72	131.0	17426	0	0	0	0	1	0	0	0	0	0	0	1	2001
11961	83	128.3	16682	0	0	0	0	1	0	0	0	0	0	0	1	2001
11061	168	192.5	43304	0	0	0	0	0	1	0	0	0	0	0	0	2001
11006	168	225.5	57031	0	0	0	0	0	1	0	0	0	0	0	0	2001
11046	168	229.4	59143	0	0	0	0	0	1	0	0	0	0	0	0	2001
11036	144	201.4	46708	0	0	0	0	0	1	0	0	0	0	0	0	2001

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.

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 CRIST 7 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10090	168	429.6	61868	0	0	0	0	0	0	1	0	0	0	0	0	1998
10129	168	453.5	14655	0	0	0	0	0	0	1	0	0	0	0	0	1998
10200	168	430.3	63296	0	0	0	0	0	0	1	0	0	0	0	0	1998
10194	137	432.6	3305	0	0	0	0	0	0	1	0	0	0	0	1	1998
10243	168	435.1	891	0	0	0	0	0	0	0	1	0	0	0	0	1998
10349	145	420.9	56695	0	0	0	0	0	0	0	1	0	0	0	0	1998
10351	95	389.8	36893	0	0	0	0	0	0	0	1	0	0	0	1	1998
10428	148	413.3	52550	0	0	0	0	0	0	0	1	0	0	0	1	1998
10385	121	445.5	7060	0	0	0	0	0	0	0	1	0	0	0	1	1998
10342	168	373.4	17339	0	0	0	0	0	0	0	0	1	0	0	0	1998
10531	90	359.1	14662	0	0	0	0	0	0	0	0	1	0	0	2	1998
10263	168	399.5	42618	0	0	0	0	0	0	0	0	1	0	0	0	1998
10316	168	443.2	5640	0	0	0	0	0	0	0	0	1	0	0	0	1998
11002	24	466.9	22477	0	0	0	0	0	0	0	0	1	0	0	0	1998
10321	168	426.4	56252	0	0	0	0	0	0	0	0	0	1	0	0	1998
10540	168	352.6	4248	0	0	0	0	0	0	0	0	0	1	0	0	1998
9952	48	402.1	44617	0	0	0	0	0	0	0	0	0	1	0	0	1998
10493	83	347.9	2710	0	0	0	0	0	0	0	0	0	1	0	1	1998
10368	168	396.8	40007	0	0	0	0	0	0	0	0	0	0	1	0	1998
10547	62	338.4	2486	0	0	0	0	0	0	0	0	0	0	1	2	1998
10218	168	415.9	51892	0	0	0	0	0	0	0	0	0	0	1	0	1998
10195	168	406.4	47955	0	0	0	0	0	0	0	0	0	0	1	0	1998
10037	168	386.5	31082	0	0	0	0	0	0	0	0	0	0	1	0	1998
10235	168	376.1	31467	0	0	0	0	0	0	0	0	0	0	0	0	1998
10056	168	419.7	55906	0	0	0	0	0	0	0	0	0	0	0	0	1998
10129	168	408.7	46606	0	0	0	0	0	0	0	0	0	0	0	0	1998
10114	168	353.6	6592	0	0	0	0	0	0	0	0	0	0	0	0	1998
10104	24	486.8	40538	0	0	0	0	1	0	0	0	0	0	0	0	1998
10185	165	396.2	36430	1	0	0	0	0	0	0	0	0	0	0	0	1999
10322	115	363.3	12558	1	0	0	0	0	0	0	0	0	0	0	1	1999
10299	168	319.3	45360	1	0	0	0	0	0	0	0	0	0	0	0	1999
10226	168	338.1	58476	1	0	0	0	0	0	0	0	0	0	0	0	1999
10146	24	306.3	39838	0	1	0	0	0	0	0	0	0	0	0	0	1999
10792	77	386.7	31072	0	1	0	0	0	0	0	0	0	0	0	1	1999
10273	168	351.9	1432	0	0	1	0	0	0	0	0	0	0	0	0	1999
10069	168	446.9	7990	0	0	1	0	0	0	0	0	0	0	0	0	1999
10312	168	424.8	56685	0	0	1	0	0	0	0	0	0	0	0	0	1999
10405	79	400.0	43636	0	0	1	0	0	0	0	0	0	0	0	2	1999
10063	168	450.7	11795	0	0	1	0	0	0	0	0	0	0	0	0	1999
10404	105	403.1	45205	0	0	0	1	0	0	0	0	0	0	0	1	1999
10074	168	477.5	32152	0	0	0	1	0	0	0	0	0	0	0	0	1999
10061	141	454.7	15374	0	0	0	1	0	0	0	0	0	0	0	1	1999
10217	121	423.3	55264	0	0	0	1	0	0	0	0	0	0	0	1	1999
10186	168	421.1	53519	0	0	0	0	1	0	0	0	0	0	0	0	1999
10177	168	380.4	25553	0	0	0	0	1	0	0	0	0	0	0	0	1999
10165	168	396.4	36075	0	0	0	0	1	0	0	0	0	0	0	0	1999
10299	168	415.0	47750	0	0	0	0	1	0	0	0	0	0	0	0	1999

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
10225	168	395.5	34635	0	0	0	0	1	0	0	0	0	0	0	0	1999
9330	153	392.4	33042	0	0	0	0	0	1	0	0	0	0	0	0	1999
10280	156	415.2	47265	0	0	0	0	0	1	0	0	0	0	0	0	1999
10263	103	393.6	37975	0	0	0	0	0	1	0	0	0	0	0	2	1999
10217	144	441.9	871	0	0	0	0	0	1	0	0	0	0	0	0	1999
10394	168	448.4	7089	0	0	0	0	0	0	1	0	0	0	0	0	1999
10515	168	449.6	8626	0	0	0	0	0	0	1	0	0	0	0	0	1999
10459	168	446.6	6130	0	0	0	0	0	0	1	0	0	0	0	0	1999
10216	168	429.2	60356	0	0	0	0	0	0	1	0	0	0	0	0	1999
10481	127	420.2	55254	0	0	0	0	0	0	0	1	0	0	0	1	1999
10240	168	451.2	8570	0	0	0	0	0	0	0	1	0	0	0	0	1999
10200	168	467.0	21464	0	0	0	0	0	0	0	1	0	0	0	0	1999
10184	152	456.6	13113	0	0	0	0	0	0	0	1	0	0	0	0	1999
10511	122	404.8	43821	0	0	0	0	0	0	0	1	0	0	0	1	1999
10236	168	447.8	6368	0	0	0	0	0	0	0	0	1	0	0	0	1999
10251	168	433.0	61052	0	0	0	0	0	0	0	0	1	0	0	0	1999
10298	168	396.0	35716	0	0	0	0	0	0	0	0	1	0	0	0	1999
10283	168	423.5	55648	0	0	0	0	0	0	0	0	1	0	0	0	1999
10379	168	423.9	54267	0	0	0	0	0	0	0	0	0	1	0	0	1999
10498	168	434.9	61924	0	0	0	0	0	0	0	0	0	1	0	0	1999
10664	112	380.3	26982	0	0	0	0	0	0	0	0	0	1	0	1	1999
10335	168	412.5	46176	0	0	0	0	0	0	0	0	0	1	0	0	1999
10201	153	432.7	60399	0	0	0	0	0	0	0	0	0	1	0	0	1999
10083	168	440.9	603	0	0	0	0	0	0	0	0	0	0	1	0	1999
10318	168	421.9	53155	0	0	0	0	0	0	0	0	0	0	1	0	1999
10180	168	425.1	57080	0	0	0	0	0	0	0	0	0	0	1	0	1999
10200	168	379.0	20609	0	0	0	0	0	0	0	0	0	0	1	0	1999
10118	167	437.7	1136	0	0	0	0	0	0	0	0	0	0	0	0	1999
10390	114	414.0	49548	0	0	0	0	0	0	0	0	0	0	0	1	1999
10236	168	444.7	3263	0	0	0	0	0	0	0	0	0	0	0	0	1999
10120	107	386.2	27487	0	0	0	0	0	0	0	0	0	0	0	1	1999
10183	24	347.4	65354	0	0	0	0	0	0	0	0	0	0	0	0	1999
9948	168	381.4	24757	1	0	0	0	0	0	0	0	0	0	0	0	2000
10124	54	370.5	22500	1	0	0	0	0	0	0	0	0	0	0	1	2000
10142	168	422.1	55478	1	0	0	0	0	0	0	0	0	0	0	1	2000
9872	150	452.0	9740	1	0	0	0	0	0	0	0	0	0	0	0	2000
10111	152	455.2	13789	0	1	0	0	0	0	0	0	0	0	0	1	2000
10112	132	444.5	6854	0	1	0	0	0	0	0	0	0	0	0	1	2000
10250	168	439.3	65018	0	1	0	0	0	0	0	0	0	0	0	0	2000
10509	34	357.8	4382	0	1	0	0	0	0	0	0	0	0	0	0	2000
10006	82	380.2	29499	0	0	0	1	0	0	0	0	0	0	0	1	2000
9976	168	467.2	22875	0	0	0	1	0	0	0	0	0	0	0	0	2000
9745	147	439.5	3872	0	0	0	0	1	0	0	0	0	0	0	0	2000
9770	168	465.4	21217	0	0	0	0	1	0	0	0	0	0	0	0	2000
9863	112	434.7	65372	0	0	0	0	1	0	0	0	0	0	0	1	2000
9873	168	468.6	23623	0	0	0	0	1	0	0	0	0	0	0	0	2000
10150	117	415.0	49936	0	0	0	0	1	0	0	0	0	0	0	1	2000

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
10082	168	421.8	54001	0	0	0	0	0	1	0	0	0	0	0	0	2000
10229	168	443.1	4320	0	0	0	0	0	1	0	0	0	0	0	0	2000
10306	168	431.4	60249	0	0	0	0	0	1	0	0	0	0	0	0	2000
10324	168	427.2	58475	0	0	0	0	0	1	0	0	0	0	0	0	2000
10354	168	385.4	29837	0	0	0	0	0	0	1	0	0	0	0	0	2000
10709	129	444.0	7806	0	0	0	0	0	0	1	0	0	0	0	1	2000
10662	145	453.3	13602	0	0	0	0	0	0	1	0	0	0	0	0	2000
10541	168	417.3	53347	0	0	0	0	0	0	1	0	0	0	0	0	2000
10368	168	423.4	55245	0	0	0	0	0	0	0	1	0	0	0	0	2000
10336	134	424.1	56216	0	0	0	0	0	0	0	1	0	0	0	1	2000
10414	168	425.9	57782	0	0	0	0	0	0	0	1	0	0	0	0	2000
10373	168	448.3	7636	0	0	0	0	0	0	0	1	0	0	0	0	2000
10483	168	438.3	65261	0	0	0	0	0	0	0	1	0	0	0	0	2000
10412	168	421.9	54666	0	0	0	0	0	0	0	0	1	0	0	0	2000
10789	168	432.6	60523	0	0	0	0	0	0	0	0	1	0	0	0	2000
10360	164	399.2	39589	0	0	0	0	0	0	0	0	1	0	0	0	2000
10398	168	409.3	45590	0	0	0	0	0	0	0	0	1	0	0	0	2000
9522	168	386.9	31831	0	0	0	0	0	0	0	0	0	1	0	0	2000
10801	155	378.7	25697	0	0	0	0	0	0	0	0	0	1	0	0	2000
10721	161	305.7	42809	0	0	0	0	0	0	0	0	0	1	0	0	2000
10610	118	407.1	46399	0	0	0	0	0	0	0	0	0	1	0	1	2000
10525	169	410.2	48065	0	0	0	0	0	0	0	0	0	1	0	0	2000
10531	119	384.8	28794	0	0	0	0	0	0	0	0	0	0	1	0	2000
10357	161	441.5	4501	0	0	0	0	0	0	0	0	0	0	1	1	2000
10407	168	455.3	14647	0	0	0	0	0	0	0	0	0	0	1	0	2000
10452	149	435.5	1050	0	0	0	0	0	0	0	0	0	0	1	0	2000
10025	168	477.9	31815	0	0	0	0	0	0	0	0	0	0	0	0	2000
10114	139	440.3	4058	0	0	0	0	0	0	0	0	0	0	0	1	2000
10107	168	439.1	2882	0	0	0	0	0	0	0	0	0	0	0	0	2000
10292	168	347.8	1329	0	0	0	0	0	0	0	0	0	0	0	0	2000
10149	24	475.6	29574	0	0	0	0	0	0	0	0	0	0	0	0	2000
10373	104	434.1	2291	1	0	0	0	0	0	0	0	0	0	0	1	2001
10170	168	420.5	54657	1	0	0	0	0	0	0	0	0	0	0	0	2001
10279	168	337.3	58535	1	0	0	0	0	0	0	0	0	0	0	0	2001
10897	129	313.4	41749	1	0	0	0	0	0	0	0	0	0	0	1	2001
10455	157	359.4	8987	0	1	0	0	0	0	0	0	0	0	0	0	2001
10618	37	281.9	23817	0	1	0	0	0	0	0	0	0	0	0	1	2001
10246	165	433.5	64953	0	0	1	0	0	0	0	0	0	0	0	1	2001
10591	168	377.9	17738	0	0	0	1	0	0	0	0	0	0	0	0	2001
10236	143	394.7	33673	0	0	0	1	0	0	0	0	0	0	0	1	2001
10182	168	458.7	17277	0	0	0	1	0	0	0	0	0	0	0	0	2001
10526	122	401.4	42940	0	0	0	1	0	0	0	0	0	0	0	1	2001
10155	89	444.4	7400	0	0	0	0	1	0	0	0	0	0	0	1	2001
10580	168	412.6	49950	0	0	0	0	1	0	0	0	0	0	0	0	2001
10151	139	380.7	28732	0	0	0	0	1	0	0	0	0	0	0	1	2001
10058	168	418.4	53067	0	0	0	0	1	0	0	0	0	0	0	0	2001
10273	168	384.1	29664	0	0	0	0	1	0	0	0	0	0	0	0	2001

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
10301	168	394.5	36344	0	0	0	0	0	1	0	0	0	0	0	0	2001
10334	168	419.8	54449	0	0	0	0	0	1	0	0	0	0	0	0	2001
10301	168	410.2	47815	0	0	0	0	0	1	0	0	0	0	0	0	2001
10293	144	404.2	42880	0	0	0	0	0	1	0	0	0	0	0	0	2001

Data Base for CRIST 7 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 SMITH 1 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10084	168	153.3	23709	0	0	0	0	0	0	1	0	0	0	0	0	1998
10093	168	154.1	23798	0	0	0	0	0	0	1	0	0	0	0	0	1998
10429	168	155.9	24350	0	0	0	0	0	0	1	0	0	0	0	0	1998
10232	168	156.3	24481	0	0	0	0	0	0	1	0	0	0	0	0	1998
10354	168	154.5	23900	0	0	0	0	0	0	0	1	0	0	0	0	1998
10193	168	154.2	23834	0	0	0	0	0	0	0	1	0	0	0	0	1998
10010	168	155.2	24085	0	0	0	0	0	0	0	1	0	0	0	0	1998
10184	168	153.9	23779	0	0	0	0	0	0	0	1	0	0	0	0	1998
10019	168	154.9	24039	0	0	0	0	0	0	0	1	0	0	0	0	1998
10301	168	154.9	24017	0	0	0	0	0	0	0	0	1	0	0	0	1998
10116	168	150.8	23099	0	0	0	0	0	0	0	0	1	0	0	0	1998
10062	72	147.9	22243	0	0	0	0	0	0	0	0	1	0	0	0	1998
10312	112	146.6	21989	0	0	0	0	0	0	0	0	1	0	0	1	1998
10510	24	150.2	22608	0	0	0	0	0	0	0	0	1	0	0	0	1998
10331	168	152.8	23468	0	0	0	0	0	0	0	0	0	1	0	0	1998
10004	168	147.5	22219	0	0	0	0	0	0	0	0	0	1	0	0	1998
10306	168	155.6	24293	0	0	0	0	0	0	0	0	0	1	0	0	1998
10037	169	153.4	23641	0	0	0	0	0	0	0	0	0	1	0	0	1998
9979	168	150.6	22849	0	0	0	0	0	0	0	0	0	0	1	0	1998
10089	168	151.8	23243	0	0	0	0	0	0	0	0	0	0	1	0	1998
10003	168	141.1	20239	0	0	0	0	0	0	0	0	0	0	1	0	1998
9887	144	146.8	22213	0	0	0	0	0	0	0	0	0	0	1	1	1998
9978	168	136.6	19550	0	0	0	0	0	0	0	0	0	0	1	0	1998
9896	168	141.0	20608	0	0	0	0	0	0	0	0	0	0	0	0	1998
10259	142	145.5	21957	0	0	0	0	0	0	0	0	0	0	0	1	1998
10253	168	140.5	20567	0	0	0	0	0	0	0	0	0	0	0	0	1998
9976	168	136.6	19356	0	0	0	0	0	0	0	0	0	0	0	0	1998
9876	24	148.6	22178	0	0	0	0	1	0	0	0	0	0	0	0	1998
10053	168	154.2	23977	1	0	0	0	0	0	0	0	0	0	0	0	1999
9994	168	147.1	22167	1	0	0	0	0	0	0	0	0	0	0	0	1999
10130	168	136.0	19443	1	0	0	0	0	0	0	0	0	0	0	0	1999
10017	144	135.6	19427	1	0	0	0	0	0	0	0	0	0	0	0	1999
10004	114	126.0	17341	0	1	0	0	0	0	0	0	0	0	0	1	1999
11244	52	107.9	13960	0	0	0	1	0	0	0	0	0	0	0	1	1999
10192	68	108.0	12633	0	0	0	1	0	0	0	0	0	0	0	1	1999
9550	168	148.2	22163	0	0	0	1	0	0	0	0	0	0	0	0	1999
9811	100	145.3	22106	0	0	0	0	1	0	0	0	0	0	0	1	1999
9887	168	145.5	21922	0	0	0	0	1	0	0	0	0	0	0	0	1999
9881	168	143.6	21454	0	0	0	0	1	0	0	0	0	0	0	0	1999
9885	168	144.7	21631	0	0	0	0	1	0	0	0	0	0	0	0	1999
10230	113	138.7	20405	0	0	0	0	1	0	0	0	0	0	0	1	1999
9941	168	149.3	22693	0	0	0	0	0	1	0	0	0	0	0	0	1999
10150	168	153.5	23731	0	0	0	0	0	1	0	0	0	0	0	0	1999
10061	168	145.8	22147	0	0	0	0	0	1	0	0	0	0	0	0	1999
10104	144	152.5	23755	0	0	0	0	0	1	0	0	0	0	0	0	1999
10080	168	149.3	22824	0	0	0	0	0	0	1	0	0	0	0	0	1999
10032	129	152.7	23711	0	0	0	0	0	0	1	0	0	0	0	0	1999

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
10220	143	149.6	23119	0	0	0	0	0	0	1	0	0	0	0	2	1999
10022	168	152.7	23714	0	0	0	0	0	0	1	0	0	0	0	0	1999
10003	168	159.9	25574	0	0	0	0	0	0	0	1	0	0	0	0	1999
10013	168	158.5	25164	0	0	0	0	0	0	0	1	0	0	0	0	1999
10020	168	155.0	24222	0	0	0	0	0	0	0	1	0	0	0	0	1999
10040	168	143.3	21178	0	0	0	0	0	0	0	1	0	0	0	0	1999
10020	168	144.6	21534	0	0	0	0	0	0	0	1	0	0	0	0	1999
10041	161	144.7	21639	0	0	0	0	0	0	0	0	1	0	0	0	1999
9940	168	149.4	22720	0	0	0	0	0	0	0	0	1	0	0	0	1999
9896	168	142.6	21163	0	0	0	0	0	0	0	0	1	0	0	0	1999
10033	43	126.3	17756	0	0	0	0	0	0	0	0	1	0	0	0	1999
9951	117	145.9	22062	0	0	0	0	0	0	0	0	0	1	0	1	1999
9963	168	155.5	24375	0	0	0	0	0	0	0	0	0	1	0	0	1999
10026	168	152.5	23565	0	0	0	0	0	0	0	0	0	1	0	0	1999
9978	168	147.8	22345	0	0	0	0	0	0	0	0	0	1	0	0	1999
9966	168	152.7	23818	0	0	0	0	0	0	0	0	0	1	0	0	1999
9969	168	156.2	24575	0	0	0	0	0	0	0	0	0	0	1	0	1999
10033	168	154.7	24208	0	0	0	0	0	0	0	0	0	0	1	0	1999
9951	168	153.5	23961	0	0	0	0	0	0	0	0	0	0	1	0	1999
9900	168	148.4	22670	0	0	0	0	0	0	0	0	0	0	1	0	1999
10005	168	153.4	23929	0	0	0	0	0	0	0	0	0	0	0	0	1999
10035	168	152.0	23656	0	0	0	0	0	0	0	0	0	0	0	0	1999
10028	168	152.0	23754	0	0	0	0	0	0	0	0	0	0	0	0	1999
10116	168	153.1	23976	0	0	0	0	0	0	0	0	0	0	0	0	1999
10108	24	128.4	17352	0	0	0	0	0	0	0	0	0	0	0	0	1999
10160	168	133.6	19338	1	0	0	0	0	0	0	0	0	0	0	0	2000
10187	168	145.7	22214	1	0	0	0	0	0	0	0	0	0	0	0	2000
10112	168	149.5	23057	1	0	0	0	0	0	0	0	0	0	0	0	2000
10142	168	156.2	24787	1	0	0	0	0	0	0	0	0	0	0	0	2000
10237	168	158.9	25274	0	1	0	0	0	0	0	0	0	0	0	0	2000
9861	2	58.5	6502	0	1	0	0	0	0	0	0	0	0	0	0	2000
10045	161	151.3	23311	0	1	0	0	0	0	0	0	0	0	0	1	2000
10009	168	152.2	23520	0	1	0	0	0	0	0	0	0	0	0	0	2000
10081	167	145.4	21964	0	0	1	0	0	0	0	0	0	0	0	0	2000
10128	168	157.9	25086	0	0	1	0	0	0	0	0	0	0	0	0	2000
10085	168	153.2	23806	0	0	1	0	0	0	0	0	0	0	0	0	2000
10037	168	152.3	23696	0	0	1	0	0	0	0	0	0	0	0	0	2000
10189	167	152.6	23763	0	0	0	1	0	0	0	0	0	0	0	0	2000
10138	168	157.2	24858	0	0	0	1	0	0	0	0	0	0	0	0	2000
10105	168	151.0	23283	0	0	0	1	0	0	0	0	0	0	0	0	2000
10028	168	152.0	23492	0	0	0	1	0	0	0	0	0	0	0	0	2000
10023	168	151.1	23282	0	0	0	0	1	0	0	0	0	0	0	0	2000
9956	168	153.9	23941	0	0	0	0	1	0	0	0	0	0	0	0	2000
9932	168	153.3	23919	0	0	0	0	1	0	0	0	0	0	0	0	2000
10055	168	156.7	24679	0	0	0	0	1	0	0	0	0	0	0	0	2000
10036	168	142.4	21309	0	0	0	0	1	0	0	0	0	0	0	0	2000
10048	168	141.1	20967	0	0	0	0	0	1	0	0	0	0	0	0	2000

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
10069	168	150.3	23135	0	0	0	0	0	1	0	0	0	0	0	0	2000
10057	168	147.2	22259	0	0	0	0	0	1	0	0	0	0	0	0	2000
10393	168	147.0	22230	0	0	0	0	0	1	0	0	0	0	0	0	2000
10488	144	127.0	17979	0	0	0	0	0	0	1	0	0	0	0	1	2000
10084	168	157.0	24787	0	0	0	0	0	0	1	0	0	0	0	0	2000
10065	168	155.8	24454	0	0	0	0	0	0	1	0	0	0	0	0	2000
10051	168	135.1	19578	0	0	0	0	0	0	1	0	0	0	0	0	2000
10044	168	140.1	20658	0	0	0	0	0	0	0	1	0	0	0	0	2000
10198	168	149.4	22784	0	0	0	0	0	0	0	1	0	0	0	0	2000
9980	168	144.7	21837	0	0	0	0	0	0	0	1	0	0	0	0	2000
9976	168	143.7	21421	0	0	0	0	0	0	0	1	0	0	0	0	2000
10015	168	147.9	22474	0	0	0	0	0	0	0	1	0	0	0	0	2000
10040	168	137.7	20122	0	0	0	0	0	0	0	0	1	0	0	0	2000
10169	168	143.0	21326	0	0	0	0	0	0	0	0	1	0	0	0	2000
10058	168	131.3	18662	0	0	0	0	0	0	0	0	1	0	0	0	2000
9979	168	135.1	19504	0	0	0	0	0	0	0	0	1	0	0	0	2000
10211	168	123.3	16508	0	0	0	0	0	0	0	0	0	1	0	0	2000
10171	168	139.6	20554	0	0	0	0	0	0	0	0	0	1	0	0	2000
10280	168	146.6	22480	0	0	0	0	0	0	0	0	0	1	0	0	2000
10202	168	138.2	20503	0	0	0	0	0	0	0	0	0	1	0	0	2000
10149	167	131.9	19136	0	0	0	0	0	0	0	0	0	1	0	0	2000
9894	153	148.9	22856	0	0	0	0	0	0	0	0	0	0	1	1	2000
9841	168	153.1	24033	0	0	0	0	0	0	0	0	0	0	1	0	2000
10130	168	148.6	22606	0	0	0	0	0	0	0	0	0	0	1	0	2000
9878	168	160.0	25639	0	0	0	0	0	0	0	0	0	0	0	0	2000
9920	168	136.1	19624	0	0	0	0	0	0	0	0	0	0	0	0	2000
10133	168	141.8	21218	0	0	0	0	0	0	0	0	0	0	0	0	2000
9977	168	153.3	23895	0	0	0	0	0	0	0	0	0	0	0	0	2000
10077	24	162.6	26435	0	0	0	0	0	0	0	0	0	0	0	0	2000
9887	168	157.5	24988	1	0	0	0	0	0	0	0	0	0	0	0	2001
9893	168	146.0	22120	1	0	0	0	0	0	0	0	0	0	0	0	2001
10024	168	112.2	13972	1	0	0	0	0	0	0	0	0	0	0	0	2001
10218	168	109.0	12976	1	0	0	0	0	0	0	0	0	0	0	0	2001
10032	168	103.0	11523	0	1	0	0	0	0	0	0	0	0	0	0	2001
10118	168	131.7	18687	0	1	0	0	0	0	0	0	0	0	0	0	2001
9795	168	152.5	23758	0	1	0	0	0	0	0	0	0	0	0	0	2001
9850	168	158.8	25318	0	1	0	0	0	0	0	0	0	0	0	0	2001
9866	168	156.7	24710	0	0	1	0	0	0	0	0	0	0	0	0	2001
9730	168	160.3	25748	0	0	1	0	0	0	0	0	0	0	0	0	2001
10064	168	154.7	24212	0	0	1	0	0	0	0	0	0	0	0	0	2001
10494	168	157.2	25050	0	0	1	0	0	0	0	0	0	0	0	0	2001
10087	167	162.7	26459	0	0	1	0	0	0	0	0	0	0	0	0	2001
10116	168	157.7	25093	0	0	0	1	0	0	0	0	0	0	0	0	2001
10018	168	158.2	25306	0	0	0	1	0	0	0	0	0	0	0	0	2001
9958	118	159.8	25786	0	0	0	1	0	0	0	0	0	0	0	0	2001
10339	75	141.4	21164	0	0	0	0	1	0	0	0	0	0	0	1	2001
10050	168	134.4	19566	0	0	0	0	1	0	0	0	0	0	0	0	2001

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
10083	168	143.1	21620	0	0	0	0	1	0	0	0	0	0	0	0	2001
10325	168	135.0	19676	0	0	0	0	1	0	0	0	0	0	0	0	2001
10253	168	147.0	22151	0	0	0	0	0	1	0	0	0	0	0	0	2001
10325	168	150.7	23060	0	0	0	0	0	1	0	0	0	0	0	0	2001
10086	168	146.7	22062	0	0	0	0	0	1	0	0	0	0	0	0	2001
10035	144	144.9	21675	0	0	0	0	0	1	0	0	0	0	0	0	2001

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.

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 2 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
9866	163	182.9	34168	0	0	0	0	0	0	1	0	0	0	0	0	1998
9918	168	187.1	35026	0	0	0	0	0	0	1	0	0	0	0	0	1998
10196	168	186.9	34947	0	0	0	0	0	0	1	0	0	0	0	0	1998
10150	168	136.9	20988	0	0	0	0	0	0	1	0	0	0	0	0	1998
10053	168	185.7	34485	0	0	0	0	0	0	0	1	0	0	0	0	1998
10085	168	184.9	34241	0	0	0	0	0	0	0	1	0	0	0	0	1998
10007	168	187.0	35011	0	0	0	0	0	0	0	1	0	0	0	0	1998
9981	168	183.5	33767	0	0	0	0	0	0	0	1	0	0	0	0	1998
9890	168	186.4	34769	0	0	0	0	0	0	0	1	0	0	0	0	1998
9935	168	182.4	33329	0	0	0	0	0	0	0	0	1	0	0	0	1998
9876	168	179.2	32632	0	0	0	0	0	0	0	0	1	0	0	0	1998
9931	168	187.0	34995	0	0	0	0	0	0	0	0	1	0	0	0	1998
9939	168	183.0	33526	0	0	0	0	0	0	0	0	1	0	0	0	1998
10153	24	178.2	31776	0	0	0	0	0	0	0	0	1	0	0	0	1998
9851	168	183.9	33884	0	0	0	0	0	0	0	0	0	1	0	0	1998
9930	168	178.0	32255	0	0	0	0	0	0	0	0	0	1	0	0	1998
9942	168	182.4	33413	0	0	0	0	0	0	0	0	0	1	0	0	1998
9911	169	181.8	33263	0	0	0	0	0	0	0	0	0	1	0	0	1998
9928	168	183.2	33638	0	0	0	0	0	0	0	0	0	0	1	0	1998
9998	168	184.7	34171	0	0	0	0	0	0	0	0	0	0	1	0	1998
9982	168	184.0	33884	0	0	0	0	0	0	0	0	0	0	1	0	1998
9871	168	182.8	33550	0	0	0	0	0	0	0	0	0	0	1	0	1998
9992	168	182.5	33335	0	0	0	0	0	0	0	0	0	0	1	0	1998
9954	168	180.7	32713	0	0	0	0	0	0	0	0	0	0	0	0	1998
10136	19	180.3	32612	0	0	0	0	0	0	0	0	0	0	0	0	1998
10113	114	164.0	28373	0	0	0	0	0	0	0	0	0	0	0	1	1998
9986	168	165.2	28367	0	0	0	0	0	0	0	0	0	0	0	0	1998
9917	167	184.5	34329	1	0	0	0	0	0	0	0	0	0	0	0	1999
9985	168	180.4	33074	1	0	0	0	0	0	0	0	0	0	0	0	1999
9924	168	176.4	31654	1	0	0	0	0	0	0	0	0	0	0	0	1999
9888	168	174.3	31246	1	0	0	0	0	0	0	0	0	0	0	0	1999
9956	168	173.6	31062	0	1	0	0	0	0	0	0	0	0	0	0	1999
9969	168	166.2	29058	0	1	0	0	0	0	0	0	0	0	0	0	1999
10131	168	181.2	33279	0	1	0	0	0	0	0	0	0	0	0	0	1999
10096	168	184.0	33904	0	1	0	0	0	0	0	0	0	0	0	0	1999
10044	168	183.1	33862	0	0	1	0	0	0	0	0	0	0	0	0	1999
9963	168	187.1	35089	0	0	1	0	0	0	0	0	0	0	0	0	1999
9979	168	187.3	35091	0	0	1	0	0	0	0	0	0	0	0	0	1999
9983	168	186.2	34682	0	0	1	0	0	0	0	0	0	0	0	0	1999
10082	168	185.0	34327	0	0	1	0	0	0	0	0	0	0	0	0	1999
9850	167	181.6	33137	0	0	0	1	0	0	0	0	0	0	0	0	1999
9991	168	181.3	32923	0	0	0	1	0	0	0	0	0	0	0	0	1999
9958	168	184.9	34272	0	0	0	1	0	0	0	0	0	0	0	0	1999
10038	168	184.2	33985	0	0	0	1	0	0	0	0	0	0	0	0	1999
10041	168	183.8	33884	0	0	0	0	1	0	0	0	0	0	0	0	1999
10682	22	165.3	29274	0	0	0	0	1	0	0	0	0	0	0	0	1999
10086	143	174.1	31307	0	0	0	0	1	0	0	0	0	0	0	1	1999

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
10196	168	182.5	33810	0	0	0	0	1	0	0	0	0	0	0	0	1999
10094	168	182.4	33508	0	0	0	0	0	1	0	0	0	0	0	0	1999
10168	168	185.1	34306	0	0	0	0	0	1	0	0	0	0	0	0	1999
10094	168	174.8	31554	0	0	0	0	0	1	0	0	0	0	0	0	1999
10132	144	185.6	34450	0	0	0	0	0	1	0	0	0	0	0	0	1999
10148	168	180.9	32975	0	0	0	0	0	0	1	0	0	0	0	0	1999
10177	168	182.6	33688	0	0	0	0	0	0	1	0	0	0	0	0	1999
10200	168	184.3	34039	0	0	0	0	0	0	1	0	0	0	0	0	1999
10217	168	184.8	34235	0	0	0	0	0	0	1	0	0	0	0	0	1999
10161	168	185.4	34417	0	0	0	0	0	0	0	1	0	0	0	0	1999
10138	168	183.0	33630	0	0	0	0	0	0	0	1	0	0	0	0	1999
10140	168	177.9	31972	0	0	0	0	0	0	0	1	0	0	0	0	1999
10171	168	162.4	27654	0	0	0	0	0	0	0	1	0	0	0	0	1999
10108	168	166.6	28824	0	0	0	0	0	0	0	1	0	0	0	0	1999
10177	165	179.8	32603	0	0	0	0	0	0	0	0	1	0	0	0	1999
10089	168	184.0	33979	0	0	0	0	0	0	0	0	1	0	0	0	1999
10203	145	168.7	30198	0	0	0	0	0	0	0	0	1	0	0	0	1999
10156	168	179.8	32979	0	0	0	0	0	0	0	0	1	0	0	0	1999
10031	168	181.9	33261	0	0	0	0	0	0	0	0	0	1	0	0	1999
10082	168	185.0	34367	0	0	0	0	0	0	0	0	0	1	0	0	1999
10136	168	187.8	35352	0	0	0	0	0	0	0	0	0	1	0	0	1999
10154	168	187.7	35269	0	0	0	0	0	0	0	0	0	1	0	0	1999
10175	169	187.3	35114	0	0	0	0	0	0	0	0	0	1	0	0	1999
10255	168	188.2	35440	0	0	0	0	0	0	0	0	0	0	1	0	1999
10258	47	180.9	33653	0	0	0	0	0	0	0	0	0	0	1	0	1999
10381	114	167.4	29945	0	0	0	0	0	0	0	0	0	0	1	1	1999
10225	168	182.8	33819	0	0	0	0	0	0	0	0	0	0	1	0	1999
10150	168	185.6	34642	0	0	0	0	0	0	0	0	0	0	0	0	1999
10157	168	185.5	34529	0	0	0	0	0	0	0	0	0	0	0	0	1999
9808	168	180.2	32764	0	0	0	0	0	0	0	0	0	0	0	0	1999
10115	34	164.6	29142	0	0	0	0	0	0	0	0	0	0	0	1	1999
9662	24	178.5	32078	0	0	0	0	0	0	0	0	0	0	0	0	1999
9830	168	146.8	23825	1	0	0	0	0	0	0	0	0	0	0	0	2000
9848	168	164.1	28615	1	0	0	0	0	0	0	0	0	0	0	0	2000
9800	168	170.0	30050	1	0	0	0	0	0	0	0	0	0	0	0	2000
9871	168	181.8	33669	1	0	0	0	0	0	0	0	0	0	0	0	2000
9823	168	184.4	34122	0	1	0	0	0	0	0	0	0	0	0	0	2000
9745	168	186.4	34843	0	1	0	0	0	0	0	0	0	0	0	0	2000
9750	168	168.2	29408	0	1	0	0	0	0	0	0	0	0	0	0	2000
9751	168	174.4	31080	0	1	0	0	0	0	0	0	0	0	0	0	2000
9750	168	175.5	31375	0	1	0	0	0	0	0	0	0	0	0	0	2000
9778	168	178.0	32102	0	0	1	0	0	0	0	0	0	0	0	0	2000
9737	168	183.3	33877	0	0	1	0	0	0	0	0	0	0	0	0	2000
9742	168	178.0	32245	0	0	1	0	0	0	0	0	0	0	0	0	2000
9690	168	183.9	34140	0	0	1	0	0	0	0	0	0	0	0	0	2000
10272	162	156.7	26426	0	0	0	1	0	0	0	0	0	0	0	1	2000
10147	168	179.2	32568	0	0	0	1	0	0	0	0	0	0	0	0	2000

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
10052	168	173.2	30985	0	0	0	0	1	0	0	0	0	0	0	0	2000
10057	168	180.3	32891	0	0	0	0	1	0	0	0	0	0	0	0	2000
10045	168	176.8	32141	0	0	0	0	1	0	0	0	0	0	0	0	2000
10345	143	177.8	32471	0	0	0	0	1	0	0	0	0	0	0	1	2000
10267	168	162.5	28132	0	0	0	0	1	0	0	0	0	0	0	0	2000
10221	168	161.4	27769	0	0	0	0	0	1	0	0	0	0	0	0	2000
10228	168	173.2	30887	0	0	0	0	0	1	0	0	0	0	0	0	2000
10252	168	169.3	29619	0	0	0	0	0	1	0	0	0	0	0	0	2000
10264	168	171.5	30175	0	0	0	0	0	1	0	0	0	0	0	0	2000
10344	168	154.4	26091	0	0	0	0	0	0	1	0	0	0	0	0	2000
10268	168	182.7	33641	0	0	0	0	0	0	1	0	0	0	0	0	2000
10207	168	179.6	32561	0	0	0	0	0	0	1	0	0	0	0	0	2000
10291	168	152.7	25443	0	0	0	0	0	0	1	0	0	0	0	0	2000
10286	168	160.1	27329	0	0	0	0	0	0	0	1	0	0	0	0	2000
10337	168	172.1	30359	0	0	0	0	0	0	0	1	0	0	0	0	2000
10265	168	164.9	28619	0	0	0	0	0	0	0	1	0	0	0	0	2000
10236	168	164.2	28229	0	0	0	0	0	0	0	1	0	0	0	0	2000
10240	168	170.7	30046	0	0	0	0	0	0	0	1	0	0	0	0	2000
10327	168	155.9	26274	0	0	0	0	0	0	0	0	1	0	0	0	2000
10273	159	161.4	27879	0	0	0	0	0	0	0	0	1	0	0	0	2000
10299	168	148.8	24487	0	0	0	0	0	0	0	0	1	0	0	0	2000
10193	168	148.6	24297	0	0	0	0	0	0	0	0	1	0	0	0	2000
10352	168	138.2	21356	0	0	0	0	0	0	0	0	0	1	0	0	2000
10345	46	144.3	23091	0	0	0	0	0	0	0	0	0	1	0	0	2000
10408	161	153.2	26067	0	0	0	0	0	0	0	0	0	1	0	1	2000
10435	169	147.7	24530	0	0	0	0	0	0	0	0	0	1	0	0	2000
10233	168	157.6	27061	0	0	0	0	0	0	0	0	0	0	1	0	2000
10129	168	174.5	31493	0	0	0	0	0	0	0	0	0	0	1	0	2000
10148	168	177.3	32400	0	0	0	0	0	0	0	0	0	0	1	0	2000
10353	151	165.4	28720	0	0	0	0	0	0	0	0	0	0	1	0	2000
10033	166	181.2	33381	0	0	0	0	0	0	0	0	0	0	0	0	2000
10311	143	138.0	21194	0	0	0	0	0	0	0	0	0	0	0	1	2000
10214	168	156.2	26632	0	0	0	0	0	0	0	0	0	0	0	0	2000
10144	168	176.9	32034	0	0	0	0	0	0	0	0	0	0	0	0	2000
10226	24	189.9	36054	0	0	0	0	0	0	0	0	0	0	0	0	2000
10095	168	183.3	33830	1	0	0	0	0	0	0	0	0	0	0	0	2001
10093	168	172.2	30541	1	0	0	0	0	0	0	0	0	0	0	0	2001
10249	168	124.6	17746	1	0	0	0	0	0	0	0	0	0	0	0	2001
10290	168	120.6	16199	1	0	0	0	0	0	0	0	0	0	0	0	2001
10133	168	113.9	14471	0	1	0	0	0	0	0	0	0	0	0	0	2001
9904	168	148.4	24306	0	1	0	0	0	0	0	0	0	0	0	0	2001
9958	144	170.5	30450	0	1	0	0	0	0	0	0	0	0	0	1	2001
9906	168	185.1	34423	0	1	0	0	0	0	0	0	0	0	0	0	2001
9923	146	178.6	32686	0	0	1	0	0	0	0	0	0	0	0	0	2001
9758	168	186.4	34791	0	0	1	0	0	0	0	0	0	0	0	0	2001
9836	118	176.7	31832	0	0	1	0	0	0	0	0	0	0	0	0	2001
10365	42	168.0	29964	0	0	0	1	0	0	0	0	0	0	0	1	2001

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
9783	168	187.6	35293	0	0	0	1	0	0	0	0	0	0	0	0	2001
9839	168	182.9	34103	0	0	0	1	0	0	0	0	0	0	0	0	2001
10017	168	179.9	33126	0	0	0	1	0	0	0	0	0	0	0	0	2001
10095	168	181.9	33502	0	0	0	0	1	0	0	0	0	0	0	0	2001
9891	168	163.6	28730	0	0	0	0	1	0	0	0	0	0	0	0	2001
9786	147	151.0	25413	0	0	0	0	1	0	0	0	0	0	0	0	2001
10140	142	157.6	27252	0	0	0	0	1	0	0	0	0	0	0	1	2001
10264	168	164.7	28740	0	0	0	0	1	0	0	0	0	0	0	0	2001
9929	168	166.2	28499	0	0	0	0	0	1	0	0	0	0	0	0	2001
10127	168	172.0	30223	0	0	0	0	0	1	0	0	0	0	0	0	2001
10058	168	165.7	28860	0	0	0	0	0	1	0	0	0	0	0	0	2001
10062	117	162.5	27836	0	0	0	0	0	1	0	0	0	0	0	0	2001

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.

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 1 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR	BTU/LB
10495	168	395.3	31894	0	0	0	0	0	0	1	0	0	0	0	0	1998	9242
10506	168	387.5	23954	0	0	0	0	0	0	1	0	0	0	0	0	1998	9202
10884	93	319.0	54718	0	0	0	0	0	0	1	0	0	0	0	1	1998	9201
10353	168	419.8	51147	0	0	0	0	0	0	1	0	0	0	0	0	1998	9233
10517	168	414.4	46670	0	0	0	0	0	0	0	1	0	0	0	0	1998	9179
10388	168	418.6	51403	0	0	0	0	0	0	0	1	0	0	0	0	1998	9414
10434	168	399.3	36538	0	0	0	0	0	0	0	1	0	0	0	0	1998	9334
10436	168	431.3	61441	0	0	0	0	0	0	0	1	0	0	0	0	1998	9278
10443	168	450.6	9674	0	0	0	0	0	0	0	1	0	0	0	0	1998	9265
10404	168	436.3	60384	0	0	0	0	0	0	0	0	1	0	0	0	1998	9260
10336	70	426.9	56245	0	0	0	0	0	0	0	0	1	0	0	0	1998	9274
* 15296	31	106.4	14196	0	0	0	0	0	0	0	0	0	0	0	1	1998	9223
10691	113	321.8	45477	1	0	0	0	0	0	0	0	0	0	0	1	1999	9239
10581	128	356.3	7540	1	0	0	0	0	0	0	0	0	0	0	1	1999	9346
10629	100	357.9	9553	1	0	0	0	0	0	0	0	0	0	0	1	1999	9242
10630	168	395.3	35605	0	1	0	0	0	0	0	0	0	0	0	0	1999	9715
10291	161	304.6	42395	0	1	0	0	0	0	0	0	0	0	0	0	1999	11273
10211	168	386.1	24572	0	1	0	0	0	0	0	0	0	0	0	0	1999	10468
10188	159	390.1	31909	0	1	0	0	0	0	0	0	0	0	0	0	1999	10168
10325	168	362.1	5889	0	0	1	0	0	0	0	0	0	0	0	0	1999	9970
10519	130	431.9	60612	0	0	1	0	0	0	0	0	0	0	0	1	1999	9644
10219	168	450.0	7639	0	0	1	0	0	0	0	0	0	0	0	0	1999	9264
10264	156	435.2	62443	0	0	1	0	0	0	0	0	0	0	0	0	1999	9398
10648	51	392.3	40367	0	0	1	0	0	0	0	0	0	0	0	2	1999	9333
10306	24	441.0	4510	0	0	0	1	0	0	0	0	0	0	0	0	1999	9263
10554	127	329.5	47472	0	0	0	1	0	0	0	0	0	0	0	1	1999	9320
10157	168	457.2	13348	0	0	0	1	0	0	0	0	0	0	0	0	1999	9321
10319	168	451.7	9866	0	0	0	1	0	0	0	0	0	0	0	0	1999	9353
10874	127	356.5	4407	0	0	0	0	1	0	0	0	0	0	0	1	1999	9819
10750	148	387.9	32600	0	0	0	0	1	0	0	0	0	0	0	0	1999	9932
9925	168	388.6	39595	0	0	0	0	1	0	0	0	0	0	0	0	1999	11148
10369	150	409.5	53289	0	0	0	0	1	0	0	0	0	0	0	0	1999	11325
10681	168	366.8	22172	0	0	0	0	1	0	0	0	0	0	0	0	1999	11256
10087	168	417.5	56698	0	0	0	0	0	1	0	0	0	0	0	0	1999	11009
9819	168	427.1	62675	0	0	0	0	0	1	0	0	0	0	0	0	1999	10644
9997	168	417.3	58604	0	0	0	0	0	1	0	0	0	0	0	0	1999	10698
9617	144	439.4	3399	0	0	0	0	0	1	0	0	0	0	0	0	1999	10207
10303	168	420.6	61871	0	0	0	0	0	0	1	0	0	0	0	0	1999	10808
9844	168	459.6	22865	0	0	0	0	0	0	1	0	0	0	0	0	1999	10382
10195	168	444.6	10421	0	0	0	0	0	0	1	0	0	0	0	0	1999	10815
10179	168	480.5	38602	0	0	0	0	0	0	1	0	0	0	0	0	1999	10887
10205	168	507.1	60700	0	0	0	0	0	0	0	1	0	0	0	0	1999	10988
9669	168	503.7	57341	0	0	0	0	0	0	0	1	0	0	0	0	1999	10428
9846	168	488.2	45463	0	0	0	0	0	0	0	1	0	0	0	0	1999	10633
10292	168	466.7	28079	0	0	0	0	0	0	0	1	0	0	0	0	1999	11079
10353	168	441.5	8995	0	0	0	0	0	0	0	1	0	0	0	0	1999	10979
10152	168	428.9	1110	0	0	0	0	0	0	0	0	1	0	0	0	1999	10679

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	BTU/LB
10091	168	454.4	17151	0	0	0	0	0	0	0	0	1	0	0	0	1999	10845
11280	47	336.5	1053	0	0	0	0	0	0	0	0	1	0	0	0	1999	11679
12890	14	258.9	15579	0	0	0	0	0	0	0	0	1	0	0	2	1999	9366
10187	168	444.9	3991	0	0	0	0	0	0	0	0	0	1	0	0	1999	9294
10731	168	451.4	8770	0	0	0	0	0	0	0	0	0	1	0	0	1999	9417
9999	168	464.7	19928	0	0	0	0	0	0	0	0	0	1	0	0	1999	9259
10041	168	459.2	15270	0	0	0	0	0	0	0	0	0	1	0	0	1999	9340
10306	169	461.1	17428	0	0	0	0	0	0	0	0	0	1	0	0	1999	9347
10403	168	470.1	24775	0	0	0	0	0	0	0	0	0	0	1	0	1999	9333
10729	168	459.0	16436	0	0	0	0	0	0	0	0	0	0	1	0	1999	9799
10390	122	451.6	11751	0	0	0	0	0	0	0	0	0	0	1	0	1999	9344
10269	97	411.6	50858	0	0	0	0	0	0	0	0	0	0	1	1	1999	9305
10095	168	453.7	11726	0	0	0	0	0	0	0	0	0	0	0	0	1999	9276
9869	119	448.8	9097	0	0	0	0	0	0	0	0	0	0	0	0	1999	9202
11114	139	413.5	49042	0	0	0	0	0	0	0	0	0	0	0	1	1999	9246
10609	168	400.7	37973	0	0	0	0	0	0	0	0	0	0	0	0	1999	9340
* 7108	24	360.4	4175	0	0	0	0	0	0	0	0	0	0	0	0	1999	9214
10884	168	294.4	37735	1	0	0	0	0	0	0	0	0	0	0	0	2000	9276
10474	168	346.7	2394	1	0	0	0	0	0	0	0	0	0	0	0	2000	9110
10609	168	325.4	53662	1	0	0	0	0	0	0	0	0	0	0	0	2000	9262
10453	168	381.2	24554	1	0	0	0	0	0	0	0	0	0	0	0	2000	9231
10223	168	405.4	39968	0	1	0	0	0	0	0	0	0	0	0	0	2000	9190
10371	168	436.5	426	0	1	0	0	0	0	0	0	0	0	0	0	2000	9586
10236	168	381.1	30180	0	1	0	0	0	0	0	0	0	0	0	0	2000	9160
10256	168	396.0	38906	0	1	0	0	0	0	0	0	0	0	0	0	2000	9206
9573	167	426.9	59436	0	1	0	0	0	0	0	0	0	0	0	0	2000	9070
* 11359	1	59.0	3481	0	0	1	0	0	0	0	0	0	0	0	0	2000	9222
10343	152	408.2	49331	0	0	0	1	0	0	0	0	0	0	0	1	2000	11466
10238	167	451.1	18114	0	0	0	1	0	0	0	0	0	0	0	0	2000	11535
10316	168	359.9	16710	0	0	0	0	1	0	0	0	0	0	0	0	2000	11287
10056	130	422.4	61333	0	0	0	0	1	0	0	0	0	0	0	0	2000	11292
10326	53	457.3	23427	0	0	0	0	1	0	0	0	0	0	0	1	2000	11397
10019	139	450.8	16596	0	0	0	0	1	0	0	0	0	0	0	1	2000	11372
10100	168	376.3	32403	0	0	0	0	1	0	0	0	0	0	0	0	2000	11352
10113	168	369.8	29920	0	0	0	0	0	1	0	0	0	0	0	0	2000	11300
10027	168	403.0	49948	0	0	0	0	0	1	0	0	0	0	0	0	2000	11239
9939	168	399.0	51230	0	0	0	0	0	1	0	0	0	0	0	0	2000	11127
9594	168	489.1	46128	0	0	0	0	0	1	0	0	0	0	0	0	2000	10526
10428	24	378.2	32473	0	0	0	0	1	0	0	0	0	0	0	0	2000	11493
11089	168	497.2	52373	0	0	0	0	0	0	1	0	0	0	0	0	2000	11354
10889	71	471.7	35127	0	0	0	0	0	0	1	0	0	0	0	1	2000	11406
10655	168	472.4	36019	0	0	0	0	0	0	1	0	0	0	0	0	2000	11221
10597	168	406.6	59116	0	0	0	0	0	0	1	0	0	0	0	0	2000	10718
10358	150	465.8	28794	0	0	0	0	0	0	0	1	0	0	0	0	2000	11168
10137	168	501.3	54885	0	0	0	0	0	0	0	1	0	0	0	0	2000	11167
10372	167	466.2	31150	0	0	0	0	0	0	0	1	0	0	0	0	2000	11321
10294	167	462.6	27431	0	0	0	0	0	0	0	1	0	0	0	0	2000	11283

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	BTU/LB
10272	121	469.3	32424	0	0	0	0	0	0	0	1	0	0	0	1	2000	11454
10142	168	475.6	38231	0	0	0	0	0	0	0	0	1	0	0	0	2000	11314
10004	168	491.6	46405	0	0	0	0	0	0	0	0	1	0	0	0	2000	11183
10037	136	487.5	47356	0	0	0	0	0	0	0	0	1	0	0	1	2000	11149
10010	168	482.6	42707	0	0	0	0	0	0	0	0	1	0	0	0	2000	11141
10067	168	460.1	27650	0	0	0	0	0	0	0	0	0	1	0	0	2000	11173
10103	168	482.1	43593	0	0	0	0	0	0	0	0	0	1	0	0	2000	10797
9919	168	463.2	28003	0	0	0	0	0	0	0	0	0	1	0	0	2000	10973
9937	168	470.2	32498	0	0	0	0	0	0	0	0	0	1	0	0	2000	11358
9854	169	473.6	37604	0	0	0	0	0	0	0	0	0	1	0	0	2000	10611
9960	168	488.3	46339	0	0	0	0	0	0	0	0	0	0	1	0	2000	10857
9912	168	498.9	53929	0	0	0	0	0	0	0	0	0	0	1	0	2000	10925
9910	168	480.6	37063	0	0	0	0	0	0	0	0	0	0	1	0	2000	10499
11327	168	442.6	1816	0	0	0	0	0	0	0	0	0	0	1	0	2000	10349
9417	168	479.6	35078	0	0	0	0	0	0	0	0	0	0	0	0	2000	9845
10658	168	422.7	48045	0	0	0	0	0	0	0	0	0	0	0	0	2000	9143
10222	168	407.2	42023	0	0	0	0	0	0	0	0	0	0	0	0	2000	9104
10975	168	417.9	45312	0	0	0	0	0	0	0	0	0	0	0	0	2000	9482
11374	24	425.3	49837	0	0	0	0	0	0	0	0	0	0	0	0	2000	9779
9962	168	479.4	36727	1	0	0	0	0	0	0	0	0	0	0	0	2001	10432
10416	168	429.6	55290	1	0	0	0	0	0	0	0	0	0	0	0	2001	9324
10180	96	417.8	57434	1	0	0	0	0	0	0	0	0	0	0	0	2001	11319
10620	69	428.7	468	0	0	1	0	0	0	0	0	0	0	0	1	2001	11090
10176	138	474.0	33707	0	0	1	0	0	0	0	0	0	0	0	1	2001	11180
10086	168	435.8	2427	0	0	1	0	0	0	0	0	0	0	0	0	2001	11144
10054	168	463.7	25592	0	0	1	0	0	0	0	0	0	0	0	0	2001	11378
10428	167	309.3	49744	0	0	1	0	0	0	0	0	0	0	0	0	2001	11446
9879	168	407.7	54000	0	0	0	1	0	0	0	0	0	0	0	0	2001	11438
10008	168	387.8	42553	0	0	0	1	0	0	0	0	0	0	0	0	2001	11212
9942	168	413.9	57117	0	0	0	1	0	0	0	0	0	0	0	0	2001	11314
10147	168	336.1	3674	0	0	0	1	0	0	0	0	0	0	0	0	2001	11492
9920	168	337.1	3178	0	0	0	0	1	0	0	0	0	0	0	0	2001	11563
10175	168	330.3	1056	0	0	0	0	1	0	0	0	0	0	0	0	2001	11552
10477	168	278.4	34345	0	0	0	0	1	0	0	0	0	0	0	0	2001	11676
10706	168	279.8	27721	0	0	0	0	1	0	0	0	0	0	0	0	2001	11484
10512	168	315.7	53213	0	0	0	0	1	0	0	0	0	0	0	0	2001	11396
10147	168	372.8	28388	0	0	0	0	0	1	0	0	0	0	0	0	2001	11417
9911	168	423.7	62662	0	0	0	0	0	1	0	0	0	0	0	0	2001	11389
9960	168	388.0	40274	0	0	0	0	0	1	0	0	0	0	0	0	2001	11315
9992	144	360.9	18129	0	0	0	0	0	1	0	0	0	0	0	0	2001	11332

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	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR	BTU/LB
10438	168	423.3	50685	0	0	0	0	0	0	1	0	0	0	0	0	1998	9240
10452	168	427.4	51836	0	0	0	0	0	0	1	0	0	0	0	0	1998	9195
10608	168	409.2	36775	0	0	0	0	0	0	1	0	0	0	0	0	1998	9248
10556	168	414.6	40870	0	0	0	0	0	0	1	0	0	0	0	0	1998	9231
10866	108	387.2	24377	0	0	0	0	0	0	0	1	0	0	0	1	1998	9131
10491	168	420.9	46457	0	0	0	0	0	0	0	1	0	0	0	0	1998	9416
10480	168	420.9	47347	0	0	0	0	0	0	0	1	0	0	0	0	1998	9334
10600	130	402.7	37177	0	0	0	0	0	0	0	1	0	0	0	1	1998	9270
10567	168	408.1	36545	0	0	0	0	0	0	0	1	0	0	0	0	1998	9264
10531	90	390.8	27406	0	0	0	0	0	0	0	0	1	0	0	1	1998	9240
10440	168	395.3	29659	0	0	0	0	0	0	0	0	1	0	0	0	1998	9115
10511	168	405.4	33492	0	0	0	0	0	0	0	0	1	0	0	0	1998	9056
10536	139	394.9	27285	0	0	0	0	0	0	0	0	1	0	0	0	1998	9071
10518	123	396.4	28503	0	0	0	0	0	0	0	0	0	1	0	1	1998	9097
10551	137	371.1	11890	0	0	0	0	0	0	0	0	0	1	0	1	1998	8964
10572	140	362.8	8252	0	0	0	0	0	0	0	0	0	1	0	1	1998	9358
10413	124	343.5	60406	0	0	0	0	0	0	0	0	0	1	0	1	1998	9290
10645	168	317.4	44496	0	0	0	0	0	0	0	0	0	0	1	0	1998	9361
10438	49	335.9	55108	0	0	0	0	0	0	0	0	0	0	1	0	1998	9389
11007	67	275.3	12017	0	0	0	0	0	0	0	0	0	0	1	1	1998	9113
10555	168	296.0	24399	0	0	0	0	0	0	0	0	0	0	0	0	1998	9177
10304	163	359.7	315	0	0	0	0	0	0	0	0	0	0	0	0	1998	9189
10730	110	304.6	34139	0	0	0	0	0	0	0	0	0	0	0	1	1998	9192
10355	168	347.0	55803	0	0	0	0	0	0	0	0	0	0	0	0	1998	9261
10406	168	357.0	62503	1	0	0	0	0	0	0	0	0	0	0	0	1999	9257
10549	168	330.6	46824	1	0	0	0	0	0	0	0	0	0	0	0	1999	9222
10617	168	320.2	40288	1	0	0	0	0	0	0	0	0	0	0	0	1999	9357
10889	128	296.9	27870	1	0	0	0	0	0	0	0	0	0	0	1	1999	9238
10699	168	334.9	47194	0	1	0	0	0	0	0	0	0	0	0	0	1999	9242
11053	22	326.9	45253	0	1	0	0	0	0	0	0	0	0	0	0	1999	9843
* 19150	25	157.4	30819	0	0	0	1	0	0	0	0	0	0	0	1	1999	9413
• 9934	150	330.4	53663	0	0	0	1	0	0	0	0	0	0	0	1	1999	9341
9932	168	466.4	25472	0	0	0	0	1	0	0	0	0	0	0	0	1999	10168
9437	168	434.9	5315	0	0	0	0	1	0	0	0	0	0	0	0	1999	10765
10317	168	406.1	52437	0	0	0	0	1	0	0	0	0	0	0	0	1999	11341
10392	123	396.7	44796	0	0	0	0	1	0	0	0	0	0	0	1	1999	11367
10478	168	405.9	51009	0	0	0	0	1	0	0	0	0	0	0	0	1999	11262
10115	168	413.4	55008	0	0	0	0	0	1	0	0	0	0	0	0	1999	11006
10033	157	390.1	38800	0	0	0	0	0	1	0	0	0	0	0	0	1999	10642
9966	168	407.2	52888	0	0	0	0	0	1	0	0	0	0	0	0	1999	10698
9563	144	435.9	1888	0	0	0	0	0	1	0	0	0	0	0	0	1999	10209
10126	168	406.8	51222	0	0	0	0	0	0	1	0	0	0	0	0	1999	10810
9807	120	411.9	56298	0	0	0	0	0	0	1	0	0	0	0	1	1999	10435
9693	168	427.7	62984	0	0	0	0	0	0	1	0	0	0	0	0	1999	10875
9846	168	478.1	35547	0	0	0	0	0	0	1	0	0	0	0	0	1999	10885
10216	130	452.5	16912	0	0	0	0	0	0	0	1	0	0	0	1	1999	10956
9816	168	495.4	49692	0	0	0	0	0	0	0	1	0	0	0	0	1999	10433

Data Base for DANIEL 2 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR	BTU/LB
10003	168	457.7	20527	0	0	0	0	0	0	0	1	0	0	0	0	1999	10639
10223	168	441.4	8497	0	0	0	0	0	0	0	1	0	0	0	0	1999	10826
10462	168	434.5	3750	0	0	0	0	0	0	0	1	0	0	0	0	1999	10972
10092	143	392.2	39136	0	0	0	0	0	0	0	0	1	0	0	0	1999	10566
10077	126	432.4	1340	0	0	0	0	0	0	0	0	1	0	0	1	1999	10579
9953	168	406.2	52145	0	0	0	0	0	0	0	0	1	0	0	0	1999	11708
9960	168	430.6	563	0	0	0	0	0	0	0	0	1	0	0	0	1999	10677
10094	168	447.3	6804	0	0	0	0	0	0	0	0	0	1	0	0	1999	9293
10684	168	457.3	13130	0	0	0	0	0	0	0	0	0	1	0	0	1999	9422
9983	168	452.6	10402	0	0	0	0	0	0	0	0	0	1	0	0	1999	9259
9959	168	451.8	9419	0	0	0	0	0	0	0	0	0	1	0	0	1999	9340
10065	169	460.1	16597	0	0	0	0	0	0	0	0	0	1	0	0	1999	9347
10167	168	394.4	31737	0	0	0	0	0	0	0	0	0	0	1	0	1999	9662
9495	119	457.7	22032	0	0	0	0	0	0	0	0	0	0	1	0	1999	9866
9892	128	439.5	5757	0	0	0	0	0	0	0	0	0	0	1	1	1999	9308
10261	168	414.8	45907	0	0	0	0	0	0	0	0	0	0	1	0	1999	9303
9879	168	438.1	62907	0	0	0	0	0	0	0	0	0	0	0	0	1999	9266
* 11030	168	440.7	4520	0	0	0	0	0	0	0	0	0	0	0	0	1999	9162
9434	168	403.4	42629	0	0	0	0	0	0	0	0	0	0	0	0	1999	9247
10549	168	377.1	20699	0	0	0	0	0	0	0	0	0	0	0	0	1999	9332
11033	24	330.2	50321	0	0	0	0	0	0	0	0	0	0	0	0	1999	9214
11086	133	250.9	10254	1	0	0	0	0	0	0	0	0	0	0	1	2000	9278
10381	168	322.0	50549	1	0	0	0	0	0	0	0	0	0	0	0	2000	9109
10650	168	291.8	31872	1	0	0	0	0	0	0	0	0	0	0	0	2000	9259
10311	168	363.2	12404	1	0	0	0	0	0	0	0	0	0	0	0	2000	9231
10148	168	409.9	43776	0	1	0	0	0	0	0	0	0	0	0	0	2000	10468
9560	167	407.5	47634	0	1	0	0	0	0	0	0	0	0	0	0	2000	10597
10850	168	367.4	21657	0	1	0	0	0	0	0	0	0	0	0	0	2000	9158
9877	168	385.0	31999	0	1	0	0	0	0	0	0	0	0	0	0	2000	9204
9971	168	428.5	60068	0	1	0	0	0	0	0	0	0	0	0	0	2000	9072
10012	168	459.3	16171	0	0	1	0	0	0	0	0	0	0	0	0	2000	8987
9989	168	467.9	22892	0	0	1	0	0	0	0	0	0	0	0	0	2000	9058
9985	168	411.1	47818	0	0	1	0	0	0	0	0	0	0	0	0	2000	9007
9995	154	445.5	15101	0	0	0	1	0	0	0	0	0	0	0	1	2000	11198
9961	168	469.6	30819	0	0	0	1	0	0	0	0	0	0	0	0	2000	11415
10039	168	482.9	39296	0	0	0	1	0	0	0	0	0	0	0	0	2000	11521
9861	168	455.4	19956	0	0	0	0	1	0	0	0	0	0	0	0	2000	11291
9993	168	465.1	26538	0	0	0	0	1	0	0	0	0	0	0	0	2000	11297
9868	168	463.0	25392	0	0	0	0	1	0	0	0	0	0	0	0	2000	11422
9980	168	472.9	31629	0	0	0	0	1	0	0	0	0	0	0	0	2000	11387
10191	168	391.1	43187	0	0	0	0	1	0	0	0	0	0	0	0	2000	11351
10167	168	384.5	39110	0	0	0	0	0	1	0	0	0	0	0	0	2000	11299
10154	168	394.5	43111	0	0	0	0	0	1	0	0	0	0	0	0	2000	11239
* 11352	168	380.7	35826	0	0	0	0	0	1	0	0	0	0	0	0	2000	11118
* 9003	168	381.2	32754	0	0	0	0	0	1	0	0	0	0	0	0	2000	10513
10776	24	354.8	19958	0	0	0	0	1	0	0	0	0	0	0	0	2000	1149
10774	168	368.4	28982	0	0	0	0	0	0	1	0	0	0	0	0	2000	1138

Data Base for DANIEL 2 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR	BTU/LB
10337	168	470.4	29745	0	0	0	0	0	0	1	0	0	0	0	0	2000	11589
10591	101	372.3	29627	0	0	0	0	0	0	1	0	0	0	0	1	2000	11221
10333	168	333.1	4008	0	0	0	0	0	0	1	0	0	0	0	0	2000	10763
10367	168	383.9	35525	0	0	0	0	0	0	0	1	0	0	0	0	2000	11171
10268	168	412.3	52753	0	0	0	0	0	0	0	1	0	0	0	0	2000	11171
10319	168	405.8	52147	0	0	0	0	0	0	0	1	0	0	0	0	2000	11324
10351	168	424.3	63503	0	0	0	0	0	0	0	1	0	0	0	0	2000	11285
10246	168	451.8	16172	0	0	0	0	0	0	0	1	0	0	0	0	2000	11449
10004	168	396.9	45858	0	0	0	0	0	0	0	0	1	0	0	0	2000	11303
10098	168	382.8	34021	0	0	0	0	0	0	0	0	1	0	0	0	2000	11306
9897	146	373.3	30430	0	0	0	0	0	0	0	0	1	0	0	0	2000	11220
* 11997	31	354.7	18614	0	0	0	0	0	0	0	0	0	1	0	1	2000	11438
9792	169	405.4	55285	0	0	0	0	0	0	0	0	0	1	0	0	2000	10664
9653	168	394.9	46968	0	0	0	0	0	0	0	0	0	0	1	0	2000	10882
9634	168	423.4	64160	0	0	0	0	0	0	0	0	0	0	1	0	2000	10931
9681	168	472.9	34118	0	0	0	0	0	0	0	0	0	0	1	0	2000	10490
9679	168	444.9	14439	0	0	0	0	0	0	0	0	0	0	1	0	2000	10625
9858	168	507.0	60458	0	0	0	0	0	0	0	0	0	0	0	0	2000	10713
9326	168	498.9	54553	0	0	0	0	0	0	0	0	0	0	0	0	2000	10214
9835	168	488.4	45274	0	0	0	0	0	0	0	0	0	0	0	0	2000	10519
9945	168	446.4	21276	0	0	0	0	0	0	0	0	0	0	0	0	2000	11097
9230	24	511.0	64514	0	0	0	0	0	0	0	0	0	0	0	0	2000	10550
9667	168	504.2	58746	1	0	0	0	0	0	0	0	0	0	0	0	2001	10830
9584	168	484.4	43398	1	0	0	0	0	0	0	0	0	0	0	0	2001	11026
10154	168	412.0	54289	1	0	0	0	0	0	0	0	0	0	0	0	2001	11174
9922	168	457.3	18662	1	0	0	0	0	0	0	0	0	0	0	0	2001	11068
10171	168	430.4	64453	0	1	0	0	0	0	0	0	0	0	0	0	2001	11079
10218	168	290.4	35743	0	1	0	0	0	0	0	0	0	0	0	0	2001	10825
9958	168	370.0	28222	0	1	0	0	0	0	0	0	0	0	0	0	2001	11217
9771	168	501.5	55221	0	1	0	0	0	0	0	0	0	0	0	0	2001	11475
9860	168	494.5	49242	0	0	1	0	0	0	0	0	0	0	0	0	2001	11207
9951	168	503.4	57060	0	0	1	0	0	0	0	0	0	0	0	0	2001	11196
9862	168	478.0	34809	0	0	1	0	0	0	0	0	0	0	0	0	2001	11146
9782	168	474.5	34884	0	0	1	0	0	0	0	0	0	0	0	0	2001	11377
10118	167	358.1	14508	0	0	1	0	0	0	0	0	0	0	0	0	2001	11442
9880	168	485.4	44053	0	0	0	1	0	0	0	0	0	0	0	0	2001	11422
9909	165	487.9	46353	0	0	0	1	0	0	0	0	0	0	0	0	2001	11211
9752	83	477.5	39176	0	0	0	1	0	0	0	0	0	0	0	1	2001	11340
9675	119	499.6	56318	0	0	0	1	0	0	0	0	0	0	0	0	2001	11274
10735	100	337.2	4161	0	0	0	0	1	0	0	0	0	0	0	1	2001	11523
10620	138	359.8	26279	0	0	0	0	1	0	0	0	0	0	0	1	2001	11692
10466	168	361.4	27590	0	0	0	0	1	0	0	0	0	0	0	0	2001	11481
10620	168	308.8	58946	0	0	0	0	1	0	0	0	0	0	0	0	2001	11339
10310	168	366.4	30914	0	0	0	0	0	1	0	0	0	0	0	0	2001	11422
10154	168	419.2	539	0	0	0	0	0	1	0	0	0	0	0	0	2001	11392
10123	168	410.3	59692	0	0	0	0	0	1	0	0	0	0	0	0	2001	11311
10120	144	377.2	38663	0	0	0	0	0	1	0	0	0	0	0	0	2001	11333

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 January 2002 - December 2002

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 4	Jan '02	69.5	4,998	10,194	37,681	
	Feb '02	70.6	5,137	10,364	34,927	
	Mar '02	69.5	4,998	10,376	48,611	
	Apr '02	64.0	4,316	10,461	35,822	
	May '02	64.0	4,316	10,461	46,752	
	Jun '02	66.0	4,562	10,682	39,781	
	Jul '02	66.5	4,624	10,787	47,705	
	Aug '02	68.9	4,923	10,784	44,996	
	Sep '02	67.6	4,760	10,400	46,745	
	Oct '02	62.1	4,084	10,500	5,649	
	Nov '02	64.0	4,316	10,461	43,288	
	Dec '02	68.7	4,898	10,386	21,366	10,499
CRIST 6	Jan '02	263.7	73,562	10,522	176,154	
	Feb '02	271.0	76,840	10,502	49,869	
	Mar '02	0.0	0	-	0	
	Apr '02	235.6	61,089	10,245	124,859	
	May '02	244.0	64,794	10,579	162,992	
	Jun '02	252.3	68,474	10,681	174,310	
	Jul '02	252.9	68,741	10,552	180,538	
	Aug '02	263.7	73,562	10,522	188,265	
	Sep '02	256.8	70,478	10,541	165,649	
	Oct '02	234.7	60,694	10,609	157,021	
	Nov '02	241.5	63,689	10,587	150,233	
	Dec '02	249.8	67,364	10,561	166,844	10,546
CRIST 7	Jan '02	471.0	221,867	10,138	300,038	
	Feb '02	474.6	224,476	10,135	291,891	
	Mar '02	474.9	224,693	10,135	302,538	
	Apr '02	0.0	0	-	0	
	May '02	462.3	215,571	10,051	233,472	
	Jun '02	467.4	219,261	10,141	308,038	
	Jul '02	459.1	213,259	10,330	312,657	
	Aug '02	467.7	219,478	10,285	318,507	
	Sep '02	466.0	218,247	10,338	276,362	
	Oct '02	455.5	210,659	10,282	310,626	
	Nov '02	461.9	215,282	10,147	284,088	
	Dec '02	473.2	223,461	10,136	322,261	10,196

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 January 2002 - December 2002

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 1	Jan '02	157.5	24,967	10,072	108,071	
	Feb '02	159.5	25,509	9,957	105,723	
	Mar '02	159.8	25,591	10,068	117,330	
	Apr '02	152.2	23,562	10,082	93,422	
	May '02	151.9	23,484	9,998	68,367	
	Jun '02	153.9	24,008	10,079	109,235	
	Jul '02	151.6	23,405	10,083	111,279	
	Aug '02	155.5	24,432	10,076	114,113	
	Sep '02	154.6	24,193	10,077	109,792	
	Oct '02	149.5	22,863	10,087	88,664	
	Nov '02	152.1	23,536	9,961	90,070	
	Dec '02	158.4	25,210	10,071	116,237	10,054
SMITH 2	Jan '02	183.3	33,822	9,912	133,451	
	Feb '02	185.4	34,405	9,865	113,281	
	Mar '02	182.0	33,462	9,875	4,369	
	Apr '02	176.0	31,800	10,003	123,898	
	May '02	178.6	32,520	10,098	129,993	
	Jun '02	178.7	32,548	10,098	125,967	
	Jul '02	177.1	32,105	10,104	128,955	
	Aug '02	180.5	33,046	10,091	131,438	
	Sep '02	179.7	32,825	10,094	126,696	
	Oct '02	173.9	31,219	10,117	126,789	
	Nov '02	178.7	32,548	10,098	83,972	
	Dec '02	183.9	33,989	10,078	133,856	10,050
DANIEL 1	Jan '02	464.8	221,849	10,168	258,418	
	Feb '02	477.1	231,908	9,930	233,280	
	Mar '02	479.4	233,812	10,112	330,300	
	Apr '02	432.8	196,662	10,284	249,709	
	May '02	443.2	204,692	10,247	305,355	
	Jun '02	450.8	210,655	9,917	300,698	
	Jul '02	441.6	203,447	10,493	304,274	
	Aug '02	461.9	219,508	10,179	318,269	
	Sep '02	455.0	213,985	10,204	303,502	
	Oct '02	429.6	194,221	10,295	296,431	
	Nov '02	440.2	202,360	10,258	293,635	
	Dec '02	464.5	221,607	10,169	299,111	10,191

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.

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

Calculation of
Target Average Net Operating Heat Rates
for January 2002 - December 2002

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
DANIEL 2	Jan '02	489.3	241,860	9,761	197,189	
	Feb '02	0.0	0	-	0	
	Mar '02	0.0	0	-	0	
	Apr '02	444.0	206,245	9,942	188,705	
	May '02	458.6	217,592	10,050	318,236	
	Jun '02	465.5	222,998	9,854	312,328	
	Jul '02	459.0	217,904	10,053	318,555	
	Aug '02	472.0	228,116	10,089	327,592	
	Sep '02	471.6	227,800	9,830	284,836	
	Oct '02	447.0	208,566	9,930	310,659	
	Nov '02	463.5	221,428	9,715	311,024	
	Dec '02	485.8	239,065	9,774	315,268	9,906

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.

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

Summary of Target, Maximum, and Minimum
Average Net Operating Heat Rates
for January 2002 - December 2002

Unit	Target Heat Rate BTU/KWH (0 Points)	Minimum Attainable Heat Rate (+ 10 Points)	Maximum Attainable Heat Rate (- 10 Points)
CRIST 4	10,499	10,184	10,814
CRIST 6	10,546	10,230	10,862
CRIST 7	10,196	9,890	10,502
SMITH 1	10,054	9,752	10,356
SMITH 2	10,050	9,749	10,352
DANIEL 1	10,191	9,885	10,497
DANIEL 2	9,906	9,609	10,203

II. DETERMINATION OF EQUIVALENT AVAILABILITY TARGETS

Calculation of
Target Equivalent Availabilities
for January 2002 - December 2002

Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR *	Planned Outage Hours for Jan '02 - Dec '02	Reserve Shutdown Hours for Jan '02 - Dec '02	Target Equivalent Availability **
Crist 4	0.0350	553	1,201	90.9
Crist 6	0.0810	1,391	0	77.3
Crist 7	0.1135	887	0	79.7
Smith 1	0.0263	600	0	90.7
Smith 2	0.0307	936	0	86.6
Daniel 1	0.0979	216	0	88.0
Daniel 2	0.0976	1,895	0	70.7

* For Period July 1996 Through June 2001.

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

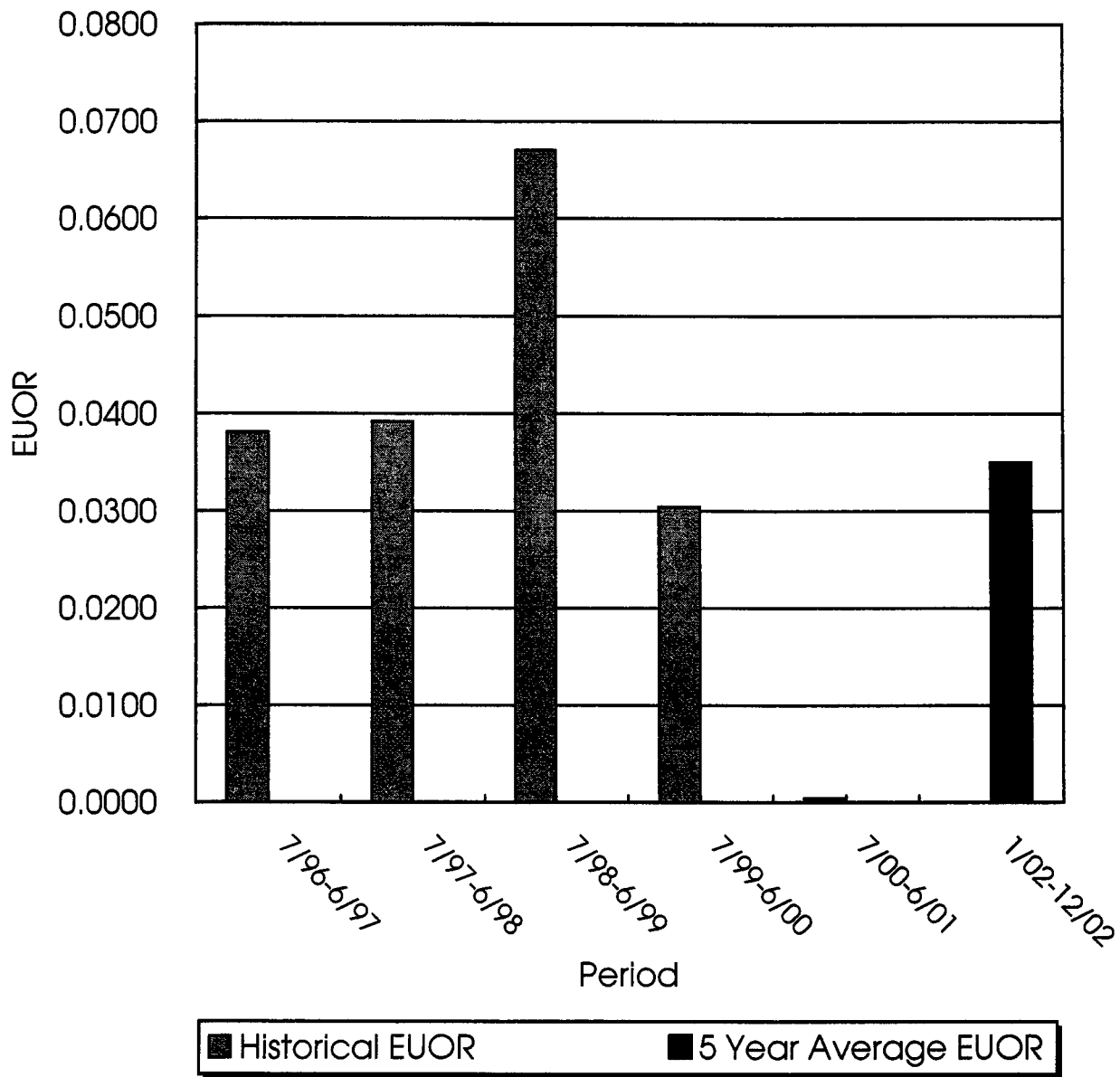
Calculation of Maximum and Minimum
Attainable Equivalent Availabilities
for January 2002 - December 2002

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 4	0.0350	0.0245	91.7	0.0508	89.6
Crist 6	0.0810	0.0567	79.4	0.1175	74.2
Crist 7	0.1135	0.0795	82.7	0.1646	75.1
Smith 1	0.0263	0.0184	91.4	0.0381	89.6
Smith 2	0.0307	0.0215	87.4	0.0445	85.3
Daniel 1	0.0979	0.0685	90.9	0.1420	83.7
Daniel 2	0.0976	0.0683	73.0	0.1415	67.3

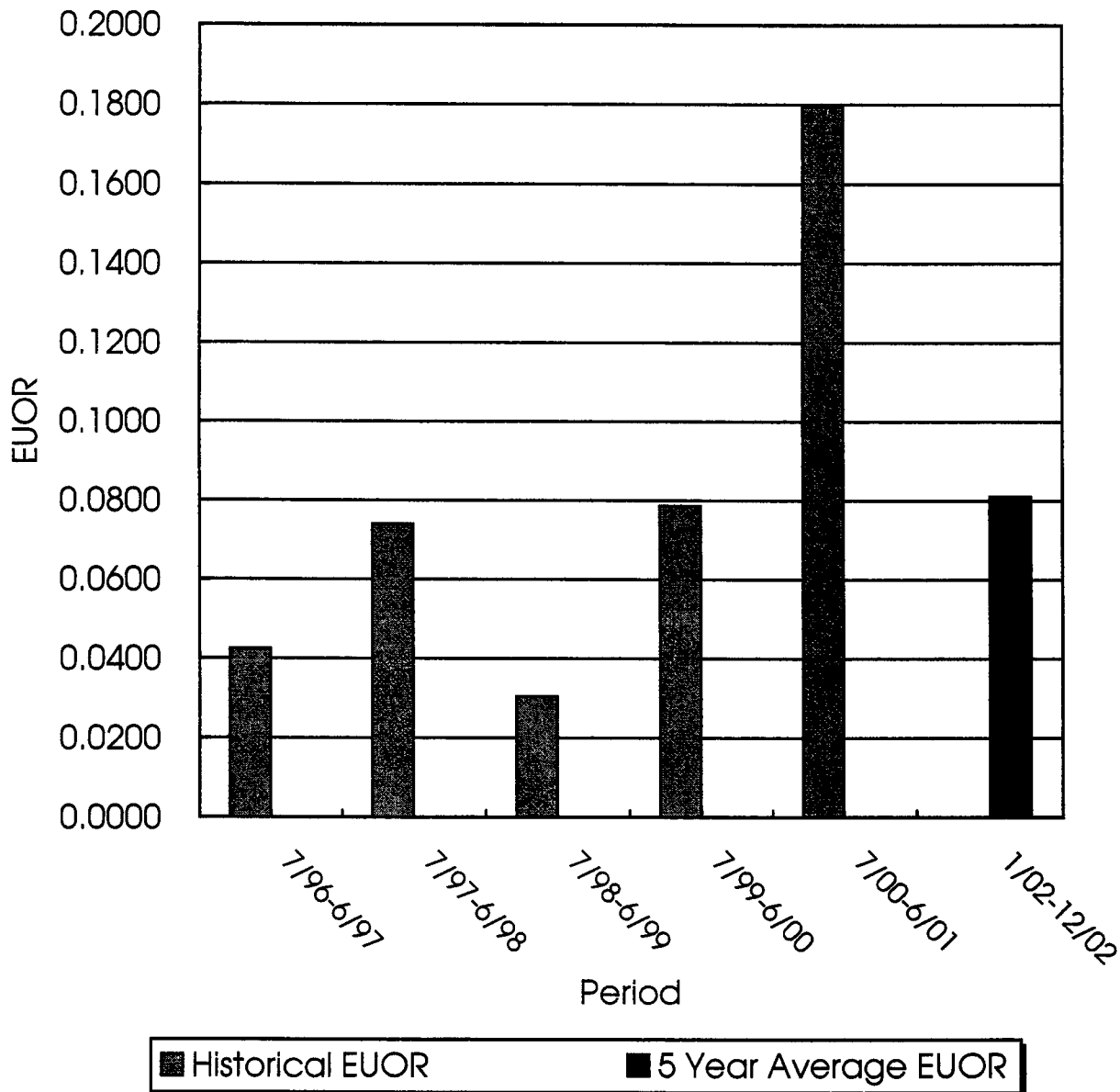
Summary of Target, Maximum, and Minimum
Equivalent Availabilities
for January 2002 - December 2002

Unit	Target Equivalent Availability (0 Points)	Maximum Attainable Equivalent Availability (+10 Points)	Minimum Attainable Equivalent Availability (-10 Points)
Crist 4	90.9	91.7	89.6
Crist 6	77.3	79.4	74.2
Crist 7	79.7	82.7	75.1
Smith 1	90.7	91.4	89.6
Smith 2	86.6	87.4	85.3
Daniel 1	88.0	90.9	83.7
Daniel 2	70.7	73.0	67.3

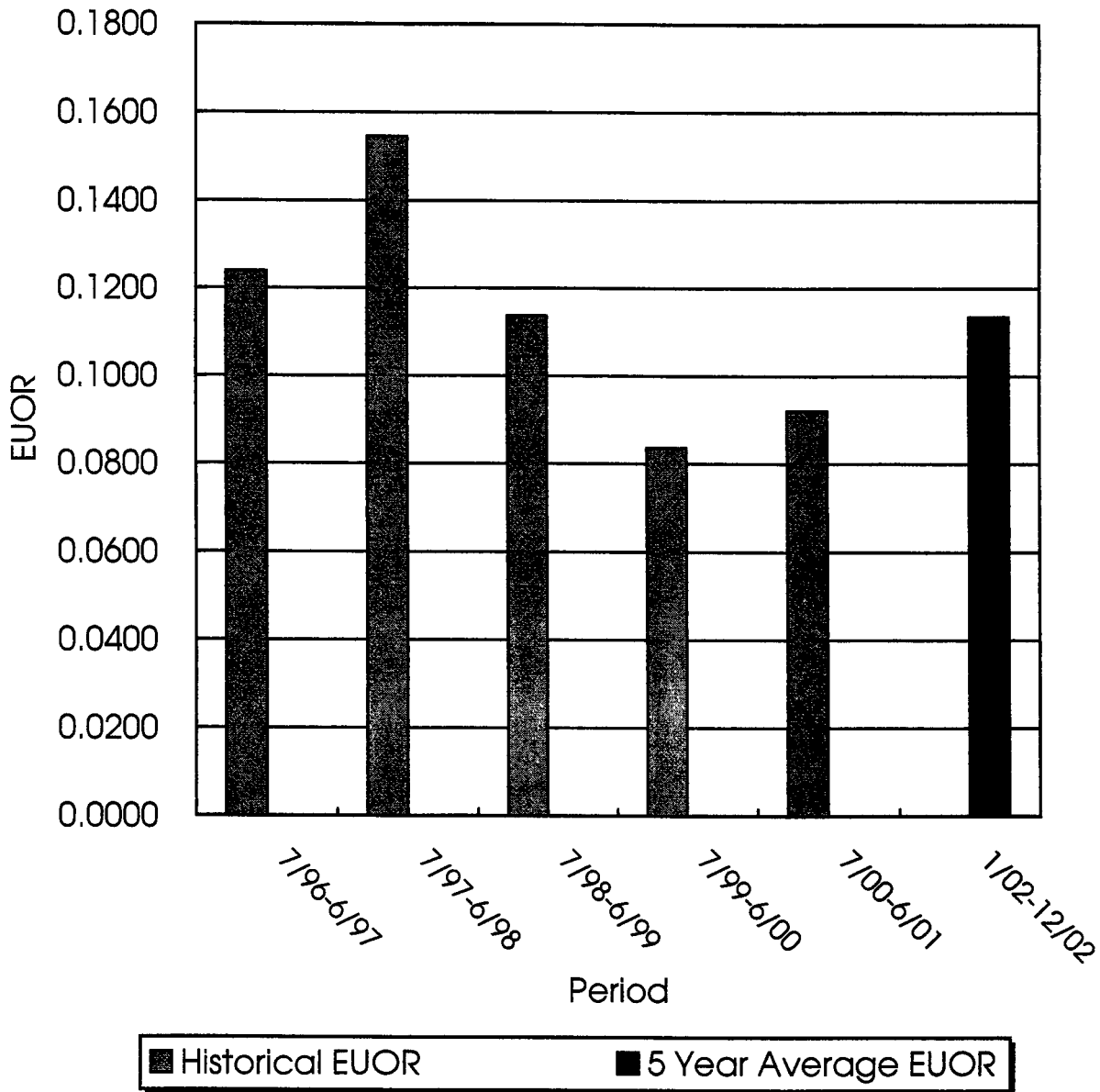
EUOR VS. PERIOD CRIST 4 January-December



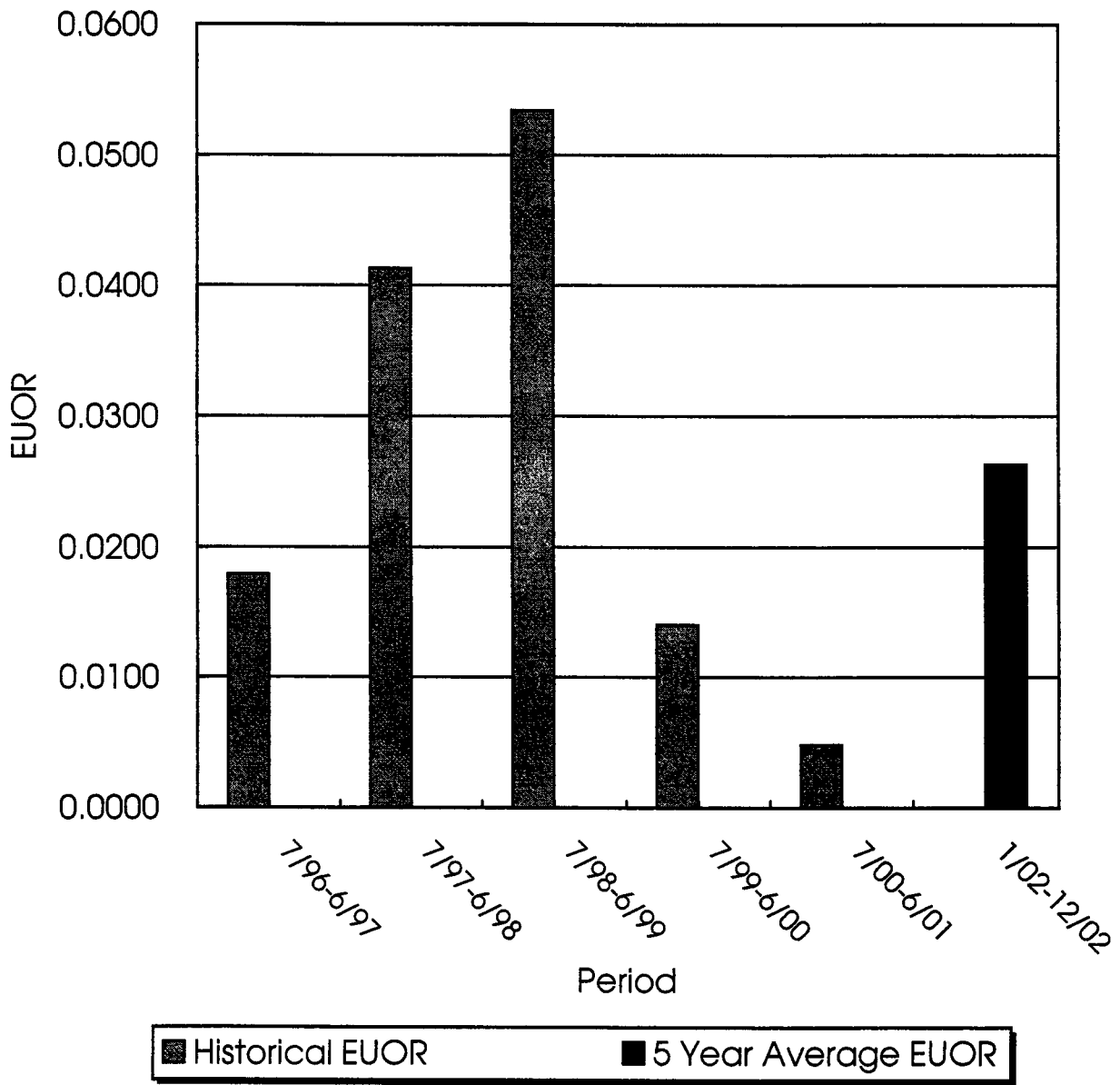
EUOR VS. PERIOD CRIST 6 January-December



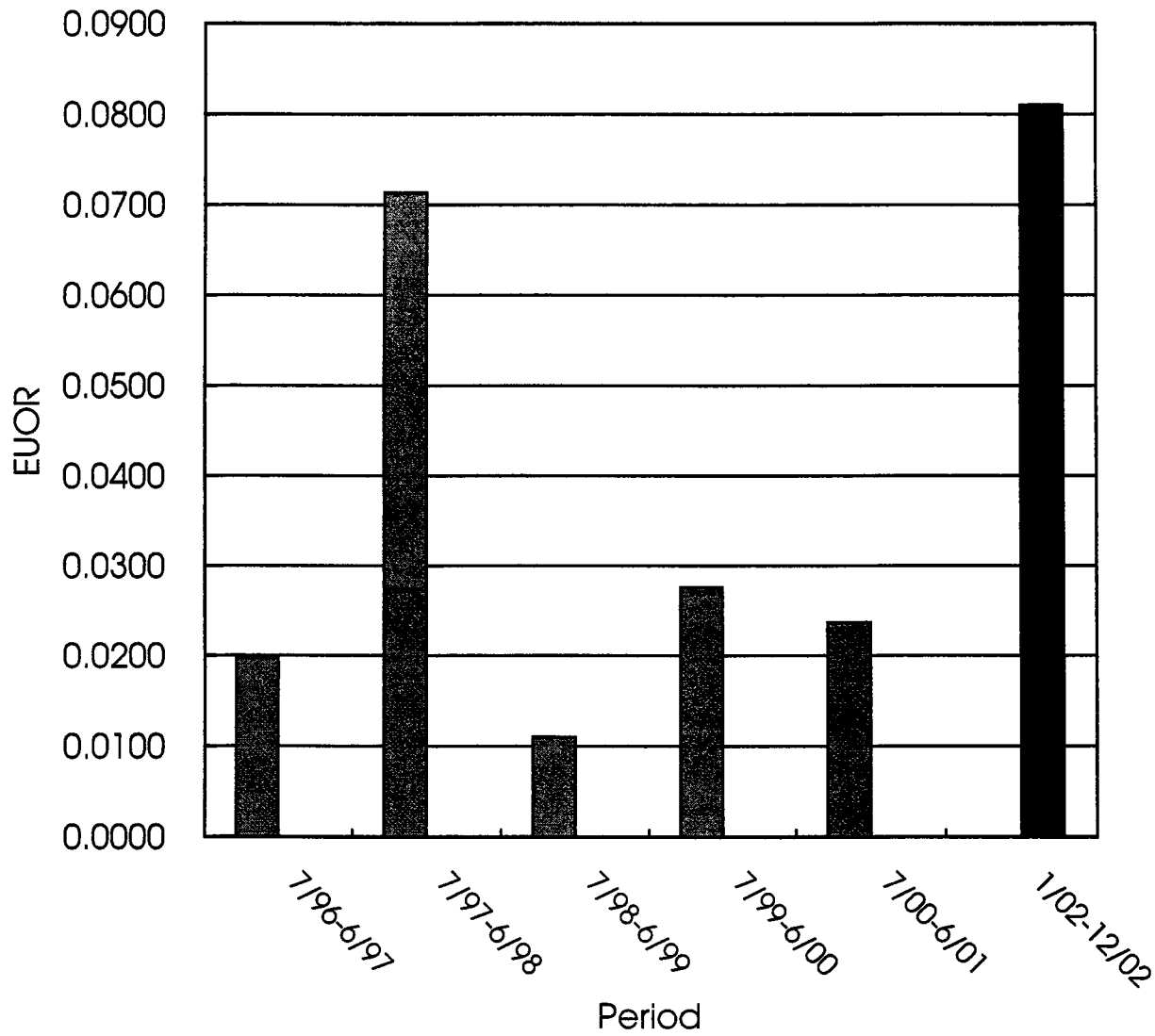
EUOR VS. PERIOD CRIST 7 January-December



EUOR VS. PERIOD SMITH 1 January-December

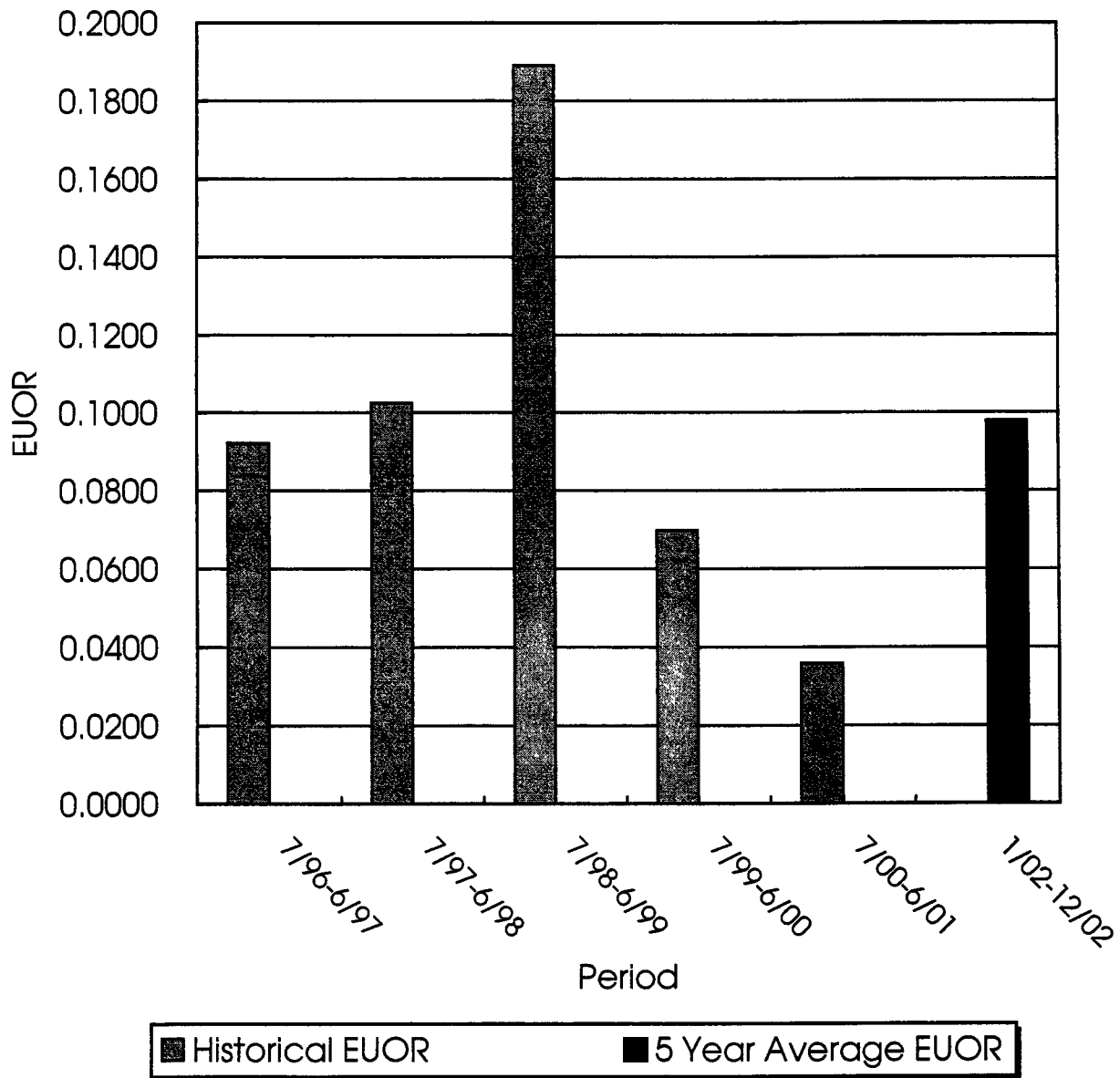


EUOR VS. PERIOD SMITH 2 January-December

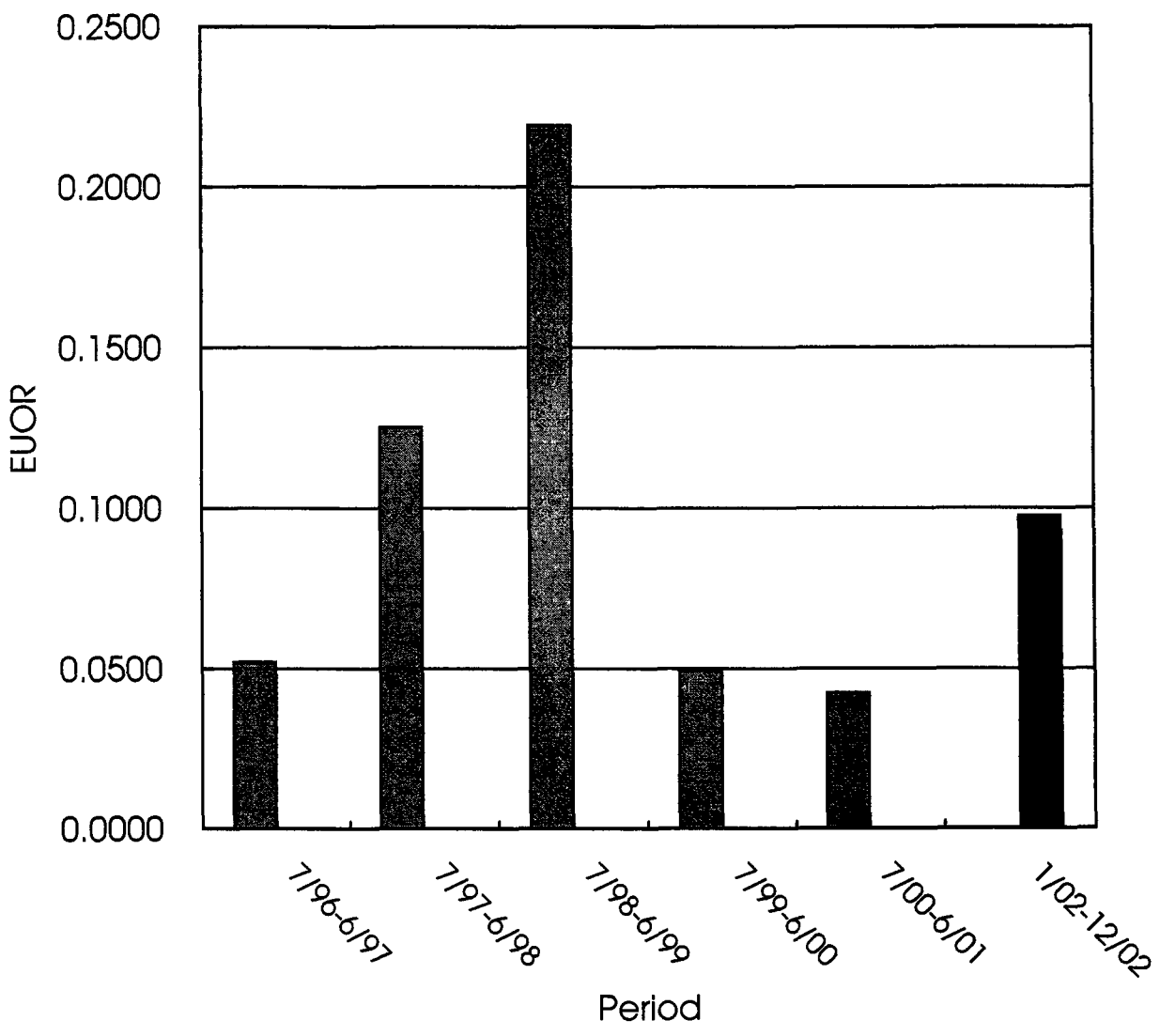


■ Historical EUOR ■ 5 Year Average EUOR

EUOR VS. PERIOD DANIEL 1 January-December



EUOR VS. PERIOD DANIEL 2 January-December



■ Historical EUOR ■ 5 Year Average EUOR

III. GPIF MINIMUM FILING REQUIREMENTS FOR THE
PERIOD JANUARY 2002 - DECEMBER 2002

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Generating Performance Incentive Factor

Estimated Reward/Penalty Table

Gulf Power Company

Period of: January 2002 - December 2002

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	6301	2161
+ 9	5671	1945
+ 8	5041	1729
+ 7	4411	1513
+ 6	3781	1297
+ 5	3151	1081
+ 4	2520	864
+ 3	1890	648
+ 2	1260	432
+ 1	630	216
0	0	0
- 1	-749	-216
- 2	-1498	-432
- 3	-2247	-648
- 4	-2996	-864
- 5	-3746	-1081
- 6	-4495	-1297
- 7	-5244	-1513
- 8	-5993	-1729
- 9	-6742	-1945
- 10	-7491	-2161
	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: January 2002 - December 2002

Line 1	Beginning of Period Balance of Common Equity	\$505,838,000
	End of Month Balance of Common Equity:	
Line 2	Month of Jan '02	\$547,331,000
Line 3	Month of Feb '02	\$532,992,000
Line 4	Month of Mar '02	\$533,813,000
Line 5	Month of Apr '02	\$515,815,000
Line 6	Month of May '02	\$547,709,000
Line 7	Month of Jun '02	\$553,766,000
Line 8	Month of Jul '02	\$544,920,000
Line 9	Month of Aug '02	\$553,077,000
Line 10	Month of Sep '02	\$557,714,000
Line 11	Month of Oct '02	\$542,746,000
Line 12	Month of Nov '02	\$542,097,000
Line 13	Month of Dec '02	\$552,388,000
Line 14	Average Common Equity for the Period (sum of line 1 through line 13 divided by 13)	\$540,785,077
Line 15	25 Basis Points	0.0025
Line 16	Revenue Expansion Factor	60.4594%
Line 17	Maximum Allowed Incentive Dollars (line 14 multiplied by line 15 divided by line 16 multiplied by 1.0)	\$2,236,150
Line 18	Jurisdictional Sales (KWH)	10,265,887,000
Line 19	Total Territorial Sales (KWH)	10,622,732,000
Line 20	Jurisdictional Separation Factor (line 18 divided by line 19)	96.6407%
Line 21	Maximum Allowed Jurisdictional Incentive Dollar (line 17 multiplied by line 20)	\$2,161,031

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GPIF Unit Performance Summary

Gulf Power Company

Period of: January 2002 - December 2002

Plant & Unit	Weighting Factor %	EAF Target %	EAF Range		Max Fuel Savings (\$000)	Max Fuel Loss (\$000)
			Max %	Min %		
Crist 4	0.3%	90.9	91.7	89.6	\$17	(\$42)
Crist 6	3.1%	77.3	79.4	74.2	\$197	(\$303)
Crist 7	16.2%	79.7	82.7	75.1	\$1,020	(\$1,509)
Smith 1	1.1%	90.7	91.4	89.6	\$67	(\$116)
Smith 2	1.5%	86.6	87.4	85.3	\$94	(\$158)
Daniel 1	6.0%	88.0	90.9	83.7	\$375	(\$635)
Daniel 2	5.0%	70.7	73.0	67.3	\$315	(\$512)

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 4	2.9%	10,499	85.9	10,184	10,814	\$182	(\$182)
Crist 6	9.4%	10,546	83.0	10,230	10,862	\$594	(\$594)
Crist 7	19.7%	10,196	97.8	9,890	10,502	\$1,242	(\$1,242)
Smith 1	8.0%	10,054	95.6	9,752	10,356	\$505	(\$505)
Smith 2	8.7%	10,050	95.0	9,749	10,352	\$548	(\$548)
Daniel 1	10.0%	10,191	89.3	9,885	10,497	\$633	(\$633)
Daniel 2	8.1%	9,906	91.2	9,609	10,203	\$512	(\$512)

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: January 2002 - December 2002

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Target			Actual Performance 1st Prior Period Jul '00 - Jun '01			Actual Performance 2nd Prior Period Jul '99 - Jun '00		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Crist 4	0.3%	0.8%	0.0631	0.0280	0.0350	0.1868	0.0003	0.0004	0.0974	0.0266	0.0304
Crist 6	3.1%	9.4%	0.1588	0.0682	0.0810	0.1102	0.1580	0.1795	0.0768	0.0281	0.0305
Crist 7	16.2%	48.9%	0.1013	0.1021	0.1135	0.1224	0.0808	0.0920	0.0888	0.1072	0.1177
Smith 1	1.1%	3.2%	0.0685	0.0245	0.0263	0.0759	0.0044	0.0048	0.2058	0.0417	0.0526
Smith 2	1.5%	4.5%	0.1068	0.0275	0.0307	0.0920	0.0216	0.0237	0.0583	0.0103	0.0110
Daniel 1	6.0%	18.0%	0.0247	0.0955	0.0979	0.1153	0.0318	0.0359	0.2959	0.1352	0.1920
Daniel 2	5.0%	15.1%	0.2163	0.0765	0.0976	0.1167	0.0374	0.0424	0.2633	0.1614	0.2191
Weighted GPIF System Average:			0.1092	0.0874	0.0980	0.1168	0.0669	0.0761	0.1537	0.1058	0.1305

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: January 2002 - December 2002

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Actual Performance 3rd Prior Period Jul '98 - Jun '99			Actual Performance 4th Prior Period Jul '97 - Jun '98			Actual Performance 5th Prior Period Jul '96 - Jun '97		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Crist 4	0.3%	0.8%	0.0435	0.0512	0.0670	0.1851	0.0263	0.0392	0.0000	0.0211	0.0381
Crist 6	3.1%	9.4%	0.1549	0.0593	0.0739	0.0273	0.0363	0.0424	0.1183	0.0176	0.0236
Crist 7	16.2%	48.9%	0.0721	0.1426	0.1545	0.1595	0.0985	0.1238	0.3446	0.0518	0.0809
Smith 1	1.1%	3.2%	0.0468	0.0394	0.0413	0.0647	0.0165	0.0179	0.0602	0.0105	0.0111
Smith 2	1.5%	4.5%	0.2248	0.0547	0.0713	0.0669	0.0181	0.0197	0.0580	0.0702	0.0750
Daniel 1	6.0%	18.0%	0.1325	0.0889	0.1025	0.1143	0.0817	0.0922	0.2291	0.0649	0.0869
Daniel 2	5.0%	15.1%	0.0235	0.1221	0.1251	0.0995	0.0468	0.0519	0.2586	0.0532	0.0731
Weighted GPIF System Average:			0.0893	0.1139	0.1250	0.1228	0.0749	0.0908	0.2646	0.0504	0.0725

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Average Net Operating Heat Rate

Gulf Power Company

Period of: January 2002 - December 2002

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Heat Rate Target	1st Prior Period	2nd Prior Period	3rd Prior Period
				Heat Rate Jul '00 - Jun '01	Heat Rate Jul '99 - Jun '00	Heat Rate Jul '98 - Jun '99
Crist 4	2.9%	4.3%	10,499	10,621	10,607	10,426
Crist 6	9.4%	14.1%	10,546	10,680	10,407	10,546
Crist 7	19.7%	29.5%	10,196	10,307	10,165	10,178
Smith 1	8.0%	12.0%	10,054	10,038	10,042	10,023
Smith 2	8.7%	13.0%	10,050	10,076	10,081	10,010
Daniel 1	10.0%	15.0%	10,191	10,165	10,007	10,531
Daniel 2	8.1%	12.1%	9,906	10,078	9,954	10,028
Weighted GPIF System Average:			10,186	10,262	10,143	10,235

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Example Calculation of Prior Season

Average Net Operating Heat Rate

Adjusted to Target Basis

Crist 6 Jul '99 - Jun '00

	Jul Jan	Aug Feb	Sep Mar	Oct Apr	Nov May	Dec Jun	
1. Target Heat Rate*	10552.0 10522.0	10522.0 10502.0	10541.0 -	10609.0 10245.0	10587.0 10579.0	10561.0 10681.0	
2. Target Heat Rate at Actual Conditions**	10555.0 10695.0	10437.0 10658.0	10635.0 10646.0	10636.0 10207.0	10617.0 10567.0	10645.0 10772.0	
3. Adjustments to Actual Heat Rate (1-2)	-3.0 -173.0	85.0 -156.0	-94.0 0.0	-27.0 38.0	-30.0 12.0	-84.0 -91.0	
4. Actual Heat Rate for Prior Period	10679.0 10399.0	10286.0 10679.0	10514.0 10153.0	10636.0 10195.0	10388.0 10461.0	10127.0 10579.0	
5. Adjusted actual Heat Rate (4+3)	10676.0 10226.0	10371.0 10523.0	10420.0 10153.0	10609.0 10233.0	10358.0 10473.0	10043.0 10488.0	
6. Forecast Net MWH Generation*	180538.1 176153.5	188265.0 49869.1	165649.4 0.0	157021.2 124859.0	150232.8 162992.2	166843.9 174310.4	
7. Adjusted Actual Heat Rate for Jul '99 - Jun '00 = (Σ ((5)*(6))) / (Σ (6))							10,407

* For the January 2002 - December 2002 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 2002 - December 2002

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 4	EA-1	\$273,592	\$273,575	\$17	0.3%
Crist 4	ANOHR-1	\$273,592	\$273,410	\$182	2.9%
Crist 6	EA-1	\$273,592	\$273,395	\$197	3.1%
Crist 6	ANOHR-1	\$273,592	\$272,998	\$594	9.4%
Crist 7	EA-2	\$273,592	\$272,572	\$1,020	16.2%
Crist 7	ANOHR-2	\$273,592	\$272,350	\$1,242	19.7%
Smith 1	EA-3	\$273,592	\$273,525	\$67	1.1%
Smith 1	ANOHR-3	\$273,592	\$273,087	\$505	8.0%
Smith 2	EA-4	\$273,592	\$273,498	\$94	1.5%
Smith 2	ANOHR-4	\$273,592	\$273,044	\$548	8.7%
Daniel 1	EA-5	\$273,592	\$273,217	\$375	6.0%
Daniel 1	ANOHR-5	\$273,592	\$272,959	\$633	10.0%
Daniel 2	EA-6	\$273,592	\$273,277	\$315	5.0%
Daniel 2	ANOHR-6	\$273,592	\$273,080	\$512	8.1%

- (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 2002 - December 2002

Crist 4

Equivalent Availability Points	Fuel Savings/ Loss (\$000)	Adjusted Actual Equivalent Availability	Average Heat Rate Points	Fuel Savings/ Loss (\$000)	Adjusted Actual Heat Rate
+ 10	17	91.70	+ 10	182	10,184
+ 9	15	91.62	+ 9	164	10,208
+ 8	14	91.54	+ 8	146	10,232
+ 7	12	91.46	+ 7	127	10,256
+ 6	10	91.38	+ 6	109	10,280
+ 5	9	91.30	+ 5	91	10,304
+ 4	7	91.22	+ 4	73	10,328
+ 3	5	91.14	+ 3	55	10,352
+ 2	3	91.06	+ 2	36	10,376
+ 1	2	90.98	+ 1	18	10,400
0	0	90.90	0	0	10,424
- 1	(4)	90.77	- 1	(18)	10,499
- 2	(8)	90.64	- 2	(36)	10,574
- 3	(13)	90.51	- 3	(55)	10,598
- 4	(17)	90.38	- 4	(73)	10,622
- 5	(21)	90.25	- 5	(91)	10,646
- 6	(25)	90.12	- 6	(109)	10,670
- 7	(29)	89.99	- 7	(127)	10,694
- 8	(34)	89.86	- 8	(146)	10,718
- 9	(38)	89.73	- 9	(164)	10,742
- 10	(42)	89.60	- 10	(182)	10,766
					10,790
					10,814
Weighting Factor:		0.003	Weighting Factor:		0.029

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2002 - December 2002

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	197	79.40	+ 10	594	10,230
+ 9	177	79.19	+ 9	535	10,254
+ 8	158	78.98	+ 8	475	10,278
+ 7	138	78.77	+ 7	416	10,302
+ 6	118	78.56	+ 6	356	10,326
+ 5	99	78.35	+ 5	297	10,351
+ 4	79	78.14	+ 4	238	10,375
+ 3	59	77.93	+ 3	178	10,399
+ 2	39	77.72	+ 2	119	10,423
+ 1	20	77.51	+ 1	59	10,447
				0	10,471
0	0	77.30	0	0	10,546
				0	10,621
- 1	(30)	76.99	- 1	(59)	10,645
- 2	(61)	76.68	- 2	(119)	10,669
- 3	(91)	76.37	- 3	(178)	10,693
- 4	(121)	76.06	- 4	(238)	10,717
- 5	(152)	75.75	- 5	(297)	10,742
- 6	(182)	75.44	- 6	(356)	10,766
- 7	(212)	75.13	- 7	(416)	10,790
- 8	(242)	74.82	- 8	(475)	10,814
- 9	(273)	74.51	- 9	(535)	10,838
- 10	(303)	74.20	- 10	(594)	10,862
Weighting Factor:		0.031	Weighting Factor:		0.094

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2002 - December 2002

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	1,020	82.70	+ 10	1,242	9,890
+ 9	918	82.40	+ 9	1,118	9,913
+ 8	816	82.10	+ 8	994	9,936
+ 7	714	81.80	+ 7	869	9,959
+ 6	612	81.50	+ 6	745	9,982
+ 5	510	81.20	+ 5	621	10,006
+ 4	408	80.90	+ 4	497	10,029
+ 3	306	80.60	+ 3	373	10,052
+ 2	204	80.30	+ 2	248	10,075
+ 1	102	80.00	+ 1	124	10,098
				0	10,121
0	0	79.70	0	0	10,196
				0	10,271
- 1	(151)	79.24	- 1	(124)	10,294
- 2	(302)	78.78	- 2	(248)	10,317
- 3	(453)	78.32	- 3	(373)	10,340
- 4	(604)	77.86	- 4	(497)	10,363
- 5	(755)	77.40	- 5	(621)	10,387
- 6	(905)	76.94	- 6	(745)	10,410
- 7	(1,056)	76.48	- 7	(869)	10,433
- 8	(1,207)	76.02	- 8	(994)	10,456
- 9	(1,358)	75.56	- 9	(1,118)	10,479
- 10	(1,509)	75.10	- 10	(1,242)	10,502
Weighting Factor:		0.162	Weighting Factor:		0.197

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2002 - December 2002

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	67	91.40	+ 10	505	9,752
+ 9	60	91.33	+ 9	455	9,775
+ 8	54	91.26	+ 8	404	9,797
+ 7	47	91.19	+ 7	354	9,820
+ 6	40	91.12	+ 6	303	9,843
+ 5	34	91.05	+ 5	253	9,866
+ 4	27	90.98	+ 4	202	9,888
+ 3	20	90.91	+ 3	152	9,911
+ 2	13	90.84	+ 2	101	9,934
+ 1	7	90.77	+ 1	51	9,956
				0	9,979
0	0	90.70	0	0	10,054
				0	10,129
- 1	(12)	90.59	- 1	(51)	10,152
- 2	(23)	90.48	- 2	(101)	10,174
- 3	(35)	90.37	- 3	(152)	10,197
- 4	(46)	90.26	- 4	(202)	10,220
- 5	(58)	90.15	- 5	(253)	10,243
- 6	(70)	90.04	- 6	(303)	10,265
- 7	(81)	89.93	- 7	(354)	10,288
- 8	(93)	89.82	- 8	(404)	10,311
- 9	(104)	89.71	- 9	(455)	10,333
- 10	(116)	89.60	- 10	(505)	10,356
Weighting Factor:		0.011	Weighting Factor:		0.080

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2002 - December 2002

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	94	87.40	+ 10	548	9,749
+ 9	85	87.32	+ 9	493	9,772
+ 8	75	87.24	+ 8	438	9,794
+ 7	66	87.16	+ 7	384	9,817
+ 6	56	87.08	+ 6	329	9,839
+ 5	47	87.00	+ 5	274	9,862
+ 4	38	86.92	+ 4	219	9,885
+ 3	28	86.84	+ 3	164	9,907
+ 2	19	86.76	+ 2	110	9,930
+ 1	9	86.68	+ 1	55	9,952
				0	9,975
0	0	86.60	0	0	10,050
				0	10,125
- 1	(16)	86.47	- 1	(55)	10,148
- 2	(32)	86.34	- 2	(110)	10,170
- 3	(47)	86.21	- 3	(164)	10,193
- 4	(63)	86.08	- 4	(219)	10,216
- 5	(79)	85.95	- 5	(274)	10,239
- 6	(95)	85.82	- 6	(329)	10,261
- 7	(111)	85.69	- 7	(384)	10,284
- 8	(126)	85.56	- 8	(438)	10,307
- 9	(142)	85.43	- 9	(493)	10,329
- 10	(158)	85.30	- 10	(548)	10,352
Weighting Factor:		0.015	Weighting Factor:		0.087

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2002 - December 2002

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	375	90.90	+ 10	633	9,885
+ 9	338	90.61	+ 9	570	9,908
+ 8	300	90.32	+ 8	506	9,931
+ 7	263	90.03	+ 7	443	9,954
+ 6	225	89.74	+ 6	380	9,977
+ 5	188	89.45	+ 5	317	10,001
+ 4	150	89.16	+ 4	253	10,024
+ 3	113	88.87	+ 3	190	10,047
+ 2	75	88.58	+ 2	127	10,070
+ 1	38	88.29	+ 1	63	10,093
				0	10,116
0	0	88.00	0	0	10,191
				0	10,266
- 1	(64)	87.57	- 1	(63)	10,289
- 2	(127)	87.14	- 2	(127)	10,312
- 3	(191)	86.71	- 3	(190)	10,335
- 4	(254)	86.28	- 4	(253)	10,358
- 5	(318)	85.85	- 5	(317)	10,382
- 6	(381)	85.42	- 6	(380)	10,405
- 7	(445)	84.99	- 7	(443)	10,428
- 8	(508)	84.56	- 8	(506)	10,451
- 9	(572)	84.13	- 9	(570)	10,474
- 10	(635)	83.70	- 10	(633)	10,497
Weighting Factor:		0.060	Weighting Factor:		0.100

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2002 - December 2002

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	315	73.00	+ 10	512	9,609
+ 9	284	72.77	+ 9	461	9,631
+ 8	252	72.54	+ 8	410	9,653
+ 7	221	72.31	+ 7	358	9,676
+ 6	189	72.08	+ 6	307	9,698
+ 5	158	71.85	+ 5	256	9,720
+ 4	126	71.62	+ 4	205	9,742
+ 3	95	71.39	+ 3	154	9,764
+ 2	63	71.16	+ 2	102	9,787
+ 1	32	70.93	+ 1	51	9,809
0	0	70.70	0	0	9,831
- 1	(51)	70.36	- 1	(51)	9,906
- 2	(102)	70.02	- 2	(102)	9,981
- 3	(154)	69.68	- 3	(154)	10,003
- 4	(205)	69.34	- 4	(205)	10,025
- 5	(256)	69.00	- 5	(256)	10,048
- 6	(307)	68.66	- 6	(307)	10,070
- 7	(358)	68.32	- 7	(358)	10,092
- 8	(410)	67.98	- 8	(410)	10,114
- 9	(461)	67.64	- 9	(461)	10,136
- 10	(512)	67.30	- 10	(512)	10,159
					10,181
					10,203
Weighting Factor:		0.050	Weighting Factor:		0.081

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

CRIST 4	Jan '02	Feb '02	Mar '02	Apr '02	May '02	Jun '02	
1. EAF (%)	92.2	87.5	98.1	98.6	98.5	98.6	
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3. EUOF (%)	7.8	12.5	1.9	1.4	1.5	1.4	
4. EUOR (%)	9.7	14.6	2.0	1.8	1.5	1.6	
5. PH	744.0	672.0	744.0	719.0	744.0	720.0	
6. SH	542.0	495.0	699.0	560.0	731.0	603.0	
7. RSH	144.0	96.0	34.0	149.0	2.0	107.0	
8. UH	58.0	81.0	11.0	10.0	11.0	10.0	
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	
10. FOH & EFOH	10.0	12.0	14.0	10.0	11.0	10.0	
11. MOH & EMOH	48.0	72.0	0.0	0.0	0.0	0.0	
12. Oper MBtu	384119.0	361982.0	504390.0	374732.0	489076.0	424942.0	
13. Net Gen (MWH)	37680.9	34926.9	48611.2	35821.8	46752.3	39781.1	
14. ANOHR (Btu/KWH)	10194.0	10364.0	10376.0	10461.0	10461.0	10682.0	
15. NOF %	89.1	90.5	89.2	82.0	82.0	84.6	
16. NPC (MW)	78.0	78.0	78.0	78.0	78.0	78.0	
19. ANOHR Equation	$10^6 / AKW * [449.21 - 12.61 * JAN + 16.96 * JUN + 24.56 * JUL + 27.59 * AUG]$ $-3640 + 0.10501 * LSRF / AKW$						

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GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

CRIST 4	Jul '02	Aug '02	Sep '02	Oct '02	Nov '02	Dec '02	Total
1. EAF (%)	98.5	98.5	98.6	25.4	98.3	98.5	90.9
2. POF (%)	0.0	0.0	0.0	74.2	0.0	0.0	6.3
3. EUOF (%)	1.5	1.5	1.4	0.4	1.7	1.5	2.8
4. EUOR (%)	1.5	1.7	1.4	3.2	1.7	3.4	3.5
5. PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6. SH	717.0	653.0	691.0	91.0	676.0	311.0	6769.0
7. RSH	16.0	80.0	19.0	98.0	34.0	422.0	1201.0
8. UH	11.0	11.0	10.0	556.0	10.0	11.0	790.0
9. POH	0.0	0.0	0.0	553.0	0.0	0.0	553.0
10. FOH & EFOH	11.0	11.0	10.0	3.0	12.0	11.0	125.0
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	120.0
12. Oper MBtu	514590.0	485234.0	486150.0	59309.0	452838.0	221908.0	4759270.0
13. Net Gen (MWH)	47704.6	44995.7	46745.2	5648.5	43288.2	21366.1	453322.5
14. ANOHR (Btu/KWH)	10787.0	10784.0	10400.0	10500.0	10461.0	10386.0	10499.0
15. NOF %	85.3	88.3	86.7	79.6	82.1	88.1	85.9
16. NPC (MW)	78.0	78.0	78.0	78.0	78.0	78.0	78.0
19. ANOHR Equation	$10^6 / AKW * [449.21 - 12.61 * JAN + 16.96 * JUN + 24.56 * JUL + 27.59 * AUG]$ $- 3640 + 0.10501 * LSRF / AKW$						

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GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

CRIST 6	Jan '02	Feb '02	Mar '02	Apr '02	May '02	Jun '02	
1. EAF (%)	89.8	27.2	0.0	73.7	89.8	96.0	
2. POF (%)	0.0	71.4	100.0	23.2	0.0	0.0	
3. EUOF (%)	10.2	1.4	0.0	3.1	10.2	4.0	
4. EUOR (%)	10.2	4.7	0.0	4.0	10.2	4.0	
5. PH	744.0	672.0	744.0	719.0	744.0	720.0	
6. SH	668.0	184.0	0.0	530.0	668.0	691.0	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	76.0	488.0	744.0	189.0	76.0	29.0	
9. POH	0.0	480.0	744.0	167.0	0.0	0.0	
10. FOH & EFOH	28.0	9.0	0.0	22.0	28.0	29.0	
11. MOH & EMOH	48.0	0.0	0.0	0.0	48.0	0.0	
12. Oper MBtu	1853487.0	523725.0	0.0	1279180.0	1724294.0	1861809.0	
13. Net Gen (MWH)	176153.5	49869.1	0.0	124859.0	162992.2	174310.4	
14. ANOHR (Btu/KWH)	10522.0	10502.0	-	10245.0	10579.0	10681.0	
15. NOF %	87.3	89.7	0.0	78.0	80.8	83.5	
16. NPC (MW)	302.0	302.0	302.0	302.0	302.0	302.0	
19. ANOHR Equation	$10^6 / AKW * [187.63 - 85.12 * APR + 32.17 * JUN]$ +9,810						

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GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

CRIST 6	Jul '02	Aug '02	Sep '02	Oct '02	Nov '02	Dec '02	Total
1. EAF (%)	96.0	96.0	89.6	89.8	86.4	89.8	77.3
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	15.9
3. EUOF (%)	4.0	4.0	10.4	10.2	13.6	10.2	6.8
4. EUOR (%)	4.0	4.0	10.4	10.2	13.6	10.2	8.1
5. PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6. SH	714.0	714.0	645.0	669.0	622.0	668.0	6773.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	30.0	30.0	75.0	76.0	98.0	76.0	1987.0
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	1391.0
10. FOH & EFOH	30.0	30.0	27.0	28.0	26.0	28.0	285.0
11. MOH & EMOH	0.0	0.0	48.0	48.0	72.0	48.0	312.0
12. Oper MBtu	1905038.0	1980924.0	1746110.0	1665838.0	1590515.0	1762038.0	17892958.0
13. Net Gen (MWH)	180538.1	188265.0	165649.4	157021.2	150232.8	166843.9	1696734.6
14. ANOHR (Btu/KWH)	10552.0	10522.0	10541.0	10609.0	10587.0	10561.0	10546.0
15. NOF %	83.7	87.3	85.0	77.7	80.0	82.7	83.0
16. NPC (MW)	302.0	302.0	302.0	302.0	302.0	302.0	302.0
19. ANOHR Equation	$10^6 / AKW * [187.63 - 85.12 * APR + 32.17 * JUN]$ + 9,810						

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GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

CRIST 7	Jan '02	Feb '02	Mar '02	Apr '02	May '02	Jun '02	
1. EAF (%)	85.6	91.5	85.2	0.0	67.3	91.5	
2. POF (%)	0.0	0.0	6.5	100.0	16.1	0.0	
3. EUOF (%)	14.4	8.5	8.3	0.0	16.6	8.5	
4. EUOR (%)	14.4	8.5	8.9	0.0	19.7	8.5	
5. PH	744.0	672.0	744.0	719.0	744.0	720.0	
6. SH	637.0	615.0	637.0	0.0	505.0	659.0	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	107.0	57.0	107.0	719.0	239.0	61.0	
9. POH	0.0	0.0	48.0	719.0	120.0	0.0	
10. FOH & EFOH	59.0	57.0	62.0	0.0	51.0	61.0	
11. MOH & EMOH	48.0	0.0	0.0	0.0	72.0	0.0	
12. Oper MBtu	3041784.0	2958319.0	3066225.0	0.0	2346629.0	3123813.0	
13. Net Gen (MWH)	300037.9	291891.4	302538.2	0.0	233472.2	308038.0	
14. ANOHR (Btu/KWH)	10138.0	10135.0	10135.0	-	10051.0	10141.0	
15. NOF %	98.7	99.5	99.6	0.0	96.9	98.0	
16. NPC (MW)	477.0	477.0	477.0	477.0	477.0	477.0	
19. ANOHR Equation	$10^6 / AKW * [204.45 - 44.16 * MAY + 83.05 * JUL + 67.20 * AUG + 91.16 * SEP + 58.82 * OCT]$ + 9,704						

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GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

CRIST 7	Jul '02	Aug '02	Sep '02	Oct '02	Nov '02	Dec '02	Total
1. EAF (%)	91.5	91.5	82.4	91.5	85.4	91.5	79.7
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	10.1
3. EUOF (%)	8.5	8.5	17.6	8.5	14.6	8.5	10.2
4. EUOR (%)	8.5	8.5	17.6	8.5	14.6	8.5	11.4
5. PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6. SH	681.0	681.0	593.0	682.0	615.0	681.0	6986.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	63.0	63.0	127.0	63.0	105.0	63.0	1774.0
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	887.0
10. FOH & EFOH	63.0	63.0	55.0	63.0	57.0	63.0	654.0
11. MOH & EMOH	0.0	0.0	72.0	0.0	48.0	0.0	240.0
12. Oper MBtu	3229742.0	3275841.0	2857028.0	3193853.0	2882645.0	3266435.0	33242314.0
13. Net Gen (MWH)	312656.5	318506.7	276361.8	310625.7	284088.4	322260.8	3260477.6
14. ANOHR (Btu/KWH)	10330.0	10285.0	10338.0	10282.0	10147.0	10136.0	10196.0
15. NOF %	96.3	98.1	97.7	95.5	96.8	99.2	97.8
16. NPC (MW)	477.0	477.0	477.0	477.0	477.0	477.0	477.0
19. ANOHR Equation	$10^6 / AKW * [204.45 - 44.16 * MAY + 83.05 * JUL + 67.20 * AUG + 91.16 * SEP + 58.82 * OCT]$ + 9,704						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

	SMITH 1	Jan '02	Feb '02	Mar '02	Apr '02	May '02	Jun '02	
1.	EAF (%)	92.2	98.2	98.3	85.4	60.5	98.6	
2.	POF (%)	0.0	0.0	0.0	13.4	38.7	0.0	
3.	EUOF (%)	7.8	1.8	1.7	1.2	0.8	1.4	
4.	EUOR (%)	7.8	1.8	1.7	1.4	1.3	1.4	
5.	PH	744.0	672.0	744.0	719.0	744.0	720.0	
6.	SH	686.0	663.0	734.0	614.0	450.0	710.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	58.0	9.0	10.0	105.0	294.0	10.0	
9.	POH	0.0	0.0	0.0	96.0	288.0	0.0	
10.	FOH & EFOH	10.0	12.0	13.0	9.0	6.0	10.0	
11.	MOH & EMOH	48.0	0.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	1088493.0	1052683.0	1181273.0	941884.0	683532.0	1100975.0	
13.	Net Gen (MWH)	108071.2	105722.9	117329.5	93422.3	68366.9	109234.5	
14.	ANOHR (Btu/KWH)	10072.0	9957.0	10068.0	10082.0	9998.0	10079.0	
15.	NOF %	97.2	98.4	98.7	93.9	93.8	95.0	
16.	NPC (MW)	162.0	162.0	162.0	162.0	162.0	162.0	
19.	ANOHR Equation	$10^6 / AKW * [43.96 - 17.87 * FEB - 12.85 * MAY - 18.43 * NOV]$ + 9,793						

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GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

	SMITH 2	Jan '02	Feb '02	Mar '02	Apr '02	May '02	Jun '02	
1.	EAF (%)	97.8	90.5	3.2	97.9	97.8	97.9	
2.	POF (%)	0.0	0.0	96.8	0.0	0.0	0.0	
3.	EUOF (%)	2.2	9.5	0.0	2.1	2.2	2.1	
4.	EUOR (%)	2.2	9.5	0.0	2.1	2.2	2.1	
5.	PH	744.0	672.0	744.0	719.0	744.0	720.0	
6.	SH	728.0	611.0	24.0	704.0	728.0	705.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	16.0	61.0	720.0	15.0	16.0	15.0	
9.	POH	0.0	0.0	720.0	0.0	0.0	0.0	
10.	FOH & EFOH	16.0	16.0	0.0	15.0	16.0	15.0	
11.	MOH & EMOH	0.0	48.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	1322761.0	1117517.0	43139.0	1239351.0	1312669.0	1272012.0	
13.	Net Gen (MWH)	133450.5	113281.0	4368.5	123897.9	129993.0	125966.7	
14.	ANOHR (Btu/KWH)	9912.0	9865.0	9875.0	10003.0	10098.0	10098.0	
15.	NOF %	97.0	98.1	96.3	93.1	94.5	94.5	
16.	NPC (MW)	189.0	189.0	189.0	189.0	189.0	189.0	
19.	ANOHR Equation	$10^6 / AKW * [410.85 - 30.87 * JAN - 38.46 * FEB - 38.20 * MAR - 18.64 * APR]$ $+ 4,743 + 0.01678 * LSRF / AKW$						

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GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

	SMITH 1	Jul '02	Aug '02	Sep '02	Oct '02	Nov '02	Dec '02	Total
1.	EAF (%)	98.7	98.7	98.2	79.6	82.2	98.7	90.7
2.	POF (%)	0.0	0.0	0.0	19.3	10.0	0.0	6.8
3.	EUOF (%)	1.3	1.3	1.8	1.1	7.8	1.3	2.5
4.	EUOR (%)	1.3	1.3	1.8	1.3	8.6	1.3	2.6
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6.	SH	734.0	734.0	710.0	593.0	592.0	734.0	7954.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	10.0	10.0	10.0	152.0	128.0	10.0	806.0
9.	POH	0.0	0.0	0.0	144.0	72.0	0.0	600.0
10.	FOH & EFOH	10.0	10.0	13.0	8.0	8.0	10.0	119.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	48.0	0.0	96.0
12.	Oper MBtu	1122024.0	1149803.0	1106378.0	894358.0	897190.0	1170618.0	12389211.0
13.	Net Gen (MWH)	111278.8	114113.0	109792.4	88664.4	90070.3	116236.5	1232302.7
14.	ANOHR (Btu/KWH)	10083.0	10076.0	10077.0	10087.0	9961.0	10071.0	10054.0
15.	NOF %	93.6	96.0	95.5	92.3	93.9	97.8	95.6
16.	NPC (MW)	162.0	162.0	162.0	162.0	162.0	162.0	162.0
19.	ANOHR Equation	$10^6 / AKW * [43.96 - 17.87 * FEB - 12.85 * MAY - 18.43 * NOV]$ + 9,793						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

	SMITH 2	Jul '02	Aug '02	Sep '02	Oct '02	Nov '02	Dec '02	Total
1.	EAF (%)	97.8	97.8	97.9	97.9	65.0	97.8	86.6
2.	POF (%)	0.0	0.0	0.0	0.0	30.0	0.0	10.7
3.	EUOF (%)	2.2	2.2	2.1	2.1	5.0	2.2	2.7
4.	EUOR (%)	2.2	2.2	2.1	2.1	7.1	2.2	3.1
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6.	SH	728.0	728.0	705.0	729.0	470.0	728.0	7588.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	16.0	16.0	15.0	16.0	250.0	16.0	1172.0
9.	POH	0.0	0.0	0.0	0.0	216.0	0.0	936.0
10.	FOH & EFOH	16.0	16.0	15.0	16.0	12.0	16.0	169.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	24.0	0.0	72.0
12.	Oper MBtu	1302963.0	1326344.0	1278867.0	1282724.0	847950.0	1349001.0	13695298.0
13.	Net Gen (MWH)	128955.2	131438.3	126695.8	126789.0	83972.1	133856.0	1362664.0
14.	ANOHR (Btu/KWH)	10104.0	10091.0	10094.0	10117.0	10098.0	10078.0	10050.0
15.	NOF %	93.7	95.5	95.1	92.0	94.5	97.3	95.0
16.	NPC (MW)	189.0	189.0	189.0	189.0	189.0	189.0	189.0
19.	ANOHR Equation	$10^6 / AKW * [410.85 - 30.87 * JAN - 38.46 * FEB - 38.20 * MAR - 18.64 * APR]$ $+ 4,743 + 0.01678 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

	DANIEL 1	Jan '02	Feb '02	Mar '02	Apr '02	May '02	Jun '02	
1.	EAF (%)	74.7	72.8	92.2	80.3	92.2	92.6	
2.	POF (%)	19.4	10.7	0.0	0.0	0.0	0.0	
3.	EUOF (%)	5.9	16.5	7.8	19.7	7.8	7.4	
4.	EUOR (%)	7.3	18.5	7.8	19.7	7.8	7.4	
5.	PH	744.0	672.0	744.0	719.0	744.0	720.0	
6.	SH	556.0	489.0	689.0	577.0	689.0	667.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	188.0	183.0	55.0	142.0	55.0	53.0	
9.	POH	144.0	72.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	44.0	39.0	58.0	46.0	58.0	53.0	
11.	MOH & EMOH	0.0	72.0	0.0	96.0	0.0	0.0	
12.	Oper MBtu	2627592.0	2316466.0	3339996.0	2568009.0	3128971.0	2982018.0	
13.	Net Gen (MWH)	258417.8	233279.6	330300.2	249709.2	305354.8	300697.6	
14.	ANOHR (Btu/KWH)	10168.0	9930.0	10112.0	10284.0	10247.0	9917.0	
15.	NOF %	91.7	94.1	94.6	85.4	87.4	88.9	
16.	NPC (MW)	507.0	507.0	507.0	507.0	507.0	507.0	
19.	ANOHR Equation	$10^6 / AKW * [-429.41 - 91.37 * FEB - 136.56 * JUN + 105.89 * JUL]$ $+ 14,936 - 0.00805 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

	DANIEL 1	Jul '02	Aug '02	Sep '02	Oct '02	Nov '02	Dec '02	Total
1.	EAF (%)	92.6	92.6	92.6	92.6	92.6	86.6	88.0
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	2.5
3.	EUOF (%)	7.4	7.4	7.4	7.4	7.4	13.4	9.5
4.	EUOR (%)	7.4	7.4	7.4	7.4	7.4	13.4	9.8
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6.	SH	689.0	689.0	667.0	690.0	667.0	644.0	7713.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	55.0	55.0	53.0	55.0	53.0	100.0	1047.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	216.0
10.	FOH & EFOH	55.0	55.0	53.0	55.0	53.0	52.0	621.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	48.0	216.0
12.	Oper MBtu	3192747.0	3239658.0	3096936.0	3051759.0	3012110.0	3041664.0	35597926.0
13.	Net Gen (MWH)	304274.0	318268.8	303502.2	296431.2	293635.2	299111.4	3492982.0
14.	ANOHR (Btu/KWH)	10493.0	10179.0	10204.0	10295.0	10258.0	10169.0	10191.0
15.	NOF %	87.1	91.1	89.7	84.7	86.8	91.6	89.3
16.	NPC (MW)	507.0	507.0	507.0	507.0	507.0	507.0	507.0
19.	ANOHR Equation	$10^6 / AKW * [-429.41 - 91.37 * FEB - 136.56 * JUN + 105.89 * JUL]$ $+ 14,936 - 0.00805 * LSRF / AKW$						

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GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

	DANIEL 2	Jan '02	Feb '02	Mar '02	Apr '02	May '02	Jun '02	
1.	EAF (%)	53.8	0.0	0.0	59.1	93.0	93.2	
2.	POF (%)	41.9	100.0	100.0	23.2	0.0	0.0	
3.	EUOF (%)	4.3	0.0	0.0	17.7	7.0	6.8	
4.	EUOR (%)	7.4	0.0	0.0	23.0	7.0	6.8	
5.	PH	744.0	672.0	744.0	719.0	744.0	720.0	
6.	SH	403.0	0.0	0.0	425.0	694.0	671.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	341.0	672.0	744.0	294.0	50.0	49.0	
9.	POH	312.0	672.0	744.0	167.0	0.0	0.0	
10.	FOH & EFOH	32.0	0.0	0.0	31.0	52.0	49.0	
11.	MOH & EMOH	0.0	0.0	0.0	96.0	0.0	0.0	
12.	Oper MBtu	1924762.0	0.0	0.0	1876107.0	3198270.0	3077678.0	
13.	Net Gen (MWH)	197189.0	0.0	0.0	188705.2	318235.8	312327.8	
14.	ANOHR (Btu/KWH)	9761.0	-	-	9942.0	10050.0	9854.0	
15.	NOF %	95.9	0.0	0.0	87.1	89.9	91.3	
16.	NPC (MW)	510.0	510.0	510.0	510.0	510.0	510.0	
19.	ANOHR Equation	$10^6 / AKW * [-42.23 + 77.21 * MAY + 79.18 * JUL + 123.19 * AUG - 68.28 * NOV]$ $+ 13,010 - 0.00640 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2002 - December 2002

	DANIEL 2	Jul '02	Aug '02	Sep '02	Oct '02	Nov '02	Dec '02	Total
1.	EAF (%)	93.3	93.3	83.9	93.3	93.2	87.2	70.7
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	21.6
3.	EUOF (%)	6.7	6.7	16.1	6.7	6.8	12.8	7.7
4.	EUOR (%)	6.7	6.7	16.1	6.7	6.8	12.8	9.8
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6.	SH	694.0	694.0	604.0	695.0	671.0	649.0	6200.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	50.0	50.0	116.0	50.0	49.0	95.0	2560.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	1895.0
10.	FOH & EFOH	50.0	50.0	44.0	50.0	49.0	47.0	454.0
11.	MOH & EMOH	0.0	0.0	72.0	0.0	0.0	48.0	216.0
12.	Oper MBtu	3202431.0	3305078.0	2799936.0	3084842.0	3021600.0	3081429.0	28572133.0
13.	Net Gen (MWH)	318554.8	327592.2	284835.8	310658.8	311024.2	315268.0	2884391.6
14.	ANOHR (Btu/KWH)	10053.0	10089.0	9830.0	9930.0	9715.0	9774.0	9906.0
15.	NOF %	90.0	92.6	92.5	87.6	90.9	95.3	91.2
16.	NPC (MW)	510.0	510.0	510.0	510.0	510.0	510.0	510.0
19.	ANOHR Equation	$10^6 / AKW * [-42.23 + 77.21 * MAY + 79.18 * JUL + 123.19 * AUG - 68.28 * NOV]$ $+ 13,010 - 0.00640 * LSRF / AKW$						

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Planned Outage Schedules (Estimated)

Gulf Power Company

Period of: January 2002 - December 2002

Plant & Unit	Planned Outage Dates		Reason for Outage
Crist 4	10/05/02	- 10/27/02	Annual general boiler maintenance and inspection.
Crist 6	02/09/02	- 04/07/02	Turbine & generator overhaul and boiler inspection.
Crist 7	03/30/02	- 05/05/02	Annual general boiler maintenance and inspection.
Smith 1	04/27/02	- 05/12/02	Semi-annual general boiler maintenance and inspection.
Smith 1	10/26/02	- 11/03/02	Semi-annual general boiler maintenance and inspection.
Smith 2	03/02/02	- 03/31/02	Semi-annual general boiler maintenance and inspection.
Smith 2	11/09/02	- 11/17/02	Semi-annual general boiler maintenance and inspection.
Daniel 1	01/26/02	- 02/03/02	Annual general boiler maintenance and inspection.
Daniel 2	01/19/02	- 04/07/02	Turbine & generator overhaul and boiler inspection.

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Notes Regarding Estimated Planned Outage Schedules

Gulf Power Company

Period of: January 2002 - December 2002

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 2002 - December 2002, the outages shown below are currently planned and could be rescheduled for the target period.

Plant & Unit	Planned Outage Dates	Reason for Outage
	None	

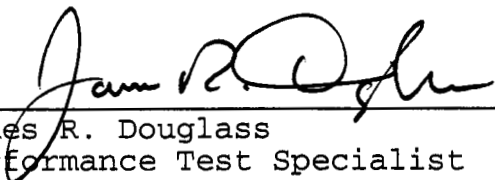
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AFFIDAVIT

STATE OF FLORIDA)
)
COUNTY OF ESCAMBIA)

Docket No. 010001-EI

Before me the undersigned authority, personally appeared James R. Douglass, 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.



James R. Douglass
Performance Test Specialist

Sworn to and subscribed before me this 18th day of September, 2001.



Notary Public, State of Florida at Large

Commission Number:
Commission Expires:

