

ORIGINAL

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

GENERATING PERFORMANCE INCENTIVE FACTOR

TARGETS FOR

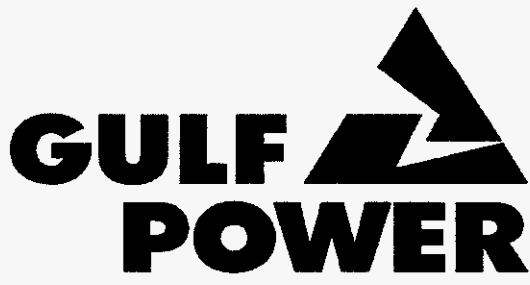
JANUARY 2001 - DECEMBER 2001

Before

THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 000001-EI

APP \_\_\_\_\_  
CAF \_\_\_\_\_  
CMP \_\_\_\_\_  
COM \_\_\_\_\_  
CTR \_\_\_\_\_  
ECR \_\_\_\_\_  
LEG \_\_\_\_\_  
OPC \_\_\_\_\_  
PAI \_\_\_\_\_  
RGO \_\_\_\_\_  
SEC \_\_\_\_\_  
SER \_\_\_\_\_  
OTH \_\_\_\_\_



**A SOUTHERN COMPANY**

DOCUMENT NUMBER-DATE

1-1859 SEP 21 8

FPSC-RECORDS/REPORTING

1 GULF POWER COMPANY  
2 Before the Florida Public Service Commission  
3 Direct Testimony of  
4 J. R. Douglass  
5 Docket No. 000001-EI  
6 Date of Filing September 21, 2000

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

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 2001 through December 31, 2001.

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 a exhibit \_\_\_\_ (JRD-2).

18

19

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

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

25

1 Q. What are the target heat rates Gulf proposes to use in  
2 the GPIF for these units for the performance period  
3 January 1, 2001 through December 31, 2001?

4 A. I would like to refer you to Page 35 of Schedule 1 of  
5 my exhibit \_\_\_\_\_ (JRD-2) where these targets are  
6 listed.

7

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

9 A. They were determined according to the GPIF  
10 implementation manual procedures for Gulf. For Plant  
11 Daniel, use of the new BTU/LB independent variable in  
12 the heat rate regression equations was continued due to  
13 variations in the heat-content of historical and  
14 projected future coal types. It is anticipated that  
15 this variable will continue to be used for Plant Daniel  
16 until such time as the prior years of historical data  
17 and following year's projected fuel types all represent  
18 reasonably consistent average heat-content. Then the  
19 BTU/LB variable will be dropped from the heat rate  
20 equation and the resulting targets would be valid for  
21 those conditions.

22

23

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

1 A. Page 2 of Schedule 1 of exhibit \_\_\_\_\_ (JRD-2) shows the  
2 target average net operating heat rate equations for  
3 the proposed GPIF units, and pages 4 through 32 of  
4 Schedule 1 contain the weekly historical data used for  
5 the statistical development of these equations.  
6 Pages 33 and 34 of Schedule 1 present the calculations  
7 which provide the unit target heat rates from the  
8 target equations.

9  
10 Q. Were the maximum and minimum attainable heat rates for  
11 each proposed GPIF unit, indicated on page 35 of  
12 Schedule 1 of exhibit \_\_\_\_\_ (JRD-2), calculated  
13 according to the appropriate GPIF implementation manual  
14 procedures?

15 A. Yes.

16  
17 Q. What are the proposed target, maximum and minimum,  
18 equivalent availabilities for Gulf's units?

19 A. The target equivalent availabilities and their ranges  
20 are listed on page 4 of Schedule 2 of exhibit  
21 \_\_\_\_\_ (JRD-2).

22  
23  
24 Q. How are these target equivalent availabilities  
25 determined?

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

5

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

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

13

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

16 A. Yes, we have completed the required data. Schedule 3  
17 of my exhibit \_\_\_\_\_ (JRD-2) contains this information.

18

19 Q. Mr. Douglass, would you please summarize your  
20 testimony?

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

22 1. Crist Units 6 and 7, Smith Units 1 and 2 and Daniel  
23 Units 1 and 2, for inclusion under the GPIF for the  
24 period of January 1, 2001 through December 31, 2001.

25



Florida Public Service Commission  
Docket No. 000001-EI  
Gulf Power Company  
Witness: J. R. Douglass  
Exhibit No. \_\_\_\_ (JRD-2)

EXHIBIT TO THE TESTIMONY OF

J. R. DOUGLASS

IN FPSC DOCKET 000001-EI



I. DETERMINATION OF HEAT RATE TARGETS

Target Heat Rate Equations

Crist 6 ANOHR =  $10^6 / AKW * [-180.36 - 38.44 * APR + 70.63 * JUL + 47.99 * AUG]$   
+ 13,880 - 0.01011 \* LSRF / AKW

Crist 7 ANOHR =  $10^6 / AKW * [246.18 + 73.74 * JUL + 42.35 * AUG + 49.08 * SEP]$   
+ 9,603

Smith 1 ANOHR =  $10^6 / AKW * [-17.71 - 11.75 * MAY + 12.64 * JUL - 14.08 * NOV]$   
+ 11,750 - 0.00985 \* LSRF / AKW

Smith 2 ANOHR =  $10^6 / AKW * [433.88 - 17.01 * MAR + 30.00 * MAY + 24.79 * JUN + 24.28 * JUL + 16.15 * AUG + 12.95 * NOV]$   
+ 3,803 + 0.02064 \* LSRF / AKW

Daniel 1 ANOHR =  $10^6 / AKW * [587.42 - 74.65 * JAN - 99.94 * FEB - 97.63 * JUN]$   
+ 10,811 +  $10^6 / AKW * [-0.0225 * BTU/LB] - 0.00302 * LSRF / AKW$

Daniel 2 ANOHR =  $10^6 / AKW * [382.08 + 55.34 * JUN + 123.15 * AUG + 59.45 * SEP]$   
+ 11,976 +  $10^6 / AKW * [-0.0390 * BTU/LB] - 0.00428 * LSRF / AKW$

Where:

- ANOHR = Average Net Operating Heat Rate, BTU/KWH
- AKW = Average Kilowatt Load, KW
- LSRF = Load Square Range Factor, KW<sup>2</sup>
- 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 6 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10883	168	208.7	50498	0	0	0	0	0	0	1	0	0	0	0	0	1997
11483	168	155.8	27723	0	0	0	0	0	0	1	0	0	0	0	0	1997
11234	168	162.4	30227	0	0	0	0	0	0	1	0	0	0	0	0	1997
10901	168	213.4	50938	0	0	0	0	0	0	1	0	0	0	0	0	1997
10871	168	178.9	37117	0	0	0	0	0	0	0	1	0	0	0	0	1997
11006	168	173.3	34804	0	0	0	0	0	0	0	1	0	0	0	0	1997
10539	168	222.2	54505	0	0	0	0	0	0	0	1	0	0	0	0	1997
10554	168	208.3	49645	0	0	0	0	0	0	0	1	0	0	0	0	1997
10616	168	201.2	48706	0	0	0	0	0	0	0	1	0	0	0	0	1997
10560	168	212.0	52281	0	0	0	0	0	0	0	0	1	0	0	0	1997
10516	117	213.7	53660	0	0	0	0	0	0	0	0	1	0	0	1	1997
10373	165	228.3	58801	0	0	0	0	0	0	0	0	1	0	0	0	1997
10831	168	179.8	37447	0	0	0	0	0	0	0	0	1	0	0	0	1997
10574	18	195.0	45296	0	0	0	0	0	0	0	0	1	0	0	0	1997
10415	75	219.5	54886	0	0	0	0	0	0	0	0	0	1	0	1	1997
10684	168	202.9	46288	0	0	0	0	0	0	0	0	0	1	0	0	1997
10679	70	163.2	28695	0	0	0	0	0	0	0	0	0	1	0	0	1997
11436	110	165.1	32220	0	0	0	0	0	0	0	0	0	0	0	1	1997
10680	168	235.3	61294	0	0	0	0	0	0	0	0	0	0	0	0	1997
10914	76	198.9	45226	0	0	0	0	0	0	0	0	0	0	0	0	1997
11744	99	144.8	22986	0	0	0	0	0	0	0	0	0	0	0	1	1997
11279	15	123.8	16118	1	0	0	0	0	0	0	0	0	0	0	0	1998
10939	149	218.3	53383	1	0	0	0	0	0	0	0	0	0	0	1	1998
10810	168	234.2	59691	1	0	0	0	0	0	0	0	0	0	0	0	1998
11037	168	197.0	43142	1	0	0	0	0	0	0	0	0	0	0	0	1998
11229	168	176.4	33936	1	0	0	0	0	0	0	0	0	0	0	0	1998
10657	168	194.9	41264	0	1	0	0	0	0	0	0	0	0	0	0	1998
10613	168	186.6	39179	0	1	0	0	0	0	0	0	0	0	0	0	1998
10371	168	209.4	49823	0	1	0	0	0	0	0	0	0	0	0	0	1998
10391	168	205.0	47809	0	1	0	0	0	0	0	0	0	0	0	0	1998
10660	168	243.4	64790	0	0	1	0	0	0	0	0	0	0	0	0	1998
10641	168	229.5	57861	0	0	1	0	0	0	0	0	0	0	0	0	1998
10663	168	202.6	45698	0	0	1	0	0	0	0	0	0	0	0	0	1998
10528	168	237.0	61359	0	0	1	0	0	0	0	0	0	0	0	0	1998
10518	167	227.6	57539	0	0	0	1	0	0	0	0	0	0	0	0	1998
10647	168	209.9	49267	0	0	0	1	0	0	0	0	0	0	0	0	1998
10477	69	259.9	71446	0	0	0	1	0	0	0	0	0	0	0	0	1998
12942	13	126.4	16689	0	0	0	1	0	0	0	0	0	0	0	1	1998
10573	168	213.4	50470	0	0	0	0	1	0	0	0	0	0	0	0	1998
10411	168	234.8	60425	0	0	0	0	1	0	0	0	0	0	0	0	1998
10331	168	251.2	67786	0	0	0	0	1	0	0	0	0	0	0	0	1998
10457	168	251.3	67734	0	0	0	0	1	0	0	0	0	0	0	0	1998
10719	135	239.4	63743	0	0	0	0	1	0	0	0	0	0	0	1	1998
10496	168	231.8	58700	0	0	0	0	0	1	0	0	0	0	0	0	1998
10690	168	253.5	68465	0	0	0	0	0	1	0	0	0	0	0	0	1998
10669	134	241.0	63971	0	0	0	0	0	1	0	0	0	0	0	1	1998
10545	146	233.9	60446	0	0	0	0	0	1	0	0	0	0	0	0	1998

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	68163	0	0	0	0	0	0	1	0	0	0	0	0	1998
10678	168	251.3	67749	0	0	0	0	0	0	1	0	0	0	0	0	1998
10792	154	264.0	76427	0	0	0	0	0	0	1	0	0	0	0	0	1998
10770	168	246.8	67200	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	78098	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	67114	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	73209	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	89765	0	0	0	0	0	0	1	0	0	0	0	0	1999
10595	168	300.5	90310	0	0	0	0	0	0	0	1	0	0	0	0	1999
10195	168	297.1	88925	0	0	0	0	0	0	0	1	0	0	0	0	1999
10331	165	295.3	88359	0	0	0	0	0	0	0	1	0	0	0	0	1999
10244	168	301.3	90777	0	0	0	0	0	0	0	1	0	0	0	0	1999
10300	168	300.6	90369	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	65782	0	0	0	0	0	0	0	0	0	1	0	0	1999
10666	168	248.1	66807	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	69974	0	0	0	0	0	0	0	0	0	1	0	0	1999
10275	168	259.9	71366	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	74224	0	0	0	0	0	0	0	0	0	0	0	0	1999
10021	168	246.7	67710	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	74683	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	70277	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	72986	0	0	1	0	0	0	0	0	0	0	0	0	2000
10035	168	258.7	71018	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	82216	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	71335	0	0	0	1	0	0	0	0	0	0	0	0	2000
10136	168	257.6	70336	0	0	0	1	0	0	0	0	0	0	0	0	2000
10256	168	254.7	68604	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	LSRP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10429	168	255.1	70439	0	0	0	0	1	0	0	0	0	0	0	0	2000
10534	168	249.6	66875	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	65951	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

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.

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 MW<sup>2</sup>.

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
10735	166	358.9	149824	0	0	0	0	0	0	1	0	0	0	0	0	1997
10429	168	369.2	156851	0	0	0	0	0	0	1	0	0	0	0	0	1997
10577	168	355.0	145792	0	0	0	0	0	0	1	0	0	0	0	0	1997
10732	168	380.6	162265	0	0	0	0	0	0	1	0	0	0	0	0	1997
10625	122	320.7	126085	0	0	0	0	0	0	0	1	0	0	0	1	1997
10620	122	330.2	131125	0	0	0	0	0	0	0	1	0	0	0	1	1997
10238	168	415.8	185966	0	0	0	0	0	0	0	1	0	0	0	0	1997
9999	168	397.6	175594	0	0	0	0	0	0	0	1	0	0	0	0	1997
10221	168	379.3	163604	0	0	0	0	0	0	0	1	0	0	0	0	1997
10206	168	401.5	179966	0	0	0	0	0	0	0	0	1	0	0	0	1997
10357	150	390.5	173153	0	0	0	0	0	0	0	0	1	0	0	0	1997
9976	163	430.0	197475	0	0	0	0	0	0	0	0	1	0	0	0	1997
10263	168	374.6	156330	0	0	0	0	0	0	0	0	1	0	0	0	1997
10417	24	334.4	123221	0	0	0	0	0	0	0	0	1	0	0	0	1997
10440	118	345.6	133677	0	0	0	0	0	0	0	0	0	1	0	0	1997
10239	134	400.8	181371	0	0	0	0	0	0	0	0	0	1	0	1	1997
10008	168	364.4	153316	0	0	0	0	0	0	0	0	0	1	0	0	1997
10379	141	367.8	157382	0	0	0	0	0	0	0	0	0	1	0	1	1997
10247	157	361.1	150359	0	0	0	0	0	0	0	0	0	0	1	0	1997
10458	146	300.7	105465	0	0	0	0	0	0	0	0	0	0	1	0	1997
10188	168	388.9	165016	0	0	0	0	0	0	0	0	0	0	1	0	1997
10473	168	336.0	128873	0	0	0	0	0	0	0	0	0	0	1	0	1997
10049	29	311.7	112901	0	0	0	0	0	0	0	0	0	0	1	0	1997
10769	107	261.7	79032	0	0	0	0	0	0	0	0	0	0	0	1	1997
10556	128	244.5	74051	0	0	0	0	0	0	0	0	0	0	0	1	1997
10466	168	329.8	123668	1	0	0	0	0	0	0	0	0	0	0	0	1998
11493	33	257.6	74980	1	0	0	0	0	0	0	0	0	0	0	1	1998
10440	159	359.1	136046	1	0	0	0	0	0	0	0	0	0	0	1	1998
10384	168	402.8	173393	1	0	0	0	0	0	0	0	0	0	0	0	1998
10104	168	387.7	161630	1	0	0	0	0	0	0	0	0	0	0	0	1998
10019	168	414.7	180515	0	1	0	0	0	0	0	0	0	0	0	0	1998
10188	39	339.7	132661	0	1	0	0	0	0	0	0	0	0	0	0	1998
11457	25	245.6	70590	0	0	1	0	0	0	0	0	0	0	0	1	1998
10153	168	393.6	163232	0	0	1	0	0	0	0	0	0	0	0	0	1998
9963	168	436.7	198894	0	0	1	0	0	0	0	0	0	0	0	0	1998
10057	168	459.6	214840	0	0	1	0	0	0	0	0	0	0	0	0	1998
10013	167	457.4	213621	0	0	0	1	0	0	0	0	0	0	0	0	1998
10259	168	441.5	201502	0	0	0	1	0	0	0	0	0	0	0	0	1998
10252	146	464.8	220552	0	0	0	1	0	0	0	0	0	0	0	0	1998
10397	168	441.8	201211	0	0	0	1	0	0	0	0	0	0	0	0	1998
10497	168	436.2	199312	0	0	0	0	1	0	0	0	0	0	0	0	1998
10446	154	442.2	202421	0	0	0	0	1	0	0	0	0	0	0	0	1998
10410	168	470.0	222286	0	0	0	0	1	0	0	0	0	0	0	0	1998
10631	168	472.1	224105	0	0	0	0	1	0	0	0	0	0	0	0	1998
10666	168	433.7	195373	0	0	0	0	1	0	0	0	0	0	0	0	1998
10630	41	421.6	187752	0	0	0	0	0	1	0	0	0	0	0	0	1998
10428	152	433.6	198362	0	0	0	0	0	1	0	0	0	0	0	1	1998

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
9922	168	435.8	198747	0	0	0	0	0	1	0	0	0	0	0	0	1998
10099	150	433.5	196430	0	0	0	0	0	1	0	0	0	0	0	0	1998
10090	168	429.6	192940	0	0	0	0	0	0	1	0	0	0	0	0	1998
10129	168	453.5	211263	0	0	0	0	0	0	1	0	0	0	0	0	1998
10200	168	430.3	194368	0	0	0	0	0	0	1	0	0	0	0	0	1998
10194	137	432.6	199913	0	0	0	0	0	0	1	0	0	0	0	1	1998
10243	168	435.1	197499	0	0	0	0	0	0	0	1	0	0	0	0	1998
10349	145	420.9	187767	0	0	0	0	0	0	0	1	0	0	0	0	1998
10351	95	389.8	167965	0	0	0	0	0	0	0	1	0	0	0	1	1998
10428	148	413.3	183622	0	0	0	0	0	0	0	1	0	0	0	1	1998
10385	121	445.5	203668	0	0	0	0	0	0	0	1	0	0	0	1	1998
10342	168	373.4	148411	0	0	0	0	0	0	0	0	1	0	0	0	1998
10531	90	359.1	145734	0	0	0	0	0	0	0	0	1	0	0	2	1998
10263	168	399.5	173690	0	0	0	0	0	0	0	0	1	0	0	0	1998
10316	168	443.2	202248	0	0	0	0	0	0	0	0	1	0	0	0	1998
11002	24	466.9	219085	0	0	0	0	0	0	0	0	1	0	0	0	1998
10321	168	426.4	187324	0	0	0	0	0	0	0	0	0	1	0	0	1998
10540	168	352.6	135320	0	0	0	0	0	0	0	0	0	1	0	0	1998
9952	48	402.1	175689	0	0	0	0	0	0	0	0	0	1	0	0	1998
10493	83	347.9	133782	0	0	0	0	0	0	0	0	0	1	0	1	1998
10368	168	396.8	171079	0	0	0	0	0	0	0	0	0	0	1	0	1998
10547	62	338.4	133558	0	0	0	0	0	0	0	0	0	0	1	2	1998
10218	168	415.9	182964	0	0	0	0	0	0	0	0	0	0	1	0	1998
10195	168	406.4	179027	0	0	0	0	0	0	0	0	0	0	1	0	1998
10037	168	386.5	162154	0	0	0	0	0	0	0	0	0	0	1	0	1998
10235	168	376.1	162539	0	0	0	0	0	0	0	0	0	0	0	0	1998
10056	168	419.7	186978	0	0	0	0	0	0	0	0	0	0	0	0	1998
10129	168	408.7	177678	0	0	0	0	0	0	0	0	0	0	0	0	1998
10114	168	353.6	137664	0	0	0	0	0	0	0	0	0	0	0	0	1998
10104	24	486.8	237146	0	0	0	0	1	0	0	0	0	0	0	0	1998
10185	165	396.2	167502	1	0	0	0	0	0	0	0	0	0	0	0	1999
10322	115	363.3	143630	1	0	0	0	0	0	0	0	0	0	0	1	1999
10299	168	319.3	110896	1	0	0	0	0	0	0	0	0	0	0	0	1999
10226	168	338.1	124012	1	0	0	0	0	0	0	0	0	0	0	0	1999
10146	24	306.3	105374	0	1	0	0	0	0	0	0	0	0	0	0	1999
10792	77	386.7	162144	0	1	0	0	0	0	0	0	0	0	0	1	1999
10273	168	351.9	132504	0	0	1	0	0	0	0	0	0	0	0	0	1999
10069	168	446.9	204598	0	0	1	0	0	0	0	0	0	0	0	0	1999
10312	168	424.8	187757	0	0	1	0	0	0	0	0	0	0	0	0	1999
10405	79	400.0	174708	0	0	1	0	0	0	0	0	0	0	0	2	1999
10063	168	450.7	208403	0	0	1	0	0	0	0	0	0	0	0	0	1999
10404	105	403.1	176277	0	0	0	1	0	0	0	0	0	0	0	1	1999
10074	168	477.5	228760	0	0	0	1	0	0	0	0	0	0	0	0	1999
10061	141	454.7	211982	0	0	0	1	0	0	0	0	0	0	0	1	1999
10217	121	423.3	186336	0	0	0	1	0	0	0	0	0	0	0	1	1999
10186	168	421.1	184591	0	0	0	0	1	0	0	0	0	0	0	0	1999
10177	168	380.4	156625	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
10165	168	396.4	167147	0	0	0	0	1	0	0	0	0	0	0	0	1999
10299	168	415.0	178822	0	0	0	0	1	0	0	0	0	0	0	0	1999
10225	168	395.5	165707	0	0	0	0	1	0	0	0	0	0	0	0	1999
9330	153	392.4	164114	0	0	0	0	0	1	0	0	0	0	0	0	1999
10280	156	415.2	178337	0	0	0	0	0	1	0	0	0	0	0	0	1999
10263	103	393.6	169047	0	0	0	0	0	1	0	0	0	0	0	2	1999
10217	144	441.9	197479	0	0	0	0	0	1	0	0	0	0	0	0	1999
10394	168	448.4	203697	0	0	0	0	0	0	1	0	0	0	0	0	1999
10515	168	449.6	205234	0	0	0	0	0	0	1	0	0	0	0	0	1999
10459	168	446.6	202738	0	0	0	0	0	0	1	0	0	0	0	0	1999
10216	168	429.2	191428	0	0	0	0	0	0	1	0	0	0	0	0	1999
10481	127	420.2	186326	0	0	0	0	0	0	0	1	0	0	0	1	1999
10240	168	451.2	205178	0	0	0	0	0	0	0	1	0	0	0	0	1999
10200	168	467.0	218072	0	0	0	0	0	0	0	1	0	0	0	0	1999
10184	152	456.6	209721	0	0	0	0	0	0	0	1	0	0	0	0	1999
10511	122	404.8	174893	0	0	0	0	0	0	0	1	0	0	0	1	1999
10236	168	447.8	202976	0	0	0	0	0	0	0	0	1	0	0	0	1999
10251	168	433.0	192124	0	0	0	0	0	0	0	0	1	0	0	0	1999
10298	168	396.0	166788	0	0	0	0	0	0	0	0	1	0	0	0	1999
10283	168	423.5	186720	0	0	0	0	0	0	0	0	1	0	0	0	1999
10379	168	423.9	185339	0	0	0	0	0	0	0	0	0	1	0	0	1999
10498	168	434.9	192996	0	0	0	0	0	0	0	0	0	1	0	0	1999
10664	112	380.3	158054	0	0	0	0	0	0	0	0	0	1	0	1	1999
10335	168	412.5	177248	0	0	0	0	0	0	0	0	0	1	0	0	1999
10201	153	432.7	191471	0	0	0	0	0	0	0	0	0	1	0	0	1999
10083	168	440.9	197211	0	0	0	0	0	0	0	0	0	0	1	0	1999
10318	168	421.9	184227	0	0	0	0	0	0	0	0	0	0	1	0	1999
10180	168	425.1	188152	0	0	0	0	0	0	0	0	0	0	1	0	1999
10200	168	379.0	151681	0	0	0	0	0	0	0	0	0	0	1	0	1999
10118	167	437.7	197744	0	0	0	0	0	0	0	0	0	0	0	0	1999
10390	114	414.0	180620	0	0	0	0	0	0	0	0	0	0	0	1	1999
10236	168	444.7	199871	0	0	0	0	0	0	0	0	0	0	0	0	1999
10120	107	386.2	158559	0	0	0	0	0	0	0	0	0	0	0	1	1999
10183	24	347.4	130890	0	0	0	0	0	0	0	0	0	0	0	0	1999
9948	168	381.4	155829	1	0	0	0	0	0	0	0	0	0	0	0	2000
10124	54	370.5	153572	1	0	0	0	0	0	0	0	0	0	0	1	2000
10142	168	422.1	186550	1	0	0	0	0	0	0	0	0	0	0	1	2000
9872	150	452.0	206348	1	0	0	0	0	0	0	0	0	0	0	0	2000
10111	152	455.2	210397	0	1	0	0	0	0	0	0	0	0	0	1	2000
10112	132	444.5	203462	0	1	0	0	0	0	0	0	0	0	0	1	2000
10250	168	439.3	196090	0	1	0	0	0	0	0	0	0	0	0	0	2000
10509	34	357.8	135454	0	1	0	0	0	0	0	0	0	0	0	0	2000
10006	82	380.2	160571	0	0	0	1	0	0	0	0	0	0	0	1	2000
9976	168	467.2	219483	0	0	0	1	0	0	0	0	0	0	0	0	2000
9745	147	439.5	200480	0	0	0	0	1	0	0	0	0	0	0	0	2000
9770	168	465.4	217825	0	0	0	0	1	0	0	0	0	0	0	0	2000
9863	112	434.7	196444	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
9873	168	468.6	220231	0	0	0	0	1	0	0	0	0	0	0	0	2000
10150	117	415.0	181008	0	0	0	0	1	0	0	0	0	0	0	1	2000
10082	168	421.8	185073	0	0	0	0	0	1	0	0	0	0	0	0	2000
10229	168	443.1	200928	0	0	0	0	0	1	0	0	0	0	0	0	2000
10306	168	431.4	191321	0	0	0	0	0	1	0	0	0	0	0	0	2000
10324	168	427.2	189547	0	0	0	0	0	1	0	0	0	0	0	0	2000

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 MW<sup>2</sup>.

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
10387	142	136.3	19820	0	0	0	0	0	0	1	0	0	0	0	1	1997
10361	168	141.5	20848	0	0	0	0	0	0	1	0	0	0	0	0	1997
10397	168	141.0	20741	0	0	0	0	0	0	1	0	0	0	0	0	1997
10358	168	151.0	23090	0	0	0	0	0	0	1	0	0	0	0	0	1997
10238	168	138.6	20323	0	0	0	0	0	0	0	1	0	0	0	0	1997
10255	168	138.5	20207	0	0	0	0	0	0	0	1	0	0	0	0	1997
10138	100	152.2	23372	0	0	0	0	0	0	0	1	0	0	0	0	1997
10577	78	120.5	16586	0	0	0	0	0	0	0	1	0	0	0	1	1997
10229	168	140.6	20642	0	0	0	0	0	0	0	1	0	0	0	0	1997
10196	168	139.8	20585	0	0	0	0	0	0	0	0	1	0	0	0	1997
10153	168	147.3	22330	0	0	0	0	0	0	0	0	1	0	0	0	1997
10130	168	156.6	24597	0	0	0	0	0	0	0	0	1	0	0	0	1997
10235	168	146.3	22121	0	0	0	0	0	0	0	0	1	0	0	0	1997
10272	24	142.3	21214	0	0	0	0	0	0	0	0	1	0	0	0	1997
10223	168	142.5	21190	0	0	0	0	0	0	0	0	0	1	0	0	1997
10170	168	151.8	23239	0	0	0	0	0	0	0	0	0	1	0	0	1997
10208	168	138.4	20265	0	0	0	0	0	0	0	0	0	1	0	0	1997
10245	73	137.2	20080	0	0	0	0	0	0	0	0	0	1	0	0	1997
10494	71	129.5	18433	0	0	0	0	0	0	0	0	0	0	1	1	1997
10367	168	98.3	10150	0	0	0	0	0	0	0	0	0	0	1	0	1997
10312	168	117.4	14886	0	0	0	0	0	0	0	0	0	0	1	0	1997
10299	168	146.4	21916	0	0	0	0	0	0	0	0	0	0	1	0	1997
10255	168	126.1	17284	0	0	0	0	0	0	0	0	0	0	1	0	1997
10401	168	146.0	21998	0	0	0	0	0	0	0	0	0	0	0	0	1997
10227	168	147.3	22270	0	0	0	0	0	0	0	0	0	0	0	0	1997
10264	168	141.6	21028	0	0	0	0	0	0	0	0	0	0	0	0	1997
10338	168	116.5	15378	0	0	0	0	0	0	0	0	0	0	0	0	1997
10233	168	122.2	16298	1	0	0	0	0	0	0	0	0	0	0	0	1998
10227	168	130.0	18360	1	0	0	0	0	0	0	0	0	0	0	0	1998
10300	168	134.8	19185	1	0	0	0	0	0	0	0	0	0	0	0	1998
10470	168	131.5	18355	1	0	0	0	0	0	0	0	0	0	0	0	1998
10559	168	127.4	17502	1	0	0	0	0	0	0	0	0	0	0	0	1998
10423	168	137.9	19903	0	1	0	0	0	0	0	0	0	0	0	0	1998
10391	168	117.8	15442	0	1	0	0	0	0	0	0	0	0	0	0	1998
10357	168	125.5	17185	0	1	0	0	0	0	0	0	0	0	0	0	1998
10419	168	118.2	15750	0	1	0	0	0	0	0	0	0	0	0	0	1998
10512	145	130.7	18853	0	0	1	0	0	0	0	0	0	0	0	1	1998
10311	168	140.3	20615	0	0	1	0	0	0	0	0	0	0	0	0	1998
10236	168	140.0	20604	0	0	1	0	0	0	0	0	0	0	0	0	1998
10208	168	139.4	20476	0	0	1	0	0	0	0	0	0	0	0	0	1998
10183	167	149.0	22661	0	0	0	1	0	0	0	0	0	0	0	0	1998
10224	168	136.1	19721	0	0	0	1	0	0	0	0	0	0	0	0	1998
10218	168	148.2	22450	0	0	0	1	0	0	0	0	0	0	0	0	1998
10154	168	137.2	20007	0	0	0	1	0	0	0	0	0	0	0	0	1998
10002	168	153.2	23707	0	0	0	0	1	0	0	0	0	0	0	0	1998
10357	168	155.1	24120	0	0	0	0	1	0	0	0	0	0	0	0	1998
10320	168	155.5	24210	0	0	0	0	1	0	0	0	0	0	0	0	1998

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
10276	168	153.6	23705	0	0	0	0	1	0	0	0	0	0	0	0	1998
10306	168	152.9	23514	0	0	0	0	1	0	0	0	0	0	0	0	1998
10160	25	145.5	22061	0	0	0	0	0	1	0	0	0	0	0	0	1998
10386	95	150.5	23182	0	0	0	0	0	1	0	0	0	0	0	1	1998
10161	168	155.0	24113	0	0	0	0	0	1	0	0	0	0	0	0	1998
10047	168	156.4	24505	0	0	0	0	0	1	0	0	0	0	0	0	1998
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

Data Base for SMITH 1 Target Heat Rate Equation

HR	HOURL	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
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
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



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
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
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

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 MW<sup>2</sup>.

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
10354	168	155.2	26245	0	0	0	0	0	0	1	0	0	0	0	0	1997
10237	168	156.6	26434	0	0	0	0	0	0	1	0	0	0	0	0	1997
10255	168	155.5	26141	0	0	0	0	0	0	1	0	0	0	0	0	1997
10200	168	168.9	29484	0	0	0	0	0	0	1	0	0	0	0	0	1997
10125	168	154.5	25964	0	0	0	0	0	0	0	1	0	0	0	0	1997
10151	168	152.3	25448	0	0	0	0	0	0	0	1	0	0	0	0	1997
10116	145	168.6	29387	0	0	0	0	0	0	0	1	0	0	0	0	1997
10164	168	165.8	29050	0	0	0	0	0	0	0	1	0	0	0	0	1997
10103	168	156.9	26571	0	0	0	0	0	0	0	1	0	0	0	0	1997
10020	168	156.1	26573	0	0	0	0	0	0	0	0	1	0	0	0	1997
10067	96	160.7	27555	0	0	0	0	0	0	0	0	1	0	0	0	1997
10085	92	176.8	31862	0	0	0	0	0	0	0	0	1	0	0	1	1997
9996	168	166.0	28953	0	0	0	0	0	0	0	0	1	0	0	0	1997
9842	24	163.4	28585	0	0	0	0	0	0	0	0	1	0	0	0	1997
9986	168	162.1	28097	0	0	0	0	0	0	0	0	0	1	0	0	1997
9939	168	173.4	30564	0	0	0	0	0	0	0	0	0	1	0	0	1997
9978	168	155.4	26152	0	0	0	0	0	0	0	0	0	1	0	0	1997
10114	169	162.9	28099	0	0	0	0	0	0	0	0	0	1	0	0	1997
10141	168	155.3	25961	0	0	0	0	0	0	0	0	0	0	1	0	1997
10156	145	157.5	26660	0	0	0	0	0	0	0	0	0	0	1	0	1997
9958	168	172.2	30675	0	0	0	0	0	0	0	0	0	0	1	0	1997
10024	168	168.5	29506	0	0	0	0	0	0	0	0	0	0	1	0	1997
10081	168	136.5	21002	0	0	0	0	0	0	0	0	0	0	1	0	1997
10181	134	167.5	29827	0	0	0	0	0	0	0	0	0	0	0	1	1997
10100	137	167.9	29694	0	0	0	0	0	0	0	0	0	0	0	0	1997
10079	118	153.7	26164	0	0	0	0	0	0	0	0	0	0	0	1	1997
10189	95	131.5	20649	0	0	0	0	0	0	0	0	0	0	0	1	1997
10068	168	148.8	24665	1	0	0	0	0	0	0	0	0	0	0	0	1998
10135	139	147.9	23646	1	0	0	0	0	0	0	0	0	0	0	1	1998
10120	168	158.0	26116	1	0	0	0	0	0	0	0	0	0	0	0	1998
10056	168	175.2	30765	1	0	0	0	0	0	0	0	0	0	0	0	1998
10332	168	174.7	31139	1	0	0	0	0	0	0	0	0	0	0	0	1998
10198	168	173.4	30473	0	1	0	0	0	0	0	0	0	0	0	0	1998
9919	168	170.1	29092	0	1	0	0	0	0	0	0	0	0	0	0	1998
9951	168	166.8	28540	0	1	0	0	0	0	0	0	0	0	0	0	1998
10026	70	162.9	28013	0	1	0	0	0	0	0	0	0	0	0	0	1998
13989	21	81.1	9097	0	0	0	0	1	0	0	0	0	0	0	2	1998
10568	93	132.1	20017	0	0	0	0	1	0	0	0	0	0	0	1	1998
10166	46	177.0	32284	0	0	0	0	1	0	0	0	0	0	0	0	1998
10333	66	149.3	26043	0	0	0	0	1	0	0	0	0	0	0	1	1998
9934	168	187.5	35192	0	0	0	0	0	1	0	0	0	0	0	0	1998
* 1000	168	188.5	35654	0	0	0	0	0	1	0	0	0	0	0	0	1998
10092	168	187.4	35145	0	0	0	0	0	1	0	0	0	0	0	0	1998
9964	168	182.9	33905	0	0	0	0	0	1	0	0	0	0	0	0	1998
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

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
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
10041	24	184.6	34106	0	0	0	0	1	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
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

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
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
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

Data Base for SMITH 2 Target Heat Rate Equation

HR	HOURL	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
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

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 MW<sup>2</sup>.

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
10645	168	399.0	164401	0	0	0	0	0	0	1	0	0	0	0	0	1997	9280
10789	86	377.8	151678	0	0	0	0	0	0	1	0	0	0	0	1	1997	9215
10640	168	369.9	140828	0	0	0	0	0	0	1	0	0	0	0	0	1997	8999
10793	168	392.2	155125	0	0	0	0	0	0	1	0	0	0	0	0	1997	9243
10790	168	362.9	137430	0	0	0	0	0	0	0	1	0	0	0	0	1997	9215
10776	135	379.1	148806	0	0	0	0	0	0	0	1	0	0	0	1	1997	9260
10639	168	413.0	170854	0	0	0	0	0	0	0	1	0	0	0	0	1997	9286
10793	123	372.2	148539	0	0	0	0	0	0	0	1	0	0	0	1	1997	9264
10553	168	383.2	152292	0	0	0	0	0	0	0	1	0	0	0	0	1997	9239
10792	131	355.6	137302	0	0	0	0	0	0	0	0	1	0	0	1	1997	9300
10597	168	368.0	142684	0	0	0	0	0	0	0	0	1	0	0	0	1997	9310
10713	139	377.5	148203	0	0	0	0	0	0	0	0	1	0	0	1	1997	9374
10696	168	363.3	138521	0	0	0	0	0	0	0	0	1	0	0	0	1997	9261
10736	24	353.8	133462	0	0	0	0	0	0	0	0	1	0	0	0	1997	9290
10617	168	373.7	143155	0	0	0	0	0	0	0	0	0	1	0	0	1997	9498
10677	83	333.2	112028	0	0	0	0	0	0	0	0	0	1	0	0	1997	9670
10705	68	339.6	127450	0	0	0	0	0	0	0	0	0	1	0	1	1997	9325
10624	146	378.7	151108	0	0	0	0	0	0	0	0	0	1	0	0	1997	9244
10830	167	373.9	148544	0	0	0	0	0	0	0	0	0	0	1	0	1997	9522
10466	124	397.9	166774	0	0	0	0	0	0	0	0	0	0	1	1	1997	9217
10378	168	417.1	177825	0	0	0	0	0	0	0	0	0	0	1	0	1997	9194
10464	153	394.9	164220	0	0	0	0	0	0	0	0	0	0	1	0	1997	9259
10529	168	351.9	134096	0	0	0	0	0	0	0	0	0	0	1	0	1997	9064
10528	168	393.4	159933	0	0	0	0	0	0	0	0	0	0	0	0	1997	9199
10550	168	400.6	164575	0	0	0	0	0	0	0	0	0	0	0	0	1997	9397
10692	100	372.1	144588	0	0	0	0	0	0	0	0	0	0	0	1	1997	9317
10735	168	315.3	110914	0	0	0	0	0	0	0	0	0	0	0	0	1997	9317
10799	168	287.3	94698	1	0	0	0	0	0	0	0	0	0	0	0	1998	9276
10771	168	326.6	115282	1	0	0	0	0	0	0	0	0	0	0	0	1998	9001
10342	168	375.4	147535	1	0	0	0	0	0	0	0	0	0	0	0	1998	9205
10600	168	346.2	126688	1	0	0	0	0	0	0	0	0	0	0	0	1998	9073
10607	168	337.6	122720	1	0	0	0	0	0	0	0	0	0	0	0	1998	9204
10499	72	374.8	146150	0	1	0	0	0	0	0	0	0	0	0	0	1998	9138
10465	128	314.7	111832	0	0	1	0	0	0	0	0	0	0	0	1	1998	9192
10495	168	389.3	163543	0	0	1	0	0	0	0	0	0	0	0	0	1998	9462
10420	167	399.6	171579	0	0	0	1	0	0	0	0	0	0	0	0	1998	9375
10633	105	377.5	158113	0	0	0	1	0	0	0	0	0	0	0	1	1998	9471
10424	137	412.8	180808	0	0	0	1	0	0	0	0	0	0	0	1	1998	9469
10349	168	391.4	166654	0	0	0	1	0	0	0	0	0	0	0	0	1998	9391
10442	168	389.9	161435	0	0	0	0	1	0	0	0	0	0	0	0	1998	9081
10346	168	388.4	160734	0	0	0	0	1	0	0	0	0	0	0	0	1998	9221
10347	168	430.6	190386	0	0	0	0	1	0	0	0	0	0	0	0	1998	9371
* 10359	168	419.1	182107	0	0	0	0	1	0	0	0	0	0	0	0	1998	9317
10393	168	413.0	179030	0	0	0	0	1	0	0	0	0	0	0	0	1998	9202
10546	168	395.9	168440	0	0	0	0	0	1	0	0	0	0	0	0	1998	9330
10454	168	419.1	179076	0	0	0	0	0	1	0	0	0	0	0	0	1998	9214
10560	168	386.7	155511	0	0	0	0	0	1	0	0	0	0	0	0	1998	9210



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
10645	168	378.2	152447	0	0	0	0	0	1	0	0	0	0	0	0	1998	9271
10495	168	395.3	162966	0	0	0	0	0	0	1	0	0	0	0	0	1998	9242
10506	168	387.5	155026	0	0	0	0	0	0	1	0	0	0	0	0	1998	9202
10884	93	319.0	120254	0	0	0	0	0	0	1	0	0	0	0	1	1998	9201
10353	168	419.8	182219	0	0	0	0	0	0	1	0	0	0	0	0	1998	9233
10517	168	414.4	177742	0	0	0	0	0	0	0	1	0	0	0	0	1998	9179
10388	168	418.6	182475	0	0	0	0	0	0	0	1	0	0	0	0	1998	9414
10434	168	399.3	167610	0	0	0	0	0	0	0	1	0	0	0	0	1998	9334
10436	168	431.3	192513	0	0	0	0	0	0	0	1	0	0	0	0	1998	9278
10443	168	450.6	206282	0	0	0	0	0	0	0	1	0	0	0	0	1998	9265
10404	168	436.3	191456	0	0	0	0	0	0	0	0	1	0	0	0	1998	9260
10336	70	426.9	187317	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	111013	1	0	0	0	0	0	0	0	0	0	0	1	1999	9239
10581	128	356.3	138612	1	0	0	0	0	0	0	0	0	0	0	1	1999	9346
10629	100	357.9	140625	1	0	0	0	0	0	0	0	0	0	0	1	1999	9242
10630	168	395.3	166677	0	1	0	0	0	0	0	0	0	0	0	0	1999	9715
10291	161	304.6	107931	0	1	0	0	0	0	0	0	0	0	0	0	1999	11273
10211	168	386.1	155644	0	1	0	0	0	0	0	0	0	0	0	0	1999	10468
10188	159	390.1	162981	0	1	0	0	0	0	0	0	0	0	0	0	1999	10168
10325	168	362.1	136961	0	0	1	0	0	0	0	0	0	0	0	0	1999	9970
10519	130	431.9	191684	0	0	1	0	0	0	0	0	0	0	0	1	1999	9644
10219	168	450.0	204247	0	0	1	0	0	0	0	0	0	0	0	0	1999	9264
10264	156	435.2	193515	0	0	1	0	0	0	0	0	0	0	0	0	1999	9398
10648	51	392.3	171439	0	0	1	0	0	0	0	0	0	0	0	2	1999	9333
10306	24	441.0	201118	0	0	0	1	0	0	0	0	0	0	0	0	1999	9263
10554	127	329.5	113008	0	0	0	1	0	0	0	0	0	0	0	1	1999	9320
10157	168	457.2	209956	0	0	0	1	0	0	0	0	0	0	0	0	1999	9321
10319	168	451.7	206474	0	0	0	1	0	0	0	0	0	0	0	0	1999	9353
10874	127	356.5	135479	0	0	0	0	1	0	0	0	0	0	0	1	1999	9819
10750	148	387.9	163672	0	0	0	0	1	0	0	0	0	0	0	0	1999	9932
9925	168	388.6	170667	0	0	0	0	1	0	0	0	0	0	0	0	1999	11148
10369	150	409.5	184361	0	0	0	0	1	0	0	0	0	0	0	0	1999	11325
10681	168	366.8	153244	0	0	0	0	1	0	0	0	0	0	0	0	1999	11256
10087	168	417.5	187770	0	0	0	0	0	1	0	0	0	0	0	0	1999	11009
9819	168	427.1	193747	0	0	0	0	0	1	0	0	0	0	0	0	1999	10644
9997	168	417.3	189676	0	0	0	0	0	1	0	0	0	0	0	0	1999	10698
9617	144	439.4	200007	0	0	0	0	0	1	0	0	0	0	0	0	1999	10207
10303	168	420.6	192943	0	0	0	0	0	0	1	0	0	0	0	0	1999	10808
9844	168	459.6	219473	0	0	0	0	0	0	1	0	0	0	0	0	1999	10382
10195	168	444.6	207029	0	0	0	0	0	0	1	0	0	0	0	0	1999	10815
10179	168	480.5	235210	0	0	0	0	0	0	1	0	0	0	0	0	1999	10887
10205	168	507.1	257308	0	0	0	0	0	0	0	1	0	0	0	0	1999	10988
9669	168	503.7	253949	0	0	0	0	0	0	0	1	0	0	0	0	1999	10428
9846	168	488.2	242071	0	0	0	0	0	0	0	1	0	0	0	0	1999	10633
10292	168	466.7	224687	0	0	0	0	0	0	0	1	0	0	0	0	1999	11079
10353	168	441.5	205603	0	0	0	0	0	0	0	1	0	0	0	0	1999	10972

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
10152	168	428.9	197718	0	0	0	0	0	0	0	0	1	0	0	0	1999	10679
10091	168	454.4	213759	0	0	0	0	0	0	0	0	1	0	0	0	1999	10845
11280	47	336.5	132125	0	0	0	0	0	0	0	0	1	0	0	0	1999	11679
12890	14	258.9	81115	0	0	0	0	0	0	0	0	1	0	0	2	1999	9366
10187	168	444.9	200599	0	0	0	0	0	0	0	0	0	1	0	0	1999	9294
10731	168	451.4	205378	0	0	0	0	0	0	0	0	0	1	0	0	1999	9417
9999	168	464.7	216536	0	0	0	0	0	0	0	0	0	1	0	0	1999	9259
10041	168	459.2	211878	0	0	0	0	0	0	0	0	0	1	0	0	1999	9340
10306	169	461.1	214036	0	0	0	0	0	0	0	0	0	1	0	0	1999	9347
10403	168	470.1	221383	0	0	0	0	0	0	0	0	0	0	1	0	1999	9333
10729	168	459.0	213044	0	0	0	0	0	0	0	0	0	0	1	0	1999	9799
10390	122	451.6	208359	0	0	0	0	0	0	0	0	0	0	1	0	1999	9344
10269	97	411.6	181930	0	0	0	0	0	0	0	0	0	0	1	1	1999	9305
10095	168	453.7	208334	0	0	0	0	0	0	0	0	0	0	0	0	1999	9276
9869	119	448.8	205705	0	0	0	0	0	0	0	0	0	0	0	0	1999	9202
11114	139	413.5	180114	0	0	0	0	0	0	0	0	0	0	0	1	1999	9246
10609	168	400.7	169045	0	0	0	0	0	0	0	0	0	0	0	0	1999	9340
* 7108	24	360.4	135247	0	0	0	0	0	0	0	0	0	0	0	0	1999	9214
10884	168	294.4	103271	1	0	0	0	0	0	0	0	0	0	0	0	2000	9276
10474	168	346.7	133466	1	0	0	0	0	0	0	0	0	0	0	0	2000	9110
10609	168	325.4	119198	1	0	0	0	0	0	0	0	0	0	0	0	2000	9262
10453	168	381.2	155626	1	0	0	0	0	0	0	0	0	0	0	0	2000	9231
10223	168	405.4	171040	0	1	0	0	0	0	0	0	0	0	0	0	2000	9190
10371	168	436.5	197034	0	1	0	0	0	0	0	0	0	0	0	0	2000	9586
10236	168	381.1	161252	0	1	0	0	0	0	0	0	0	0	0	0	2000	9160
10256	168	396.0	169978	0	1	0	0	0	0	0	0	0	0	0	0	2000	9206
9573	167	426.9	190508	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	180403	0	0	0	1	0	0	0	0	0	0	0	1	2000	11466
10238	167	451.1	214722	0	0	0	1	0	0	0	0	0	0	0	0	2000	11535
10316	168	359.9	147782	0	0	0	0	1	0	0	0	0	0	0	0	2000	11287
10056	130	422.4	192405	0	0	0	0	1	0	0	0	0	0	0	0	2000	11292
10326	53	457.3	220035	0	0	0	0	1	0	0	0	0	0	0	1	2000	11397
10019	139	450.8	213204	0	0	0	0	1	0	0	0	0	0	0	1	2000	11372
10100	168	376.3	163475	0	0	0	0	1	0	0	0	0	0	0	0	2000	11352
10113	168	369.8	160992	0	0	0	0	0	1	0	0	0	0	0	0	2000	11300
10027	168	403.0	181020	0	0	0	0	0	1	0	0	0	0	0	0	2000	11239
9939	168	399.0	182302	0	0	0	0	0	1	0	0	0	0	0	0	2000	11127
9594	168	489.1	242736	0	0	0	0	0	1	0	0	0	0	0	0	2000	10526
10428	24	378.2	163545	0	0	0	0	1	0	0	0	0	0	0	0	2000	11493

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.

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 MW<sup>2</sup>.

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.

BTU/LB Average heat content of coal burned by the unit for the week.

\* 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
10349	91	420.8	183395	0	0	0	0	0	0	1	0	0	0	0	0	1997	9268
10312	166	434.5	194546	0	0	0	0	0	0	1	0	0	0	0	1	1997	9240
10313	168	411.7	172947	0	0	0	0	0	0	1	0	0	0	0	0	1997	8996
10480	168	424.5	181953	0	0	0	0	0	0	1	0	0	0	0	0	1997	9243
10453	168	411.2	176328	0	0	0	0	0	0	0	1	0	0	0	0	1997	9217
10361	168	427.4	186660	0	0	0	0	0	0	0	1	0	0	0	0	1997	9266
10399	168	463.1	214743	0	0	0	0	0	0	0	1	0	0	0	0	1997	9286
10363	168	440.8	199395	0	0	0	0	0	0	0	1	0	0	0	0	1997	9263
10373	168	426.4	187242	0	0	0	0	0	0	0	1	0	0	0	0	1997	9243
10397	168	400.8	170577	0	0	0	0	0	0	0	0	1	0	0	0	1997	9299
10345	168	421.1	183222	0	0	0	0	0	0	0	0	1	0	0	0	1997	9310
10359	168	450.0	203364	0	0	0	0	0	0	0	0	1	0	0	0	1997	9382
10315	168	429.3	188643	0	0	0	0	0	0	0	0	1	0	0	0	1997	9261
10263	24	417.8	180295	0	0	0	0	0	0	0	0	1	0	0	0	1997	9290
10019	41	394.4	161330	0	0	0	0	0	0	0	0	0	1	0	0	1997	10369
9942	89	434.7	194442	0	0	0	0	0	0	0	0	0	1	0	1	1997	9208
10188	131	395.4	169441	0	0	0	0	0	0	0	0	0	1	0	1	1997	9324
10071	169	446.0	203560	0	0	0	0	0	0	0	0	0	1	0	0	1997	9248
10504	113	436.2	196652	0	0	0	0	0	0	0	0	0	0	1	1	1997	9600
10024	168	427.8	187364	0	0	0	0	0	0	0	0	0	0	1	0	1997	9227
10196	168	400.4	162773	0	0	0	0	0	0	0	0	0	0	1	0	1997	9187
10198	168	462.1	214160	0	0	0	0	0	0	0	0	0	0	1	0	1997	9267
10212	168	435.5	191599	0	0	0	0	0	0	0	0	0	0	1	0	1997	9060
10235	168	451.6	205337	0	0	0	0	0	0	0	0	0	0	0	0	1997	9198
10188	168	456.8	209735	0	0	0	0	0	0	0	0	0	0	0	0	1997	9396
10088	168	445.5	200240	0	0	0	0	0	0	0	0	0	0	0	0	1997	9334
10245	168	364.8	143680	0	0	0	0	0	0	0	0	0	0	0	0	1997	9313
10048	168	396.4	158780	1	0	0	0	0	0	0	0	0	0	0	0	1998	9286
10252	168	405.1	164789	1	0	0	0	0	0	0	0	0	0	0	0	1998	9002
9909	73	390.5	155669	1	0	0	0	0	0	0	0	0	0	0	0	1998	9025
10314	139	393.6	165512	1	0	0	0	0	0	0	0	0	0	0	1	1998	9097
10148	168	445.2	200722	1	0	0	0	0	0	0	0	0	0	0	0	1998	9202
10120	168	442.4	197540	0	1	0	0	0	0	0	0	0	0	0	0	1998	9218
10217	168	415.6	179355	0	1	0	0	0	0	0	0	0	0	0	0	1998	9306
10148	168	413.6	177315	0	1	0	0	0	0	0	0	0	0	0	0	1998	9238
10088	168	389.3	156584	0	1	0	0	0	0	0	0	0	0	0	0	1998	9278
10119	168	409.2	171606	0	0	1	0	0	0	0	0	0	0	0	0	1998	9244
10290	168	434.4	194187	0	0	1	0	0	0	0	0	0	0	0	0	1998	9163
10132	168	405.1	169019	0	0	1	0	0	0	0	0	0	0	0	0	1998	9210
10453	72	351.2	124232	0	0	1	0	0	0	0	0	0	0	0	0	1998	9430
10269	114	400.8	168990	0	0	0	1	0	0	0	0	0	0	0	1	1998	9524
10125	168	436.4	194730	0	0	0	1	0	0	0	0	0	0	0	0	1998	9442
10138	168	395.7	158239	0	0	0	1	0	0	0	0	0	0	0	0	1998	9394
10213	168	390.7	153419	0	0	0	0	1	0	0	0	0	0	0	0	1998	9085
10158	148	393.3	159343	0	0	0	0	1	0	0	0	0	0	0	0	1998	9215
10184	168	430.4	186464	0	0	0	0	1	0	0	0	0	0	0	0	1998	9370
10224	168	435.2	189543	0	0	0	0	1	0	0	0	0	0	0	0	1998	9316

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
10305	168	432.0	187895	0	0	0	0	1	0	0	0	0	0	0	0	1998	9204
10425	87	399.8	167702	0	0	0	0	0	1	0	0	0	0	0	0	1998	9292
10342	165	421.7	181454	0	0	0	0	0	1	0	0	0	0	0	1	1998	9214
10349	168	427.7	182916	0	0	0	0	0	1	0	0	0	0	0	0	1998	9211
10410	168	426.1	181563	0	0	0	0	0	1	0	0	0	0	0	0	1998	9273
10438	168	423.3	181757	0	0	0	0	0	0	1	0	0	0	0	0	1998	9240
10452	168	427.4	182908	0	0	0	0	0	0	1	0	0	0	0	0	1998	9195
10608	168	409.2	167847	0	0	0	0	0	0	1	0	0	0	0	0	1998	9248
10556	168	414.6	171942	0	0	0	0	0	0	1	0	0	0	0	0	1998	9231
10866	108	387.2	155449	0	0	0	0	0	0	0	1	0	0	0	1	1998	9131
10491	168	420.9	177529	0	0	0	0	0	0	0	1	0	0	0	0	1998	9416
10480	168	420.9	178419	0	0	0	0	0	0	0	1	0	0	0	0	1998	9334
10600	130	402.7	168249	0	0	0	0	0	0	0	1	0	0	0	1	1998	9270
10567	168	408.1	167617	0	0	0	0	0	0	0	1	0	0	0	0	1998	9264
10531	90	390.8	158478	0	0	0	0	0	0	0	0	1	0	0	1	1998	9240
10440	168	395.3	160731	0	0	0	0	0	0	0	0	1	0	0	0	1998	9115
10511	168	405.4	164564	0	0	0	0	0	0	0	0	1	0	0	0	1998	9056
10536	139	394.9	158357	0	0	0	0	0	0	0	0	1	0	0	0	1998	9071
10518	123	396.4	159575	0	0	0	0	0	0	0	0	0	1	0	1	1998	9097
10551	137	371.1	142962	0	0	0	0	0	0	0	0	0	1	0	1	1998	8964
10572	140	362.8	139324	0	0	0	0	0	0	0	0	0	1	0	1	1998	9358
10413	124	343.5	125942	0	0	0	0	0	0	0	0	0	1	0	1	1998	9290
10645	168	317.4	110032	0	0	0	0	0	0	0	0	0	0	1	0	1998	9361
10438	49	335.9	120644	0	0	0	0	0	0	0	0	0	0	1	0	1998	9389
11007	67	275.3	77553	0	0	0	0	0	0	0	0	0	0	1	1	1998	9113
10555	168	296.0	89935	0	0	0	0	0	0	0	0	0	0	0	0	1998	9177
10304	163	359.7	131387	0	0	0	0	0	0	0	0	0	0	0	0	1998	9189
10730	110	304.6	99675	0	0	0	0	0	0	0	0	0	0	0	1	1998	9192
10355	168	347.0	121339	0	0	0	0	0	0	0	0	0	0	0	0	1998	9261
10352	24	359.1	129028	0	0	0	0	1	0	0	0	0	0	0	0	1998	9353
10406	168	357.0	128039	1	0	0	0	0	0	0	0	0	0	0	0	1999	9257
10549	168	330.6	112360	1	0	0	0	0	0	0	0	0	0	0	0	1999	9222
10617	168	320.2	105824	1	0	0	0	0	0	0	0	0	0	0	0	1999	9357
10889	128	296.9	93406	1	0	0	0	0	0	0	0	0	0	0	1	1999	9238
10699	168	334.9	112730	0	1	0	0	0	0	0	0	0	0	0	0	1999	9242
11053	22	326.9	110789	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	119199	0	0	0	1	0	0	0	0	0	0	0	1	1999	9341
9932	168	466.4	222080	0	0	0	0	1	0	0	0	0	0	0	0	1999	10168
9437	168	434.9	201923	0	0	0	0	1	0	0	0	0	0	0	0	1999	10765
10317	168	406.1	183509	0	0	0	0	1	0	0	0	0	0	0	0	1999	11341
10392	123	396.7	175868	0	0	0	0	1	0	0	0	0	0	0	1	1999	11367
10478	168	405.9	182081	0	0	0	0	1	0	0	0	0	0	0	0	1999	11262
10115	168	413.4	186080	0	0	0	0	0	1	0	0	0	0	0	0	1999	11006
10033	157	390.1	169872	0	0	0	0	0	1	0	0	0	0	0	0	1999	10642
9966	168	407.2	183960	0	0	0	0	0	1	0	0	0	0	0	0	1999	10698
9563	144	435.9	198496	0	0	0	0	0	1	0	0	0	0	0	0	1999	10209

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
10126	168	406.8	182294	0	0	0	0	0	0	1	0	0	0	0	0	1999	10810
9807	120	411.9	187370	0	0	0	0	0	0	1	0	0	0	0	1	1999	10435
9693	168	427.7	194056	0	0	0	0	0	0	1	0	0	0	0	0	1999	10875
9846	168	478.1	232155	0	0	0	0	0	0	1	0	0	0	0	0	1999	10885
10216	130	452.5	213520	0	0	0	0	0	0	0	1	0	0	0	1	1999	10960
9816	168	495.4	246300	0	0	0	0	0	0	0	1	0	0	0	0	1999	10432
10003	168	457.7	217135	0	0	0	0	0	0	0	1	0	0	0	0	1999	10639
10223	168	441.4	205105	0	0	0	0	0	0	0	1	0	0	0	0	1999	10826
10462	168	434.5	200358	0	0	0	0	0	0	0	1	0	0	0	0	1999	10972
10092	143	392.2	170208	0	0	0	0	0	0	0	0	1	0	0	0	1999	10566
10077	126	432.4	197948	0	0	0	0	0	0	0	0	1	0	0	1	1999	10579
9953	168	406.2	183217	0	0	0	0	0	0	0	0	1	0	0	0	1999	11708
9960	168	430.6	197171	0	0	0	0	0	0	0	0	1	0	0	0	1999	10677
10094	168	447.3	203412	0	0	0	0	0	0	0	0	0	1	0	0	1999	9293
10684	168	457.3	209738	0	0	0	0	0	0	0	0	0	1	0	0	1999	9422
9983	168	452.6	207010	0	0	0	0	0	0	0	0	0	1	0	0	1999	9259
9959	168	451.8	206027	0	0	0	0	0	0	0	0	0	1	0	0	1999	9340
10065	169	460.1	213205	0	0	0	0	0	0	0	0	0	1	0	0	1999	9347
10167	168	394.4	162809	0	0	0	0	0	0	0	0	0	0	1	0	1999	9662
9495	119	457.7	218640	0	0	0	0	0	0	0	0	0	0	1	0	1999	9866
9892	128	439.5	202365	0	0	0	0	0	0	0	0	0	0	1	1	1999	9308
10261	168	414.8	176979	0	0	0	0	0	0	0	0	0	0	1	0	1999	9303
9879	168	438.1	193979	0	0	0	0	0	0	0	0	0	0	0	0	1999	9266
11030	168	440.7	201128	0	0	0	0	0	0	0	0	0	0	0	0	1999	9162
9434	168	403.4	173701	0	0	0	0	0	0	0	0	0	0	0	0	1999	9247
10549	168	377.1	151771	0	0	0	0	0	0	0	0	0	0	0	0	1999	9332
11033	24	330.2	115857	0	0	0	0	0	0	0	0	0	0	0	0	1999	9214
11086	133	250.9	75790	1	0	0	0	0	0	0	0	0	0	0	1	2000	9278
10381	168	322.0	116085	1	0	0	0	0	0	0	0	0	0	0	0	2000	9109
10650	168	291.8	97408	1	0	0	0	0	0	0	0	0	0	0	0	2000	9259
10311	168	363.2	143476	1	0	0	0	0	0	0	0	0	0	0	0	2000	9231
10148	168	409.9	174848	0	1	0	0	0	0	0	0	0	0	0	0	2000	10468
9560	167	407.5	178706	0	1	0	0	0	0	0	0	0	0	0	0	2000	10597
10850	168	367.4	152729	0	1	0	0	0	0	0	0	0	0	0	0	2000	9158
9877	168	385.0	163071	0	1	0	0	0	0	0	0	0	0	0	0	2000	9204
9971	168	428.5	191140	0	1	0	0	0	0	0	0	0	0	0	0	2000	9072
10012	168	459.3	212779	0	0	1	0	0	0	0	0	0	0	0	0	2000	8987
9989	168	467.9	219500	0	0	1	0	0	0	0	0	0	0	0	0	2000	9058
9985	168	411.1	178890	0	0	1	0	0	0	0	0	0	0	0	0	2000	9007
# 9995	154	445.5	211709	0	0	0	1	0	0	0	0	0	0	0	1	2000	11198
# 9961	168	469.6	227427	0	0	0	1	0	0	0	0	0	0	0	0	2000	11415
# 10039	168	482.9	235904	0	0	0	1	0	0	0	0	0	0	0	0	2000	11521
# 9861	168	455.4	216564	0	0	0	0	1	0	0	0	0	0	0	0	2000	11291
# 9993	168	465.1	223146	0	0	0	0	1	0	0	0	0	0	0	0	2000	11297
# 9868	168	463.0	222000	0	0	0	0	1	0	0	0	0	0	0	0	2000	11422
# 9980	168	472.9	228237	0	0	0	0	1	0	0	0	0	0	0	0	2000	11387
# 10191	168	391.1	174259	0	0	0	0	1	0	0	0	0	0	0	0	2000	11351

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
# 10167	168	384.5	170182	0	0	0	0	0	1	0	0	0	0	0	0	2000	11299
# 10154	168	394.5	174183	0	0	0	0	0	1	0	0	0	0	0	0	2000	11239
* 11352	168	380.7	166898	0	0	0	0	0	1	0	0	0	0	0	0	2000	11118
* 9003	168	381.2	163826	0	0	0	0	0	1	0	0	0	0	0	0	2000	10513
# 10776	24	354.8	151030	0	0	0	0	1	0	0	0	0	0	0	0	2000	11493

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 MW<sup>2</sup>.

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.

BTU/LB Average heat content of coal burned by the unit for the week.

\* Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

# Indicates data points removed from the analysis of the target heat rate equation because they were considered to be non representative of expected future performance due to unusual coal quality issues and resulting unit operational issues that are not expected to recur with the coal supplies planned for 2001.



Calculation of  
Target Average Net Operating Heat Rates  
for January 2001 - December 2001

Unit	Month	(1)	(2)	(3)	(4)	(5)
		Forecast AKW * 10 <sup>3</sup>	Forecast LSRF * 10 <sup>6</sup>	Forecast Monthly ANOHR	Forecast AKW * 10 <sup>3</sup> Generation	Weighted ANOHR Target
CRIST 6	Jan '01	212.5	50,856	10,612	153,030	
	Feb '01	266.0	74,669	10,364	160,390	
	Mar '01	249.9	67,374	10,433	52,220	
	Apr '01	0.0	0	-	0	
	May '01	232.1	59,438	10,514	86,100	
	Jun '01	248.6	66,790	10,438	173,060	
	Jul '01	257.4	70,759	10,674	185,310	
	Aug '01	248.2	66,610	10,633	178,710	
	Sep '01	247.8	66,430	10,442	172,450	
	Oct '01	271.0	76,958	10,343	188,880	
	Nov '01	259.8	71,847	10,390	180,820	
	Dec '01	201.3	46,027	10,672	144,940	10,502
CRIST 7	Jan '01	406.2	176,158	10,209	44,280	
	Feb '01	461.8	215,442	10,136	30,020	
	Mar '01	459.0	213,431	10,139	290,550	
	Apr '01	465.0	217,744	10,132	304,100	
	May '01	433.5	195,277	10,171	264,880	
	Jun '01	447.4	205,137	10,153	293,020	
	Jul '01	454.4	210,135	10,307	307,610	
	Aug '01	440.7	200,374	10,258	298,380	
	Sep '01	447.0	204,852	10,264	292,780	
	Oct '01	472.2	222,940	10,124	320,170	
	Nov '01	465.4	218,032	10,132	284,350	
	Dec '01	443.6	202,433	10,158	300,320	10,184
SMITH 1	Jan '01	141.6	20,866	10,173	103,490	
	Feb '01	157.7	24,959	10,079	104,110	
	Mar '01	153.0	23,724	10,107	111,840	
	Apr '01	153.9	23,958	10,101	65,120	
	May '01	142.4	21,060	10,086	60,380	
	Jun '01	149.6	22,851	10,127	105,790	
	Jul '01	152.7	23,646	10,191	111,600	
	Aug '01	148.0	22,446	10,136	108,200	
	Sep '01	149.4	22,800	10,128	94,550	
	Oct '01	159.1	25,334	10,070	90,190	
	Nov '01	156.4	24,614	9,996	110,600	
	Dec '01	147.3	22,271	10,140	107,660	10,113

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 2001 - December 2001

Unit	Month	(1)	(2)	(3)	(4)	(5)	(6)
		Forecast AKW * 10 <sup>3</sup>	Forecast LSRF * 10 <sup>6</sup>	Forecast BTU/LB	Forecast Monthly ANOHR	Forecast AKW * 10 <sup>3</sup> Generation	Weighted ANOHR Target
SMITH 2	Jan '01	156.1	26,298	-	10,059	112,070	
	Feb '01	181.5	33,281	-	9,978	109,440	
	Mar '01	174.6	31,324	-	9,893	36,500	
	Apr '01	177.7	32,198	-	9,984	119,220	
	May '01	163.4	28,243	-	10,209	117,340	
	Jun '01	168.5	29,632	-	10,154	117,120	
	Jul '01	173.5	31,017	-	10,133	124,590	
	Aug '01	166.5	29,084	-	10,111	119,540	
	Sep '01	168.6	29,659	-	10,007	117,200	
	Oct '01	182.3	33,511	-	9,977	131,070	
	Nov '01	176.9	31,972	-	10,059	86,160	
	Dec '01	163.9	28,378	-	10,024	117,650	10,058
DANIEL 1	Jan '01	390.6	162,370	11,508	10,208	139,060	
	Feb '01	0.0	0	11,655	-	0	
	Mar '01	458.7	215,467	11,746	10,099	275,220	
	Apr '01	476.0	230,038	11,801	10,030	295,580	
	May '01	432.4	194,156	11,785	10,203	268,980	
	Jun '01	449.5	207,897	11,799	9,916	299,820	
	Jul '01	463.9	219,801	11,793	10,077	319,600	
	Aug '01	449.3	207,734	11,793	10,134	309,600	
	Sep '01	450.7	208,878	11,865	10,125	300,620	
	Oct '01	491.7	243,640	11,920	9,966	317,140	
	Nov '01	480.1	233,555	11,880	10,011	309,200	
	Dec '01	422.0	186,009	11,902	10,240	140,540	10,075
DANIEL 2	Jan '01	410.8	175,256	11,508	9,988	286,300	
	Feb '01	487.6	239,027	11,655	9,730	307,160	
	Mar '01	464.4	218,952	11,746	9,795	198,320	
	Apr '01	479.6	232,025	11,801	9,743	237,420	
	May '01	432.1	192,172	11,785	9,894	281,760	
	Jun '01	452.4	208,844	11,799	9,951	305,380	
	Jul '01	465.4	219,803	11,793	9,788	324,400	
	Aug '01	451.6	208,176	11,793	10,104	314,760	
	Sep '01	445.7	203,282	11,865	9,977	140,380	
	Oct '01	277.8	83,015	11,920	10,398	25,280	
	Nov '01	485.4	237,093	11,880	9,719	250,940	
	Dec '01	444.8	202,539	11,902	9,843	310,000	9,872

NOTE: Column (4) monthly ANOHR's are determined using the values from columns (1) and (2) in the target ANOHR equation on page 2 of Schedule 1.

Column (6)  $(\sum ((4) * (5))) / (\sum (5))$

Summary of Target, Maximum, and Minimum  
Average Net Operating Heat Rates  
for January 2001 - December 2001

Unit	Target Heat Rate BTU/KWH (0 Points)	Minimum Attainable Heat Rate (+ 10 Points)	Maximum Attainable Heat Rate (- 10 Points)
CRIST 6	10,502	10,187	10,817
CRIST 7	10,184	9,878	10,490
SMITH 1	10,113	9,810	10,416
SMITH 2	10,058	9,756	10,360
DANIEL 1	10,075	9,773	10,377
DANIEL 2	9,872	9,576	10,168

II. DETERMINATION OF EQUIVALENT AVAILABILITY TARGETS

Calculation of  
Target Equivalent Availabilities  
for January 2001 - December 2001

Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR *	Planned Outage Hours for Jan '01 - Dec '01	Reserve Shutdown Hours for Jan '01 - Dec '01	Target Equivalent Availability **
Crist 6	0.0498	1,559	0	78.1
Crist 7	0.1113	1,224	0	76.4
Smith 1	0.0275	768	0	88.7
Smith 2	0.0409	768	0	87.5
Daniel 1	0.1081	1,440	0	74.5
Daniel 2	0.1037	1,415	0	75.2

\* For Period July 1995 Through June 2000.

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

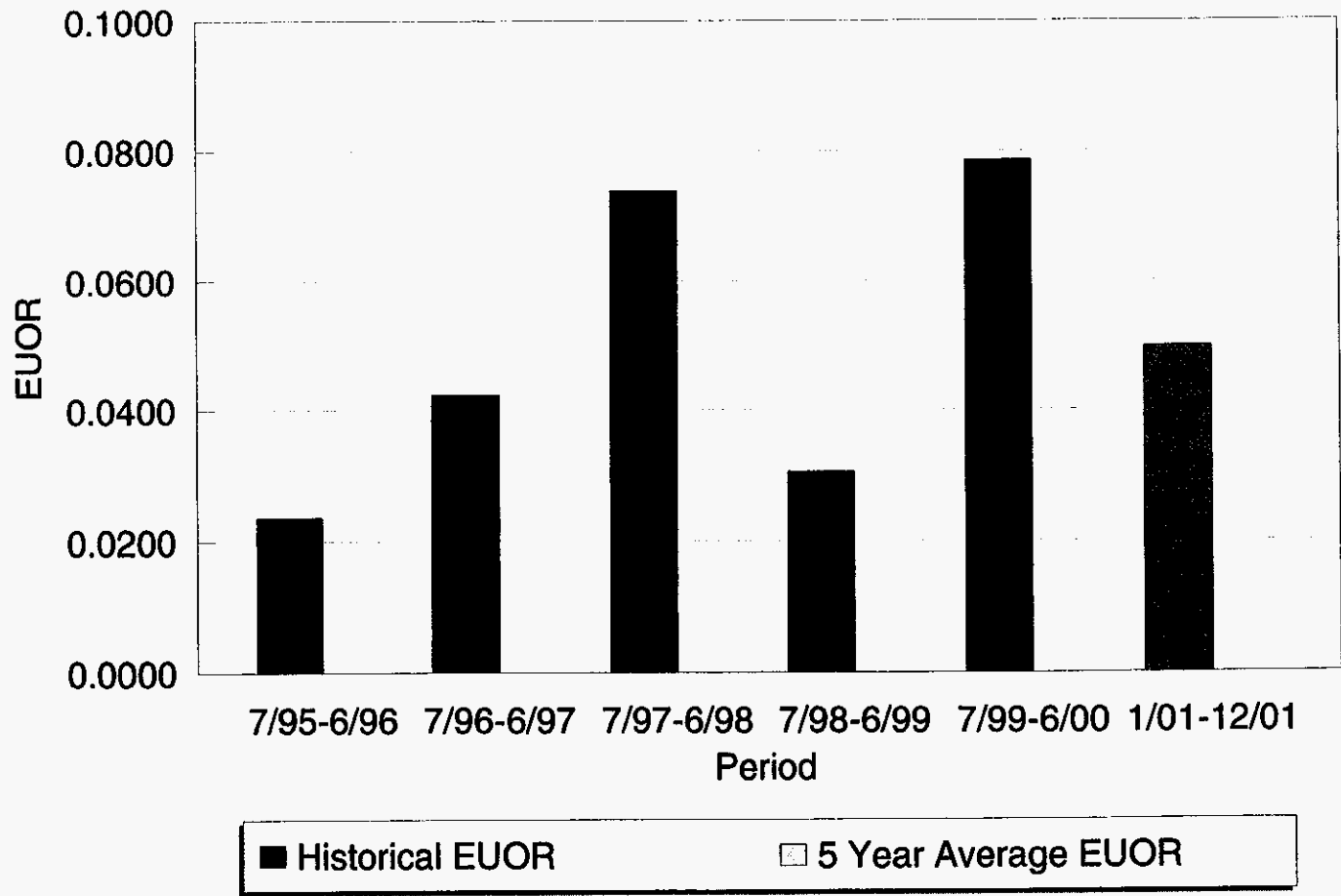
Calculation of Maximum and Minimum  
 Attainable Equivalent Availabilities  
 for January 2001 - December 2001

Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR (TARGET EUOR)	Minimum Attainable EUOR 70% of Target EUOR	Maximum Attainable Equivalent Availability	Maximum Attainable EUOR 145% of Target EUOR	Minimum Attainable Equivalent Availability
Crist 6	0.0498	0.0349	79.3	0.0722	76.3
Crist 7	0.1113	0.0779	79.3	0.1614	72.1
Smith 1	0.0275	0.0193	89.5	0.0399	87.6
Smith 2	0.0409	0.0286	88.6	0.0593	85.8
Daniel 1	0.1081	0.0757	77.2	0.1567	70.5
Daniel 2	0.1037	0.0726	77.8	0.1504	71.2

Summary of Target, Maximum, and Minimum  
Equivalent Availabilities  
for January 2001 - December 2001

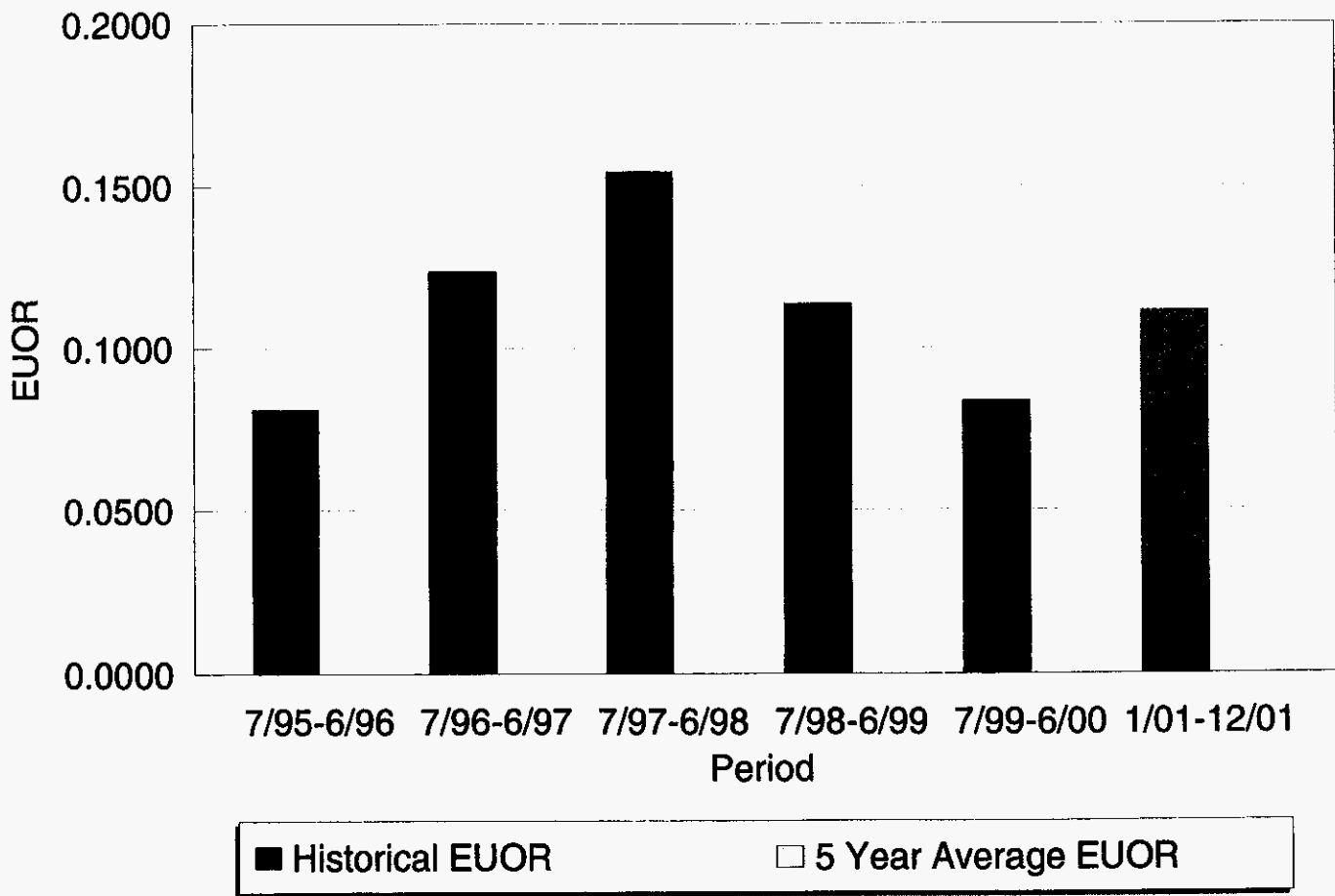
Unit	Target Equivalent Availability (0 Points)	Maximum Attainable Equivalent Availability (+10 Points)	Minimum Attainable Equivalent Availability (-10 Points)
Crist 6	78.1	79.3	76.3
Crist 7	76.4	79.3	72.1
Smith 1	88.7	89.5	87.6
Smith 2	87.5	88.6	85.8
Daniel 1	74.5	77.2	70.5
Daniel 2	75.2	77.8	71.2

**EUOR VS. PERIOD**  
**CRIST 6 January - December**

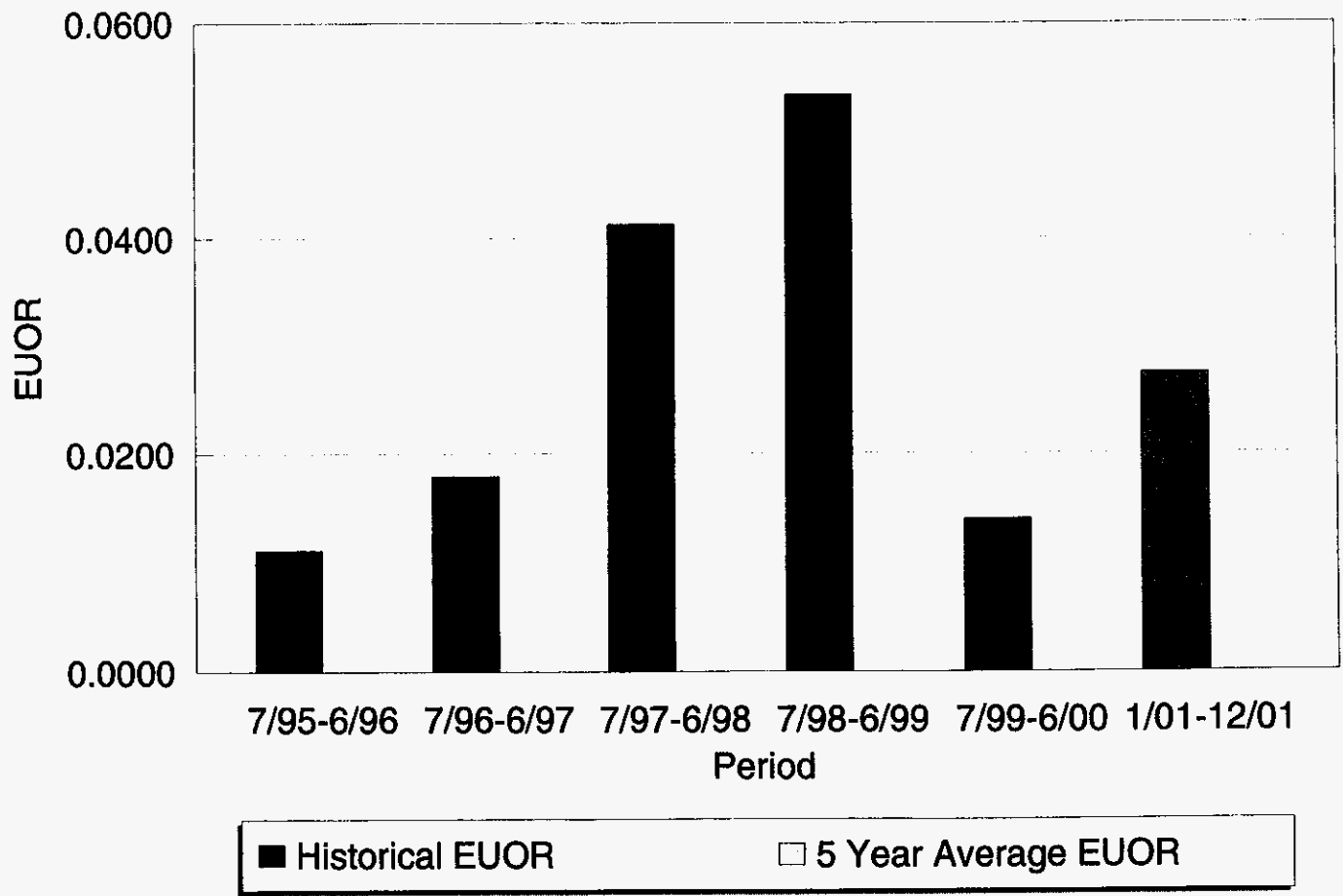




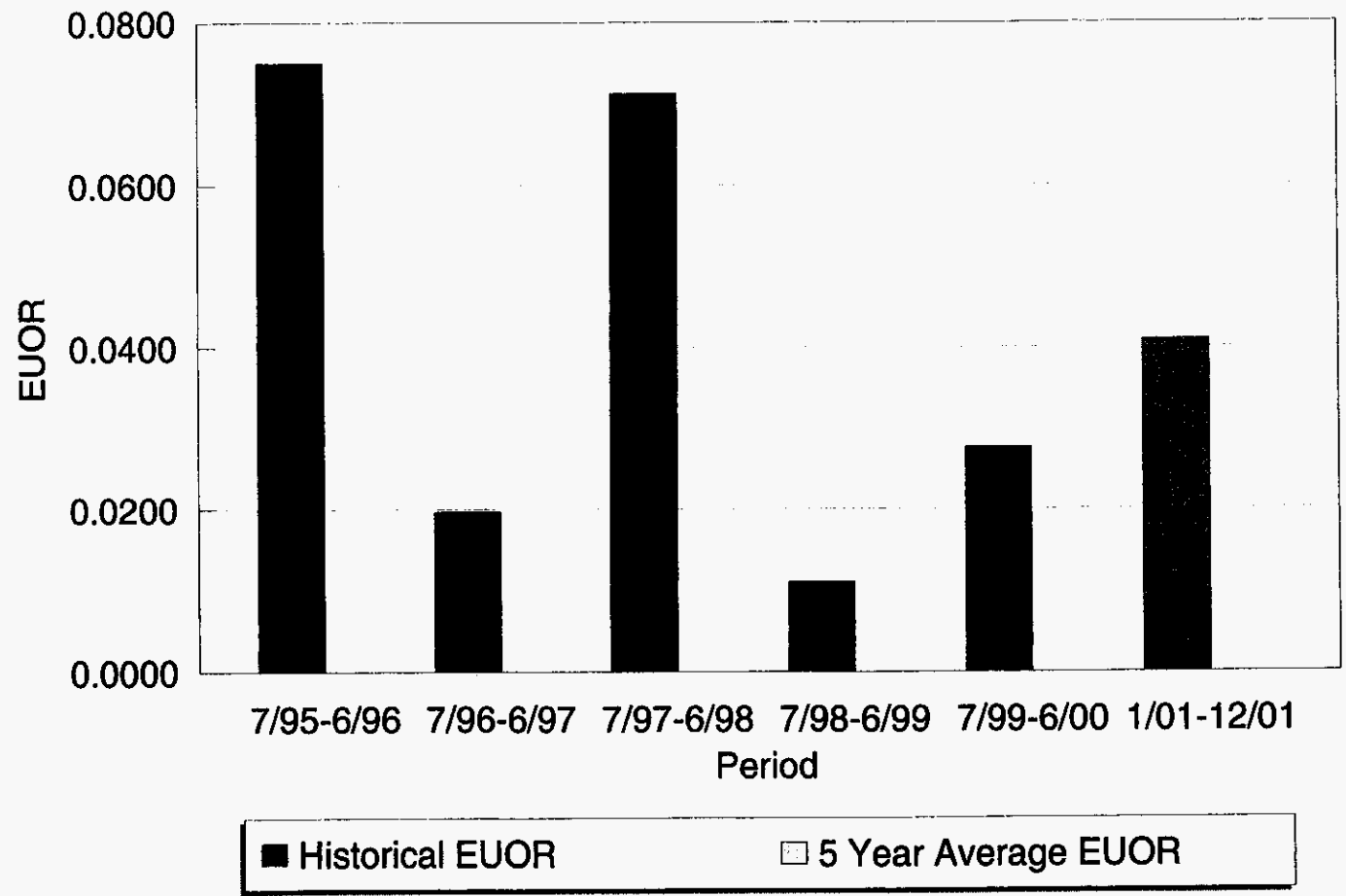
**EUOR VS. PERIOD**  
**CRIST 7 January - December**



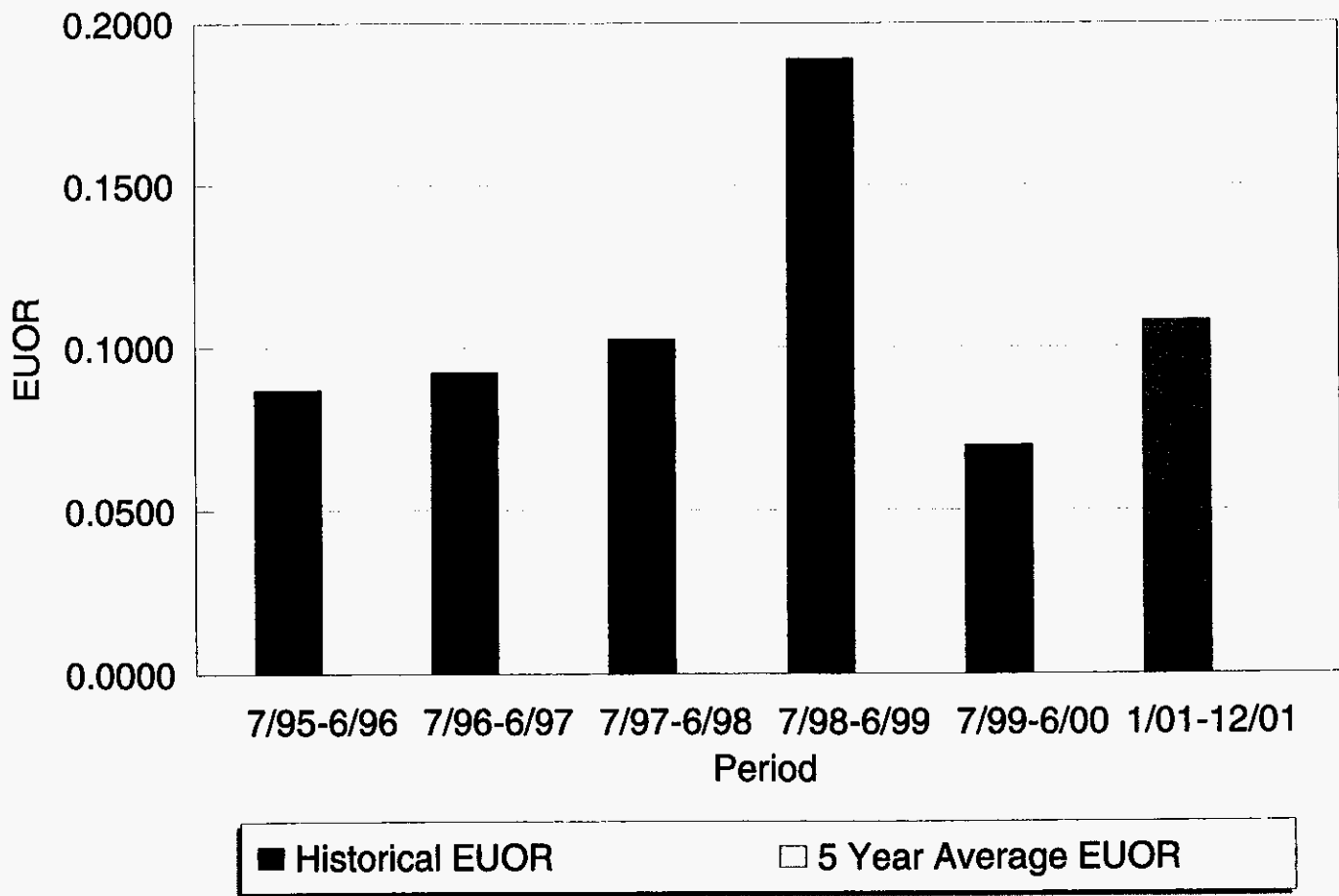
**EUOR VS. PERIOD**  
**SMITH 1 January - December**



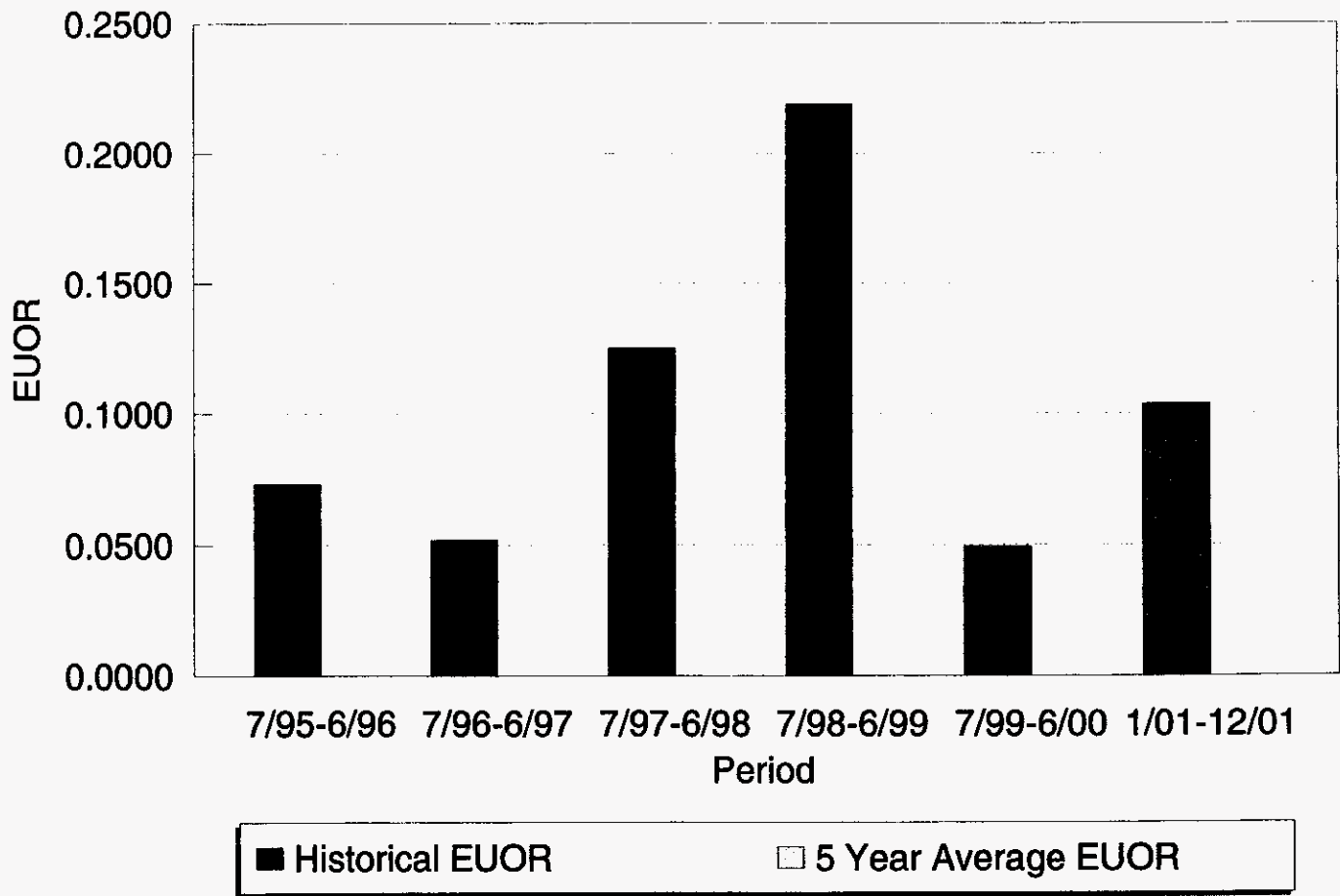
**EUOR VS. PERIOD**  
**SMITH 2 January - December**



**EUOR VS. PERIOD**  
**DANIEL 1 January - December**



**EUOR VS. PERIOD**  
**DANIEL 2 January - December**



III. GPIF MINIMUM FILING REQUIREMENTS FOR THE  
PERIOD JANUARY 2001 - DECEMBER 2001

CONTENTS	SCHEDULE 3
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Generating Performance Incentive Factor

Estimated Reward/Penalty Table

Gulf Power Company

Period of: January 2001 - December 2001

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	5286	1976
+ 9	4757	1779
+ 8	4229	1581
+ 7	3700	1383
+ 6	3172	1186
+ 5	2643	988
+ 4	2114	790
+ 3	1586	593
+ 2	1057	395
+ 1	529	198
0	0	0
- 1	-591	-198
- 2	-1183	-395
- 3	-1774	-593
- 4	-2365	-790
- 5	-2957	-988
- 6	-3548	-1186
- 7	-4139	-1383
- 8	-4730	-1581
- 9	-5322	-1779
- 10	-5913	-1976
	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 2001 - December 2001

Line 1	Beginning of Period Balance of Common Equity	\$429,007,000
	End of Month Balance of Common Equity:	
Line 2	Month of Jan '01	\$504,732,000
Line 3	Month of Feb '01	\$494,922,000
Line 4	Month of Mar '01	\$497,843,000
Line 5	Month of Apr '01	\$486,778,000
Line 6	Month of May '01	\$491,663,000
Line 7	Month of Jun '01	\$498,463,000
Line 8	Month of Jul '01	\$495,744,000
Line 9	Month of Aug '01	\$505,650,000
Line 10	Month of Sep '01	\$512,296,000
Line 11	Month of Oct '01	\$502,890,000
Line 12	Month of Nov '01	\$504,798,000
Line 13	Month of Dec '01	\$505,825,000
Line 14	Average Common Equity for the Period (sum of line 1 through line 13 divided by 13)	\$494,662,385
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)	\$2,045,432
Line 18	Jurisdictional Sales (KWH)	10,157,571,000
Line 19	Total Territorial Sales (KWH)	10,513,685,000
Line 20	Jurisdictional Separation Factor (line 18 divided by line 19)	96.6129%
Line 21	Maximum Allowed Jurisdictional Incentive Dollars (line 17 multiplied by line 20)	\$1,976,151

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## GPIF Unit Performance Summary

Gulf Power Company

Period of: January 2001 - December 2001

Plant & Unit	Weighting Factor %	EAF Target %	EAF Range		Max Fuel Savings (\$000)	Max Fuel Loss (\$000)
			Max %	Min %		
Crist 6	2.3%	78.1	79.3	76.3	\$121	(\$135)
Crist 7	11.8%	76.4	79.3	72.1	\$625	(\$890)
Smith 1	0.9%	88.7	89.5	87.6	\$46	(\$80)
Smith 2	1.7%	87.5	88.6	85.8	\$89	(\$150)
Daniel 1	5.2%	74.5	77.2	70.5	\$274	(\$402)
Daniel 2	4.2%	75.2	77.8	71.2	\$221	(\$346)

Plant & Unit	Weighting Factor %	ANOHR Target BTU/KWH	Target NOF	ANOHR Range		Max Fuel Savings (\$000)	Max Fuel Loss (\$000)
				Min BTU/KWH	Max BTU/KWH		
Crist 6	11.0%	10,502	81.0	10,187	10,817	\$582	(\$582)
Crist 7	23.4%	10,184	94.8	9,878	10,490	\$1,237	(\$1,237)
Smith 1	9.0%	10,113	93.2	9,810	10,416	\$478	(\$478)
Smith 2	9.3%	10,058	89.8	9,756	10,360	\$493	(\$493)
Daniel 1	10.7%	10,075	89.8	9,773	10,377	\$563	(\$563)
Daniel 2	10.5%	9,872	88.7	9,576	10,168	\$557	(\$557)

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## Comparison of GPIF Targets vs. Actual Performance of Prior Periods

## Availability

Gulf Power Company

Period of: January 2001 - December 2001

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Target			Actual Performance 1st Prior Period Jul '99 - Jun '00			Actual Performance 2nd Prior Period Jul '98 - Jun '99		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Crist 6	2.3%	8.8%	0.1780	0.0409	0.0498	0.0768	0.0281	0.0305	0.1549	0.0593	0.0739
Crist 7	11.8%	45.4%	0.1397	0.0958	0.1113	0.0888	0.1072	0.1177	0.0721	0.1426	0.1545
Smith 1	0.9%	3.3%	0.0877	0.0251	0.0275	0.2058	0.0417	0.0526	0.0468	0.0394	0.0413
Smith 2	1.7%	6.5%	0.0877	0.0372	0.0409	0.0583	0.0103	0.0110	0.2248	0.0547	0.0713
Daniel 1	5.2%	19.9%	0.1644	0.0904	0.1081	0.2959	0.1352	0.1920	0.1325	0.0889	0.1025
Daniel 2	4.2%	16.1%	0.1615	0.0869	0.1037	0.2633	0.1614	0.2191	0.0235	0.1221	0.1251
Weighted GPIF System Average:			0.1464	0.0823	0.0967	0.1589	0.1061	0.1320	0.0926	0.1122	0.1232

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## Comparison of GPIF Targets vs. Actual Performance of Prior Periods

## Availability

Gulf Power Company

Period of: January 2001 - December 2001

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Actual Performance 3rd Prior Period Jul '97 - Jun '98			Actual Performance 4th Prior Period Jul '96 - Jun '97			Actual Performance 5th Prior Period Jul '95 - Jun '96		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
			Crist 6	2.3%	8.8%	0.0273	0.0363	0.0424	0.1183	0.0176	0.0236
Crist 7	11.8%	45.4%	0.1595	0.0985	0.1238	0.3446	0.0518	0.0809	0.3446	0.0518	0.0809
Smith 1	0.9%	3.3%	0.0647	0.0165	0.0179	0.0602	0.0105	0.0111	0.0602	0.0105	0.0111
Smith 2	1.7%	6.5%	0.0669	0.0181	0.0197	0.0580	0.0702	0.0750	0.0580	0.0702	0.0750
Daniel 1	5.2%	19.9%	0.1143	0.0817	0.0922	0.2291	0.0649	0.0869	0.2291	0.0649	0.0869
Daniel 2	4.2%	16.1%	0.0995	0.0468	0.0519	0.2586	0.0532	0.0731	0.2586	0.0532	0.0731
Weighted GPIF System Average:			0.1201	0.0734	0.0885	0.2598	0.0514	0.0731	0.2598	0.0514	0.0731

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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 2001 - December 2001

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Heat Rate Target	1st Prior Period	2nd Prior Period	3rd Prior Period
				Heat Rate Jul '99 - Jun '00	Heat Rate Jul '98 - Jun '99	Heat Rate Jul '97 - Jun '98
Crist 6	11.0%	14.9%	10,502	10,464	10,570	10,536
Crist 7	23.4%	31.6%	10,184	10,171	10,152	10,202
Smith 1	9.0%	12.2%	10,113	10,050	10,009	10,211
Smith 2	9.3%	12.6%	10,058	10,099	10,030	10,078
Daniel 1	10.7%	14.4%	10,075	9,908	10,071	10,126
Daniel 2	10.5%	14.2%	9,872	9,893	9,952	9,895
Weighted GPIF System Average:			10,147	10,113	10,141	10,183

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Example Calculation of Prior Season

Average Net Operating Heat Rate

Adjusted to Target Basis

Crist 6 Jul '98 - Jun '99

	Jul Jan	Aug Feb	Sep Mar	Oct Apr	Nov May	Dec Jun	
1. Target Heat Rate*	10674 10612	10633 10364	10442 10433	10343 -	10390 10514	10672 10438	
2. Target Heat Rate at Actual Conditions**	10673 10828	10652 10777	10628 10667	10693 10338	10548 10659	10737 10541	
3. Adjustments to Actual Heat Rate (1-2)	1 -216	-19 -413	-186 -234	-350 0	-158 -145	-65 -103	
4. Actual Heat Rate for Prior Period	10714 10847	10907 10900	10778 10663	10931 10613	10621 10152	10628 10241	
5. Adjusted actual Heat Rate (4+3)	10715 10631	10888 10487	10592 10429	10581 10613	10463 10007	10563 10138	
6. Forecast Net MWH Generation*	185310 153030	178710 160390	172450 52220	188880 0	180820 86100	144940 173060	
7. Adjusted Actual Heat Rate for Jul '98 - Jun '99 = ( $\Sigma$ ((5)*(6)) ) / ( $\Sigma$ (6) )							10,570

\* For the January 2001 - December 2001 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 2001 - December 2001

Plant & Unit	Unit Performance Indicator	Production Cost Simulation Fuel Cost (\$000)			Weighting Factor (% of Savings)
		At Target (1)	At Maximum Improvement (2)	Savings (3)	
Crist 6	EA-1	\$233,654	\$233,533	\$121	2.3%
Crist 6	ANOHR-1	\$233,654	\$233,072	\$582	11.0%
Crist 7	EA-2	\$233,654	\$233,029	\$625	11.8%
Crist 7	ANOHR-2	\$233,654	\$232,417	\$1,237	23.4%
Smith 1	EA-3	\$233,654	\$233,608	\$46	0.9%
Smith 1	ANOHR-3	\$233,654	\$233,176	\$478	9.0%
Smith 2	EA-4	\$233,654	\$233,565	\$89	1.7%
Smith 2	ANOHR-4	\$233,654	\$233,161	\$493	9.3%
Daniel 1	EA-5	\$233,654	\$233,380	\$274	5.2%
Daniel 1	ANOHR-5	\$233,654	\$233,091	\$563	10.7%
Daniel 2	EA-6	\$233,654	\$233,433	\$221	4.2%
Daniel 2	ANOHR-6	\$233,654	\$233,097	\$557	10.5%
					100.0%

- (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 2001 - December 2001

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	121	79.30	+ 10	582	10,187
+ 9	109	79.18	+ 9	524	10,211
+ 8	97	79.06	+ 8	466	10,235
+ 7	85	78.94	+ 7	407	10,259
+ 6	73	78.82	+ 6	349	10,283
+ 5	61	78.70	+ 5	291	10,307
+ 4	48	78.58	+ 4	233	10,331
+ 3	36	78.46	+ 3	175	10,355
+ 2	24	78.34	+ 2	116	10,379
+ 1	12	78.22	+ 1	58	10,403
0	0	78.10	0	0	10,427
- 1	(14)	77.92	- 1	(58)	10,502
- 2	(27)	77.74	- 2	(116)	10,577
- 3	(41)	77.56	- 3	(175)	10,601
- 4	(54)	77.38	- 4	(233)	10,625
- 5	(68)	77.20	- 5	(291)	10,649
- 6	(81)	77.02	- 6	(349)	10,673
- 7	(95)	76.84	- 7	(407)	10,697
- 8	(108)	76.66	- 8	(466)	10,721
- 9	(122)	76.48	- 9	(524)	10,745
- 10	(135)	76.30	- 10	(582)	10,769
					10,793
					10,817
Weighting Factor:		0.023	Weighting Factor:		0.110

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## Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2001 - December 2001

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	625	79.30	+ 10	1,237	9,878
+ 9	563	79.02	+ 9	1,113	9,901
+ 8	500	78.74	+ 8	990	9,924
+ 7	438	78.46	+ 7	866	9,947
+ 6	375	78.18	+ 6	742	9,970
+ 5	313	77.90	+ 5	619	9,994
+ 4	250	77.62	+ 4	495	10,017
+ 3	188	77.34	+ 3	371	10,040
+ 2	125	77.06	+ 2	247	10,063
+ 1	63	76.78	+ 1	124	10,086
0	0	76.50	0	0	10,109
- 1	(89)	76.06	- 1	(124)	10,184
- 2	(178)	75.62	- 2	(247)	10,259
- 3	(267)	75.18	- 3	(371)	10,282
- 4	(356)	74.74	- 4	(495)	10,305
- 5	(445)	74.30	- 5	(619)	10,328
- 6	(534)	73.86	- 6	(742)	10,351
- 7	(623)	73.42	- 7	(866)	10,375
- 8	(712)	72.98	- 8	(990)	10,398
- 9	(801)	72.54	- 9	(1,113)	10,421
- 10	(890)	72.10	- 10	(1,237)	10,444
					10,467
					10,490
Weighting Factor:		0.118	Weighting Factor:		0.234

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## Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2001 - December 2001

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	46	89.50	+ 10	478	9,810
+ 9	41	89.42	+ 9	430	9,833
+ 8	37	89.34	+ 8	382	9,856
+ 7	32	89.26	+ 7	335	9,878
+ 6	28	89.18	+ 6	287	9,901
+ 5	23	89.10	+ 5	239	9,924
+ 4	18	89.02	+ 4	191	9,947
+ 3	14	88.94	+ 3	143	9,970
+ 2	9	88.86	+ 2	96	9,992
+ 1	5	88.78	+ 1	48	10,015
				0	10,038
0	0	88.70	0	0	10,113
				0	10,188
- 1	(8)	88.59	- 1	(48)	10,211
- 2	(16)	88.48	- 2	(96)	10,234
- 3	(24)	88.37	- 3	(143)	10,256
- 4	(32)	88.26	- 4	(191)	10,279
- 5	(40)	88.15	- 5	(239)	10,302
- 6	(48)	88.04	- 6	(287)	10,325
- 7	(56)	87.93	- 7	(335)	10,348
- 8	(64)	87.82	- 8	(382)	10,370
- 9	(72)	87.71	- 9	(430)	10,393
- 10	(80)	87.60	- 10	(478)	10,416

Weighting Factor:

0.009

Weighting Factor:

0.090

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## Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2001 - December 2001

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	89	88.60	+ 10	493	9,756
+ 9	80	88.49	+ 9	444	9,779
+ 8	71	88.38	+ 8	394	9,801
+ 7	62	88.27	+ 7	345	9,824
+ 6	53	88.16	+ 6	296	9,847
+ 5	45	88.05	+ 5	247	9,870
+ 4	36	87.94	+ 4	197	9,892
+ 3	27	87.83	+ 3	148	9,915
+ 2	18	87.72	+ 2	99	9,938
+ 1	9	87.61	+ 1	49	9,960
				0	9,983
0	0	87.50	0	0	10,058
				0	10,133
- 1	(15)	87.33	- 1	(49)	10,156
- 2	(30)	87.16	- 2	(99)	10,178
- 3	(45)	86.99	- 3	(148)	10,201
- 4	(60)	86.82	- 4	(197)	10,224
- 5	(75)	86.65	- 5	(247)	10,247
- 6	(90)	86.48	- 6	(296)	10,269
- 7	(105)	86.31	- 7	(345)	10,292
- 8	(120)	86.14	- 8	(394)	10,315
- 9	(135)	85.97	- 9	(444)	10,337
- 10	(150)	85.80	- 10	(493)	10,360

Weighting Factor:

0.017

Weighting Factor:

0.093

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## Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2001 - December 2001

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	274	77.20	+ 10	563	9,773
+ 9	247	76.93	+ 9	507	9,796
+ 8	219	76.66	+ 8	450	9,818
+ 7	192	76.39	+ 7	394	9,841
+ 6	164	76.12	+ 6	338	9,864
+ 5	137	75.85	+ 5	282	9,887
+ 4	110	75.58	+ 4	225	9,909
+ 3	82	75.31	+ 3	169	9,932
+ 2	55	75.04	+ 2	113	9,955
+ 1	27	74.77	+ 1	56	9,977
				0	10,000
0	0	74.50	0	0	10,075
				0	10,150
- 1	(40)	74.10	- 1	(56)	10,173
- 2	(80)	73.70	- 2	(113)	10,195
- 3	(121)	73.30	- 3	(169)	10,218
- 4	(161)	72.90	- 4	(225)	10,241
- 5	(201)	72.50	- 5	(282)	10,264
- 6	(241)	72.10	- 6	(338)	10,286
- 7	(281)	71.70	- 7	(394)	10,309
- 8	(322)	71.30	- 8	(450)	10,332
- 9	(362)	70.90	- 9	(507)	10,354
- 10	(402)	70.50	- 10	(563)	10,377
Weighting Factor:		0.052	Weighting Factor:		0.107

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## Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2001 - December 2001

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	221	77.80	+ 10	557	9,576
+ 9	199	77.54	+ 9	501	9,598
+ 8	177	77.28	+ 8	446	9,620
+ 7	155	77.02	+ 7	390	9,642
+ 6	133	76.76	+ 6	334	9,664
+ 5	111	76.50	+ 5	279	9,687
+ 4	88	76.24	+ 4	223	9,709
+ 3	66	75.98	+ 3	167	9,731
+ 2	44	75.72	+ 2	111	9,753
+ 1	22	75.46	+ 1	56	9,775
				0	9,797
0	0	75.20	0	0	9,872
				0	9,947
- 1	(35)	74.80	- 1	(56)	9,969
- 2	(69)	74.40	- 2	(111)	9,991
- 3	(104)	74.00	- 3	(167)	10,013
- 4	(138)	73.60	- 4	(223)	10,035
- 5	(173)	73.20	- 5	(279)	10,058
- 6	(208)	72.80	- 6	(334)	10,080
- 7	(242)	72.40	- 7	(390)	10,102
- 8	(277)	72.00	- 8	(446)	10,124
- 9	(311)	71.60	- 9	(501)	10,146
- 10	(346)	71.20	- 10	(557)	10,168
Weighting Factor:		0.042	Weighting Factor:		0.105

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2001 - December 2001

CRIST 6	Jan '01	Feb '01	Mar '01	Apr '01	May '01	Jun '01	
1. EAF (%)	96.8	89.4	28.1	0.0	49.5	96.7	
2. POF (%)	0.0	0.0	71.0	100.0	41.9	0.0	
3. EUOF (%)	3.2	10.6	0.9	0.0	8.6	3.3	
4. EUOR (%)	3.2	10.6	3.2	0.0	14.8	3.3	
5. PH	744.0	672.0	744.0	719.0	744.0	720.0	
6. SH	720.0	603.0	209.0	0.0	371.0	696.0	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	24.0	69.0	535.0	719.0	373.0	24.0	
9. POH	0.0	0.0	528.0	719.0	312.0	0.0	
10. FOH & EFOH	24.0	23.0	7.0	0.0	16.0	24.0	
11. MOH & EMOH	0.0	48.0	0.0	0.0	48.0	0.0	
12. Oper MBtu	1623954.0	1662282.0	544811.0	0.0	905255.0	1806400.0	
13. Net Gen (MWH)	153030.0	160390.0	52220.0	0.0	86100.0	173060.0	
14. ANOHR (Btu/KWH)	10612.0	10364.0	10433.0	-	10514.0	10438.0	
15. NOF %	70.4	88.1	82.7	0.0	76.8	82.3	
16. NPC (MW)	302.0	302.0	302.0	302.0	302.0	302.0	
19. ANOHR Equation	$10\% / \text{AKW} * [-180.36 - 38.44 * \text{APR} + 70.63 * \text{JUL} + 47.99 * \text{AUG}]$ $+ 13,880 - 0.01011 * \text{LSRF} / \text{AKW}$						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2001 - December 2001

CRIST 6	Jul '01	Aug '01	Sep '01	Oct '01	Nov '01	Dec '01	Total
1. EAF (%)	96.8	96.8	96.7	93.6	96.7	96.8	78.1
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	17.8
3. EUOF (%)	3.2	3.2	3.3	6.4	3.3	3.2	4.1
4. EUOR (%)	3.2	3.2	3.3	6.4	3.3	3.2	5.0
5. PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6. SH	720.0	720.0	696.0	697.0	696.0	720.0	6848.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	24.0	24.0	24.0	48.0	24.0	24.0	1912.0
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	1559.0
10. FOH & EFOH	24.0	24.0	24.0	24.0	24.0	24.0	238.0
11. MOH & EMOH	0.0	0.0	0.0	24.0	0.0	0.0	120.0
12. Oper MBtu	1977999.0	1900223.0	1800723.0	1953586.0	1878720.0	1546800.0	17600753.0
13. Net Gen (MWH)	185310.0	178710.0	172450.0	188880.0	180820.0	144940.0	1675910.0
14. ANOHR (Btu/KWH)	10674.0	10633.0	10442.0	10343.0	10390.0	10672.0	10502.0
15. NOF %	85.2	82.2	82.0	89.7	86.0	66.7	81.0
16. NPC (MW)	302.0	302.0	302.0	302.0	302.0	302.0	302.0
19. ANOHR Equation	$10\% / AKW * [-180.36 - 38.44 * APR + 70.63 * JUL + 47.99 * AUG]$ $+ 13,880 - 0.01011 * LSRF / AKW$						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2001 - December 2001

CRIST 7	Jan '01	Feb '01	Mar '01	Apr '01	May '01	Jun '01	
1. EAF (%)	14.7	9.7	84.8	91.0	81.7	91.0	
2. POF (%)	83.9	89.3	0.0	0.0	0.0	0.0	
3. EUOF (%)	1.4	1.0	15.2	9.0	18.3	9.0	
4. EUOR (%)	9.2	9.7	15.2	9.0	18.3	9.0	
5. PH	744.0	672.0	744.0	719.0	744.0	720.0	
6. SH	109.0	65.0	633.0	654.0	611.0	655.0	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	635.0	607.0	111.0	65.0	133.0	65.0	
9. POH	624.0	600.0	0.0	0.0	0.0	0.0	
10. FOH & EFOH	11.0	7.0	65.0	65.0	64.0	65.0	
11. MOH & EMOH	0.0	0.0	48.0	0.0	72.0	0.0	
12. Oper MBtu	452055.0	304283.0	2945886.0	3081141.0	2694094.0	2975032.0	
13. Net Gen (MWH)	44280.0	30020.0	290550.0	304100.0	264880.0	293020.0	
14. ANOHR (Btu/KWH)	10209.0	10136.0	10139.0	10132.0	10171.0	10153.0	
15. NOF %	85.2	96.8	96.2	97.5	90.9	93.8	
16. NPC (MW)	477.0	477.0	477.0	477.0	477.0	477.0	
19. ANOHR Equation	$10\% / AKW * [246.18 + 73.74 * JUL + 42.35 * AUG + 49.08 * SEP]$ + 9,603						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2001 - December 2001

CRIST 7	Jul '01	Aug '01	Sep '01	Oct '01	Nov '01	Dec '01	Total
1. EAF (%)	91.0	91.0	91.0	91.0	84.9	91.0	76.4
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	14.0
3. EUOF (%)	9.0	9.0	9.0	9.0	15.1	9.0	9.6
4. EUOR (%)	9.0	9.0	9.0	9.0	15.1	9.0	11.1
5. PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6. SH	677.0	677.0	655.0	678.0	611.0	677.0	6702.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	67.0	67.0	65.0	67.0	109.0	67.0	2058.0
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	1224.0
10. FOH & EFOH	67.0	67.0	65.0	67.0	61.0	67.0	671.0
11. MOH & EMOH	0.0	0.0	0.0	0.0	48.0	0.0	168.0
12. Oper MBtu	3170536.0	3060782.0	3005094.0	3241401.0	2881034.0	3050651.0	30861989.0
13. Net Gen (MWH)	307610.0	298380.0	292780.0	320170.0	284350.0	300320.0	3030460.0
14. ANOHR (Btu/KWH)	10307.0	10258.0	10264.0	10124.0	10132.0	10158.0	10184.0
15. NOF %	95.3	92.4	93.7	99.0	97.6	93.0	94.8
16. NPC (MW)	477.0	477.0	477.0	477.0	477.0	477.0	477.0
19. ANOHR Equation	$10\% / AKW * [246.18 + 73.74 * JUL + 42.35 * AUG + 49.08 * SEP]$ + 9,603						

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GULF POWER COMPANY

PERIOD OF: January 2001 - December 2001

	SMITH 1	Jan '01	Feb '01	Mar '01	Apr '01	May '01	Jun '01	
1.	EAF (%)	98.3	97.9	98.0	58.8	57.0	98.2	
2.	POF (%)	0.0	0.0	0.0	33.4	41.9	0.0	
3.	EUOF (%)	1.7	2.1	2.0	7.8	1.1	1.8	
4.	EUOR (%)	1.7	2.1	2.0	11.7	1.9	1.8	
5.	PH	744.0	672.0	744.0	719.0	744.0	720.0	
6.	SH	731.0	660.0	731.0	423.0	424.0	707.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	13.0	12.0	13.0	296.0	320.0	13.0	
9.	POH	0.0	0.0	0.0	240.0	312.0	0.0	
10.	FOH & EFOH	13.0	14.0	15.0	8.0	8.0	13.0	
11.	MOH & EMOH	0.0	0.0	0.0	48.0	0.0	0.0	
12.	Oper MBtu	1052804.0	1049325.0	1130367.0	657777.0	608993.0	1071335.0	
13.	Net Gen (MWH)	103490.0	104110.0	111840.0	65120.0	60380.0	105790.0	
14.	ANOHR (Btu/KWH)	10173.0	10079.0	10107.0	10101.0	10086.0	10127.0	
15.	NOF %	87.4	97.4	94.4	95.0	87.9	92.4	
16.	NPC (MW)	162.0	162.0	162.0	162.0	162.0	162.0	
19.	ANOHR Equation	$10\% / AKW * [-17.71 - 11.75 * MAY + 12.64 * JUL - 14.08 * NOV]$ $+ 11,750 - 0.00985 * LSRF / AKW$						

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GULF POWER COMPANY

PERIOD OF: January 2001 - December 2001

SMITH 1	Jul '01	Aug '01	Sep '01	Oct '01	Nov '01	Dec '01	Total
1. EAF (%)	98.3	98.3	87.9	76.1	98.2	98.3	88.7
2. POF (%)	0.0	0.0	6.7	22.6	0.0	0.0	8.8
3. EUOF (%)	1.7	1.7	5.4	1.3	1.8	1.7	2.5
4. EUOR (%)	1.7	1.7	5.8	1.7	1.8	1.7	2.8
5. PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6. SH	731.0	731.0	633.0	567.0	707.0	731.0	7776.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	13.0	13.0	87.0	178.0	13.0	13.0	984.0
9. POH	0.0	0.0	48.0	168.0	0.0	0.0	768.0
10. FOH & EFOH	13.0	13.0	15.0	10.0	13.0	13.0	148.0
11. MOH & EMOH	0.0	0.0	24.0	0.0	0.0	0.0	72.0
12. Oper MBtu	1137316.0	1096715.0	957602.0	908213.0	1105558.0	1091672.0	11867677.0
13. Net Gen (MWH)	111600.0	108200.0	94550.0	90190.0	110600.0	107660.0	1173530.0
14. ANOHR (Btu/KWH)	10191.0	10136.0	10128.0	10070.0	9996.0	10140.0	10113.0
15. NOF %	94.2	91.4	92.2	98.2	96.6	90.9	93.2
16. NPC (MW)	162.0	162.0	162.0	162.0	162.0	162.0	162.0
19. ANOHR Equation	$10\% / AKW * [-17.71 - 11.75 * MAY + 12.64 * JUL - 14.08 * NOV]$ $+ 11,750 - 0.00985 * LSRF / AKW$						

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GULF POWER COMPANY

PERIOD OF: January 2001 - December 2001

	SMITH 2	Jan '01	Feb '01	Mar '01	Apr '01	May '01	Jun '01	
1.	EAF (%)	96.5	89.3	28.1	93.3	96.5	96.5	
2.	POF (%)	0.0	0.0	71.0	3.3	0.0	0.0	
3.	EUOF (%)	3.5	10.7	0.9	3.4	3.5	3.5	
4.	EUOR (%)	3.5	10.7	3.2	3.5	3.5	3.5	
5.	PH	744.0	672.0	744.0	719.0	744.0	720.0	
6.	SH	718.0	603.0	209.0	671.0	718.0	695.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	26.0	69.0	535.0	48.0	26.0	25.0	
9.	POH	0.0	0.0	528.0	24.0	0.0	0.0	
10.	FOH & EFOH	26.0	24.0	7.0	24.0	26.0	25.0	
11.	MOH & EMOH	0.0	48.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	1127312.0	1091992.0	361095.0	1190292.0	1197924.0	1189236.0	
13.	Net Gen (MWH)	112070.0	109440.0	36500.0	119220.0	117340.0	117120.0	
14.	ANOHR (Btu/KWH)	10059.0	9978.0	9893.0	9984.0	10209.0	10154.0	
15.	NOF %	82.2	95.5	91.9	93.5	86.0	88.7	
16.	NPC (MW)	190.0	190.0	190.0	190.0	190.0	190.0	
19.	ANOHR Equation	$10\% / AKW * [ 433.88 - 17.01 * MAR + 30.00 * MAY + 24.79 * JUN + 24.28 * JUL + 16.15 * AUG + 12.95 * NOV ]$ $+ 3,803 + 0.02064 * LSRF / AKW$						

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## ESTIMATED UNIT PERFORMANCE DATA

## GULF POWER COMPANY

PERIOD OF: January 2001 - December 2001

SMITH 2	Jul '01	Aug '01	Sep '01	Oct '01	Nov '01	Dec '01	Total
1. EAF (%)	96.5	96.5	96.5	96.5	67.6	96.5	87.5
2. POF (%)	0.0	0.0	0.0	0.0	30.0	0.0	8.8
3. EUOF (%)	3.5	3.5	3.5	3.5	2.4	3.5	3.7
4. EUOR (%)	3.5	3.5	3.5	3.5	3.4	3.5	4.1
5. PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6. SH	718.0	718.0	695.0	719.0	487.0	718.0	7669.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	26.0	26.0	25.0	26.0	233.0	26.0	1091.0
9. POH	0.0	0.0	0.0	0.0	216.0	0.0	768.0
10. FOH & EFOH	26.0	26.0	25.0	26.0	17.0	26.0	278.0
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	48.0
12. Oper MBtu	1262470.0	1208669.0	1172820.0	1307685.0	866683.0	1179324.0	13155502.0
13. Net Gen (MWH)	124590.0	119540.0	117200.0	131070.0	86160.0	117650.0	1307900.0
14. ANOHR (Btu/KWH)	10133.0	10111.0	10007.0	9977.0	10059.0	10024.0	10058.0
15. NOF %	91.3	87.6	88.8	95.9	93.1	86.2	89.8
16. NPC (MW)	190.0	190.0	190.0	190.0	190.0	190.0	190.0
19. ANOHR Equation	$10\% / AKW * [ 433.88 - 17.01 * MAR + 30.00 * MAY + 24.79 * JUN + 24.28 * JUL + 16.15 * AUG + 12.95 * NOV ]$ $+ 3,803 + 0.02064 * LSRF / AKW$						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2001 - December 2001

DANIEL 1	Jan '01	Feb '01	Mar '01	Apr '01	May '01	Jun '01	
1. EAF (%)	47.8	0.0	80.4	86.4	83.2	92.6	
2. POF (%)	38.7	100.0	12.9	0.0	0.0	0.0	
3. EUOF (%)	13.5	0.0	6.7	13.6	16.8	7.4	
4. EUOR (%)	21.9	0.0	7.7	13.6	16.8	7.4	
5. PH	744.0	672.0	744.0	719.0	744.0	720.0	
6. SH	356.0	0.0	600.0	621.0	622.0	667.0	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	388.0	672.0	144.0	98.0	122.0	53.0	
9. POH	288.0	672.0	96.0	0.0	0.0	0.0	
10. FOH & EFOH	28.0	0.0	50.0	50.0	53.0	53.0	
11. MOH & EMOH	72.0	0.0	0.0	48.0	72.0	0.0	
12. Oper MBtu	1419524.0	0.0	2779447.0	2964667.0	2744403.0	2973015.0	
13. Net Gen (MWH)	139060.0	0.0	275220.0	295580.0	268980.0	299820.0	
14. ANOHR (Btu/KWH)	10208.0	-	10099.0	10030.0	10203.0	9916.0	
15. NOF %	77.0	0.0	90.5	93.9	85.3	88.7	
16. NPC (MW)	507.0	507.0	507.0	507.0	507.0	507.0	
19. ANOHR Equation	$10^6 / AKW * [587.42 - 74.65 * JAN - 99.94 * FEB - 97.63 * JUN]$ $+ 10,811 + 10^6 / AKW * [-0.0225 * BTU/LB] - 0.00302 * LSRF / AKW$						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2001 - December 2001

DANIEL 1	Jul '01	Aug '01	Sep '01	Oct '01	Nov '01	Dec '01	Total
1. EAF (%)	92.6	92.6	92.6	86.6	89.4	44.8	74.5
2. POF (%)	0.0	0.0	0.0	0.0	0.0	51.6	16.4
3. EUOF (%)	7.4	7.4	7.4	13.4	10.6	3.6	9.1
4. EUOR (%)	7.4	7.4	7.4	13.4	10.6	7.5	10.8
5. PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6. SH	689.0	689.0	667.0	645.0	644.0	333.0	6533.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	55.0	55.0	53.0	100.0	76.0	411.0	2227.0
9. POH	0.0	0.0	0.0	0.0	0.0	384.0	1440.0
10. FOH & EFOH	55.0	55.0	53.0	52.0	52.0	27.0	528.0
11. MOH & EMOH	0.0	0.0	0.0	48.0	24.0	0.0	264.0
12. Oper MBtu	3220609.0	3137486.0	3043778.0	3160617.0	3095401.0	1439130.0	29978077.0
13. Net Gen (MWH)	319600.0	309600.0	300620.0	317140.0	309200.0	140540.0	2975360.0
14. ANOHR (Btu/KWH)	10077.0	10134.0	10125.0	9966.0	10011.0	10240.0	10075.0
15. NOF %	91.5	88.6	88.9	97.0	94.7	83.2	89.8
16. NPC (MW)	507.0	507.0	507.0	507.0	507.0	507.0	507.0
19. ANOHR Equation	$10^6 / AKW * [ 587.42 - 74.65 * JAN - 99.94 * FEB - 97.63 * JUN ]$ $+ 10,811 + 10^6 / AKW * [ -0.0225 * BTU/LB ] - 0.00302 * LSRF / AKW$						

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## ESTIMATED UNIT PERFORMANCE DATA

## GULF POWER COMPANY

PERIOD OF: January 2001 - December 2001

DANIEL 2	Jan '01	Feb '01	Mar '01	Apr '01	May '01	Jun '01	
1. EAF (%)	93.7	93.3	57.4	68.8	87.2	93.8	
2. POF (%)	0.0	0.0	25.8	26.6	0.0	0.0	
3. EUOF (%)	6.3	6.7	16.8	4.6	12.8	6.2	
4. EUOR (%)	6.3	6.7	22.6	6.3	12.8	6.3	
5. PH	744.0	672.0	744.0	719.0	744.0	720.0	
6. SH	697.0	630.0	427.0	495.0	652.0	675.0	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	47.0	42.0	317.0	224.0	92.0	45.0	
9. POH	0.0	0.0	192.0	191.0	0.0	0.0	
10. FOH & EFOH	47.0	45.0	29.0	33.0	47.0	45.0	
11. MOH & EMOH	0.0	0.0	96.0	0.0	48.0	0.0	
12. Oper MBtu	2859564.0	2988667.0	1942544.0	2313183.0	2787733.0	3038836.0	
13. Net Gen (MWH)	286300.0	307160.0	198320.0	237420.0	281760.0	305380.0	
14. ANOHR (Btu/KWH)	9988.0	9730.0	9795.0	9743.0	9894.0	9951.0	
15. NOF %	80.5	95.6	91.1	94.0	84.7	88.7	
16. NPC (MW)	510.0	510.0	510.0	510.0	510.0	510.0	
19. ANOHR Equation	$10^6 / AKW * [ 382.08 + 55.34 * JUN + 123.15 * AUG + 59.45 * SEP ]$ $+ 11,976 + 10^6 / AKW * [ -0.0390 * BTU/LB ] - 0.00428 * LSRF / AKW$						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2001 - December 2001

DANIEL 2	Jul '01	Aug '01	Sep '01	Oct '01	Nov '01	Dec '01	Total
1. EAF (%)	93.7	93.7	43.8	12.2	71.8	93.7	75.2
2. POF (%)	0.0	0.0	53.3	87.0	0.0	0.0	16.2
3. EUOF (%)	6.3	6.3	2.9	0.8	28.2	6.3	8.6
4. EUOR (%)	6.3	6.3	6.3	6.2	28.2	6.3	10.4
5. PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6. SH	697.0	697.0	315.0	91.0	517.0	697.0	6590.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	47.0	47.0	405.0	654.0	203.0	47.0	2170.0
9. POH	0.0	0.0	384.0	648.0	0.0	0.0	1415.0
10. FOH & EFOH	47.0	47.0	21.0	6.0	35.0	47.0	449.0
11. MOH & EMOH	0.0	0.0	0.0	0.0	168.0	0.0	312.0
12. Oper MBtu	3175227.0	3180335.0	1400571.0	262861.0	2438886.0	3051330.0	29439737.0
13. Net Gen (MWH)	324400.0	314760.0	140380.0	25280.0	250940.0	310000.0	2982100.0
14. ANOHR (Btu/KWH)	9788.0	10104.0	9977.0	10398.0	9719.0	9843.0	9872.0
15. NOF %	91.3	88.5	87.4	54.5	95.2	87.2	88.7
16. NPC (MW)	510.0	510.0	510.0	510.0	510.0	510.0	510.0
19. ANOHR Equation	$10^6 / AKW * [ 382.08 + 55.34 * JUN + 123.15 * AUG + 59.45 * SEP ]$ $+ 11,976 + 10^6 / AKW * [ -0.0390 * BTU/LB ] - 0.00428 * LSRF / AKW$						

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## Planned Outage Schedules (Estimated)

Gulf Power Company

Period of: January 2001 - December 2001

Plant & Unit	Planned Outage Dates	Reason for Outage
Crist 6	03/10/2001 - 05/13/2001	Turbine & generator overhaul and boiler inspection.
Crist 7	01/06/2001 - 02/25/2001	Annual general boiler maintenance and inspection.
Smith 1	04/21/2001 - 05/13/2001	Semi-annual general boiler maintenance and inspection.
Smith 1	09/29/2001 - 10/07/2001	Semi-annual general boiler maintenance and inspection.
Smith 2	03/10/2001 - 04/01/2001	Semi-annual general boiler maintenance and inspection.
Smith 2	11/10/2001 - 11/18/2001	Semi-annual general boiler maintenance and inspection.
Daniel 1	01/20/2001 - 03/04/2001	Semi-annual general boiler maintenance and inspection.
Daniel 1	12/01/2001 - 12/16/2001	Semi-annual general boiler maintenance and inspection.
Daniel 2	03/24/2001 - 04/08/2001	Semi-annual general boiler maintenance and inspection.
Daniel 2	09/15/2001 - 10/27/2001	Semi-annual general boiler maintenance and inspection.

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Notes Regarding Estimated Planned Outage Schedules

Gulf Power Company

Period of: January 2001 - December 2001

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 2001 - December 2001, the outages shown below are currently planned and could be rescheduled for the target period.

Plant & Unit	Planned Outage Dates	Reason for Outage
	None	

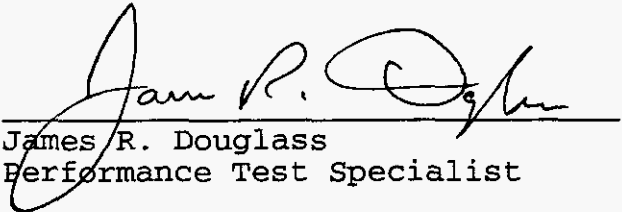
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AFFIDAVIT

STATE OF FLORIDA )  
                                  )  
COUNTY OF ESCAMBIA )

Docket No. 000001-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 19th day of September, 2000.

  
Notary Public, State of Florida at Large

Commission Number:  
Commission Expires:

