

GULF POWER COMPANY  
TESTIMONY AND EXHIBITS OF  
L. S. NOACK

GENERATING PERFORMANCE INCENTIVE FACTOR

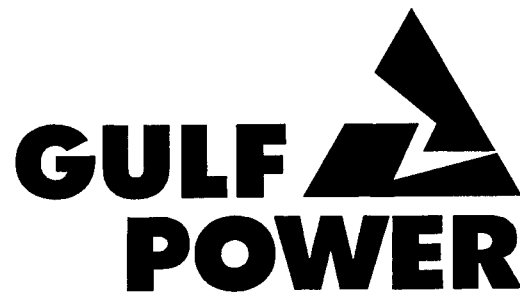
TARGETS FOR

JANUARY 2008 - DECEMBER 2008

Before

THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 070001-EI



**A SOUTHERN COMPANY**

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1 **GULF POWER COMPANY**

2 **Before the Florida Public Service Commission**

3 **Direct Testimony of**

4 **L. S. Noack**

5 **Docket No. 070001-EI**

6 **Date of Filing: September 4, 2007**

7

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

9 A. My name is Lonzelle S. Noack. My business address is One Energy Place,  
10 Pensacola, Florida 32520-0335. My current job position is Power Generation  
11 Specialist, Senior for Gulf Power Company.

12

13 Q. Please describe your educational and business background.

14 A. I received my Bachelor of Science degree in Environmental Engineering from the  
15 University of Florida in 1995 and received my Master of Business Administration  
16 degree from the University of West Florida in 2000. I joined Gulf Power in 1995  
17 as an Environmental Engineer and served in that role with increasing levels of  
18 responsibility for over six years. Major responsibilities included coordination of  
19 federal and state air-related compliance testing for all Gulf Power generating units,  
20 management of the Continuous Emission Monitoring (CEM) System program at  
21 each of the Company's generating facilities, and coordination of the Company's air  
22 compliance reporting to state and federal regulatory agencies. I was also  
23 responsible for serving as Gulf's Environmental Subject Matter Expert on  
24 Company and system-wide compliance teams. As previously mentioned in my  
25 testimony, my current job position is Power Generation Specialist, Senior at Gulf

1 Power Company. In this position, I am responsible for preparing all GPIF filings  
2 as well as other generating plant reliability and heat rate performance reporting.

3

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

5 A. The purpose of my testimony is to present GPIF targets for Gulf Power Company for the  
6 period of January 1, 2008 through December 31, 2008.

7

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

10 A. Yes. I have prepared one exhibit consisting of three schedules.

11

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

13 A. Yes, it was.

14

15 Counsel: We ask that Ms. Noack's exhibit consisting of three schedules be  
16 marked for identification as Exhibit\_(LSN-2).

17

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

19 A. We propose that Crist Units 4, 5, 6, and 7, Smith Units 1 and 2, and Daniel Units 1  
20 and 2, continue to be the Company's GPIF units. The projected net generation  
21 from these units, which represent all of Gulf's qualifying base and intermediate  
22 load units for GPIF, is approximately 80% of Gulf's projected net generation for  
23 2008.

24

25 Q. What are the target heat rates Gulf proposes to use in the GPIF for these units for

1 the performance period January 1, 2008 through December 31, 2008?

2 A. I would like to refer you to page 47 of Schedule 1 of my exhibit where these targets  
3 are listed.

4  
5 Q. How were these proposed target heat rates determined?

6 A. They were determined according to the GPIF Implementation Manual procedures  
7 for Gulf. For Daniel Units 1 and 2, the use of the Btu/lb independent variable that  
8 was stipulated and approved in Commission Order PSC-99-2512-FOF-EI and used  
9 in the 2006 GPIF Target Filing, Docket No. 060001-EI, was evaluated. However,  
10 the results of the regression analyses indicated that the Btu/lb variable was not  
11 statistically significant for this performance period and was, therefore, not included  
12 in the target heat rate equations for Daniel Units 1 and 2.

13  
14 Q. Describe how the targets were determined for Gulf's proposed GPIF units.

15 A. Page 2 of Schedule 1 of my exhibit shows the target average net operating heat rate  
16 equations for the proposed GPIF units, and pages 4 through 43 of Schedule 1  
17 contain the weekly historical data used for the statistical development of these  
18 equations. Pages 44 through 46 of Schedule 1 present the calculations that provide  
19 the unit target heat rates from the target equations.

20  
21 Q. Were the maximum and minimum attainable heat rates for each proposed GPIF  
22 unit, indicated on page 47 of Schedule 1 of your exhibit, calculated according to  
23 the appropriate GPIF Implementation Manual procedures?

24 A. Yes.

25

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

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

5

6 Q. How were the target equivalent availabilities determined?

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

10

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

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

17

18 Q. Ms. Noack, has Gulf completed the GPIF minimum filing requirements data  
19 package?

20 A. Yes, we have completed the minimum filing requirements data package. Schedule  
21 3 of my exhibit contains this information.

22

23 Q. Ms. Noack, would you please summarize your testimony?

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

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1. Crist Units 4, 5, 6 and 7, Smith Units 1 and 2, and Daniel Units 1 and 2 for inclusion under the GPIF for the period of January 1, 2008 through December 31, 2008.
2. The target, maximum attainable, and minimum attainable average net operating heat rates, as proposed by the Company and as shown on page 47 of Schedule 1 and also on page 5 of Schedule 3 of my exhibit.
3. The target, maximum attainable, and minimum attainable equivalent availabilities, as proposed by the Company and as shown on page 4 of Schedule 2 and also on page 5 of Schedule 3 of my exhibit.
4. The weekly average net operating heat rate least squares regression equations, shown on page 2 of Schedule 1 and also on pages 20 through 35 of Schedule 3 of my exhibit, for use in adjusting the annual actual unit heat rates to target conditions.

Q. Ms. Noack, does this conclude your testimony?

A. Yes.

Florida Public Service Commission  
Docket No. 070001-EI  
Gulf Power Company  
Witness: L. S. Noack  
Exhibit No. \_\_\_\_ (LSN-2)

EXHIBIT TO THE TESTIMONY OF

L. S. NOACK

IN FPSC DOCKET 070001-EI

I. DETERMINATION OF HEAT RATE TARGETS



Target Heat Rate Equations

Crist 4 ANOHR =  $10^6 / AKW * [-508.01 + 11.33 * MAR + 21.63 * MAY + 36.12 * JUN + 26.37 * JUL + 39.93 * AUG + 26.37 * SEP + 18.89 * OCT + 12.20 * NOV]$   
+ 28,136 - 0.14571 \* LSRF / AKW

Crist 5 ANOHR =  $10^6 / AKW * [107.79 - 10.84 * APR + 13.62 * MAY + 14.07 * JUN + 22.79 * JUL + 23.21 * AUG + 28.04 * SEP + 23.17 * OCT]$   
+ 8,943

Crist 6 ANOHR =  $10^6 / AKW * [457.20 - 54.35 * FEB - 64.08 * MAR + 52.17 * JUN - 50.16 * OCT]$   
+ 8,761

Crist 7 ANOHR =  $10^6 / AKW * [575.62 - 136.35 * FEB + 117.15 * MAR + 87.68 * APR + 104.03 * JUN]$   
+ 9,081

Smith 1 ANOHR =  $10^6 / AKW * [96.28 + 12.10 * JUN + 11.27 * JUL - 11.78 * OCT]$   
+ 9,613

Smith 2 ANOHR =  $10^6 / AKW * [275.87 - 16.87 * MAY - 11.84 * JUL - 10.07 * SEP]$   
+ 7,294 + 0.00822 \* LSRF / AKW

Daniel 1 ANOHR =  $10^6 / AKW * [695.23]$   
+ 8,686

Daniel 2 ANOHR =  $10^6 / AKW * [398.00 - 123.89 * MAR - 108.06 * MAY - 96.34 * SEP]$   
+ 9,262

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 4 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10576	168	65.9	4504	0	0	0	0	0	0	1	0	0	0	0	0	2004
10726	168	66.5	4576	0	0	0	0	0	0	1	0	0	0	0	0	2004
10664	168	66.3	4571	0	0	0	0	0	0	1	0	0	0	0	0	2004
10740	168	67.9	4767	0	0	0	0	0	0	1	0	0	0	0	0	2004
10703	168	69.6	4974	0	0	0	0	0	0	0	1	0	0	0	0	2004
10768	168	67.7	4747	0	0	0	0	0	0	0	1	0	0	0	0	2004
10524	168	65.9	4502	0	0	0	0	0	0	0	1	0	0	0	0	2004
10576	168	68.4	4796	0	0	0	0	0	0	0	1	0	0	0	0	2004
10620	168	69.8	4959	0	0	0	0	0	0	0	1	0	0	0	0	2004
10553	168	63.3	4195	0	0	0	0	0	0	0	0	1	0	0	0	2004
10763	168	62.3	4104	0	0	0	0	0	0	0	0	1	0	0	0	2004
11010	105	54.9	3239	0	0	0	0	0	0	0	0	1	0	0	1	2004
10564	168	69.0	4870	0	0	0	0	0	0	0	0	1	0	0	0	2004
10724	168	70.0	5027	0	0	0	0	0	0	0	0	0	1	0	0	2004
10636	168	69.7	4966	0	0	0	0	0	0	0	0	0	1	0	0	2004
10536	168	69.9	5009	0	0	0	0	0	0	0	0	0	1	0	0	2004
10609	168	71.6	5223	0	0	0	0	0	0	0	0	0	1	0	0	2004
10632	169	72.9	5391	0	0	0	0	0	0	0	0	0	1	0	0	2004
10667	168	67.4	4732	0	0	0	0	0	0	0	0	0	0	1	0	2004
10635	168	73.0	5386	0	0	0	0	0	0	0	0	0	0	1	0	2004
10661	168	70.4	5076	0	0	0	0	0	0	0	0	0	0	1	0	2004
10860	168	60.4	3759	0	0	0	0	0	0	0	0	0	0	1	0	2004
10362	168	69.3	4898	0	0	0	0	0	0	0	0	0	0	0	0	2004
10433	168	65.0	4315	0	0	0	0	0	0	0	0	0	0	0	0	2004
10530	128	64.0	4310	0	0	0	0	0	0	0	0	0	0	0	1	2004
10538	168	65.3	4375	0	0	0	0	0	0	0	0	0	0	0	0	2004
10662	24	59.2	3676	0	0	0	0	0	0	0	0	0	0	0	0	2004
9884	82	53.8	3048	1	0	0	0	0	0	0	0	0	0	0	0	2005
10143	166	57.7	3493	1	0	0	0	0	0	0	0	0	0	0	1	2005
10454	168	66.7	4609	1	0	0	0	0	0	0	0	0	0	0	0	2005
9876	168	72.0	5219	0	1	0	0	0	0	0	0	0	0	0	0	2005
10472	168	60.7	3828	0	1	0	0	0	0	0	0	0	0	0	0	2005
10417	168	57.8	3477	0	1	0	0	0	0	0	0	0	0	0	0	2005
10569	168	59.8	3740	0	1	0	0	0	0	0	0	0	0	0	0	2005
11368	168	56.4	3279	0	0	1	0	0	0	0	0	0	0	0	0	2005
10538	168	67.3	4633	0	0	1	0	0	0	0	0	0	0	0	0	2005
10540	168	71.4	5183	0	0	1	0	0	0	0	0	0	0	0	0	2005
10549	168	68.2	4772	0	0	1	0	0	0	0	0	0	0	0	0	2005
10575	168	67.6	4736	0	0	1	0	0	0	0	0	0	0	0	0	2005
10445	167	66.4	4458	0	0	0	1	0	0	0	0	0	0	0	0	2005
10485	168	68.9	4799	0	0	0	1	0	0	0	0	0	0	0	0	2005
10588	168	65.8	4470	0	0	0	1	0	0	0	0	0	0	0	0	2005
*12495	95	53.0	3047	0	0	0	1	0	0	0	0	0	0	0	1	2005
10872	168	67.1	4624	0	0	0	0	1	0	0	0	0	0	0	0	2005
10755	168	68.4	4835	0	0	0	0	1	0	0	0	0	0	0	0	2005
10683	168	70.4	5079	0	0	0	0	1	0	0	0	0	0	0	0	2005
10849	168	70.8	5102	0	0	0	0	1	0	0	0	0	0	0	0	2005

Data Base for CRIST 4 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10842	168	66.0	4471	0	0	0	0	1	0	0	0	0	0	0	0	2005
10871	168	68.4	4784	0	0	0	0	0	1	0	0	0	0	0	0	2005
10766	168	68.4	4787	0	0	0	0	0	1	0	0	0	0	0	0	2005
10886	168	67.6	4714	0	0	0	0	0	1	0	0	0	0	0	0	2005
10791	144	72.4	5304	0	0	0	0	0	1	0	0	0	0	0	0	2005
10860	168	72.7	5342	0	0	0	0	0	0	1	0	0	0	0	0	2005
10992	168	61.5	3965	0	0	0	0	0	0	1	0	0	0	0	0	2005
11051	168	65.4	4396	0	0	0	0	0	0	1	0	0	0	0	0	2005
10859	168	73.2	5369	0	0	0	0	0	0	1	0	0	0	0	0	2005
11133	142	64.8	4370	0	0	0	0	0	0	0	1	0	0	0	0	2005
11040	135	70.8	5127	0	0	0	0	0	0	0	1	0	0	0	1	2005
10660	168	73.7	5453	0	0	0	0	0	0	0	1	0	0	0	0	2005
11050	168	73.5	5422	0	0	0	0	0	0	0	1	0	0	0	0	2005
11059	168	71.6	5143	0	0	0	0	0	0	0	1	0	0	0	0	2005
10930	168	68.8	4851	0	0	0	0	0	0	0	0	1	0	0	0	2005
10524	168	71.6	5205	0	0	0	0	0	0	0	0	1	0	0	0	2005
10809	168	71.6	5167	0	0	0	0	0	0	0	0	1	0	0	0	2005
11014	168	63.4	4139	0	0	0	0	0	0	0	0	1	0	0	0	2005
10906	168	66.1	4466	0	0	0	0	0	0	0	0	0	1	0	0	2005
10689	168	70.4	5065	0	0	0	0	0	0	0	0	0	1	0	0	2005
10457	168	68.1	4766	0	0	0	0	0	0	0	0	0	1	0	0	2005
10543	168	70.7	5101	0	0	0	0	0	0	0	0	0	1	0	0	2005
10723	169	72.2	5254	0	0	0	0	0	0	0	0	0	1	0	0	2005
10823	168	66.3	4415	0	0	0	0	0	0	0	0	0	0	1	0	2005
10948	168	59.2	3532	0	0	0	0	0	0	0	0	0	0	1	0	2005
10770	168	61.8	3845	0	0	0	0	0	0	0	0	0	0	1	0	2005
10813	168	61.4	3825	0	0	0	0	0	0	0	0	0	0	1	0	2005
10803	168	66.4	4528	0	0	0	0	0	0	0	0	0	0	0	0	2005
10827	168	66.3	4476	0	0	0	0	0	0	0	0	0	0	0	0	2005
10098	168	69.7	4871	0	0	0	0	0	0	0	0	0	0	0	0	2005
10032	168	64.3	4281	0	0	0	0	0	0	0	0	0	0	0	0	2005
9974	24	69.7	4966	0	0	0	0	0	0	0	0	0	0	0	0	2005
11054	168	67.1	4613	1	0	0	0	0	0	0	0	0	0	0	0	2006
10247	168	71.2	5136	1	0	0	0	0	0	0	0	0	0	0	0	2006
10415	123	66.8	4632	1	0	0	0	0	0	0	0	0	0	0	1	2006
10330	168	68.2	4792	1	0	0	0	0	0	0	0	0	0	0	0	2006
10451	168	70.2	5035	0	1	0	0	0	0	0	0	0	0	0	0	2006
10553	168	71.9	5250	0	1	0	0	0	0	0	0	0	0	0	0	2006
10489	168	71.6	5208	0	1	0	0	0	0	0	0	0	0	0	0	2006
10374	143	73.0	5399	0	1	0	0	0	0	0	0	0	0	0	0	2006
10498	154	68.6	4850	0	0	1	0	0	0	0	0	0	0	0	1	2006
10246	168	73.7	5477	0	0	1	0	0	0	0	0	0	0	0	0	2006
10831	168	75.9	5772	0	0	1	0	0	0	0	0	0	0	0	0	2006
10784	168	75.9	5766	0	0	1	0	0	0	0	0	0	0	0	0	2006
10436	167	75.5	5701	0	0	0	1	0	0	0	0	0	0	0	0	2006
10456	168	74.8	5613	0	0	0	1	0	0	0	0	0	0	0	0	2006
10551	168	74.4	5570	0	0	0	1	0	0	0	0	0	0	0	0	2006

Data Base for CRIST 4 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10749	168	72.4	5273	0	0	0	1	0	0	0	0	0	0	0	0	2006
10347	168	69.8	4944	0	0	0	0	1	0	0	0	0	0	0	0	2006
10770	168	67.6	4690	0	0	0	0	1	0	0	0	0	0	0	0	2006
10693	168	66.3	4518	0	0	0	0	1	0	0	0	0	0	0	0	2006
11000	168	68.0	4752	0	0	0	0	1	0	0	0	0	0	0	0	2006
10931	168	70.9	5102	0	0	0	0	1	0	0	0	0	0	0	0	2006
10802	168	69.7	4975	0	0	0	0	0	1	0	0	0	0	0	0	2006
10935	168	72.5	5295	0	0	0	0	0	1	0	0	0	0	0	0	2006
11014	168	72.8	5359	0	0	0	0	0	1	0	0	0	0	0	0	2006
10918	144	72.0	5246	0	0	0	0	0	1	0	0	0	0	0	0	2006
10316	168	72.5	5294	0	0	0	0	0	0	1	0	0	0	0	0	2006
10915	168	68.5	4837	0	0	0	0	0	0	1	0	0	0	0	0	2006
11293	168	71.0	5125	0	0	0	0	0	0	1	0	0	0	0	0	2006
11346	168	70.4	5018	0	0	0	0	0	0	1	0	0	0	0	0	2006
11724	168	69.8	4956	0	0	0	0	0	0	0	1	0	0	0	0	2006
11903	168	71.9	5209	0	0	0	0	0	0	0	1	0	0	0	0	2006
11756	168	70.7	5056	0	0	0	0	0	0	0	1	0	0	0	0	2006
* 9573	168	69.0	4871	0	0	0	0	0	0	0	1	0	0	0	0	2006
11317	168	68.5	4774	0	0	0	0	0	0	0	1	0	0	0	0	2006
11682	168	67.3	4607	0	0	0	0	0	0	0	0	1	0	0	0	2006
11204	168	65.1	4342	0	0	0	0	0	0	0	0	1	0	0	0	2006
11027	168	64.2	4254	0	0	0	0	0	0	0	0	1	0	0	0	2006
10955	168	60.1	3761	0	0	0	0	0	0	0	0	1	0	0	0	2006
11254	168	61.6	3958	0	0	0	0	0	0	0	0	0	1	0	0	2006
11186	139	64.3	4352	0	0	0	0	0	0	0	0	0	1	0	1	2006
10747	168	67.5	4696	0	0	0	0	0	0	0	0	0	0	1	0	2006
10852	168	67.1	4569	0	0	0	0	0	0	0	0	0	0	1	0	2006
10712	168	69.6	4945	0	0	0	0	0	0	0	0	0	0	1	0	2006
10856	168	66.4	4579	0	0	0	0	0	0	0	0	0	0	1	0	2006
10803	168	68.0	4736	0	0	0	0	0	0	0	0	0	0	0	0	2006
10872	168	66.9	4603	0	0	0	0	0	0	0	0	0	0	0	0	2006
10923	144	63.9	4244	0	0	0	0	0	0	0	0	0	0	0	0	2006
10593	140	58.4	3561	1	0	0	0	0	0	0	0	0	0	0	1	2007
10641	168	60.1	3752	1	0	0	0	0	0	0	0	0	0	0	0	2007
11016	168	65.9	4438	1	0	0	0	0	0	0	0	0	0	0	0	2007
10754	168	65.5	4405	1	0	0	0	0	0	0	0	0	0	0	0	2007
10675	168	67.8	4674	0	1	0	0	0	0	0	0	0	0	0	0	2007
10619	168	64.8	4313	0	1	0	0	0	0	0	0	0	0	0	0	2007
10707	168	69.4	4907	0	1	0	0	0	0	0	0	0	0	0	0	2007
10754	168	63.6	4137	0	1	0	0	0	0	0	0	0	0	0	0	2007
10740	168	60.6	3761	0	0	1	0	0	0	0	0	0	0	0	0	2007
10784	167	64.5	4265	0	0	1	0	0	0	0	0	0	0	0	0	2007
10720	168	64.9	4323	0	0	1	0	0	0	0	0	0	0	0	0	2007
10683	168	64.9	4363	0	0	1	0	0	0	0	0	0	0	0	0	2007
10716	168	67.3	4635	0	0	1	0	0	0	0	0	0	0	0	0	2007
10961	168	62.2	3996	0	0	0	1	0	0	0	0	0	0	0	0	2007
10471	168	69.0	4830	0	0	0	1	0	0	0	0	0	0	0	0	2007

Data Base for CRIST 4 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10679	168	66.7	4536	0	0	0	1	0	0	0	0	0	0	0	0	2007
10890	168	65.8	4434	0	0	0	1	0	0	0	0	0	0	0	0	2007
10869	168	65.7	4410	0	0	0	0	1	0	0	0	0	0	0	0	2007
11058	168	64.8	4314	0	0	0	0	1	0	0	0	0	0	0	0	2007
11133	168	62.7	4087	0	0	0	0	1	0	0	0	0	0	0	0	2007
10919	168	63.3	4176	0	0	0	0	1	0	0	0	0	0	0	0	2007
11095	168	66.5	4565	0	0	0	0	0	1	0	0	0	0	0	0	2007
11148	168	70.5	5023	0	0	0	0	0	1	0	0	0	0	0	0	2007
11378	168	67.5	4666	0	0	0	0	0	1	0	0	0	0	0	0	2007
11331	168	67.8	4663	0	0	0	0	0	1	0	0	0	0	0	0	2007
11359	120	69.9	4939	0	0	0	0	0	1	0	0	0	0	0	0	2007

Data Base for CRIST 4 Target Heat Rate Equation

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

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

AMW Average load on the unit, in MW.

LSRF Load square range factor, in 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 5 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10653	168	65.0	4403	0	0	0	0	0	0	1	0	0	0	0	0	2004
10758	168	65.6	4463	0	0	0	0	0	0	1	0	0	0	0	0	2004
10625	168	65.9	4529	0	0	0	0	0	0	1	0	0	0	0	0	2004
10702	168	67.6	4757	0	0	0	0	0	0	1	0	0	0	0	0	2004
10551	168	68.5	4843	0	0	0	0	0	0	0	1	0	0	0	0	2004
10665	168	67.3	4697	0	0	0	0	0	0	0	1	0	0	0	0	2004
10538	168	67.9	4774	0	0	0	0	0	0	0	1	0	0	0	0	2004
10466	168	71.0	5139	0	0	0	0	0	0	0	1	0	0	0	0	2004
10681	141	71.6	5250	0	0	0	0	0	0	0	1	0	0	0	1	2004
10796	168	63.1	4169	0	0	0	0	0	0	0	0	1	0	0	0	2004
10905	168	63.8	4288	0	0	0	0	0	0	0	0	1	0	0	0	2004
11208	114	53.9	3096	0	0	0	0	0	0	0	0	1	0	0	1	2004
10722	168	67.3	4630	0	0	0	0	0	0	0	0	1	0	0	0	2004
10891	168	69.5	4959	0	0	0	0	0	0	0	0	0	1	0	0	2004
10906	168	70.0	5011	0	0	0	0	0	0	0	0	0	1	0	0	2004
10829	168	69.9	5023	0	0	0	0	0	0	0	0	0	1	0	0	2004
10862	168	71.6	5221	0	0	0	0	0	0	0	0	0	1	0	0	2004
10753	169	73.7	5486	0	0	0	0	0	0	0	0	0	1	0	0	2004
11002	168	66.2	4582	0	0	0	0	0	0	0	0	0	0	1	0	2004
10677	168	70.4	5046	0	0	0	0	0	0	0	0	0	0	1	0	2004
10690	168	69.2	4905	0	0	0	0	0	0	0	0	0	0	1	0	2004
10878	168	59.7	3665	0	0	0	0	0	0	0	0	0	0	1	0	2004
10616	168	68.0	4703	0	0	0	0	0	0	0	0	0	0	0	0	2004
10739	168	65.3	4351	0	0	0	0	0	0	0	0	0	0	0	0	2004
10602	168	65.4	4413	0	0	0	0	0	0	0	0	0	0	0	0	2004
10984	168	62.4	4058	0	0	0	0	0	0	0	0	0	0	0	0	2004
11461	24	46.0	2135	0	0	0	0	0	0	0	0	0	0	0	0	2004
10471	67	48.4	2389	1	0	0	0	0	0	0	0	0	0	0	0	2005
11147	164	59.0	3688	1	0	0	0	0	0	0	0	0	0	0	1	2005
* 9451	168	71.1	5156	1	0	0	0	0	0	0	0	0	0	0	0	2005
9985	168	74.6	5571	0	1	0	0	0	0	0	0	0	0	0	0	2005
10379	168	62.5	4051	0	1	0	0	0	0	0	0	0	0	0	0	2005
11271	168	56.7	3351	0	1	0	0	0	0	0	0	0	0	0	0	2005
• 9499	138	61.5	3960	0	1	0	0	0	0	0	0	0	0	0	1	2005
10605	168	68.8	4820	0	0	1	0	0	0	0	0	0	0	0	0	2005
10706	168	69.1	4872	0	0	1	0	0	0	0	0	0	0	0	0	2005
9846	168	72.7	5335	0	0	1	0	0	0	0	0	0	0	0	0	2005
10750	168	69.5	4934	0	0	1	0	0	0	0	0	0	0	0	0	2005
10646	168	67.8	4744	0	0	1	0	0	0	0	0	0	0	0	0	2005
10047	167	63.5	4117	0	0	0	1	0	0	0	0	0	0	0	0	2005
10014	168	68.2	4676	0	0	0	1	0	0	0	0	0	0	0	0	2005
10039	168	67.8	4702	0	0	0	1	0	0	0	0	0	0	0	0	2005
*11754	125	65.7	4362	0	0	0	1	0	0	0	0	0	0	0	0	2005
11973	147	63.5	4178	0	0	0	0	1	0	0	0	0	0	0	1	2005
10564	168	67.5	4698	0	0	0	0	1	0	0	0	0	0	0	0	2005
10675	150	69.1	4956	0	0	0	0	1	0	0	0	0	0	0	0	2005
10577	168	70.9	5120	0	0	0	0	1	0	0	0	0	0	0	0	2005



Data Base for CRIST 5 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10747	168	66.9	4593	0	0	0	0	1	0	0	0	0	0	0	0	2005
10876	168	67.3	4619	0	0	0	0	0	1	0	0	0	0	0	0	2005
10601	168	69.1	4893	0	0	0	0	0	1	0	0	0	0	0	0	2005
10677	168	67.6	4725	0	0	0	0	0	1	0	0	0	0	0	0	2005
10663	144	72.4	5312	0	0	0	0	0	1	0	0	0	0	0	0	2005
10714	168	72.5	5300	0	0	0	0	0	0	1	0	0	0	0	0	2005
11268	142	63.9	4290	0	0	0	0	0	0	1	0	0	0	0	1	2005
11112	168	65.7	4427	0	0	0	0	0	0	1	0	0	0	0	0	2005
11013	168	73.1	5356	0	0	0	0	0	0	1	0	0	0	0	0	2005
10666	168	72.2	5268	0	0	0	0	0	0	0	1	0	0	0	0	2005
10568	168	72.2	5263	0	0	0	0	0	0	0	1	0	0	0	0	2005
10836	168	72.1	5228	0	0	0	0	0	0	0	1	0	0	0	0	2005
10902	168	73.7	5442	0	0	0	0	0	0	0	1	0	0	0	0	2005
11289	166	66.0	4575	0	0	0	0	0	0	0	1	0	0	0	0	2005
11238	168	65.1	4408	0	0	0	0	0	0	0	0	1	0	0	0	2005
10564	168	70.4	5057	0	0	0	0	0	0	0	0	1	0	0	0	2005
10781	168	73.0	5353	0	0	0	0	0	0	0	0	1	0	0	0	2005
11020	168	66.8	4539	0	0	0	0	0	0	0	0	1	0	0	0	2005
10612	168	74.4	5552	0	0	0	0	0	0	0	0	0	1	0	0	2005
10526	168	72.0	5280	0	0	0	0	0	0	0	0	0	1	0	0	2005
10306	168	69.1	4918	0	0	0	0	0	0	0	0	0	1	0	0	2005
10276	168	72.5	5336	0	0	0	0	0	0	0	0	0	1	0	0	2005
11856	111	71.6	5267	0	0	0	0	0	0	0	0	0	1	0	1	2005
10386	168	72.8	5318	0	0	0	0	0	0	0	0	0	0	1	0	2005
10274	168	73.2	5388	0	0	0	0	0	0	0	0	0	0	1	0	2005
10812	168	70.8	5091	0	0	0	0	0	0	0	0	0	0	1	0	2005
10010	168	70.7	5069	0	0	0	0	0	0	0	0	0	0	1	0	2005
10483	12	67.8	4592	0	0	0	0	0	0	0	0	0	0	0	0	2005
*13096	60	65.2	4489	0	0	0	0	0	0	0	0	0	0	0	1	2005
10050	168	64.9	4327	0	0	0	0	0	0	0	0	0	0	0	0	2005
10058	24	69.0	4872	0	0	0	0	0	0	0	0	0	0	0	0	2005
11016	168	66.3	4503	1	0	0	0	0	0	0	0	0	0	0	0	2006
10353	168	67.3	4615	1	0	0	0	0	0	0	0	0	0	0	0	2006
10359	168	69.9	4957	1	0	0	0	0	0	0	0	0	0	0	0	2006
10514	168	66.8	4591	1	0	0	0	0	0	0	0	0	0	0	0	2006
10385	168	67.6	4704	0	1	0	0	0	0	0	0	0	0	0	0	2006
10337	168	70.8	5086	0	1	0	0	0	0	0	0	0	0	0	0	2006
10523	168	68.9	4836	0	1	0	0	0	0	0	0	0	0	0	0	2006
10247	145	65.1	4378	0	1	0	0	0	0	0	0	0	0	0	0	2006
10462	165	67.8	4754	0	0	1	0	0	0	0	0	0	0	0	1	2006
10124	168	71.9	5208	0	0	1	0	0	0	0	0	0	0	0	0	2006
10863	168	74.2	5517	0	0	1	0	0	0	0	0	0	0	0	0	2006
10808	168	75.8	5746	0	0	1	0	0	0	0	0	0	0	0	0	2006
10422	167	72.8	5315	0	0	0	1	0	0	0	0	0	0	0	0	2006
10375	168	71.3	5101	0	0	0	1	0	0	0	0	0	0	0	0	2006
10440	168	72.4	5286	0	0	0	1	0	0	0	0	0	0	0	0	2006
10542	168	71.1	5081	0	0	0	1	0	0	0	0	0	0	0	0	2006

Data Base for CRIST 5 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10575	168	67.5	4651	0	0	0	0	1	0	0	0	0	0	0	0	2006
10723	168	64.9	4339	0	0	0	0	1	0	0	0	0	0	0	0	2006
11047	168	63.7	4192	0	0	0	0	1	0	0	0	0	0	0	0	2006
10638	168	68.6	4813	0	0	0	0	1	0	0	0	0	0	0	0	2006
10443	168	69.2	4869	0	0	0	0	1	0	0	0	0	0	0	0	2006
10440	168	68.3	4782	0	0	0	0	0	1	0	0	0	0	0	0	2006
*12763	133	67.6	4685	0	0	0	0	0	1	0	0	0	0	0	1	2006
10732	168	70.8	5062	0	0	0	0	0	1	0	0	0	0	0	0	2006
10430	144	69.6	4922	0	0	0	0	0	1	0	0	0	0	0	0	2006
10836	168	69.9	4933	0	0	0	0	0	0	1	0	0	0	0	0	2006
10858	168	70.1	4970	0	0	0	0	0	0	1	0	0	0	0	0	2006
10909	168	70.3	5016	0	0	0	0	0	0	1	0	0	0	0	0	2006
10870	168	69.8	4948	0	0	0	0	0	0	1	0	0	0	0	0	2006
10772	168	70.0	4959	0	0	0	0	0	0	0	1	0	0	0	0	2006
11124	168	70.0	4950	0	0	0	0	0	0	0	1	0	0	0	0	2006
11167	168	69.0	4817	0	0	0	0	0	0	0	1	0	0	0	0	2006
10984	168	69.1	4870	0	0	0	0	0	0	0	1	0	0	0	0	2006
11087	168	69.3	4871	0	0	0	0	0	0	0	1	0	0	0	0	2006
11301	168	68.0	4676	0	0	0	0	0	0	0	0	1	0	0	0	2006
11458	168	63.3	4112	0	0	0	0	0	0	0	0	1	0	0	0	2006
11356	168	61.8	3924	0	0	0	0	0	0	0	0	1	0	0	0	2006
11339	168	60.4	3764	0	0	0	0	0	0	0	0	1	0	0	0	2006
11351	167	60.8	3853	0	0	0	0	0	0	0	0	0	1	0	0	2006
*14390	14	44.3	2126	0	0	0	0	0	0	0	0	0	1	0	1	2006
10660	169	67.6	4635	0	0	0	0	0	0	0	0	0	1	0	0	2006
10453	168	67.3	4640	0	0	0	0	0	0	0	0	0	0	1	0	2006
10668	168	64.8	4258	0	0	0	0	0	0	0	0	0	0	1	0	2006
10498	168	70.7	5057	0	0	0	0	0	0	0	0	0	0	1	0	2006
10344	168	68.0	4771	0	0	0	0	0	0	0	0	0	0	1	0	2006
10608	168	68.2	4760	0	0	0	0	0	0	0	0	0	0	0	0	2006
10613	168	68.8	4853	0	0	0	0	0	0	0	0	0	0	0	0	2006
10526	168	65.2	4415	0	0	0	0	0	0	0	0	0	0	0	0	2006
10838	48	50.4	2621	0	0	0	0	0	0	0	0	0	0	0	0	2006
10606	145	56.1	3277	1	0	0	0	0	0	0	0	0	0	0	1	2007
10425	168	57.9	3482	1	0	0	0	0	0	0	0	0	0	0	0	2007
10741	168	66.6	4540	1	0	0	0	0	0	0	0	0	0	0	0	2007
10807	168	63.8	4173	1	0	0	0	0	0	0	0	0	0	0	0	2007
10080	168	71.5	5181	0	1	0	0	0	0	0	0	0	0	0	0	2007
10812	168	64.0	4184	0	1	0	0	0	0	0	0	0	0	0	0	2007
11816	86	61.1	3905	0	1	0	0	0	0	0	0	0	0	0	1	2007
10717	163	62.6	4029	0	1	0	0	0	0	0	0	0	0	0	0	2007
10526	168	62.0	3944	0	0	1	0	0	0	0	0	0	0	0	0	2007
10644	167	64.7	4295	0	0	1	0	0	0	0	0	0	0	0	0	2007
10649	168	66.6	4553	0	0	1	0	0	0	0	0	0	0	0	0	2007
10527	168	66.6	4582	0	0	1	0	0	0	0	0	0	0	0	0	2007
10561	168	67.7	4697	0	0	1	0	0	0	0	0	0	0	0	0	2007
10731	168	64.8	4302	0	0	0	1	0	0	0	0	0	0	0	0	2007

Data Base for CRIST 5 Target Heat Rate Equation

HR	HOURL	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10327	168	70.5	5039	0	0	0	1	0	0	0	0	0	0	0	0	2007
10427	168	68.2	4759	0	0	0	1	0	0	0	0	0	0	0	0	2007
10500	168	66.0	4474	0	0	0	1	0	0	0	0	0	0	0	0	2007
10638	168	65.7	4418	0	0	0	0	1	0	0	0	0	0	0	0	2007
10725	168	65.7	4428	0	0	0	0	1	0	0	0	0	0	0	0	2007
10818	168	63.2	4155	0	0	0	0	1	0	0	0	0	0	0	0	2007
10790	168	63.9	4265	0	0	0	0	1	0	0	0	0	0	0	0	2007
10742	168	67.1	4631	0	0	0	0	0	1	0	0	0	0	0	0	2007
10697	168	70.9	5088	0	0	0	0	0	1	0	0	0	0	0	0	2007
10900	168	68.8	4851	0	0	0	0	0	1	0	0	0	0	0	0	2007
10985	168	68.2	4738	0	0	0	0	0	1	0	0	0	0	0	0	2007
10704	120	70.9	5071	0	0	0	0	0	1	0	0	0	0	0	0	2007

Data Base for CRIST 5 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 6 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10405	168	241.7	63812	0	0	0	0	0	0	1	0	0	0	0	0	2004
10323	168	250.9	2260	0	0	0	0	0	0	1	0	0	0	0	0	2004
10536	121	248.1	1016	0	0	0	0	0	0	1	0	0	0	0	1	2004
10492	168	250.7	2086	0	0	0	0	0	0	1	0	0	0	0	0	2004
10457	161	235.5	62236	0	0	0	0	0	0	0	1	0	0	0	0	2004
10348	168	259.5	5978	0	0	0	0	0	0	0	1	0	0	0	0	2004
10381	168	257.0	5018	0	0	0	0	0	0	0	1	0	0	0	0	2004
10564	168	274.8	12325	0	0	0	0	0	0	0	1	0	0	0	0	2004
10633	168	282.8	16216	0	0	0	0	0	0	0	1	0	0	0	0	2004
10657	168	240.7	63485	0	0	0	0	0	0	0	0	1	0	0	0	2004
10434	168	233.0	60185	0	0	0	0	0	0	0	0	1	0	0	0	2004
*11310	20	89.3	10447	0	0	0	0	0	0	0	0	1	0	0	1	2004
*10333	168	195.1	44119	0	0	0	0	0	0	0	0	1	0	0	0	2004
9957	168	282.2	16147	0	0	0	0	0	0	0	0	0	1	0	0	2004
9897	152	288.2	18984	0	0	0	0	0	0	0	0	0	1	0	0	2004
10234	148	257.0	5891	0	0	0	0	0	0	0	0	0	1	0	1	2004
10558	166	287.4	18301	0	0	0	0	0	0	0	0	0	1	0	0	2004
10266	131	291.9	21278	0	0	0	0	0	0	0	0	0	1	0	1	2004
10296	168	280.0	14758	0	0	0	0	0	0	0	0	0	0	1	0	2004
* 9643	139	232.9	62546	0	0	0	0	0	0	0	0	0	0	1	1	2004
9623	168	278.2	14601	0	0	0	0	0	0	0	0	0	0	1	0	2004
11173	168	243.2	64217	0	0	0	0	0	0	0	0	0	0	1	0	2004
9850	45	298.9	24346	0	0	0	0	0	0	0	0	0	0	0	0	2004
10615	143	272.3	12156	0	0	0	0	0	0	0	0	0	0	0	1	2004
10506	166	286.3	18246	0	0	0	0	0	0	0	0	0	0	0	0	2004
11312	24	236.3	59120	0	0	0	0	0	0	0	0	0	0	0	0	2004
* 8644	168	250.8	1572	1	0	0	0	0	0	0	0	0	0	0	0	2005
* 8266	168	285.0	16877	1	0	0	0	0	0	0	0	0	0	0	0	2005
* 8308	168	276.3	12709	1	0	0	0	0	0	0	0	0	0	0	0	2005
*16833	152	265.8	7601	1	0	0	0	0	0	0	0	0	0	0	0	2005
* 8086	167	289.6	19818	0	1	0	0	0	0	0	0	0	0	0	0	2005
10879	168	247.5	64878	0	1	0	0	0	0	0	0	0	0	0	0	2005
9957	168	235.5	58384	0	1	0	0	0	0	0	0	0	0	0	0	2005
10228	168	253.4	2246	0	1	0	0	0	0	0	0	0	0	0	0	2005
10781	168	268.8	8772	0	0	1	0	0	0	0	0	0	0	0	0	2005
* 9349	168	283.7	16270	0	0	1	0	0	0	0	0	0	0	0	0	2005
*11950	137	277.1	13710	0	0	1	0	0	0	0	0	0	0	0	1	2005
9532	168	274.0	11524	0	0	1	0	0	0	0	0	0	0	0	0	2005
10952	168	248.6	64741	0	0	1	0	0	0	0	0	0	0	0	0	2005
* 8634	167	286.4	18101	0	0	0	1	0	0	0	0	0	0	0	0	2005
* 8759	168	291.2	20106	0	0	0	1	0	0	0	0	0	0	0	0	2005
* 8925	167	263.9	7681	0	0	0	1	0	0	0	0	0	0	0	0	2005
*20445	97	249.3	2895	0	0	0	1	0	0	0	0	0	0	0	3	2005
10365	168	275.9	12688	0	0	0	0	1	0	0	0	0	0	0	0	2005
10584	168	265.1	8120	0	0	0	0	1	0	0	0	0	0	0	0	2005
10541	168	272.8	11652	0	0	0	0	1	0	0	0	0	0	0	0	2005
10629	168	284.8	17037	0	0	0	0	1	0	0	0	0	0	0	0	2005

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
10629	168	253.4	2115	0	0	0	0	1	0	0	0	0	0	0	0	2005
10722	168	279.1	13970	0	0	0	0	0	1	0	0	0	0	0	0	2005
10776	139	261.2	4198	0	0	0	0	0	1	0	0	0	0	0	0	2005
10587	135	264.8	8582	0	0	0	0	0	1	0	0	0	0	0	1	2005
10445	144	274.2	12256	0	0	0	0	0	1	0	0	0	0	0	0	2005
10477	168	239.4	63010	0	0	0	0	0	0	1	0	0	0	0	0	2005
10958	160	252.7	4867	0	0	0	0	0	0	1	0	0	0	0	0	2005
10617	168	286.8	17926	0	0	0	0	0	0	1	0	0	0	0	0	2005
10714	168	290.3	19916	0	0	0	0	0	0	1	0	0	0	0	0	2005
9848	168	285.9	17619	0	0	0	0	0	0	0	1	0	0	0	0	2005
* 9057	166	276.6	13725	0	0	0	0	0	0	0	1	0	0	0	0	2005
* 9076	168	277.2	13856	0	0	0	0	0	0	0	1	0	0	0	0	2005
* 9199	168	285.6	17341	0	0	0	0	0	0	0	1	0	0	0	0	2005
*18340	133	269.0	11056	0	0	0	0	0	0	0	1	0	0	0	0	2005
* 8971	168	281.4	15203	0	0	0	0	0	0	0	0	1	0	0	0	2005
*11998	146	276.7	13996	0	0	0	0	0	0	0	0	1	0	0	0	2005
*13219	28	270.4	11736	0	0	0	0	0	0	0	0	1	0	0	0	2005
16439	30	88.0	8549	0	0	0	0	0	0	0	0	0	0	1	1	2005
*19524	140	175.1	35083	0	0	0	0	0	0	0	0	0	0	1	0	2005
*11898	138	254.0	2600	0	0	0	0	0	0	0	0	0	0	0	1	2005
9770	136	262.9	7895	0	0	0	0	0	0	0	0	0	0	0	1	2005
* 6647	168	294.7	21426	0	0	0	0	0	0	0	0	0	0	0	0	2005
10341	168	254.7	2701	0	0	0	0	0	0	0	0	0	0	0	0	2005
• 6389	24	258.8	3121	0	0	0	0	0	0	0	0	0	0	0	0	2005
* 7503	153	254.8	3673	1	0	0	0	0	0	0	0	0	0	0	0	2006
10788	168	279.3	13395	1	0	0	0	0	0	0	0	0	0	0	0	2006
10729	168	267.9	8415	1	0	0	0	0	0	0	0	0	0	0	0	2006
10870	168	252.8	720	1	0	0	0	0	0	0	0	0	0	0	0	2006
10520	168	263.8	6602	0	1	0	0	0	0	0	0	0	0	0	0	2006
10383	168	274.5	11076	0	1	0	0	0	0	0	0	0	0	0	0	2006
10364	168	276.9	12448	0	1	0	0	0	0	0	0	0	0	0	0	2006
10204	140	256.1	2005	0	1	0	0	0	0	0	0	0	0	0	1	2006
*11968	139	281.8	15718	0	0	1	0	0	0	0	0	0	0	0	1	2006
9727	168	280.5	14512	0	0	1	0	0	0	0	0	0	0	0	0	2006
9562	145	276.7	13330	0	0	1	0	0	0	0	0	0	0	0	0	2006
*10257	124	201.5	44671	0	0	0	0	1	0	0	0	0	0	0	1	2006
11344	168	240.3	60470	0	0	0	0	1	0	0	0	0	0	0	0	2006
10066	168	267.2	7727	0	0	0	0	1	0	0	0	0	0	0	0	2006
10498	168	288.6	17895	0	0	0	0	0	1	0	0	0	0	0	0	2006
10637	168	290.1	18754	0	0	0	0	0	1	0	0	0	0	0	0	2006
10514	168	287.3	17650	0	0	0	0	0	1	0	0	0	0	0	0	2006
10469	144	293.3	20572	0	0	0	0	0	1	0	0	0	0	0	0	2006
10607	168	290.0	18975	0	0	0	0	0	0	1	0	0	0	0	0	2006
10493	168	291.9	19942	0	0	0	0	0	0	1	0	0	0	0	0	2006
10545	168	279.2	14117	0	0	0	0	0	0	1	0	0	0	0	0	2006
10329	168	291.8	19716	0	0	0	0	0	0	1	0	0	0	0	0	2006
10322	168	290.3	18792	0	0	0	0	0	0	0	1	0	0	0	0	2006

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
10820	134	271.7	11193	0	0	0	0	0	0	0	1	0	0	0	1	2006
10423	168	295.9	22058	0	0	0	0	0	0	0	1	0	0	0	0	2006
10400	168	291.9	19747	0	0	0	0	0	0	0	1	0	0	0	0	2006
10534	168	290.9	19215	0	0	0	0	0	0	0	1	0	0	0	0	2006
10879	105	266.3	9346	0	0	0	0	0	0	0	0	1	0	0	2	2006
10677	168	280.3	13798	0	0	0	0	0	0	0	0	1	0	0	0	2006
10503	168	259.5	3112	0	0	0	0	0	0	0	0	1	0	0	0	2006
10515	168	266.8	7001	0	0	0	0	0	0	0	0	1	0	0	0	2006
10406	168	281.3	13746	0	0	0	0	0	0	0	0	0	1	0	0	2006
10268	168	277.4	11948	0	0	0	0	0	0	0	0	0	1	0	0	2006
10408	168	275.6	10793	0	0	0	0	0	0	0	0	0	1	0	0	2006
10273	157	262.1	6195	0	0	0	0	0	0	0	0	0	1	0	0	2006
10453	95	260.8	5803	0	0	0	0	0	0	0	0	0	1	0	1	2006
10529	168	278.6	12720	0	0	0	0	0	0	0	0	0	0	1	0	2006
10263	168	259.5	2766	0	0	0	0	0	0	0	0	0	0	1	0	2006
10380	168	281.1	13751	0	0	0	0	0	0	0	0	0	0	1	0	2006
10275	168	271.4	9087	0	0	0	0	0	0	0	0	0	0	1	0	2006
10420	168	273.8	10354	0	0	0	0	0	0	0	0	0	0	0	0	2006
10346	118	259.9	3846	0	0	0	0	0	0	0	0	0	0	0	0	2006
*16417	62	120.0	14784	0	0	0	0	0	0	0	0	0	0	0	1	2006
11148	168	185.3	36836	0	0	0	0	0	0	0	0	0	0	0	0	2006
* 9881	24	176.2	32896	0	0	0	0	0	0	0	0	0	0	0	0	2006
10465	168	204.2	44974	1	0	0	0	0	0	0	0	0	0	0	0	2007
10532	168	193.4	39419	1	0	0	0	0	0	0	0	0	0	0	0	2007
10423	168	239.3	59467	1	0	0	0	0	0	0	0	0	0	0	0	2007
10643	168	250.2	65107	1	0	0	0	0	0	0	0	0	0	0	0	2007
*12129	126	256.4	3291	0	1	0	0	0	0	0	0	0	0	0	1	2007
10392	168	234.8	58029	0	1	0	0	0	0	0	0	0	0	0	0	2007
10234	168	263.8	6783	0	1	0	0	0	0	0	0	0	0	0	0	2007
10373	168	239.4	59224	0	1	0	0	0	0	0	0	0	0	0	0	2007
10523	168	228.5	53847	0	0	1	0	0	0	0	0	0	0	0	0	2007
10479	167	239.1	60368	0	0	1	0	0	0	0	0	0	0	0	0	2007
10524	168	238.8	60353	0	0	1	0	0	0	0	0	0	0	0	0	2007
10502	168	242.4	62769	0	0	1	0	0	0	0	0	0	0	0	0	2007
10745	168	243.8	63142	0	0	1	0	0	0	0	0	0	0	0	0	2007
10741	168	237.5	59399	0	0	0	1	0	0	0	0	0	0	0	0	2007
10141	168	265.6	6719	0	0	0	1	0	0	0	0	0	0	0	0	2007
10222	168	252.5	382	0	0	0	1	0	0	0	0	0	0	0	0	2007
11057	95	239.6	60606	0	0	0	1	0	0	0	0	0	0	0	0	2007
10931	167	235.5	59031	0	0	0	0	1	0	0	0	0	0	0	1	2007
10648	168	241.6	62389	0	0	0	0	1	0	0	0	0	0	0	0	2007
10784	168	230.2	57342	0	0	0	0	1	0	0	0	0	0	0	0	2007
10667	168	233.9	58658	0	0	0	0	1	0	0	0	0	0	0	0	2007
10784	168	250.8	1451	0	0	0	0	0	1	0	0	0	0	0	0	2007
10676	168	275.2	11700	0	0	0	0	0	1	0	0	0	0	0	0	2007
10782	168	266.5	8063	0	0	0	0	0	1	0	0	0	0	0	0	2007
10791	168	262.3	5393	0	0	0	0	0	1	0	0	0	0	0	0	2007

Florida Public Service Commission  
Docket No. 070001-EI  
Gulf Power Company  
Witness: L. S. Noack  
Exhibit No. \_\_\_\_ (LSN-2)  
Schedule No. 1  
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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
10478	120	278.3	12931	0	0	0	0	0	1	0	0	0	0	0	0	2007



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
10406	139	377.9	26238	0	0	0	0	0	0	1	0	0	0	0	1	2004
10399	168	406.5	44776	0	0	0	0	0	0	1	0	0	0	0	0	2004
10450	136	372.8	24340	0	0	0	0	0	0	1	0	0	0	0	1	2004
10319	168	413.9	49849	0	0	0	0	0	0	1	0	0	0	0	0	2004
10688	162	359.8	14783	0	0	0	0	0	0	0	1	0	0	0	0	2004
10879	168	296.0	24387	0	0	0	0	0	0	0	1	0	0	0	0	2004
10410	168	413.3	49499	0	0	0	0	0	0	0	1	0	0	0	0	2004
10338	168	448.8	8948	0	0	0	0	0	0	0	1	0	0	0	0	2004
10383	147	429.3	62430	0	0	0	0	0	0	0	1	0	0	0	0	2004
10334	168	387.6	32273	0	0	0	0	0	0	0	0	1	0	0	0	2004
10478	168	384.0	30326	0	0	0	0	0	0	0	0	1	0	0	0	2004
*15913	4	30.0	2630	0	0	0	0	0	0	0	0	1	0	0	0	2004
10774	91	397.8	38711	0	0	0	0	0	0	0	0	1	0	0	1	2004
10366	168	441.4	4042	0	0	0	0	0	0	0	0	0	1	0	0	2004
10525	168	369.8	21088	0	0	0	0	0	0	0	0	0	1	0	0	2004
10317	168	436.3	649	0	0	0	0	0	0	0	0	0	1	0	0	2004
10459	168	468.4	23070	0	0	0	0	0	0	0	0	0	1	0	0	2004
10493	137	447.4	8803	0	0	0	0	0	0	0	0	0	1	0	1	2004
10223	168	450.7	10122	0	0	0	0	0	0	0	0	0	0	1	0	2004
10214	168	463.7	19382	0	0	0	0	0	0	0	0	0	0	1	0	2004
10281	168	442.1	4651	0	0	0	0	0	0	0	0	0	0	1	0	2004
10357	168	410.4	47081	0	0	0	0	0	0	0	0	0	0	1	0	2004
10165	168	461.8	18458	0	0	0	0	0	0	0	0	0	0	0	0	2004
10187	168	431.9	62199	0	0	0	0	0	0	0	0	0	0	0	0	2004
10179	168	451.6	10664	0	0	0	0	0	0	0	0	0	0	0	0	2004
10448	168	457.8	15997	0	0	0	0	0	0	0	0	0	0	0	0	2004
10006	24	400.8	35669	0	0	0	0	0	0	0	0	0	0	0	0	2004
11377	168	409.0	44831	1	0	0	0	0	0	0	0	0	0	0	0	2005
• 8439	168	462.4	18274	1	0	0	0	0	0	0	0	0	0	0	0	2005
10390	168	457.6	14197	1	0	0	0	0	0	0	0	0	0	0	0	2005
10474	167	456.2	13598	1	0	0	0	0	0	0	0	0	0	0	0	2005
• 5180	47	215.2	49335	0	0	0	1	0	0	0	0	0	0	0	1	2005
*16597	156	202.5	42371	0	0	0	1	0	0	0	0	0	0	0	0	2005
12816	113	213.8	46622	0	0	0	1	0	0	0	0	0	0	0	1	2005
*10701	168	203.3	42704	0	0	0	0	1	0	0	0	0	0	0	0	2005
11455	168	178.5	32498	0	0	0	0	1	0	0	0	0	0	0	0	2005
11492	144	183.5	33896	0	0	0	0	1	0	0	0	0	0	0	0	2005
*15081	9	207.4	53436	0	0	0	0	1	0	0	0	0	0	0	1	2005
12472	124	253.9	840	0	0	0	0	1	0	0	0	0	0	0	1	2005
10893	168	277.3	11386	0	0	0	0	0	1	0	0	0	0	0	0	2005
10891	99	274.2	11943	0	0	0	0	0	1	0	0	0	0	0	1	2005
11026	168	273.1	9515	0	0	0	0	0	1	0	0	0	0	0	0	2005
11265	144	255.3	769	0	0	0	0	0	1	0	0	0	0	0	0	2005
10962	168	281.6	13822	0	0	0	0	0	0	1	0	0	0	0	0	2005
10965	58	255.6	1875	0	0	0	0	0	0	1	0	0	0	0	0	2005
12778	138	156.1	28846	0	0	0	0	0	0	1	0	0	0	0	1	2005
11144	168	278.5	12014	0	0	0	0	0	0	0	1	0	0	0	0	2005

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
11190	168	278.4	11955	0	0	0	0	0	0	0	1	0	0	0	0	2005
11106	168	275.6	10569	0	0	0	0	0	0	0	1	0	0	0	0	2005
10992	168	277.6	11504	0	0	0	0	0	0	0	1	0	0	0	0	2005
10958	168	276.6	11034	0	0	0	0	0	0	0	1	0	0	0	0	2005
12434	143	267.9	7278	0	0	0	0	0	0	0	0	1	0	0	0	2005
9788	66	443.2	4160	0	0	0	0	0	0	0	0	1	0	0	1	2005
9902	168	437.8	873	0	0	0	0	0	0	0	0	1	0	0	0	2005
*11801	129	452.5	12315	0	0	0	0	0	0	0	0	1	0	0	1	2005
11090	164	378.6	22266	0	0	0	0	0	0	0	0	0	1	0	0	2005
10245	157	452.6	11950	0	0	0	0	0	0	0	0	0	1	0	0	2005
10300	150	438.7	1059	0	0	0	0	0	0	0	0	0	1	0	0	2005
10299	168	462.1	18247	0	0	0	0	0	0	0	0	0	1	0	0	2005
* 9188	169	455.7	14435	0	0	0	0	0	0	0	0	0	1	0	0	2005
*21874	109	413.6	51114	0	0	0	0	0	0	0	0	0	0	1	1	2005
* 7814	168	462.2	18698	0	0	0	0	0	0	0	0	0	0	1	0	2005
* 7759	168	461.6	17839	0	0	0	0	0	0	0	0	0	0	1	0	2005
* 9370	168	442.6	3529	0	0	0	0	0	0	0	0	0	0	1	0	2005
10952	168	426.9	57542	0	0	0	0	0	0	0	0	0	0	0	0	2005
10368	168	466.8	21562	0	0	0	0	0	0	0	0	0	0	0	0	2005
10353	168	458.6	16090	0	0	0	0	0	0	0	0	0	0	0	0	2005
10324	168	437.9	65497	0	0	0	0	0	0	0	0	0	0	0	0	2005
10287	24	438.0	65125	0	0	0	0	0	0	0	0	0	0	0	0	2005
10061	168	433.3	61617	1	0	0	0	0	0	0	0	0	0	0	0	2006
10088	168	455.9	12042	1	0	0	0	0	0	0	0	0	0	0	0	2006
10124	168	458.1	14385	1	0	0	0	0	0	0	0	0	0	0	0	2006
10206	168	442.0	1179	1	0	0	0	0	0	0	0	0	0	0	0	2006
10278	96	432.4	60120	0	1	0	0	0	0	0	0	0	0	0	0	2006
10477	146	425.0	54423	0	1	0	0	0	0	0	0	0	0	0	1	2006
10343	168	464.8	19881	0	1	0	0	0	0	0	0	0	0	0	0	2006
10367	168	459.3	15325	0	1	0	0	0	0	0	0	0	0	0	0	2006
10404	168	466.4	21012	0	0	1	0	0	0	0	0	0	0	0	0	2006
10512	168	459.2	15233	0	0	1	0	0	0	0	0	0	0	0	0	2006
10475	168	457.9	13811	0	0	1	0	0	0	0	0	0	0	0	0	2006
10562	168	463.5	18877	0	0	1	0	0	0	0	0	0	0	0	0	2006
10946	140	388.6	25562	0	0	1	0	0	0	0	0	0	0	0	1	2006
11428	144	401.8	32380	0	0	0	1	0	0	0	0	0	0	0	0	2006
10003	165	442.7	2955	0	0	0	1	0	0	0	0	0	0	0	1	2006
10161	168	465.5	20138	0	0	0	1	0	0	0	0	0	0	0	0	2006
10121	168	459.9	15693	0	0	0	1	0	0	0	0	0	0	0	0	2006
9849	168	445.0	3855	0	0	0	0	1	0	0	0	0	0	0	0	2006
9867	168	450.2	7480	0	0	0	0	1	0	0	0	0	0	0	0	2006
9813	168	463.3	18438	0	0	0	0	1	0	0	0	0	0	0	0	2006
*11598	145	449.3	8015	0	0	0	0	1	0	0	0	0	0	0	0	2006
11022	119	407.7	47986	0	0	0	0	1	0	0	0	0	0	0	1	2006
10533	168	450.1	8498	0	0	0	0	0	1	0	0	0	0	0	0	2006
10485	168	464.4	19753	0	0	0	0	0	1	0	0	0	0	0	0	2006
10712	168	453.7	10649	0	0	0	0	0	1	0	0	0	0	0	0	2006

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
10745	86	368.7	12867	0	0	0	0	0	1	0	0	0	0	0	1	2006
10669	168	372.4	14413	0	0	0	0	0	0	1	0	0	0	0	0	2006
10450	168	450.7	7635	0	0	0	0	0	0	1	0	0	0	0	0	2006
10551	168	458.5	14160	0	0	0	0	0	0	1	0	0	0	0	0	2006
10633	168	438.4	1040	0	0	0	0	0	0	1	0	0	0	0	0	2006
10968	60	396.2	36741	0	0	0	0	0	0	0	1	0	0	0	1	2006
10754	168	436.7	61663	0	0	0	0	0	0	0	1	0	0	0	0	2006
10783	142	442.2	300	0	0	0	0	0	0	0	1	0	0	0	0	2006
10850	163	420.0	52090	0	0	0	0	0	0	0	1	0	0	0	1	2006
10709	168	441.4	64603	0	0	0	0	0	0	0	1	0	0	0	0	2006
10564	168	436.1	60883	0	0	0	0	0	0	0	0	1	0	0	0	2006
10639	168	427.0	54335	0	0	0	0	0	0	0	0	1	0	0	0	2006
10613	168	421.5	50310	0	0	0	0	0	0	0	0	1	0	0	0	2006
10507	168	420.8	50044	0	0	0	0	0	0	0	0	1	0	0	0	2006
10694	134	378.2	23697	0	0	0	0	0	0	0	0	0	1	0	1	2006
10369	168	442.2	1523	0	0	0	0	0	0	0	0	0	1	0	0	2006
10678	168	411.5	40771	0	0	0	0	0	0	0	0	0	1	0	0	2006
10379	168	453.5	9657	0	0	0	0	0	0	0	0	0	1	0	0	2006
10485	169	446.2	3691	0	0	0	0	0	0	0	0	0	1	0	0	2006
*10575	3	208.7	60203	0	0	0	0	0	0	0	0	0	0	1	0	2006
14937	18	131.6	19802	0	0	0	0	0	0	0	0	0	0	1	0	2006
10397	168	425.0	55548	0	0	0	0	0	0	0	0	0	0	0	0	2006
10387	168	442.3	1293	0	0	0	0	0	0	0	0	0	0	0	0	2006
10292	168	427.6	57379	0	0	0	0	0	0	0	0	0	0	0	0	2006
10318	168	410.0	42591	0	0	0	0	0	0	0	0	0	0	0	0	2006
10231	24	397.2	30005	0	0	0	0	0	0	0	0	0	0	0	0	2006
10538	168	390.5	26847	1	0	0	0	0	0	0	0	0	0	0	0	2007
10495	168	415.2	46610	1	0	0	0	0	0	0	0	0	0	0	0	2007
10281	168	425.3	53672	1	0	0	0	0	0	0	0	0	0	0	0	2007
10666	168	429.2	58239	1	0	0	0	0	0	0	0	0	0	0	0	2007
10007	168	442.2	1278	0	1	0	0	0	0	0	0	0	0	0	0	2007
9439	168	438.5	63323	0	1	0	0	0	0	0	0	0	0	0	0	2007
9809	63	374.5	20798	0	1	0	0	0	0	0	0	0	0	0	1	2007
*11746	168	422.3	50997	0	1	0	0	0	0	0	0	0	0	0	0	2007
11325	168	404.6	39145	0	0	1	0	0	0	0	0	0	0	0	0	2007
10552	167	428.9	56816	0	0	1	0	0	0	0	0	0	0	0	0	2007
10661	168	426.5	55519	0	0	1	0	0	0	0	0	0	0	0	0	2007
10752	168	412.7	43266	0	0	1	0	0	0	0	0	0	0	0	0	2007
10819	168	413.9	41459	0	0	1	0	0	0	0	0	0	0	0	0	2007
10880	168	389.3	22195	0	0	0	1	0	0	0	0	0	0	0	0	2007
11309	48	377.2	15296	0	0	0	1	0	0	0	0	0	0	0	0	2007
10657	156	434.1	62723	0	0	0	1	0	0	0	0	0	0	0	1	2007
10549	136	440.6	49	0	0	0	0	1	0	0	0	0	0	0	0	2007
10780	161	402.3	38824	0	0	0	0	1	0	0	0	0	0	0	1	2007
10730	168	410.7	43380	0	0	0	0	1	0	0	0	0	0	0	0	2007
10666	164	397.9	36491	0	0	0	0	1	0	0	0	0	0	0	0	2007
10848	168	432.0	60288	0	0	0	0	0	1	0	0	0	0	0	0	2007

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
11198	168	437.3	63944	0	0	0	0	0	1	0	0	0	0	0	0	2007
11017	168	443.5	3296	0	0	0	0	0	1	0	0	0	0	0	0	2007
11123	168	446.7	5409	0	0	0	0	0	1	0	0	0	0	0	0	2007
* 1502	14	448.6	7103	0	0	0	0	0	1	0	0	0	0	0	0	2007

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
10344	168	125.2	17493	0	0	0	0	0	0	1	0	0	0	0	0	2004
10178	168	134.1	19565	0	0	0	0	0	0	1	0	0	0	0	0	2004
10172	168	130.2	18570	0	0	0	0	0	0	1	0	0	0	0	0	2004
10013	168	138.3	20555	0	0	0	0	0	0	1	0	0	0	0	0	2004
9873	168	140.1	20952	0	0	0	0	0	0	0	1	0	0	0	0	2004
9928	168	136.5	19970	0	0	0	0	0	0	0	1	0	0	0	0	2004
9925	168	136.9	20126	0	0	0	0	0	0	0	1	0	0	0	0	2004
10183	168	150.1	23160	0	0	0	0	0	0	0	1	0	0	0	0	2004
10267	168	152.8	23870	0	0	0	0	0	0	0	1	0	0	0	0	2004
10310	168	124.2	17238	0	0	0	0	0	0	0	0	1	0	0	0	2004
10336	168	125.0	17445	0	0	0	0	0	0	0	0	1	0	0	0	2004
10360	168	121.8	16755	0	0	0	0	0	0	0	0	1	0	0	0	2004
10079	166	140.0	20897	0	0	0	0	0	0	0	0	1	0	0	0	2004
10082	168	151.4	23550	0	0	0	0	0	0	0	0	0	1	0	0	2004
9929	168	156.9	24857	0	0	0	0	0	0	0	0	0	1	0	0	2004
10007	168	146.4	22220	0	0	0	0	0	0	0	0	0	1	0	0	2004
9919	168	149.8	23157	0	0	0	0	0	0	0	0	0	1	0	0	2004
9795	169	152.8	24007	0	0	0	0	0	0	0	0	0	1	0	0	2004
9852	47	148.8	22986	0	0	0	0	0	0	0	0	0	0	1	0	2004
10622	104	137.6	20429	0	0	0	0	0	0	0	0	0	0	1	1	2004
10393	168	140.9	20712	0	0	0	0	0	0	0	0	0	0	1	0	2004
10224	168	153.2	24007	0	0	0	0	0	0	0	0	0	0	0	0	2004
10409	168	136.8	20185	0	0	0	0	0	0	0	0	0	0	0	0	2004
10283	168	153.1	23813	0	0	0	0	0	0	0	0	0	0	0	0	2004
10414	168	152.6	23712	0	0	0	0	0	0	0	0	0	0	0	0	2004
10131	24	131.0	17776	0	0	0	0	0	0	0	0	0	0	0	0	2004
10375	168	137.2	20076	1	0	0	0	0	0	0	0	0	0	0	0	2005
10196	168	155.4	24395	1	0	0	0	0	0	0	0	0	0	0	0	2005
10330	168	154.6	24241	1	0	0	0	0	0	0	0	0	0	0	0	2005
10285	168	153.2	23730	1	0	0	0	0	0	0	0	0	0	0	0	2005
10326	168	158.0	25090	0	1	0	0	0	0	0	0	0	0	0	0	2005
10332	168	130.9	18186	0	1	0	0	0	0	0	0	0	0	0	0	2005
10320	168	123.2	16063	0	1	0	0	0	0	0	0	0	0	0	0	2005
10217	168	128.4	17567	0	1	0	0	0	0	0	0	0	0	0	0	2005
10194	168	150.4	23138	0	0	1	0	0	0	0	0	0	0	0	0	2005
10258	168	151.7	23605	0	0	1	0	0	0	0	0	0	0	0	0	2005
10176	168	156.3	24648	0	0	1	0	0	0	0	0	0	0	0	0	2005
10210	168	149.8	23068	0	0	1	0	0	0	0	0	0	0	0	0	2005
10281	93	141.1	20866	0	0	1	0	0	0	0	0	0	0	0	0	2005
10559	159	139.3	21117	0	0	0	1	0	0	0	0	0	0	0	1	2005
10259	168	154.2	24128	0	0	0	1	0	0	0	0	0	0	0	0	2005
10233	168	153.4	23948	0	0	0	1	0	0	0	0	0	0	0	0	2005
10267	168	157.4	24948	0	0	0	1	0	0	0	0	0	0	0	0	2005
10280	168	148.1	22542	0	0	0	0	1	0	0	0	0	0	0	0	2005
10255	168	144.3	21791	0	0	0	0	1	0	0	0	0	0	0	0	2005
10243	168	145.6	22114	0	0	0	0	1	0	0	0	0	0	0	0	2005
10334	168	150.5	23310	0	0	0	0	1	0	0	0	0	0	0	0	2005

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
10266	168	141.1	21014	0	0	0	0	1	0	0	0	0	0	0	0	2005
10253	168	149.4	22910	0	0	0	0	0	1	0	0	0	0	0	0	2005
10369	168	150.7	23337	0	0	0	0	0	1	0	0	0	0	0	0	2005
10363	168	143.5	21699	0	0	0	0	0	1	0	0	0	0	0	0	2005
10306	144	151.5	23552	0	0	0	0	0	1	0	0	0	0	0	0	2005
10274	168	154.3	24152	0	0	0	0	0	0	1	0	0	0	0	0	2005
10468	168	145.9	22211	0	0	0	0	0	0	1	0	0	0	0	0	2005
10510	168	140.6	21022	0	0	0	0	0	0	1	0	0	0	0	0	2005
10545	168	137.4	20270	0	0	0	0	0	0	1	0	0	0	0	0	2005
10484	168	148.3	22834	0	0	0	0	0	0	0	1	0	0	0	0	2005
10380	168	142.3	21449	0	0	0	0	0	0	0	1	0	0	0	0	2005
10503	168	148.3	22831	0	0	0	0	0	0	0	1	0	0	0	0	2005
10436	168	151.8	23594	0	0	0	0	0	0	0	1	0	0	0	0	2005
10382	168	149.9	23154	0	0	0	0	0	0	0	1	0	0	0	0	2005
10443	168	143.4	21559	0	0	0	0	0	0	0	0	1	0	0	0	2005
10418	168	137.4	20311	0	0	0	0	0	0	0	0	1	0	0	0	2005
10629	168	139.9	20780	0	0	0	0	0	0	0	0	1	0	0	0	2005
10500	168	144.2	21895	0	0	0	0	0	0	0	0	1	0	0	0	2005
10285	168	158.3	25281	0	0	0	0	0	0	0	0	0	1	0	0	2005
10414	168	158.9	25401	0	0	0	0	0	0	0	0	0	1	0	0	2005
10496	168	154.8	24368	0	0	0	0	0	0	0	0	0	1	0	0	2005
10163	24	147.4	23067	0	0	0	0	0	0	0	0	0	1	0	0	2005
10366	135	155.9	24827	0	0	0	0	0	0	0	0	0	0	1	1	2005
10178	168	155.9	24528	0	0	0	0	0	0	0	0	0	0	1	0	2005
10224	168	157.0	24751	0	0	0	0	0	0	0	0	0	0	1	0	2005
10043	168	157.7	25018	0	0	0	0	0	0	0	0	0	0	0	0	2005
10106	168	159.3	25449	0	0	0	0	0	0	0	0	0	0	0	0	2005
10113	168	155.0	24326	0	0	0	0	0	0	0	0	0	0	0	0	2005
10305	168	149.7	22940	0	0	0	0	0	0	0	0	0	0	0	0	2005
10186	24	159.4	25430	0	0	0	0	0	0	0	0	0	0	0	0	2005
10379	168	148.2	22622	1	0	0	0	0	0	0	0	0	0	0	0	2006
10208	168	153.9	23993	1	0	0	0	0	0	0	0	0	0	0	0	2006
10299	168	155.4	24408	1	0	0	0	0	0	0	0	0	0	0	0	2006
10309	168	150.2	22936	1	0	0	0	0	0	0	0	0	0	0	0	2006
10263	168	147.3	22290	0	1	0	0	0	0	0	0	0	0	0	0	2006
10314	168	154.0	23943	0	1	0	0	0	0	0	0	0	0	0	0	2006
10264	168	158.7	25227	0	1	0	0	0	0	0	0	0	0	0	0	2006
10241	168	155.3	24367	0	1	0	0	0	0	0	0	0	0	0	0	2006
10152	168	153.2	23768	0	0	1	0	0	0	0	0	0	0	0	0	2006
10248	168	154.0	23992	0	0	1	0	0	0	0	0	0	0	0	0	2006
10159	168	156.5	24712	0	0	1	0	0	0	0	0	0	0	0	0	2006
10153	168	159.6	25548	0	0	1	0	0	0	0	0	0	0	0	0	2006
10073	168	156.6	24816	0	0	1	0	0	0	0	0	0	0	0	0	2006
10178	167	158.3	25368	0	0	0	1	0	0	0	0	0	0	0	0	2006
10194	168	147.5	22687	0	0	0	1	0	0	0	0	0	0	0	0	2006
10334	168	156.7	24791	0	0	0	1	0	0	0	0	0	0	0	0	2006
10012	168	158.4	25192	0	0	0	1	0	0	0	0	0	0	0	0	2006



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
9955	145	148.6	22863	0	0	0	0	1	0	0	0	0	0	0	0	2006
10142	94	139.2	20719	0	0	0	0	1	0	0	0	0	0	0	1	2006
10253	168	149.2	22798	0	0	0	0	1	0	0	0	0	0	0	0	2006
10309	168	150.2	23052	0	0	0	0	1	0	0	0	0	0	0	0	2006
10362	168	154.8	24216	0	0	0	0	1	0	0	0	0	0	0	0	2006
10433	168	149.8	22924	0	0	0	0	0	1	0	0	0	0	0	0	2006
10559	168	152.5	23618	0	0	0	0	0	1	0	0	0	0	0	0	2006
10497	168	148.5	22625	0	0	0	0	0	1	0	0	0	0	0	0	2006
10460	144	155.3	24340	0	0	0	0	0	1	0	0	0	0	0	0	2006
10469	168	152.9	23717	0	0	0	0	0	0	1	0	0	0	0	0	2006
10548	168	146.9	22181	0	0	0	0	0	0	1	0	0	0	0	0	2006
10426	168	152.0	23390	0	0	0	0	0	0	1	0	0	0	0	0	2006
10518	137	142.4	21064	0	0	0	0	0	0	1	0	0	0	0	1	2006
10300	168	155.9	24422	0	0	0	0	0	0	0	1	0	0	0	0	2006
10370	168	150.2	22947	0	0	0	0	0	0	0	1	0	0	0	0	2006
10224	168	153.6	23900	0	0	0	0	0	0	0	1	0	0	0	0	2006
10361	168	148.0	22351	0	0	0	0	0	0	0	1	0	0	0	0	2006
10127	168	154.8	24242	0	0	0	0	0	0	0	1	0	0	0	0	2006
10255	168	152.2	23509	0	0	0	0	0	0	0	0	1	0	0	0	2006
10277	168	145.9	22145	0	0	0	0	0	0	0	0	1	0	0	0	2006
10506	112	137.8	20320	0	0	0	0	0	0	0	0	1	0	0	1	2006
11037	20	80.3	7079	0	0	0	0	0	0	0	0	1	0	0	0	2006
10360	146	143.3	21267	0	0	0	0	0	0	0	0	0	1	0	1	2006
10276	168	151.2	23315	0	0	0	0	0	0	0	0	0	1	0	0	2006
10264	168	146.4	22068	0	0	0	0	0	0	0	0	0	1	0	0	2006
10196	168	138.4	19927	0	0	0	0	0	0	0	0	0	1	0	0	2006
10572	121	106.5	11688	0	0	0	0	0	0	0	0	0	1	0	0	2006
10439	140	146.7	22082	0	0	0	0	0	0	0	0	0	0	1	1	2006
10249	168	150.4	22946	0	0	0	0	0	0	0	0	0	0	1	0	2006
10199	168	156.7	24743	0	0	0	0	0	0	0	0	0	0	1	0	2006
10243	168	150.4	22891	0	0	0	0	0	0	0	0	0	0	1	0	2006
10215	168	145.0	21326	0	0	0	0	0	0	0	0	0	0	0	0	2006
10229	168	144.4	21141	0	0	0	0	0	0	0	0	0	0	0	0	2006
10308	168	146.5	21828	0	0	0	0	0	0	0	0	0	0	0	0	2006
10330	168	134.6	18396	0	0	0	0	0	0	0	0	0	0	0	0	2006
10308	24	128.0	16576	0	0	0	0	0	0	0	0	0	0	0	0	2006
10263	168	133.8	18206	1	0	0	0	0	0	0	0	0	0	0	0	2007
10365	168	125.1	15779	1	0	0	0	0	0	0	0	0	0	0	0	2007
10410	168	132.9	17911	1	0	0	0	0	0	0	0	0	0	0	0	2007
10402	168	137.4	19325	1	0	0	0	0	0	0	0	0	0	0	0	2007
10322	168	143.1	20800	0	1	0	0	0	0	0	0	0	0	0	0	2007
10334	168	138.9	19662	0	1	0	0	0	0	0	0	0	0	0	0	2007
10297	168	144.7	21275	0	1	0	0	0	0	0	0	0	0	0	0	2007
10300	168	127.8	16908	0	1	0	0	0	0	0	0	0	0	0	0	2007
10437	168	125.1	16207	0	0	1	0	0	0	0	0	0	0	0	0	2007
10307	121	142.4	20630	0	0	1	0	0	0	0	0	0	0	0	0	2007
11053	99	112.9	16908	0	0	0	0	1	0	0	0	0	0	0	1	2007

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
10182	168	143.9	21100	0	0	0	0	1	0	0	0	0	0	0	0	2007
10146	168	139.5	19960	0	0	0	0	1	0	0	0	0	0	0	0	2007
10222	168	144.2	21308	0	0	0	0	0	1	0	0	0	0	0	0	2007
10192	168	153.4	23787	0	0	0	0	0	1	0	0	0	0	0	0	2007
10176	168	149.1	22635	0	0	0	0	0	1	0	0	0	0	0	0	2007
10203	168	147.8	22281	0	0	0	0	0	1	0	0	0	0	0	0	2007
10341	120	148.8	22531	0	0	0	0	0	1	0	0	0	0	0	0	2007

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
10432	168	141.0	22500	0	0	0	0	0	0	1	0	0	0	0	0	2004
10360	168	150.6	25021	0	0	0	0	0	0	1	0	0	0	0	0	2004
10435	168	145.9	23827	0	0	0	0	0	0	1	0	0	0	0	0	2004
10395	168	154.9	26008	0	0	0	0	0	0	1	0	0	0	0	0	2004
10431	168	157.9	26785	0	0	0	0	0	0	0	1	0	0	0	0	2004
10498	168	154.9	25860	0	0	0	0	0	0	0	1	0	0	0	0	2004
10550	168	154.2	25720	0	0	0	0	0	0	0	1	0	0	0	0	2004
10345	168	172.2	30424	0	0	0	0	0	0	0	1	0	0	0	0	2004
10414	168	172.4	30364	0	0	0	0	0	0	0	1	0	0	0	0	2004
10351	168	139.0	21964	0	0	0	0	0	0	0	0	1	0	0	0	2004
10574	168	141.5	22579	0	0	0	0	0	0	0	0	1	0	0	0	2004
10648	168	133.7	20841	0	0	0	0	0	0	0	0	1	0	0	0	2004
10422	167	161.0	27523	0	0	0	0	0	0	0	0	1	0	0	0	2004
10418	168	172.7	30663	0	0	0	0	0	0	0	0	0	1	0	0	2004
10376	168	178.2	32127	0	0	0	0	0	0	0	0	0	1	0	0	2004
10436	168	169.3	29676	0	0	0	0	0	0	0	0	0	1	0	0	2004
10404	168	172.6	30605	0	0	0	0	0	0	0	0	0	1	0	0	2004
10409	169	173.9	31149	0	0	0	0	0	0	0	0	0	1	0	0	2004
10622	139	169.7	29937	0	0	0	0	0	0	0	0	0	0	1	1	2004
10537	168	179.9	32579	0	0	0	0	0	0	0	0	0	0	1	0	2004
10466	168	168.6	29692	0	0	0	0	0	0	0	0	0	0	1	0	2004
10590	168	156.2	25744	0	0	0	0	0	0	0	0	0	0	1	0	2004
10504	168	176.9	31868	0	0	0	0	0	0	0	0	0	0	0	0	2004
10564	168	163.5	28049	0	0	0	0	0	0	0	0	0	0	0	0	2004
10542	168	173.6	30685	0	0	0	0	0	0	0	0	0	0	0	0	2004
10620	168	173.8	30690	0	0	0	0	0	0	0	0	0	0	0	0	2004
10492	24	142.1	21342	0	0	0	0	0	0	0	0	0	0	0	0	2004
10580	168	154.9	25792	1	0	0	0	0	0	0	0	0	0	0	0	2005
10430	168	176.6	31521	1	0	0	0	0	0	0	0	0	0	0	0	2005
10407	168	176.5	31524	1	0	0	0	0	0	0	0	0	0	0	0	2005
10417	168	170.1	29673	1	0	0	0	0	0	0	0	0	0	0	0	2005
10394	168	177.6	31876	0	1	0	0	0	0	0	0	0	0	0	0	2005
10600	168	149.7	23814	0	1	0	0	0	0	0	0	0	0	0	0	2005
10523	157	141.5	21501	0	1	0	0	0	0	0	0	0	0	0	0	2005
12474	20	114.9	17713	0	0	0	1	0	0	0	0	0	0	0	1	2005
10488	107	175.1	31910	0	0	0	0	1	0	0	0	0	0	0	1	2005
10294	168	175.5	32103	0	0	0	0	1	0	0	0	0	0	0	0	2005
10241	168	179.1	33152	0	0	0	0	1	0	0	0	0	0	0	0	2005
10205	168	163.6	28557	0	0	0	0	1	0	0	0	0	0	0	0	2005
10144	168	177.1	32239	0	0	0	0	0	1	0	0	0	0	0	0	2005
10287	168	177.2	32406	0	0	0	0	0	1	0	0	0	0	0	0	2005
10361	168	166.5	29840	0	0	0	0	0	1	0	0	0	0	0	0	2005
10340	135	177.0	32486	0	0	0	0	0	1	0	0	0	0	0	0	2005
10264	168	180.1	33492	0	0	0	0	0	0	1	0	0	0	0	0	2005
10218	168	172.5	31280	0	0	0	0	0	0	1	0	0	0	0	0	2005
10349	168	163.1	28827	0	0	0	0	0	0	1	0	0	0	0	0	2005
10224	168	157.3	27257	0	0	0	0	0	0	1	0	0	0	0	0	2005

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
10310	168	173.7	31616	0	0	0	0	0	0	0	1	0	0	0	0	2005
10282	168	167.3	29986	0	0	0	0	0	0	0	1	0	0	0	0	2005
10221	168	173.6	31693	0	0	0	0	0	0	0	1	0	0	0	0	2005
10263	168	183.4	34172	0	0	0	0	0	0	0	1	0	0	0	0	2005
10431	168	175.4	31945	0	0	0	0	0	0	0	1	0	0	0	0	2005
10383	168	174.5	31585	0	0	0	0	0	0	0	0	1	0	0	0	2005
10275	168	161.7	28634	0	0	0	0	0	0	0	0	1	0	0	0	2005
10412	168	165.6	29468	0	0	0	0	0	0	0	0	1	0	0	0	2005
10351	168	172.1	31431	0	0	0	0	0	0	0	0	1	0	0	0	2005
10258	168	189.8	36147	0	0	0	0	0	0	0	0	0	1	0	0	2005
10334	168	176.6	32566	0	0	0	0	0	0	0	0	0	1	0	0	2005
10340	168	180.2	33545	0	0	0	0	0	0	0	0	0	1	0	0	2005
10345	168	187.4	35460	0	0	0	0	0	0	0	0	0	1	0	0	2005
10171	122	188.5	35994	0	0	0	0	0	0	0	0	0	1	0	0	2005
10556	58	175.3	32022	0	0	0	0	0	0	0	0	0	0	1	1	2005
10297	168	190.8	36434	0	0	0	0	0	0	0	0	0	0	1	0	2005
10287	168	186.1	34927	0	0	0	0	0	0	0	0	0	0	1	0	2005
10407	168	185.9	34724	0	0	0	0	0	0	0	0	0	0	1	0	2005
10207	168	186.9	35151	0	0	0	0	0	0	0	0	0	0	0	0	2005
10224	168	188.7	35677	0	0	0	0	0	0	0	0	0	0	0	0	2005
10380	168	183.5	33922	0	0	0	0	0	0	0	0	0	0	0	0	2005
10587	168	134.5	20478	0	0	0	0	0	0	0	0	0	0	0	0	2005
10268	24	156.3	26634	0	0	0	0	0	0	0	0	0	0	0	0	2005
10264	168	180.1	33492	0	0	0	0	0	0	1	0	0	0	0	0	2005
10218	168	172.5	31280	0	0	0	0	0	0	1	0	0	0	0	0	2005
10349	168	163.1	28827	0	0	0	0	0	0	1	0	0	0	0	0	2005
10224	168	157.3	27257	0	0	0	0	0	0	1	0	0	0	0	0	2005
10310	168	173.7	31616	0	0	0	0	0	0	0	1	0	0	0	0	2005
10282	168	167.3	29986	0	0	0	0	0	0	0	1	0	0	0	0	2005
10221	168	173.6	31693	0	0	0	0	0	0	0	1	0	0	0	0	2005
10263	168	183.4	34172	0	0	0	0	0	0	0	1	0	0	0	0	2005
10431	168	175.4	31945	0	0	0	0	0	0	0	1	0	0	0	0	2005
10383	168	174.5	31585	0	0	0	0	0	0	0	0	1	0	0	0	2005
10275	168	161.7	28634	0	0	0	0	0	0	0	0	1	0	0	0	2005
10412	168	165.6	29468	0	0	0	0	0	0	0	0	1	0	0	0	2005
10351	168	172.1	31431	0	0	0	0	0	0	0	0	1	0	0	0	2005
10258	168	189.8	36147	0	0	0	0	0	0	0	0	0	1	0	0	2005
10334	168	176.6	32566	0	0	0	0	0	0	0	0	0	1	0	0	2005
10340	168	180.2	33545	0	0	0	0	0	0	0	0	0	1	0	0	2005
10345	168	187.4	35460	0	0	0	0	0	0	0	0	0	1	0	0	2005
10171	122	188.5	35994	0	0	0	0	0	0	0	0	0	1	0	0	2005
10556	58	175.3	32022	0	0	0	0	0	0	0	0	0	0	1	1	2005
10297	168	190.8	36434	0	0	0	0	0	0	0	0	0	0	1	0	2005
10287	168	186.1	34927	0	0	0	0	0	0	0	0	0	0	1	0	2005
10407	168	185.9	34724	0	0	0	0	0	0	0	0	0	0	1	0	2005
10207	168	186.9	35151	0	0	0	0	0	0	0	0	0	0	0	0	2005
10224	168	188.7	35677	0	0	0	0	0	0	0	0	0	0	0	0	2005

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
10380	168	183.5	33922	0	0	0	0	0	0	0	0	0	0	0	0	2005
10587	168	134.5	20478	0	0	0	0	0	0	0	0	0	0	0	0	2005
10268	24	156.3	26634	0	0	0	0	0	0	0	0	0	0	0	0	2005
10468	168	170.4	30113	1	0	0	0	0	0	0	0	0	0	0	0	2006
10329	168	182.7	33736	1	0	0	0	0	0	0	0	0	0	0	0	2006
10311	168	184.8	34572	1	0	0	0	0	0	0	0	0	0	0	0	2006
10417	168	178.4	32318	1	0	0	0	0	0	0	0	0	0	0	0	2006
10513	168	173.1	30754	0	1	0	0	0	0	0	0	0	0	0	0	2006
10435	144	175.6	31679	0	1	0	0	0	0	0	0	0	0	0	0	2006
10325	155	185.3	34837	0	1	0	0	0	0	0	0	0	0	0	1	2006
10306	168	181.4	33493	0	1	0	0	0	0	0	0	0	0	0	0	2006
10258	168	189.2	35956	0	0	1	0	0	0	0	0	0	0	0	0	2006
10395	168	185.2	34578	0	0	1	0	0	0	0	0	0	0	0	0	2006
10318	168	186.0	34992	0	0	1	0	0	0	0	0	0	0	0	0	2006
10351	168	190.4	36339	0	0	1	0	0	0	0	0	0	0	0	0	2006
10226	168	188.2	35883	0	0	1	0	0	0	0	0	0	0	0	0	2006
10325	167	187.2	35541	0	0	0	1	0	0	0	0	0	0	0	0	2006
10362	168	172.3	31389	0	0	0	1	0	0	0	0	0	0	0	0	2006
10516	168	186.1	34996	0	0	0	1	0	0	0	0	0	0	0	0	2006
10303	71	180.1	33503	0	0	0	1	0	0	0	0	0	0	0	0	2006
10248	162	176.8	32344	0	0	0	0	1	0	0	0	0	0	0	1	2006
10318	161	134.2	18975	0	0	0	0	1	0	0	0	0	0	0	0	2006
10238	168	147.9	22782	0	0	0	0	1	0	0	0	0	0	0	0	2006
10303	168	177.6	32320	0	0	0	0	1	0	0	0	0	0	0	0	2006
10365	168	180.9	33447	0	0	0	0	1	0	0	0	0	0	0	0	2006
10487	168	176.6	32031	0	0	0	0	0	1	0	0	0	0	0	0	2006
10457	168	179.4	32898	0	0	0	0	0	1	0	0	0	0	0	0	2006
10409	168	172.2	30940	0	0	0	0	0	1	0	0	0	0	0	0	2006
10445	137	174.5	31526	0	0	0	0	0	1	0	0	0	0	0	0	2006
10420	168	178.6	32615	0	0	0	0	0	0	1	0	0	0	0	0	2006
10490	168	167.0	29231	0	0	0	0	0	0	1	0	0	0	0	0	2006
10506	168	130.8	17194	0	0	0	0	0	0	1	0	0	0	0	0	2006
10503	168	179.6	32742	0	0	0	0	0	0	1	0	0	0	0	0	2006
10450	168	183.5	33883	0	0	0	0	0	0	0	1	0	0	0	0	2006
10474	168	172.7	30897	0	0	0	0	0	0	0	1	0	0	0	0	2006
10320	168	177.9	32462	0	0	0	0	0	0	0	1	0	0	0	0	2006
10401	168	173.0	30893	0	0	0	0	0	0	0	1	0	0	0	0	2006
10228	168	184.1	34330	0	0	0	0	0	0	0	1	0	0	0	0	2006
10373	168	177.5	32284	0	0	0	0	0	0	0	0	1	0	0	0	2006
10291	168	179.7	32965	0	0	0	0	0	0	0	0	1	0	0	0	2006
10357	97	165.7	28480	0	0	0	0	0	0	0	0	1	0	0	0	2006
10975	32	91.2	10126	0	0	0	0	0	0	0	0	1	0	0	1	2006
10558	55	165.7	30075	0	0	0	0	0	0	0	0	0	1	0	1	2006
10205	168	180.3	32862	0	0	0	0	0	0	0	0	0	1	0	0	2006
10188	169	183.5	33954	0	0	0	0	0	0	0	0	0	1	0	0	2006
10311	168	176.2	31628	0	0	0	0	0	0	0	0	0	0	1	0	2006
10241	168	179.5	32705	0	0	0	0	0	0	0	0	0	0	1	0	2006

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
10195	168	180.1	32833	0	0	0	0	0	0	0	0	0	0	1	0	2006
10306	159	178.6	32786	0	0	0	0	0	0	0	0	0	0	1	0	2006
10218	168	170.1	29578	0	0	0	0	0	0	0	0	0	0	0	0	2006
10195	168	167.5	28762	0	0	0	0	0	0	0	0	0	0	0	0	2006
10274	168	168.7	29386	0	0	0	0	0	0	0	0	0	0	0	0	2006
10329	168	153.0	24078	0	0	0	0	0	0	0	0	0	0	0	0	2006
10245	24	140.8	20474	0	0	0	0	0	0	0	0	0	0	0	0	2006
10279	168	155.6	24994	1	0	0	0	0	0	0	0	0	0	0	0	2007
10502	130	151.2	24276	1	0	0	0	0	0	0	0	0	0	0	1	2007
10392	168	158.7	25664	1	0	0	0	0	0	0	0	0	0	0	0	2007
10392	168	162.6	27195	1	0	0	0	0	0	0	0	0	0	0	0	2007
10284	168	168.8	29130	0	1	0	0	0	0	0	0	0	0	0	0	2007
10332	168	163.0	27385	0	1	0	0	0	0	0	0	0	0	0	0	2007
10282	168	173.4	30698	0	1	0	0	0	0	0	0	0	0	0	0	2007
10332	168	157.9	25798	0	1	0	0	0	0	0	0	0	0	0	0	2007
10313	168	147.6	22734	0	0	1	0	0	0	0	0	0	0	0	0	2007
10251	167	165.5	28051	0	0	1	0	0	0	0	0	0	0	0	0	2007
10260	168	161.0	26786	0	0	1	0	0	0	0	0	0	0	0	0	2007
10296	168	163.9	27879	0	0	1	0	0	0	0	0	0	0	0	0	2007
10238	72	163.4	27708	0	0	1	0	0	0	0	0	0	0	0	0	2007
10224	87	164.5	28662	0	0	0	1	0	0	0	0	0	0	0	1	2007
10114	118	175.6	31951	0	0	0	1	0	0	0	0	0	0	0	1	2007
10154	168	178.6	32530	0	0	0	1	0	0	0	0	0	0	0	0	2007
10279	168	181.3	33257	0	0	0	0	1	0	0	0	0	0	0	0	2007
10185	168	179.2	32642	0	0	0	0	1	0	0	0	0	0	0	0	2007
10222	168	169.5	29596	0	0	0	0	1	0	0	0	0	0	0	0	2007
10229	168	167.5	29050	0	0	0	0	1	0	0	0	0	0	0	0	2007
10308	148	168.5	29798	0	0	0	0	0	1	0	0	0	0	0	0	2007
10432	154	181.7	33815	0	0	0	0	0	1	0	0	0	0	0	1	2007
10381	168	179.9	33043	0	0	0	0	0	1	0	0	0	0	0	0	2007
10392	168	177.1	32141	0	0	0	0	0	1	0	0	0	0	0	0	2007
10536	120	180.3	33128	0	0	0	0	0	1	0	0	0	0	0	0	2007

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
10232	168	503.3	56900	0	0	0	0	0	0	1	0	0	0	0	0	2004
10325	135	478.5	39799	0	0	0	0	0	0	1	0	0	0	0	1	2004
10240	168	461.1	25434	0	0	0	0	0	0	1	0	0	0	0	0	2004
10090	168	492.0	47847	0	0	0	0	0	0	1	0	0	0	0	0	2004
9944	168	461.1	22988	0	0	0	0	0	0	0	1	0	0	0	0	2004
10223	168	387.8	29796	0	0	0	0	0	0	0	1	0	0	0	0	2004
9786	168	468.0	31146	0	0	0	0	0	0	0	1	0	0	0	0	2004
9900	168	495.3	51440	0	0	0	0	0	0	0	1	0	0	0	0	2004
10142	168	499.7	54317	0	0	0	0	0	0	0	1	0	0	0	0	2004
10565	168	433.0	7692	0	0	0	0	0	0	0	0	1	0	0	0	2004
10603	165	423.4	2524	0	0	0	0	0	0	0	0	1	0	0	0	2004
10782	164	359.5	23617	0	0	0	0	0	0	0	0	1	0	0	0	2004
10393	168	471.4	33145	0	0	0	0	0	0	0	0	1	0	0	0	2004
• 8387	48	440.4	12147	0	0	0	0	0	0	0	0	0	1	0	0	2004
12872	113	226.8	4832	0	0	0	0	0	0	0	0	0	0	1	1	2004
9811	168	426.2	61187	0	0	0	0	0	0	0	0	0	0	1	0	2004
9765	99	434.1	11982	0	0	0	0	0	0	0	0	0	0	0	1	2004
10131	168	475.9	36056	0	0	0	0	0	0	0	0	0	0	0	0	2004
10259	129	484.8	44926	0	0	0	0	0	0	0	0	0	0	0	1	2004
10367	168	490.7	47477	0	0	0	0	0	0	0	0	0	0	0	0	2004
9734	24	501.7	55527	0	0	0	0	0	0	0	0	0	0	0	0	2004
10039	168	474.6	33197	1	0	0	0	0	0	0	0	0	0	0	0	2005
10175	168	503.5	57810	1	0	0	0	0	0	0	0	0	0	0	0	2005
10149	168	504.0	57961	1	0	0	0	0	0	0	0	0	0	0	0	2005
9924	168	502.3	56077	1	0	0	0	0	0	0	0	0	0	0	0	2005
10057	168	498.8	53713	0	1	0	0	0	0	0	0	0	0	0	0	2005
9993	168	491.0	46378	0	1	0	0	0	0	0	0	0	0	0	0	2005
10059	168	503.2	56909	0	1	0	0	0	0	0	0	0	0	0	0	2005
10267	167	491.8	48669	0	1	0	0	0	0	0	0	0	0	0	0	2005
10292	168	501.5	56012	0	0	1	0	0	0	0	0	0	0	0	0	2005
10198	164	464.6	29128	0	0	1	0	0	0	0	0	0	0	0	0	2005
10194	157	483.5	44244	0	0	1	0	0	0	0	0	0	0	0	0	2005
10123	168	499.1	54292	0	0	1	0	0	0	0	0	0	0	0	0	2005
10147	165	464.4	29337	0	0	1	0	0	0	0	0	0	0	0	0	2005
10667	137	481.4	41283	0	0	0	1	0	0	0	0	0	0	0	1	2005
10613	168	492.8	49485	0	0	0	1	0	0	0	0	0	0	0	0	2005
10313	168	489.3	45313	0	0	0	1	0	0	0	0	0	0	0	0	2005
10487	168	500.5	54887	0	0	0	1	0	0	0	0	0	0	0	0	2005
10230	168	468.5	30343	0	0	0	0	1	0	0	0	0	0	0	0	2005
10129	168	436.3	2587	0	0	0	0	1	0	0	0	0	0	0	0	2005
10080	168	465.9	26511	0	0	0	0	1	0	0	0	0	0	0	0	2005
10072	168	489.3	46951	0	0	0	0	1	0	0	0	0	0	0	0	2005
10217	142	463.2	27048	0	0	0	0	1	0	0	0	0	0	0	0	2005
10244	127	480.2	40556	0	0	0	0	0	1	0	0	0	0	0	1	2005
9933	168	501.9	55708	0	0	0	0	0	1	0	0	0	0	0	0	2005
10148	168	470.4	31763	0	0	0	0	0	1	0	0	0	0	0	0	2005
9856	144	494.7	50403	0	0	0	0	0	1	0	0	0	0	0	0	2005

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
10316	125	464.4	30879	0	0	0	0	0	0	1	0	0	0	0	1	2005
10383	164	441.2	16747	0	0	0	0	0	0	1	0	0	0	0	0	2005
10156	168	500.8	54828	0	0	0	0	0	0	1	0	0	0	0	0	2005
10124	168	503.2	56739	0	0	0	0	0	0	1	0	0	0	0	0	2005
10348	168	495.7	51120	0	0	0	0	0	0	0	1	0	0	0	0	2005
10363	167	484.7	42456	0	0	0	0	0	0	0	1	0	0	0	0	2005
10235	168	496.8	51087	0	0	0	0	0	0	0	1	0	0	0	0	2005
10274	168	489.4	44508	0	0	0	0	0	0	0	1	0	0	0	0	2005
11121	76	468.1	28604	0	0	0	0	0	0	0	1	0	0	0	0	2005
11595	87	388.4	27794	0	0	0	0	0	0	0	0	1	0	0	1	2005
9685	132	380.1	34243	0	0	0	0	0	0	0	0	1	0	0	1	2005
9496	109	445.3	8805	0	0	0	0	0	0	0	0	1	0	0	1	2005
9905	168	492.9	47013	0	0	0	0	0	0	0	0	1	0	0	0	2005
9896	168	481.7	37767	0	0	0	0	0	0	0	0	0	1	0	0	2005
9946	168	460.9	20457	0	0	0	0	0	0	0	0	0	1	0	0	2005
10222	140	443.3	9911	0	0	0	0	0	0	0	0	0	1	0	1	2005
10029	168	486.8	41674	0	0	0	0	0	0	0	0	0	1	0	0	2005
9935	28	416.0	143	0	0	0	0	0	0	0	0	0	1	0	0	2005
10764	121	416.5	55388	0	0	0	0	0	0	0	0	0	0	0	1	2005
10429	168	399.0	44143	0	0	0	0	0	0	0	0	0	0	0	0	2005
10511	24	454.4	16430	0	0	0	0	0	0	0	0	0	0	0	0	2005
10016	168	416.0	57837	1	0	0	0	0	0	0	0	0	0	0	0	2006
10135	168	460.2	23603	1	0	0	0	0	0	0	0	0	0	0	0	2006
9674	168	467.4	29669	1	0	0	0	0	0	0	0	0	0	0	0	2006
10776	168	446.2	13572	1	0	0	0	0	0	0	0	0	0	0	0	2006
10200	168	445.5	13904	0	1	0	0	0	0	0	0	0	0	0	0	2006
10084	168	487.0	42619	0	1	0	0	0	0	0	0	0	0	0	0	2006
10189	168	493.0	48027	0	1	0	0	0	0	0	0	0	0	0	0	2006
10220	168	496.9	50632	0	1	0	0	0	0	0	0	0	0	0	0	2006
10054	168	489.3	45056	0	0	1	0	0	0	0	0	0	0	0	0	2006
10035	168	474.8	36138	0	0	1	0	0	0	0	0	0	0	0	0	2006
9948	168	496.2	50251	0	0	1	0	0	0	0	0	0	0	0	0	2006
10095	168	480.3	37156	0	0	1	0	0	0	0	0	0	0	0	0	2006
10059	168	473.5	30944	0	0	1	0	0	0	0	0	0	0	0	0	2006
10093	95	465.6	24985	0	0	0	1	0	0	0	0	0	0	0	0	2006
10224	110	404.9	50662	0	0	0	1	0	0	0	0	0	0	0	1	2006
9907	168	465.0	26357	0	0	0	1	0	0	0	0	0	0	0	0	2006
10286	168	460.5	22604	0	0	0	1	0	0	0	0	0	0	0	0	2006
10214	168	447.0	14666	0	0	0	0	1	0	0	0	0	0	0	0	2006
10388	168	421.7	62928	0	0	0	0	1	0	0	0	0	0	0	0	2006
10294	168	425.7	63431	0	0	0	0	1	0	0	0	0	0	0	0	2006
9986	168	433.3	3158	0	0	0	0	1	0	0	0	0	0	0	0	2006
10053	168	447.6	13450	0	0	0	0	1	0	0	0	0	0	0	0	2006
10379	168	432.3	4326	0	0	0	0	0	1	0	0	0	0	0	0	2006
10244	168	481.0	38510	0	0	0	0	0	1	0	0	0	0	0	0	2006
10086	168	496.2	50030	0	0	0	0	0	1	0	0	0	0	0	0	2006
10111	144	489.0	44339	0	0	0	0	0	1	0	0	0	0	0	0	2006

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
9781	168	495.6	49898	0	0	0	0	0	0	1	0	0	0	0	0	2006
9904	168	488.4	44478	0	0	0	0	0	0	1	0	0	0	0	0	2006
9970	168	493.5	47712	0	0	0	0	0	0	1	0	0	0	0	0	2006
10035	168	500.1	53541	0	0	0	0	0	0	1	0	0	0	0	0	2006
10109	168	497.4	51440	0	0	0	0	0	0	0	1	0	0	0	0	2006
10169	168	491.7	46982	0	0	0	0	0	0	0	1	0	0	0	0	2006
10110	159	480.1	39302	0	0	0	0	0	0	0	1	0	0	0	0	2006
10019	168	496.3	50955	0	0	0	0	0	0	0	1	0	0	0	0	2006
9975	168	490.8	46678	0	0	0	0	0	0	0	1	0	0	0	0	2006
10141	168	498.3	52344	0	0	0	0	0	0	0	0	1	0	0	0	2006
10251	168	493.7	49367	0	0	0	0	0	0	0	0	1	0	0	0	2006
10241	168	498.3	52662	0	0	0	0	0	0	0	0	1	0	0	0	2006
10033	168	494.5	48638	0	0	0	0	0	0	0	0	1	0	0	0	2006
10279	149	440.1	12364	0	0	0	0	0	0	0	0	0	1	0	0	2006
10024	168	466.5	31949	0	0	0	0	0	0	0	0	0	1	0	0	2006
10046	168	499.3	53634	0	0	0	0	0	0	0	0	0	1	0	0	2006
10165	168	499.0	53499	0	0	0	0	0	0	0	0	0	1	0	0	2006
10109	169	498.9	53223	0	0	0	0	0	0	0	0	0	1	0	0	2006
9949	168	480.5	36996	0	0	0	0	0	0	0	0	0	0	1	0	2006
9891	168	497.6	52417	0	0	0	0	0	0	0	0	0	0	1	0	2006
10115	168	495.9	50133	0	0	0	0	0	0	0	0	0	0	1	0	2006
9936	168	484.6	39217	0	0	0	0	0	0	0	0	0	0	1	0	2006
10220	168	497.6	51651	0	0	0	0	0	0	0	0	0	0	0	0	2006
10242	168	469.5	28502	0	0	0	0	0	0	0	0	0	0	0	0	2006
10179	168	482.0	37553	0	0	0	0	0	0	0	0	0	0	0	0	2006
10208	168	498.2	52859	0	0	0	0	0	0	0	0	0	0	0	0	2006
10326	24	502.6	56028	0	0	0	0	0	0	0	0	0	0	0	0	2006
10188	168	458.5	16532	1	0	0	0	0	0	0	0	0	0	0	0	2007
10229	168	468.8	24625	1	0	0	0	0	0	0	0	0	0	0	0	2007
10277	168	490.1	44650	1	0	0	0	0	0	0	0	0	0	0	0	2007
10312	168	480.4	34877	1	0	0	0	0	0	0	0	0	0	0	0	2007
10249	165	468.6	27396	0	1	0	0	0	0	0	0	0	0	0	0	2007
10127	168	471.7	28123	0	1	0	0	0	0	0	0	0	0	0	0	2007
10215	168	484.9	39199	0	1	0	0	0	0	0	0	0	0	0	0	2007
10059	168	475.3	29985	0	1	0	0	0	0	0	0	0	0	0	0	2007
10095	168	466.2	21163	0	0	1	0	0	0	0	0	0	0	0	0	2007
10207	167	476.0	30544	0	0	1	0	0	0	0	0	0	0	0	0	2007
10145	120	484.1	40678	0	0	1	0	0	0	0	0	0	0	0	0	2007
11227	29	369.1	20594	0	0	1	0	0	0	0	0	0	0	0	1	2007
10130	168	463.5	23402	0	0	1	0	0	0	0	0	0	0	0	0	2007
10127	168	416.2	53044	0	0	0	1	0	0	0	0	0	0	0	0	2007
10035	168	452.9	14258	0	0	0	1	0	0	0	0	0	0	0	0	2007
10168	168	425.7	56888	0	0	0	1	0	0	0	0	0	0	0	0	2007
10167	168	434.2	64930	0	0	0	1	0	0	0	0	0	0	0	0	2007
10129	168	431.3	61070	0	0	0	0	1	0	0	0	0	0	0	0	2007
10438	168	428.2	62469	0	0	0	0	1	0	0	0	0	0	0	0	2007
10458	168	401.4	43680	0	0	0	0	1	0	0	0	0	0	0	0	2007

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
10475	168	405.3	48813	0	0	0	0	1	0	0	0	0	0	0	0	2007
10282	168	425.5	64388	0	0	0	0	0	1	0	0	0	0	0	0	2007
9948	168	466.6	26372	0	0	0	0	0	1	0	0	0	0	0	0	2007
10219	168	451.3	15572	0	0	0	0	0	1	0	0	0	0	0	0	2007
10141	165	436.0	4560	0	0	0	0	0	1	0	0	0	0	0	0	2007
9940	120	469.2	27452	0	0	0	0	0	1	0	0	0	0	0	0	2007

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.

\* 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
10332	168	444.2	13865	0	0	0	0	0	0	1	0	0	0	0	0	2004
10066	168	471.8	32298	0	0	0	0	0	0	1	0	0	0	0	0	2004
10141	168	461.3	23750	0	0	0	0	0	0	1	0	0	0	0	0	2004
10111	168	475.0	34409	0	0	0	0	0	0	1	0	0	0	0	0	2004
10126	135	470.1	31117	0	0	0	0	0	0	0	1	0	0	0	1	2004
9806	168	445.3	15246	0	0	0	0	0	0	0	1	0	0	0	0	2004
* 9516	124	453.8	22586	0	0	0	0	0	0	0	1	0	0	0	1	2004
9625	168	496.0	50332	0	0	0	0	0	0	0	1	0	0	0	0	2004
9755	168	495.2	49589	0	0	0	0	0	0	0	1	0	0	0	0	2004
10035	168	436.2	7910	0	0	0	0	0	0	0	0	1	0	0	0	2004
10028	168	432.7	4415	0	0	0	0	0	0	0	0	1	0	0	0	2004
*10234	168	361.6	22704	0	0	0	0	0	0	0	0	1	0	0	0	2004
9651	168	482.5	40444	0	0	0	0	0	0	0	0	1	0	0	0	2004
10311	168	471.3	31775	0	0	0	0	0	0	0	0	0	1	0	0	2004
9954	168	503.8	57205	0	0	0	0	0	0	0	0	0	1	0	0	2004
10086	164	479.2	40827	0	0	0	0	0	0	0	0	0	1	0	0	2004
*10574	140	405.9	65066	0	0	0	0	0	0	0	0	0	1	0	1	2004
10487	169	456.3	22383	0	0	0	0	0	0	0	0	0	1	0	0	2004
9979	168	489.7	46126	0	0	0	0	0	0	0	0	0	0	1	0	2004
10121	168	504.5	57965	0	0	0	0	0	0	0	0	0	0	1	0	2004
9958	168	484.6	42988	0	0	0	0	0	0	0	0	0	0	1	0	2004
10207	168	451.2	18914	0	0	0	0	0	0	0	0	0	0	1	0	2004
9759	168	485.2	43977	0	0	0	0	0	0	0	0	0	0	0	0	2004
9885	168	475.0	35927	0	0	0	0	0	0	0	0	0	0	0	0	2004
10001	168	496.1	51545	0	0	0	0	0	0	0	0	0	0	0	0	2004
10320	168	494.9	49824	0	0	0	0	0	0	0	0	0	0	0	0	2004
9982	24	404.4	45296	0	0	0	0	0	0	0	0	0	0	0	0	2004
10348	168	460.1	20212	1	0	0	0	0	0	0	0	0	0	0	0	2005
*10732	168	457.1	13423	1	0	0	0	0	0	0	0	0	0	0	0	2005
10357	168	484.6	41633	1	0	0	0	0	0	0	0	0	0	0	0	2005
10028	168	498.4	52212	1	0	0	0	0	0	0	0	0	0	0	0	2005
10236	168	495.9	50629	0	1	0	0	0	0	0	0	0	0	0	0	2005
10158	168	487.0	42928	0	1	0	0	0	0	0	0	0	0	0	0	2005
10190	168	495.4	49830	0	1	0	0	0	0	0	0	0	0	0	0	2005
10271	168	500.2	53687	0	1	0	0	0	0	0	0	0	0	0	0	2005
10395	163	481.7	42281	0	0	1	0	0	0	0	0	0	0	0	0	2005
*11000	167	278.2	16230	0	0	0	1	0	0	0	0	0	0	0	0	2005
*10742	166	316.5	41661	0	0	0	1	0	0	0	0	0	0	0	0	2005
*10028	166	474.6	34729	0	0	0	1	0	0	0	0	0	0	0	0	2005
*10203	168	493.4	47649	0	0	0	1	0	0	0	0	0	0	0	0	2005
10028	168	476.3	36115	0	0	0	0	1	0	0	0	0	0	0	0	2005
10056	168	458.3	23851	0	0	0	0	1	0	0	0	0	0	0	0	2005
10158	168	471.3	31701	0	0	0	0	1	0	0	0	0	0	0	0	2005
10074	168	486.0	43129	0	0	0	0	1	0	0	0	0	0	0	0	2005
*10345	168	450.4	15524	0	0	0	0	1	0	0	0	0	0	0	0	2005
10405	147	462.2	27948	0	0	0	0	0	1	0	0	0	0	0	0	2005
10194	168	494.6	48312	0	0	0	0	0	1	0	0	0	0	0	0	2005

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
10345	168	465.7	26662	0	0	0	0	0	1	0	0	0	0	0	0	2005
10101	144	489.5	44744	0	0	0	0	0	1	0	0	0	0	0	0	2005
10285	168	487.3	42024	0	0	0	0	0	0	1	0	0	0	0	0	2005
10339	168	445.3	12988	0	0	0	0	0	0	1	0	0	0	0	0	2005
10296	168	495.1	48623	0	0	0	0	0	0	1	0	0	0	0	0	2005
10248	168	488.6	43297	0	0	0	0	0	0	1	0	0	0	0	0	2005
10420	168	462.1	25055	0	0	0	0	0	0	0	1	0	0	0	0	2005
10180	168	485.3	41809	0	0	0	0	0	0	0	1	0	0	0	0	2005
10128	168	492.2	46820	0	0	0	0	0	0	0	1	0	0	0	0	2005
10165	168	489.9	44596	0	0	0	0	0	0	0	1	0	0	0	0	2005
10401	85	401.1	44761	0	0	0	0	0	0	0	1	0	0	0	0	2005
*11272	62	316.4	40241	0	0	0	0	0	0	0	0	1	0	0	1	2005
9315	168	464.6	24276	0	0	0	0	0	0	0	0	1	0	0	0	2005
9457	168	491.5	45583	0	0	0	0	0	0	0	0	1	0	0	0	2005
9731	168	495.0	48523	0	0	0	0	0	0	0	0	1	0	0	0	2005
9914	168	485.3	39701	0	0	0	0	0	0	0	0	0	1	0	0	2005
9926	168	471.3	28214	0	0	0	0	0	0	0	0	0	1	0	0	2005
10122	168	443.5	6614	0	0	0	0	0	0	0	0	0	1	0	0	2005
10033	168	482.2	38388	0	0	0	0	0	0	0	0	0	1	0	0	2005
10244	169	493.6	48192	0	0	0	0	0	0	0	0	0	1	0	0	2005
10114	168	493.1	47800	0	0	0	0	0	0	0	0	0	0	1	0	2005
9821	168	493.6	48223	0	0	0	0	0	0	0	0	0	0	1	0	2005
9937	168	475.4	35069	0	0	0	0	0	0	0	0	0	0	1	0	2005
10031	168	471.9	32622	0	0	0	0	0	0	0	0	0	0	1	0	2005
9967	168	487.6	43942	0	0	0	0	0	0	0	0	0	0	0	0	2005
10053	168	480.9	39831	0	0	0	0	0	0	0	0	0	0	0	0	2005
10068	168	491.0	45722	0	0	0	0	0	0	0	0	0	0	0	0	2005
10083	168	410.4	49861	0	0	0	0	0	0	0	0	0	0	0	0	2005
10413	24	456.7	17000	0	0	0	0	0	0	0	0	0	0	0	0	2005
9999	168	416.7	56873	1	0	0	0	0	0	0	0	0	0	0	0	2006
10220	168	462.4	23560	1	0	0	0	0	0	0	0	0	0	0	0	2006
10102	168	458.5	20551	1	0	0	0	0	0	0	0	0	0	0	0	2006
10064	168	452.5	17268	1	0	0	0	0	0	0	0	0	0	0	0	2006
10101	168	468.5	27293	0	1	0	0	0	0	0	0	0	0	0	0	2006
9952	168	478.8	35031	0	1	0	0	0	0	0	0	0	0	0	0	2006
10052	168	496.8	50404	0	1	0	0	0	0	0	0	0	0	0	0	2006
10123	165	472.5	35273	0	1	0	0	0	0	0	0	0	0	0	0	2006
9683	168	494.0	48950	0	0	1	0	0	0	0	0	0	0	0	0	2006
9402	168	475.7	34014	0	0	1	0	0	0	0	0	0	0	0	0	2006
9434	24	442.3	9901	0	0	1	0	0	0	0	0	0	0	0	0	2006
*117280	5	105.8	16033	0	0	0	1	0	0	0	0	0	0	0	1	2006
*38935	5	50.4	3873	0	0	0	0	1	0	0	0	0	0	0	1	2006
9733	96	395.5	40865	0	0	0	0	1	0	0	0	0	0	0	1	2006
9833	168	438.1	6072	0	0	0	0	1	0	0	0	0	0	0	0	2006
9714	168	438.7	6213	0	0	0	0	1	0	0	0	0	0	0	0	2006
9691	168	452.1	16169	0	0	0	0	1	0	0	0	0	0	0	0	2006
9921	168	436.9	6448	0	0	0	0	0	1	0	0	0	0	0	0	2006

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
9770	168	458.2	21061	0	0	0	0	0	1	0	0	0	0	0	0	2006
9951	168	458.6	22045	0	0	0	0	0	1	0	0	0	0	0	0	2006
9873	140	453.6	19873	0	0	0	0	0	1	0	0	0	0	0	0	2006
9937	168	485.2	41055	0	0	0	0	0	0	1	0	0	0	0	0	2006
10111	168	472.3	31556	0	0	0	0	0	0	1	0	0	0	0	0	2006
10188	168	441.7	9001	0	0	0	0	0	0	1	0	0	0	0	0	2006
10220	168	438.7	4615	0	0	0	0	0	0	1	0	0	0	0	0	2006
*10159	168	467.2	25167	0	0	0	0	0	0	0	1	0	0	0	0	2006
10139	168	472.9	31855	0	0	0	0	0	0	0	1	0	0	0	0	2006
10123	168	479.5	35611	0	0	0	0	0	0	0	1	0	0	0	0	2006
10120	168	457.2	17546	0	0	0	0	0	0	0	1	0	0	0	0	2006
10100	168	452.8	13731	0	0	0	0	0	0	0	1	0	0	0	0	2006
10306	168	469.4	28216	0	0	0	0	0	0	0	0	1	0	0	0	2006
10381	168	456.1	19518	0	0	0	0	0	0	0	0	1	0	0	0	2006
10416	168	420.2	59363	0	0	0	0	0	0	0	0	1	0	0	0	2006
10157	168	362.6	16638	0	0	0	0	0	0	0	0	1	0	0	0	2006
10225	164	388.8	37659	0	0	0	0	0	0	0	0	0	1	0	0	2006
10203	168	421.6	61870	0	0	0	0	0	0	0	0	0	1	0	0	2006
10068	168	468.3	29809	0	0	0	0	0	0	0	0	0	1	0	0	2006
10192	168	471.2	32467	0	0	0	0	0	0	0	0	0	1	0	0	2006
10165	169	462.6	24743	0	0	0	0	0	0	0	0	0	1	0	0	2006
10292	168	428.7	353	0	0	0	0	0	0	0	0	0	0	1	0	2006
10097	168	474.3	34889	0	0	0	0	0	0	0	0	0	0	1	0	2006
10287	168	471.8	32024	0	0	0	0	0	0	0	0	0	0	1	0	2006
10123	168	468.9	29347	0	0	0	0	0	0	0	0	0	0	1	0	2006
10207	168	483.0	41117	0	0	0	0	0	0	0	0	0	0	0	0	2006
10121	168	467.4	27608	0	0	0	0	0	0	0	0	0	0	0	0	2006
10336	168	434.3	5240	0	0	0	0	0	0	0	0	0	0	0	0	2006
10484	167	385.7	30794	0	0	0	0	0	0	0	0	0	0	0	0	2006
10370	168	344.7	2690	1	0	0	0	0	0	0	0	0	0	0	0	2007
10097	168	419.1	59699	1	0	0	0	0	0	0	0	0	0	0	0	2007
10136	168	431.1	64197	1	0	0	0	0	0	0	0	0	0	0	0	2007
10195	168	394.0	40873	1	0	0	0	0	0	0	0	0	0	0	0	2007
10269	168	394.1	42642	0	1	0	0	0	0	0	0	0	0	0	0	2007
10271	168	377.6	32903	0	1	0	0	0	0	0	0	0	0	0	0	2007
10239	168	401.9	47599	0	1	0	0	0	0	0	0	0	0	0	0	2007
10355	168	319.6	49458	0	1	0	0	0	0	0	0	0	0	0	0	2007
9975	168	381.8	31475	0	0	1	0	0	0	0	0	0	0	0	0	2007
10367	167	330.7	56457	0	0	1	0	0	0	0	0	0	0	0	0	2007
10229	168	341.1	64681	0	0	1	0	0	0	0	0	0	0	0	0	2007
10104	168	392.6	38237	0	0	1	0	0	0	0	0	0	0	0	0	2007
10159	153	396.7	39727	0	0	0	1	0	0	0	0	0	0	0	1	2007
*10023	168	369.2	6066	0	0	0	1	0	0	0	0	0	0	0	0	2007
*10055	163	360.1	884	0	0	0	1	0	0	0	0	0	0	0	0	2007
*10132	168	412.2	45515	0	0	0	1	0	0	0	0	0	0	0	0	2007
9788	168	453.8	14174	0	0	0	0	1	0	0	0	0	0	0	0	2007
9979	168	448.7	12355	0	0	0	0	1	0	0	0	0	0	0	0	2007



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
10076	168	419.9	56964	0	0	0	0	1	0	0	0	0	0	0	0	2007
9802	168	426.3	62712	0	0	0	0	1	0	0	0	0	0	0	0	2007
10103	168	440.8	9000	0	0	0	0	0	1	0	0	0	0	0	0	2007
10053	168	470.8	29873	0	0	0	0	0	1	0	0	0	0	0	0	2007
10120	168	476.5	33749	0	0	0	0	0	1	0	0	0	0	0	0	2007
10158	168	455.7	17621	0	0	0	0	0	1	0	0	0	0	0	0	2007
10029	120	466.4	25846	0	0	0	0	0	1	0	0	0	0	0	0	2007

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.

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

Calculation of  
Target Average Net Operating Heat Rates  
for January 2008 - December 2008

Unit	Month	(1)	(2)	(3)	(4)	(5)
		Forecast AKW * 10 <sup>3</sup>	Forecast LSRF * 10 <sup>6</sup>	Forecast Monthly ANOHR	Forecast AKWH * 10 <sup>3</sup> Generation	Weighted ANOHR Target
CRIST 4	Jan '08	70.5	5,054	10,484	6,768	
	Feb '08	0.0	0	0	0	
	Mar '08	75.5	5,712	10,534	26,964	
	Apr '08	73.6	5,459	10,426	52,704	
	May '08	70.9	5,106	10,782	52,433	
	Jun '08	73.7	5,473	10,914	52,789	
	Jul '08	74.6	5,592	10,758	55,203	
	Aug '08	75.1	5,658	10,925	55,601	
	Sep '08	74.0	5,512	10,774	52,961	
	Oct '08	73.0	5,380	10,697	54,019	
	Nov '08	74.2	5,539	10,577	53,212	
	Dec '08	70.7	5,080	10,480	47,251	10,696
CRIST 5	Jan '08	73.7	5,461	10,406	54,192	
	Feb '08	73.4	5,422	10,412	24,356	
	Mar '08	75.5	5,695	10,371	28,603	
	Apr '08	74.0	5,500	10,253	52,588	
	May '08	71.0	5,114	10,653	52,175	
	Jun '08	73.9	5,487	10,592	52,511	
	Jul '08	74.8	5,604	10,689	54,947	
	Aug '08	75.4	5,682	10,680	55,451	
	Sep '08	74.0	5,500	10,779	52,619	
	Oct '08	73.2	5,396	10,732	53,806	
	Nov '08	74.0	5,500	10,400	45,736	
	Dec '08	71.2	5,139	10,457	48,956	10,552
CRIST 6	Jan '08	275.8	77,902	10,419	147,568	
	Feb '08	272.9	76,502	10,237	139,716	
	Mar '08	294.5	87,169	10,096	212,026	
	Apr '08	278.7	79,312	10,401	194,564	
	May '08	264.8	72,642	10,488	190,933	
	Jun '08	279.5	79,703	10,583	195,118	
	Jul '08	285.4	82,608	10,363	205,807	
	Aug '08	287.7	83,752	10,350	207,417	
	Sep '08	281.4	80,634	10,386	196,406	
	Oct '08	276.1	78,047	10,235	199,075	
	Nov '08	280.8	80,340	10,389	46,046	
	Dec '08	263.6	72,077	10,495	147,066	10,365

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 2008 - December 2008

Unit	Month	(1)	(2)	(3)	(4)	(5)
		Forecast AKW * 10 <sup>3</sup>	Forecast LSRF * 10 <sup>6</sup>	Forecast Monthly ANOHR	Forecast AKWH * 10 <sup>3</sup> Generation	Weighted ANOHR Target
CRIST 7	Jan '08	453.4	208,614	10,351	236,221	
	Feb '08	449.7	205,525	10,058	203,724	
	Mar '08	470.3	222,964	10,554	329,648	
	Apr '08	461.0	215,018	10,520	313,041	
	May '08	446.4	202,786	10,370	313,352	
	Jun '08	464.3	217,824	10,545	315,240	
	Jul '08	466.6	219,788	10,315	327,521	
	Aug '08	468.3	221,245	10,310	328,758	
	Sep '08	465.3	218,677	10,318	315,964	
	Oct '08	460.4	214,509	10,331	323,186	
	Nov '08	464.2	217,738	10,321	220,944	
	Dec '08	449.0	204,943	10,363	101,927	10,375
SMITH 1	Jan '08	155.5	24,457	10,232	113,971	
	Feb '08	154.8	24,276	10,235	106,164	
	Mar '08	158.0	25,107	10,222	115,652	
	Apr '08	155.6	24,483	10,232	110,340	
	May '08	153.9	24,044	10,239	112,807	
	Jun '08	156.0	24,587	10,308	110,587	
	Jul '08	156.9	24,821	10,298	115,037	
	Aug '08	157.2	24,899	10,225	115,257	
	Sep '08	155.8	24,535	10,231	110,447	
	Oct '08	155.5	24,457	10,156	114,015	
	Nov '08	154.6	24,225	10,236	91,526	
	Dec '08	151.8	23,505	10,247	111,245	10,238
SMITH 2	Jan '08	184.7	34,579	10,327	130,006	
	Feb '08	183.7	34,264	10,329	120,863	
	Mar '08	186.9	35,277	10,322	105,970	
	Apr '08	179.5	32,952	10,340	52,954	
	May '08	177.3	32,274	10,251	52,314	
	Jun '08	184.2	34,421	10,328	125,417	
	Jul '08	186.4	35,118	10,259	131,236	
	Aug '08	187.5	35,469	10,320	131,980	
	Sep '08	184.2	34,421	10,273	125,435	
	Oct '08	182.0	33,730	10,333	128,116	
	Nov '08	184.7	34,579	10,327	125,948	
	Dec '08	179.8	33,045	10,339	126,604	10,314

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 2008 - December 2008

Unit	Month	(1)	(2)	(3)	(4)	(5)
		Forecast AKW * 10 <sup>3</sup>	Forecast LSRF * 10 <sup>6</sup>	Forecast Monthly ANOHR	Forecast AKWH * 10 <sup>3</sup> Generation	Weighted ANOHR Target
DANIEL 1	Jan '08	483.8	237,652	10,123	354,134	
	Feb '08	484.3	238,042	10,122	331,249	
	Mar '08	499.3	249,871	10,078	364,998	
	Apr '08	483.2	237,184	10,125	342,093	
	May '08	459.4	218,912	10,199	336,257	
	Jun '08	476.4	231,905	10,145	337,268	
	Jul '08	486.7	239,920	10,114	356,264	
	Aug '08	491.3	243,534	10,101	359,608	
	Sep '08	483.4	237,340	10,124	342,251	
	Oct '08	459.2	218,761	10,200	249,360	
	Nov '08	484.2	237,964	10,122	240,660	
	Dec '08	473.9	229,976	10,153	346,862	10,132
DANIEL 2	Jan '08	493.4	244,597	10,069	356,243	
	Feb '08	495.1	245,874	10,066	334,181	
	Mar '08	497.7	247,828	9,813	196,607	
	Apr '08	495.8	246,400	10,065	346,042	
	May '08	469.8	226,900	9,879	339,199	
	Jun '08	491.0	242,794	10,073	342,708	
	Jul '08	493.5	244,672	10,068	356,301	
	Aug '08	500.4	249,859	10,057	361,270	
	Sep '08	493.2	244,446	9,874	344,237	
	Oct '08	0.0	0	-	0	
	Nov '08	455.6	216,285	10,136	53,307	
	Dec '08	483.3	237,014	10,086	315,101	10,016

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

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

Summary of Target, Maximum, and Minimum  
Average Net Operating Heat Rates  
for January 2008 - December 2008

Unit	Target Heat Rate BTU/KWH (0 Points)	Minimum Attainable Heat Rate (+ 10 Points)	Maximum Attainable Heat Rate (- 10 Points)
CRIST 4	10,696	10,375	11,017
CRIST 5	10,552	10,235	10,869
CRIST 6	10,365	10,054	10,676
CRIST 7	10,375	10,064	10,686
SMITH 1	10,238	9,931	10,545
SMITH 2	10,314	10,005	10,623
DANIEL 1	10,132	9,828	10,436
DANIEL 2	10,016	9,716	10,316

II. DETERMINATION OF EQUIVALENT AVAILABILITY TARGETS

Calculation of  
Target Equivalent Availabilities  
for January 2008 - December 2008

Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR *	Planned Outage Hours for Jan '08 - Dec '08	Reserve Shutdown Hours for Jan '08 - Dec '08	Target Equivalent Availability **
Crist 4	0.0173	1,728	0	78.9
Crist 5	0.0307	720	0	89.0
Crist 6	0.0753	720	0	84.9
Crist 7	0.1059	720	0	82.1
Smith 1	0.0297	0	0	97.0
Smith 2	0.0862	720	0	83.9
Daniel 1	0.0387	216	0	93.8
Daniel 2	0.0400	1,680	0	77.6

\* For Period July 2002 through June 2007.

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



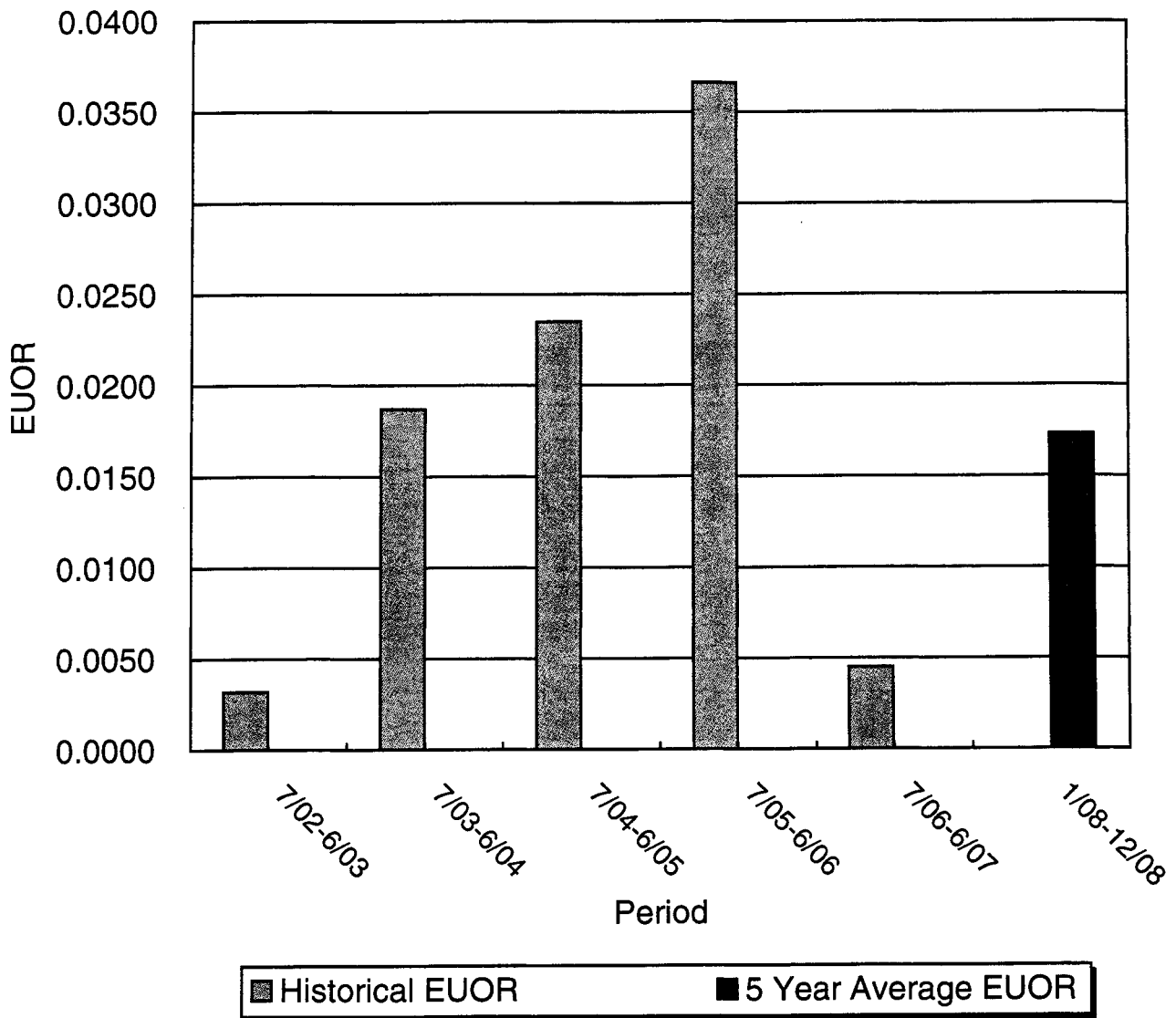
Calculation of Maximum and Minimum  
Attainable Equivalent Availabilities  
for January 2008 - December 2008

Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR (TARGET EUOR)	Minimum Attainable EUOR 70% of Target EUOR	Maximum Attainable Equivalent Availability	Maximum Attainable EUOR 145% of Target EUOR	Minimum Attainable Equivalent Availability
Crist 4	0.0173	0.0121	79.4	0.0251	78.3
Crist 5	0.0307	0.0215	89.8	0.0445	87.7
Crist 6	0.0753	0.0527	87.0	0.1092	81.8
Crist 7	0.1059	0.0741	85.0	0.1536	77.7
Smith 1	0.0297	0.0208	97.9	0.0431	95.7
Smith 2	0.0862	0.0603	86.3	0.1250	80.3
Daniel 1	0.0387	0.0271	94.9	0.0561	92.1
Daniel 2	0.0400	0.0280	78.6	0.0580	76.2

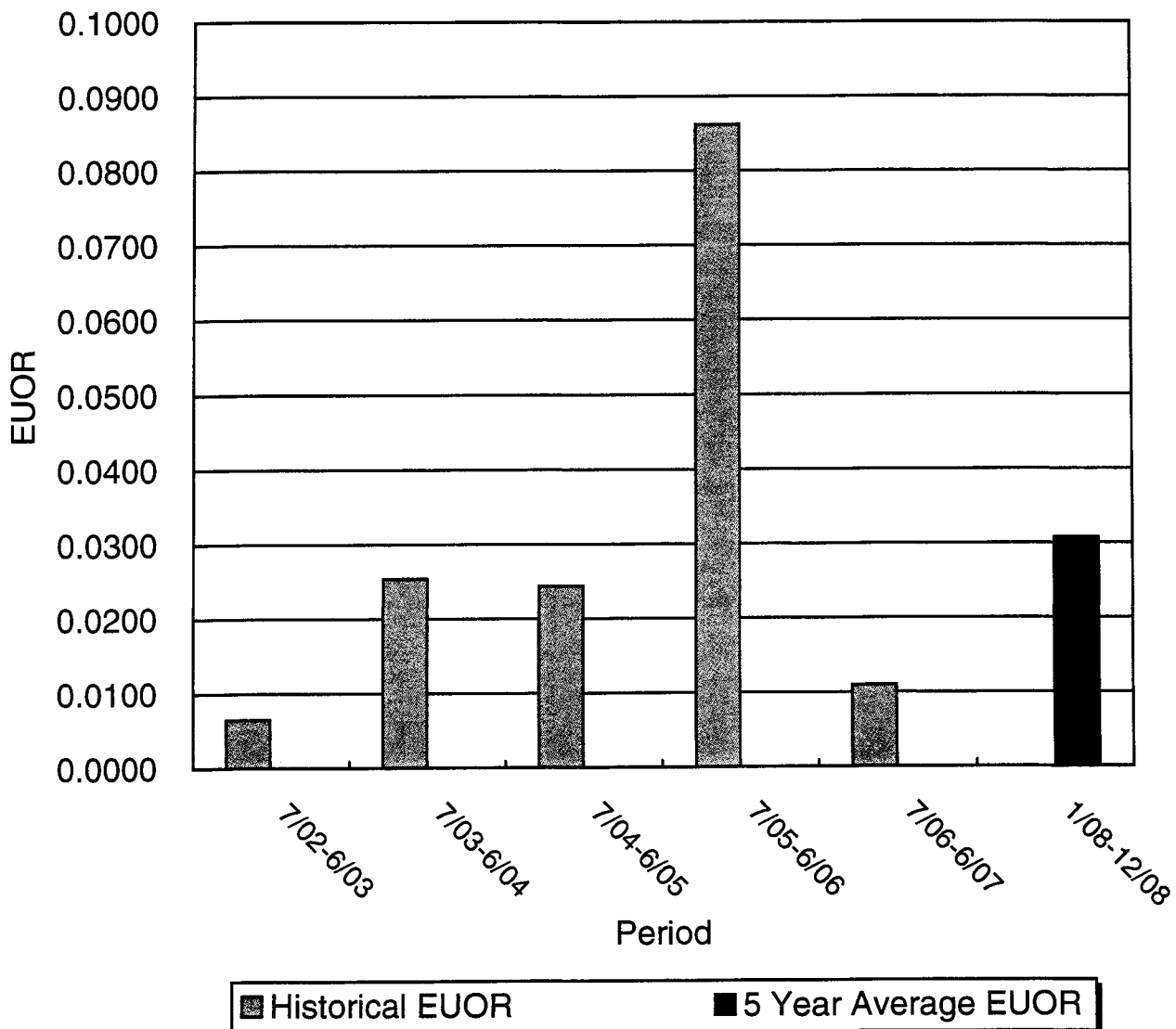
Summary of Target, Maximum, and Minimum  
Equivalent Availabilities  
for January 2008 - December 2008

Unit	Target Equivalent Availability (0 Points)	Maximum Attainable Equivalent Availability (+10 Points)	Minimum Attainable Equivalent Availability (-10 Points)
Crist 4	78.9	79.4	78.3
Crist 5	89.0	89.8	87.7
Crist 6	84.9	87.0	81.8
Crist 7	82.1	85.0	77.7
Smith 1	97.0	97.9	95.7
Smith 2	83.9	86.3	80.3
Daniel 1	93.8	94.9	92.1
Daniel 2	77.6	78.6	76.2

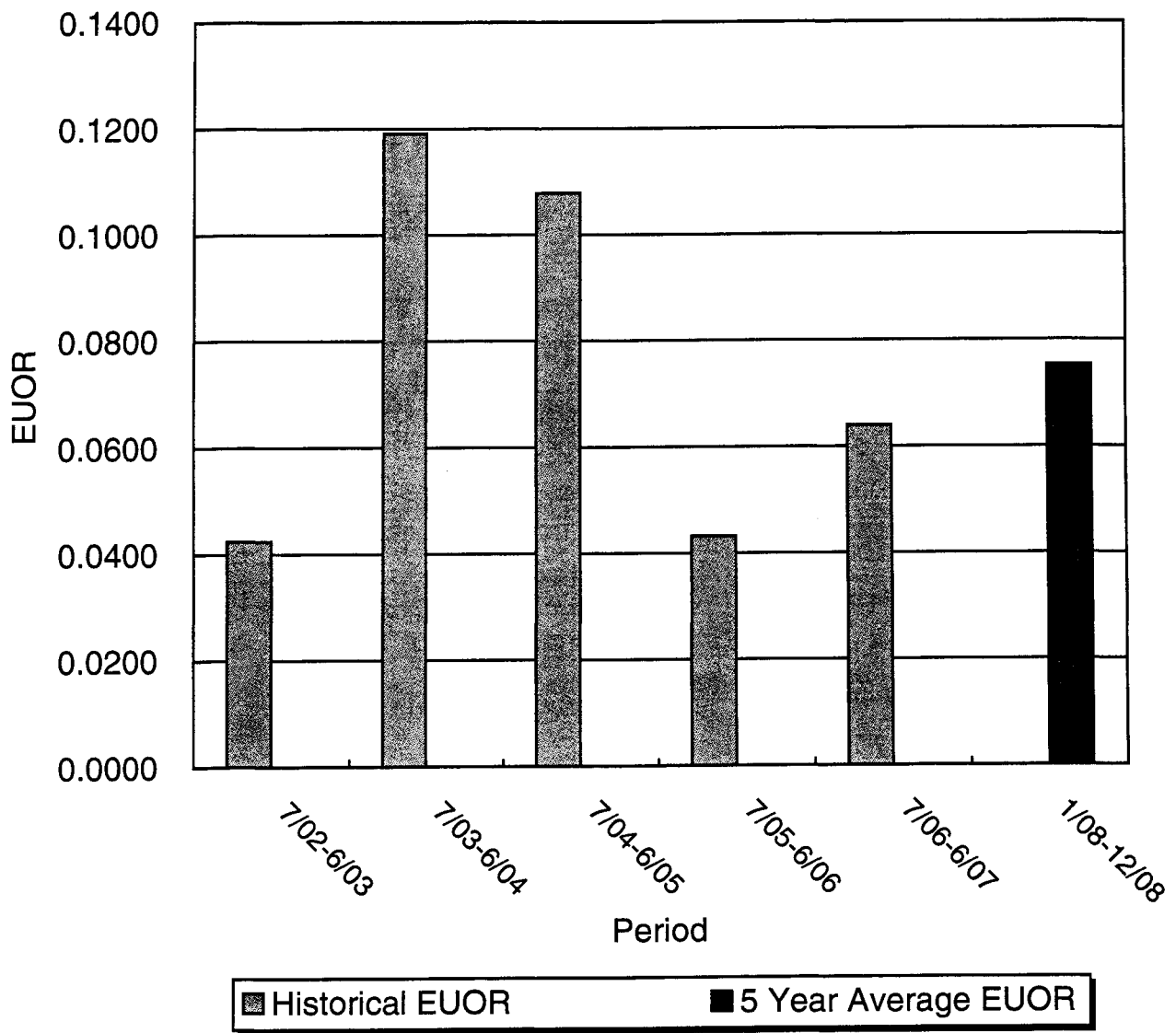
### EUOR VS. PERIOD CRIST 4 January-December



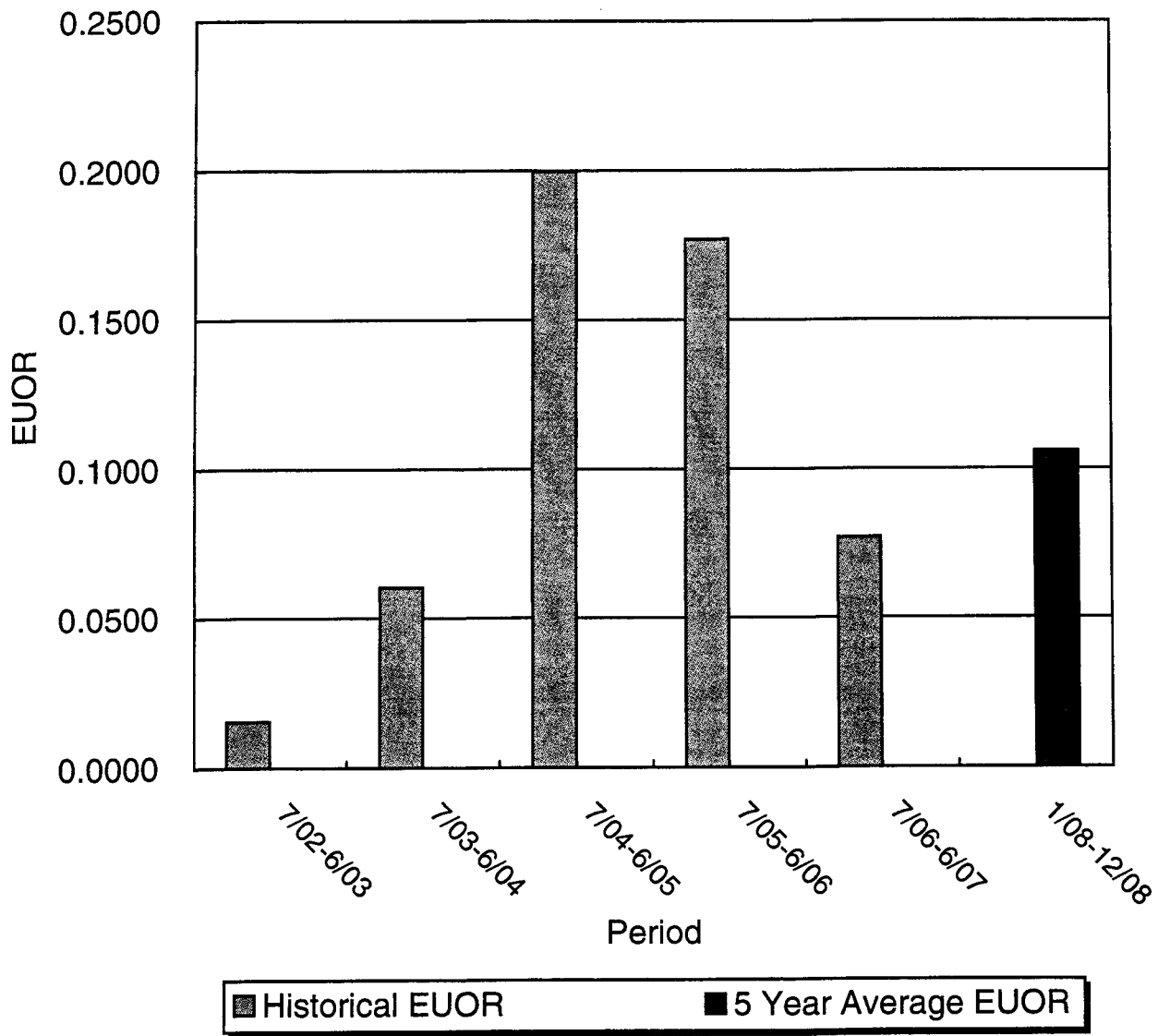
### EUOR VS. PERIOD CRIST 5 January-December



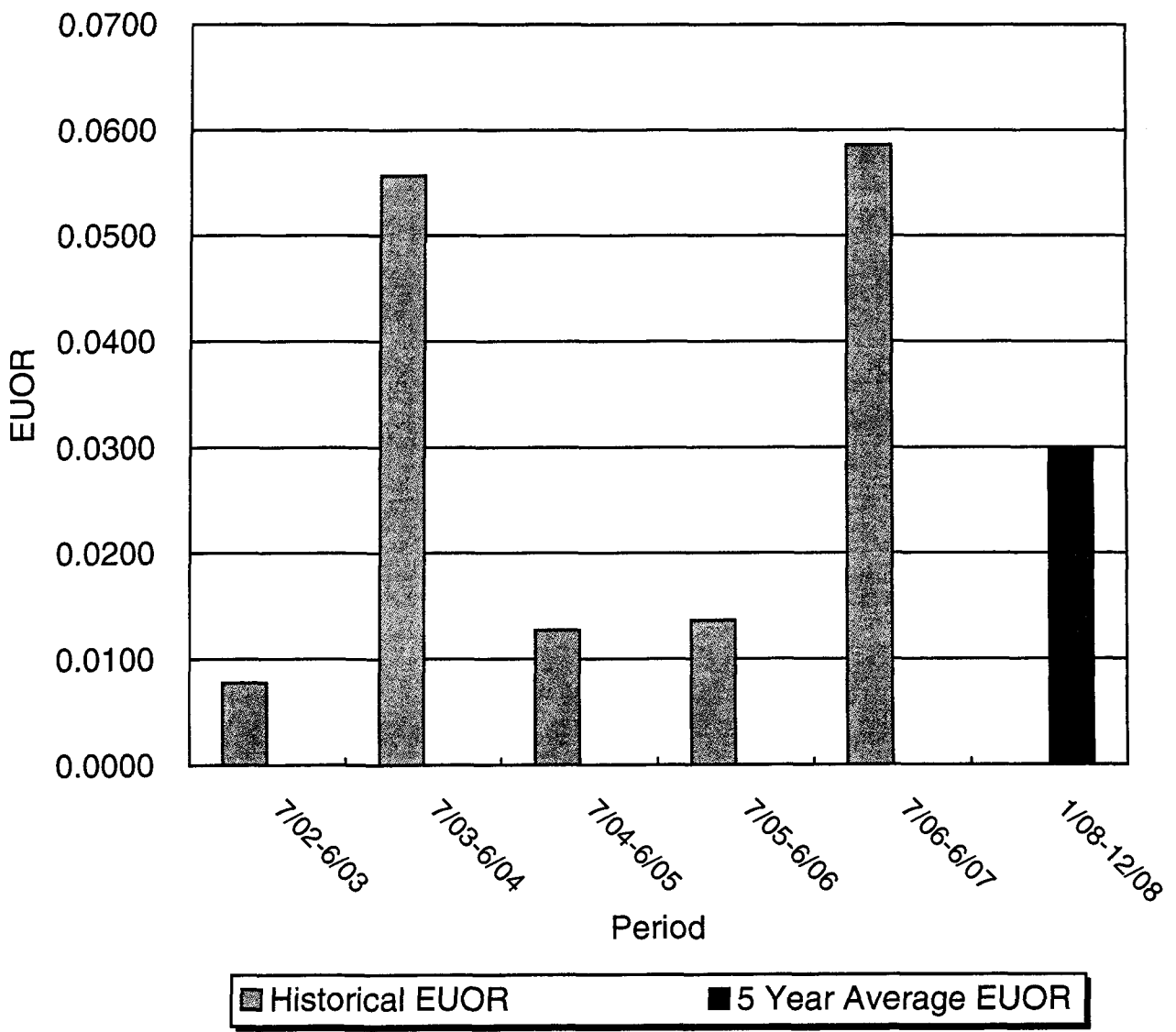
### EUOR VS. PERIOD CRIST 6 January-December



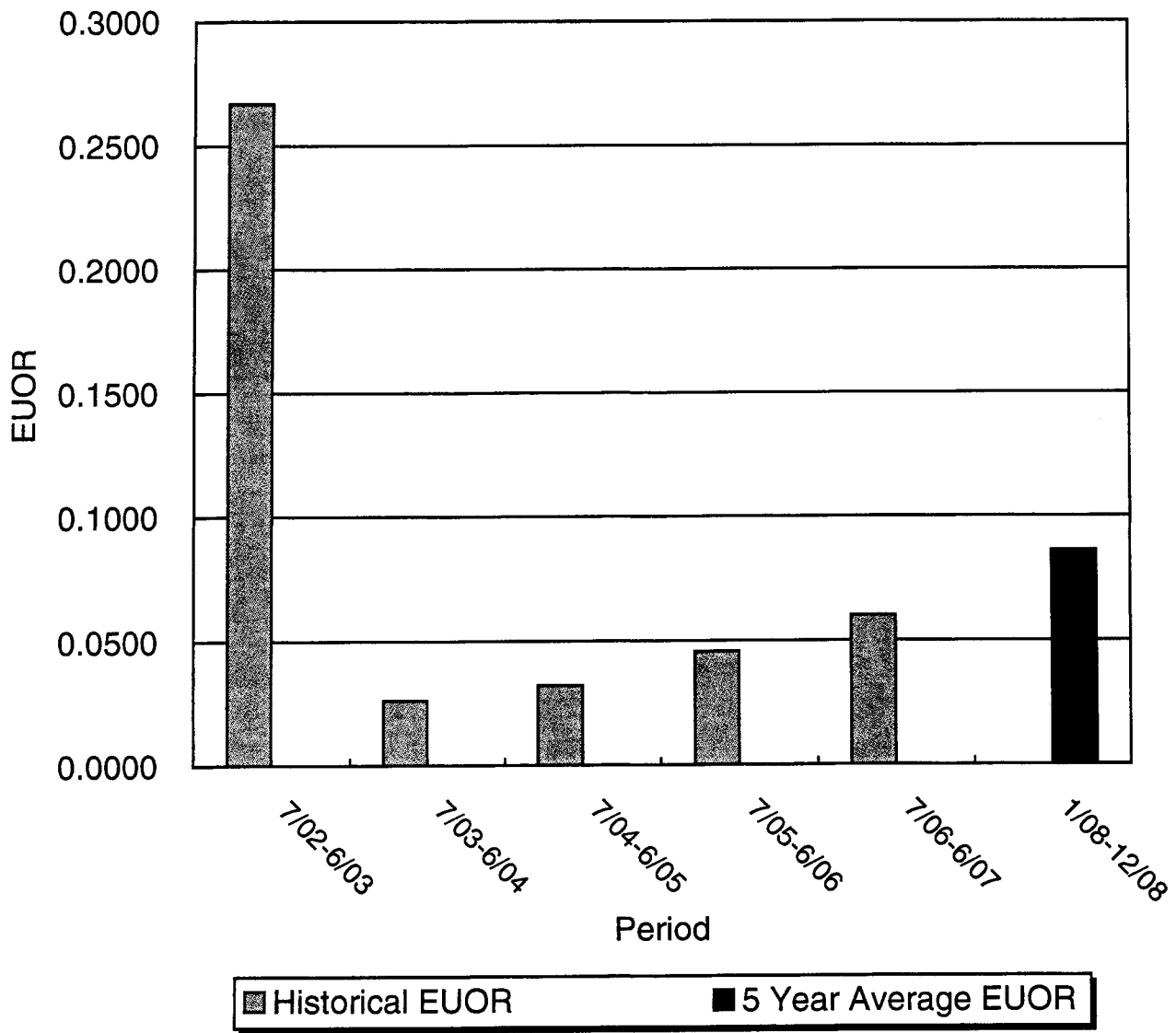
### EUOR VS. PERIOD CRIST 7 January-December



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

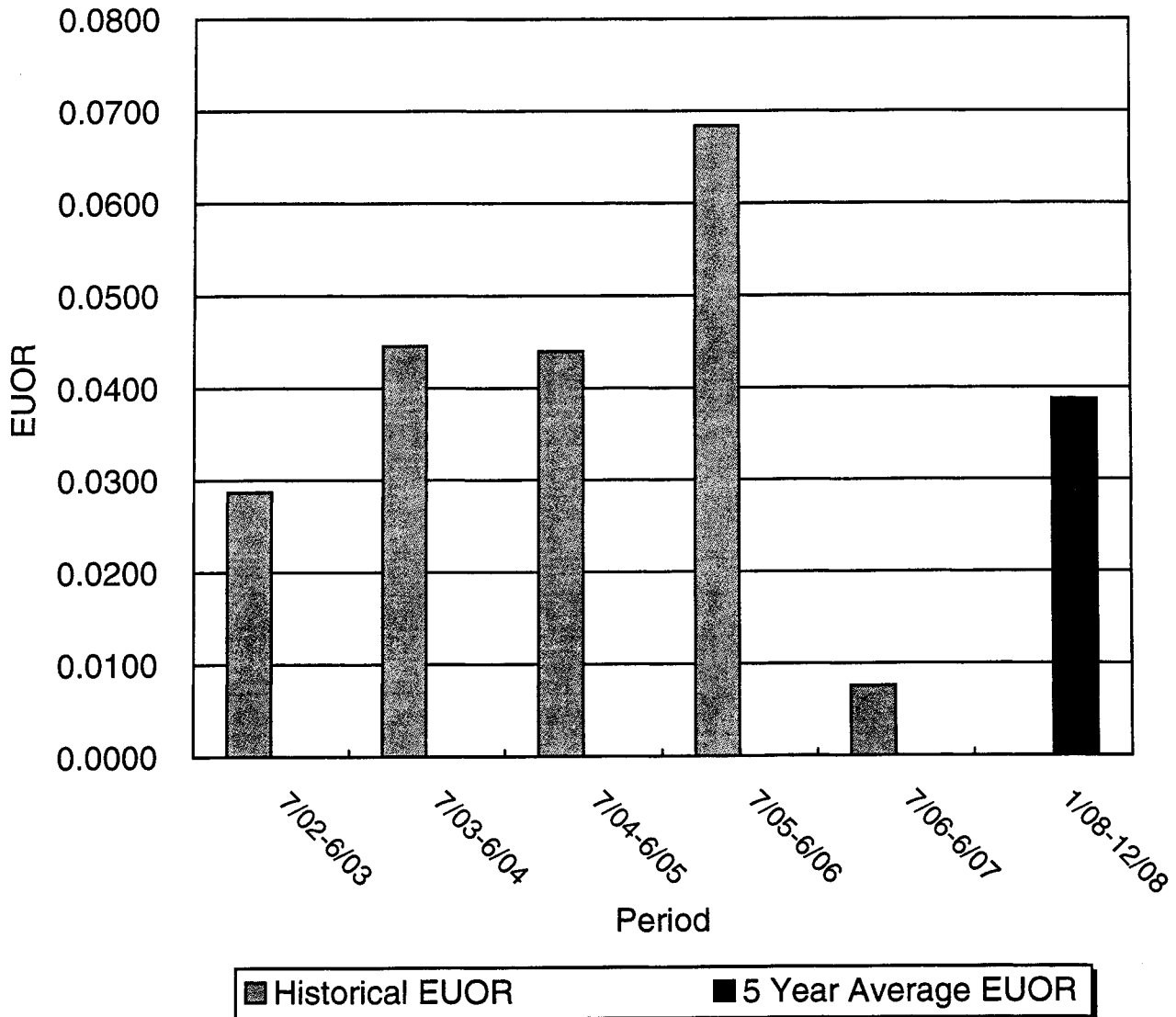


### EUOR VS. PERIOD SMITH 2 January-December

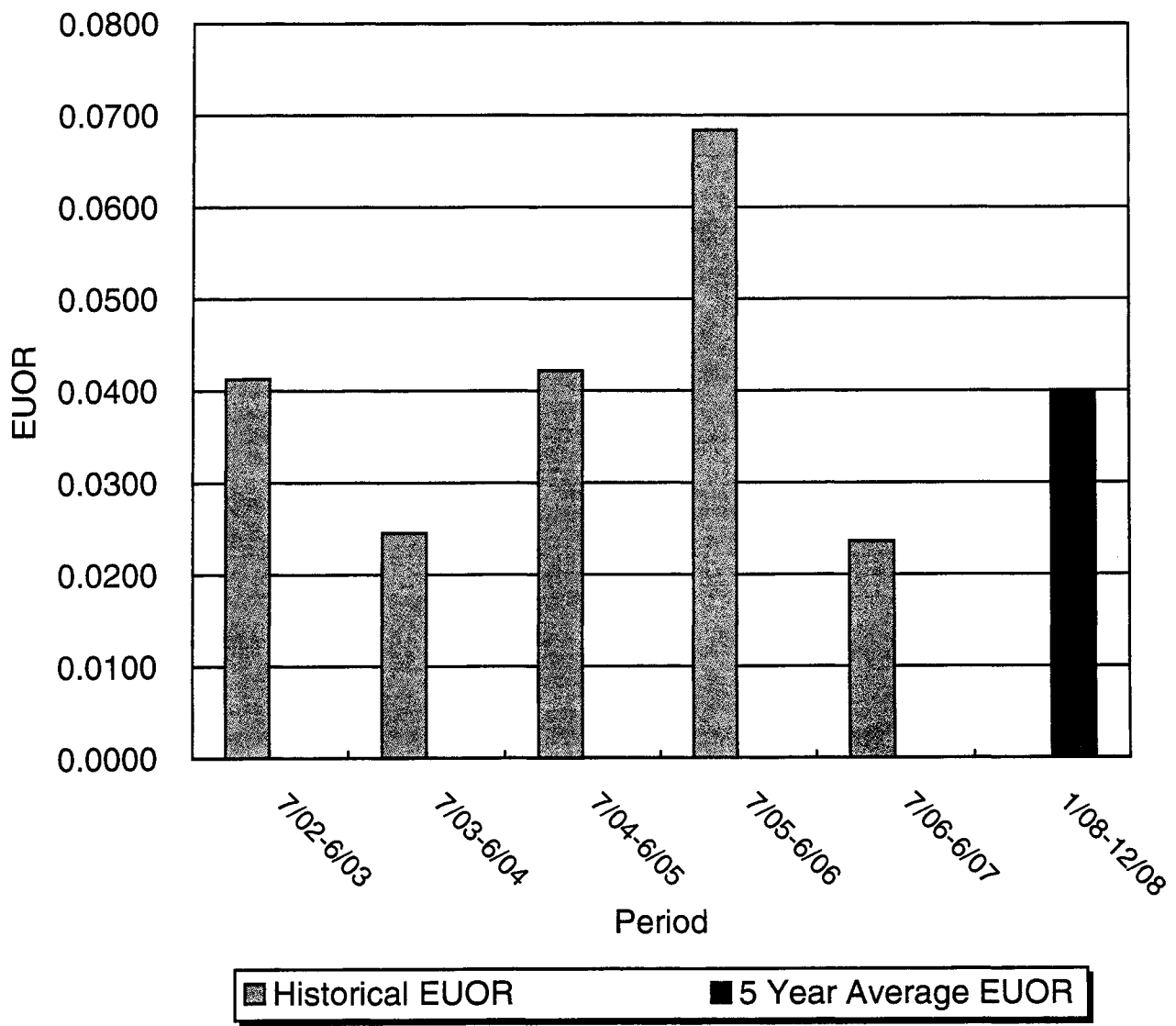




### EUOR VS. PERIOD DANIEL 1 January-December



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



III. GPIF MINIMUM FILING REQUIREMENTS FOR THE  
PERIOD JANUARY 2008 - DECEMBER 2008

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Example Calculation of Prior Season ANOHR	9
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Planned Outage Schedules	36 - 37

## Generating Performance Incentive Factor

## Estimated Reward/Penalty Table

Gulf Power Company

Period of: January 2008 - December 2008

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	10482	3354
+ 9	9434	3019
+ 8	8386	2683
+ 7	7337	2348
+ 6	6289	2012
+ 5	5241	1677
+ 4	4193	1342
+ 3	3145	1006
+ 2	2096	671
+ 1	1048	335
0	0	0
- 1	-1159	-335
- 2	-2318	-671
- 3	-3476	-1006
- 4	-4635	-1342
- 5	-5794	-1677
- 6	-6953	-2012
- 7	-8112	-2348
- 8	-9270	-2683
- 9	-10429	-3019
- 10	-11588	-3354
	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 2008 - December 2008

Line 1	Beginning of Period Balance of Common Equity	\$734,235,973
	End of Month Balance of Common Equity:	
Line 2	Month of Jan '08	\$845,465,950
Line 3	Month of Feb '08	\$853,472,138
Line 4	Month of Mar '08	\$858,787,896
Line 5	Month of Apr '08	\$842,724,574
Line 6	Month of May '08	\$851,968,408
Line 7	Month of Jun '08	\$864,148,545
Line 8	Month of Jul '08	\$858,216,408
Line 9	Month of Aug '08	\$873,702,795
Line 10	Month of Sep '08	\$884,117,131
Line 11	Month of Oct '08	\$868,581,377
Line 12	Month of Nov '08	\$871,796,261
Line 13	Month of Dec '08	\$888,243,260
Line 14	Average Common Equity for the Period (sum of line 1 through line 13 divided by 13)	\$853,496,978
Line 15	25 Basis Points	0.0025
Line 16	Revenue Expansion Factor	61.3808%
Line 17	Maximum Allowed Incentive Dollars (line 14 multiplied by line 15 divided by line 16 multiplied by 1.0)	\$3,476,239
Line 18	Jurisdictional Sales (KWH)	11,587,237,105
Line 19	Total Territorial Sales (KWH)	12,009,655,811
Line 20	Jurisdictional Separation Factor (line 18 divided by line 19)	96.4827%
Line 21	Maximum Allowed Jurisdictional Incentive Dollars (line 17 multiplied by line 20)	\$3,353,968

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## GPIF Unit Performance Summary

Gulf Power Company

Period of: January 2008 - December 2008

Plant & Unit	Weighting Factor %	EAF Target %	EAF Range		Max Fuel Savings (\$000)	Max Fuel Loss (\$000)
			Max %	Min %		
Crist 4	0.1%	78.9	79.4	78.3	\$12	(\$30)
Crist 5	0.2%	89.0	89.8	87.7	\$23	(\$34)
Crist 6	2.0%	84.9	87.0	81.8	\$209	(\$442)
Crist 7	8.5%	82.1	85.0	77.7	\$896	(\$1,317)
Smith 1	1.2%	97.0	97.9	95.7	\$125	(\$164)
Smith 2	3.7%	83.9	86.3	80.3	\$392	(\$574)
Daniel 1	0.7%	93.8	94.9	92.1	\$73	(\$205)
Daniel 2	2.0%	77.6	78.6	76.2	\$210	(\$280)

Plant & Unit	Weighting Factor %	ANOHR Target BTU/KWH	Target NOF	ANOHR Range		Max Fuel Savings (\$000)	Max Fuel Loss (\$000)
				Min BTU/KWH	Max BTU/KWH		
Crist 4	3.3%	10,696	94.1	10,375	11,017	\$350	(\$350)
Crist 5	3.7%	10,552	94.4	10,235	10,869	\$385	(\$385)
Crist 6	11.1%	10,365	92.3	10,054	10,676	\$1,165	(\$1,165)
Crist 7	21.3%	10,375	97.7	10,064	10,686	\$2,230	(\$2,230)
Smith 1	9.0%	10,238	96.0	9,931	10,545	\$948	(\$948)
Smith 2	8.5%	10,314	94.3	10,005	10,623	\$892	(\$892)
Daniel 1	12.9%	10,132	95.6	9,828	10,436	\$1,357	(\$1,357)
Daniel 2	11.6%	10,016	96.2	9,716	10,316	\$1,215	(\$1,215)

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

## Availability

## Gulf Power Company

Period of: January 2008 - December 2008

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Target			Actual Performance 1st Prior Period Jul '06 - Jun '07			Actual Performance 2nd Prior Period Jul '05 - Jun '06		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Crist 4	0.1%	0.6%	0.1967	0.0139	0.0173	0.0595	0.0041	0.0045	0.0000	0.0366	0.0366
Crist 5	0.2%	1.2%	0.0820	0.0282	0.0307	0.0561	0.0101	0.0110	0.0000	0.0860	0.0862
Crist 6	2.0%	10.8%	0.0820	0.0691	0.0753	0.0000	0.0639	0.0639	0.3459	0.0281	0.0432
Crist 7	8.5%	46.2%	0.0820	0.0972	0.1059	0.1105	0.0685	0.0770	0.0000	0.1765	0.1771
Smith 1	1.2%	6.4%	0.0000	0.0297	0.0297	0.1665	0.0488	0.0586	0.0588	0.0128	0.0136
Smith 2	3.7%	20.2%	0.0820	0.0791	0.0862	0.0826	0.0550	0.0600	0.0000	0.0457	0.0457
Daniel 1	0.7%	3.8%	0.0246	0.0378	0.0387	0.0213	0.0074	0.0076	0.1366	0.0590	0.0684
Daniel 2	2.0%	10.8%	0.1913	0.0323	0.0400	0.0191	0.0232	0.0236	0.1274	0.0596	0.0684
Weighted GPIF System Average			0.0871	0.0756	0.0826	0.0824	0.0557	0.0613	0.0600	0.1045	0.1078

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

## Availability

Gulf Power Company

Period of: January 2008 - December 2008

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Actual Performance 3rd Prior Period Jul '04 - Jun '05			Actual Performance 4th Prior Period Jul '03 - Jun '04			Actual Performance 5th Prior Period Jul '02 - Jun '03		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Crist 4	0.1%	0.6%	0.0222	0.0228	0.0235	0.0598	0.0176	0.0187	0.0581	0.0030	0.0032
Crist 5	0.2%	1.2%	0.0219	0.0236	0.0244	0.0571	0.0239	0.0254	0.0598	0.0061	0.0065
Crist 6	2.0%	10.8%	0.0000	0.1079	0.1079	0.0650	0.1112	0.1191	0.0589	0.0399	0.0424
Crist 7	8.5%	46.2%	0.2054	0.1587	0.1997	0.2192	0.0472	0.0604	0.1199	0.0136	0.0155
Smith 1	1.2%	6.4%	0.0403	0.0122	0.0127	0.0798	0.0512	0.0557	0.1019	0.0070	0.0078
Smith 2	3.7%	20.2%	0.1962	0.0259	0.0322	0.0388	0.0252	0.0262	0.3159	0.1825	0.2668
Daniel 1	0.7%	3.8%	0.1343	0.0381	0.0440	0.0870	0.0407	0.0446	0.2250	0.0222	0.0287
Daniel 2	2.0%	10.8%	0.0743	0.0390	0.0422	0.1328	0.0212	0.0245	0.0526	0.0391	0.0413
Weighted GPIF System Average			0.1506	0.0970	0.1178	0.1399	0.0464	0.0544	0.1473	0.0531	0.0718

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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 2008 - December 2008

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Heat Rate Target	1st Prior Period	2nd Prior Period	3rd Prior Period
				Heat Rate Jul '06 - Jun '07	Heat Rate Jul '05 - Jun '06	Heat Rate Jul '04 - Jun '05
Crist 4	3.3%	4.1%	10,696	10,868	10,642	10,605
Crist 5	3.7%	4.5%	10,552	10,626	10,589	10,514
Crist 6	11.1%	13.6%	10,365	10,420	10,405	10,261
Crist 7	21.3%	26.1%	10,375	10,542	10,349	10,316
Smith 1	9.0%	11.1%	10,238	10,253	10,293	10,169
Smith 2	8.5%	10.4%	10,314	10,291	10,312	10,408
Daniel 1	12.9%	15.9%	10,132	10,107	10,117	9,922
Daniel 2	11.6%	14.2%	10,016	10,029	20,325	10,063
Weighted GPIF System Average:			10,284	10,342	11,751	10,224

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Example Calculation of Prior Season

Average Net Operating Heat Rate

Adjusted to Target Basis

Crist 6 Jul '05 - Jun '06

	Jul Jan	Aug Feb	Sep Mar	Oct Apr	Nov May	Dec Jun	
1. Target Heat Rate*	10363.0 10419.0	10350.0 10237.0	10386.0 10096.0	10235.0 10401.0	10389.0 10488.0	10495.0 10583.0	
2. Target Heat Rate at Actual Conditions**	10399.0 10541.0	10403.0 10232.0	10393.0 10174.0	0.0 0.0	11829.0 10718.0	10478.0 10530.0	
3. Adjustments to Actual Heat Rate (1-2)	-36.0 -122.0	-53.0 5.0	-7.0 -78.0	10235.0 10401.0	-1440.0 -230.0	17.0 53.0	
4. Actual Heat Rate for Prior Period	10699.0 10125.0	10808.0 10328.0	10468.0 10296.0	0.0 0.0	11615.0 10572.0	10369.0 10519.0	
5. Adjusted actual Heat Rate (4+3)	10663.0 10003.0	10755.0 10333.0	10461.0 10218.0	10235.0 10401.0	10175.0 10342.0	10386.0 10572.0	
6. Forecast Net MWH Generation*	205806.8 147568.0	207417.0 139716.3	196405.6 212025.7	199075.1 194564.3	46046.0 190932.8	147065.6 195117.8	
7. Adjusted Actual Heat Rate for Jul '05 - Jun '06 = ( $\Sigma$ ((5)*(6)) ) / ( $\Sigma$ (6) )							10,405

\* For the January 2008 - December 2008 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 2008 - December 2008

Plant & Unit	Unit Performance Indicator	Production Cost Simulation Fuel Cost (\$000)			Weighting Factor (% of Savings)
		At Target (1)	At Maximum Improvement (2)	Savings (3)	
Crist 4	EA-1	\$566,468	\$566,456	\$12	0.1%
Crist 4	ANOHR-1	\$566,468	\$566,118	\$350	3.3%
Crist 5	EA-2	\$566,468	\$566,445	\$23	0.2%
Crist 5	ANOHR-2	\$566,468	\$566,083	\$385	3.7%
Crist 6	EA-3	\$566,468	\$566,259	\$209	2.0%
Crist 6	ANOHR-3	\$566,468	\$565,303	\$1,165	11.1%
Crist 7	EA-4	\$566,468	\$565,572	\$896	8.5%
Crist 7	ANOHR-4	\$566,468	\$564,238	\$2,230	21.3%
Smith 1	EA-5	\$566,468	\$566,343	\$125	1.2%
Smith 1	ANOHR-5	\$566,468	\$565,520	\$948	9.0%
Smith 2	EA-6	\$566,468	\$566,076	\$392	3.7%
Smith 2	ANOHR-6	\$566,468	\$565,576	\$892	8.5%
Daniel 1	EA-7	\$566,468	\$566,395	\$73	0.7%
Daniel 1	ANOHR-7	\$566,468	\$565,111	\$1,357	12.9%
Daniel 2	EA-8	\$566,468	\$566,258	\$210	2.0%
Daniel 2	ANOHR-8	\$566,468	\$565,253	\$1,215	11.6%

- (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 2008 - December 2008

Crist 4

Equivalent Availability Points	Fuel Savings/ Loss (\$000)	Adjusted Actual Equivalent Availability	Average Heat Rate Points	Fuel Savings/ Loss (\$000)	Adjusted Actual Heat Rate
+ 10	12	79.40	+ 10	350	10,375
+ 9	11	79.35	+ 9	315	10,400
+ 8	10	79.30	+ 8	280	10,424
+ 7	8	79.25	+ 7	245	10,449
+ 6	7	79.20	+ 6	210	10,473
+ 5	6	79.15	+ 5	175	10,498
+ 4	5	79.10	+ 4	140	10,523
+ 3	4	79.05	+ 3	105	10,547
+ 2	2	79.00	+ 2	70	10,572
+ 1	1	78.95	+ 1	35	10,596
				0	10,621
0	0	78.90	0	0	10,696
				0	10,771
- 1	(3)	78.84	- 1	(35)	10,796
- 2	(6)	78.78	- 2	(70)	10,820
- 3	(9)	78.72	- 3	(105)	10,845
- 4	(12)	78.66	- 4	(140)	10,869
- 5	(15)	78.60	- 5	(175)	10,894
- 6	(18)	78.54	- 6	(210)	10,919
- 7	(21)	78.48	- 7	(245)	10,943
- 8	(24)	78.42	- 8	(280)	10,968
- 9	(27)	78.36	- 9	(315)	10,992
- 10	(30)	78.30	- 10	(350)	11,017
Weighting Factor:		0.001	Weighting Factor:		0.033

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## Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2008 - December 2008

Crist 5

Equivalent Availability Points	Fuel Savings/ Loss (\$000)	Adjusted Actual Equivalent Availability	Average Heat Rate Points	Fuel Savings/ Loss (\$000)	Adjusted Actual Heat Rate
+ 10	23	89.80	+ 10	385	10,235
+ 9	21	89.72	+ 9	347	10,259
+ 8	18	89.64	+ 8	308	10,283
+ 7	16	89.56	+ 7	270	10,308
+ 6	14	89.48	+ 6	231	10,332
+ 5	12	89.40	+ 5	193	10,356
+ 4	9	89.32	+ 4	154	10,380
+ 3	7	89.24	+ 3	116	10,404
+ 2	5	89.16	+ 2	77	10,429
+ 1	2	89.08	+ 1	39	10,453
				0	10,477
0	0	89.00	0	0	10,552
				0	10,627
- 1	(3)	88.87	- 1	(39)	10,651
- 2	(7)	88.74	- 2	(77)	10,675
- 3	(10)	88.61	- 3	(116)	10,700
- 4	(14)	88.48	- 4	(154)	10,724
- 5	(17)	88.35	- 5	(193)	10,748
- 6	(20)	88.22	- 6	(231)	10,772
- 7	(24)	88.09	- 7	(270)	10,796
- 8	(27)	87.96	- 8	(308)	10,821
- 9	(31)	87.83	- 9	(347)	10,845
- 10	(34)	87.70	- 10	(385)	10,869
Weighting Factor:		0.002	Weighting Factor:		0.037

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## Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2008 - December 2008

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	209	87.00	+ 10	1,165	10,054
+ 9	188	86.79	+ 9	1,049	10,078
+ 8	167	86.58	+ 8	932	10,101
+ 7	146	86.37	+ 7	816	10,125
+ 6	125	86.16	+ 6	699	10,148
+ 5	105	85.95	+ 5	583	10,172
+ 4	84	85.74	+ 4	466	10,196
+ 3	63	85.53	+ 3	350	10,219
+ 2	42	85.32	+ 2	233	10,243
+ 1	21	85.11	+ 1	117	10,266
				0	10,290
0	0	84.90	0	0	10,365
				0	10,440
- 1	(44)	84.59	- 1	(117)	10,464
- 2	(88)	84.28	- 2	(233)	10,487
- 3	(133)	83.97	- 3	(350)	10,511
- 4	(177)	83.66	- 4	(466)	10,534
- 5	(221)	83.35	- 5	(583)	10,558
- 6	(265)	83.04	- 6	(699)	10,582
- 7	(309)	82.73	- 7	(816)	10,605
- 8	(354)	82.42	- 8	(932)	10,629
- 9	(398)	82.11	- 9	(1,049)	10,652
- 10	(442)	81.80	- 10	(1,165)	10,676
Weighting Factor:		0.020	Weighting Factor:		0.111

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2008 - December 2008

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	896	85.00	+ 10	2,230	10,064
+ 9	806	84.71	+ 9	2,007	10,088
+ 8	717	84.42	+ 8	1,784	10,111
+ 7	627	84.13	+ 7	1,561	10,135
+ 6	538	83.84	+ 6	1,338	10,158
+ 5	448	83.55	+ 5	1,115	10,182
+ 4	358	83.26	+ 4	892	10,206
+ 3	269	82.97	+ 3	669	10,229
+ 2	179	82.68	+ 2	446	10,253
+ 1	90	82.39	+ 1	223	10,276
				0	10,300
0	0	82.10	0	0	10,375
				0	10,450
- 1	(132)	81.66	- 1	(223)	10,474
- 2	(263)	81.22	- 2	(446)	10,497
- 3	(395)	80.78	- 3	(669)	10,521
- 4	(527)	80.34	- 4	(892)	10,544
- 5	(659)	79.90	- 5	(1,115)	10,568
- 6	(790)	79.46	- 6	(1,338)	10,592
- 7	(922)	79.02	- 7	(1,561)	10,615
- 8	(1,054)	78.58	- 8	(1,784)	10,639
- 9	(1,185)	78.14	- 9	(2,007)	10,662
- 10	(1,317)	77.70	- 10	(2,230)	10,686
Weighting Factor:		0.085	Weighting Factor:		0.213

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## Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2008 - December 2008

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	125	97.90	+ 10	948	9,931
+ 9	113	97.81	+ 9	853	9,954
+ 8	100	97.72	+ 8	758	9,977
+ 7	88	97.63	+ 7	664	10,001
+ 6	75	97.54	+ 6	569	10,024
+ 5	63	97.45	+ 5	474	10,047
+ 4	50	97.36	+ 4	379	10,070
+ 3	38	97.27	+ 3	284	10,093
+ 2	25	97.18	+ 2	190	10,117
+ 1	13	97.09	+ 1	95	10,140
				0	10,163
0	0	97.00	0	0	10,238
				0	10,313
- 1	(16)	96.87	- 1	(95)	10,336
- 2	(33)	96.74	- 2	(190)	10,359
- 3	(49)	96.61	- 3	(284)	10,383
- 4	(66)	96.48	- 4	(379)	10,406
- 5	(82)	96.35	- 5	(474)	10,429
- 6	(98)	96.22	- 6	(569)	10,452
- 7	(115)	96.09	- 7	(664)	10,475
- 8	(131)	95.96	- 8	(758)	10,499
- 9	(148)	95.83	- 9	(853)	10,522
- 10	(164)	95.70	- 10	(948)	10,545
Weighting Factor:		0.012	Weighting Factor:		0.090

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## Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2008 - December 2008

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	392	86.30	+ 10	892	10,005
+ 9	353	86.06	+ 9	803	10,028
+ 8	314	85.82	+ 8	714	10,052
+ 7	274	85.58	+ 7	624	10,075
+ 6	235	85.34	+ 6	535	10,099
+ 5	196	85.10	+ 5	446	10,122
+ 4	157	84.86	+ 4	357	10,145
+ 3	118	84.62	+ 3	268	10,169
+ 2	78	84.38	+ 2	178	10,192
+ 1	39	84.14	+ 1	89	10,216
				0	10,239
0	0	83.90	0	0	10,314
				0	10,389
- 1	(57)	83.54	- 1	(89)	10,412
- 2	(115)	83.18	- 2	(178)	10,436
- 3	(172)	82.82	- 3	(268)	10,459
- 4	(230)	82.46	- 4	(357)	10,483
- 5	(287)	82.10	- 5	(446)	10,506
- 6	(344)	81.74	- 6	(535)	10,529
- 7	(402)	81.38	- 7	(624)	10,553
- 8	(459)	81.02	- 8	(714)	10,576
- 9	(517)	80.66	- 9	(803)	10,600
- 10	(574)	80.30	- 10	(892)	10,623
Weighting Factor:		0.037	Weighting Factor:		0.085

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## Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2008 - December 2008

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	73	94.90	+ 10	1,357	9,828
+ 9	66	94.79	+ 9	1,221	9,851
+ 8	58	94.68	+ 8	1,086	9,874
+ 7	51	94.57	+ 7	950	9,897
+ 6	44	94.46	+ 6	814	9,920
+ 5	37	94.35	+ 5	679	9,943
+ 4	29	94.24	+ 4	543	9,965
+ 3	22	94.13	+ 3	407	9,988
+ 2	15	94.02	+ 2	271	10,011
+ 1	7	93.91	+ 1	136	10,034
				0	10,057
0	0	93.80	0	0	10,132
				0	10,207
- 1	(21)	93.63	- 1	(136)	10,230
- 2	(41)	93.46	- 2	(271)	10,253
- 3	(62)	93.29	- 3	(407)	10,276
- 4	(82)	93.12	- 4	(543)	10,299
- 5	(103)	92.95	- 5	(679)	10,322
- 6	(123)	92.78	- 6	(814)	10,344
- 7	(144)	92.61	- 7	(950)	10,367
- 8	(164)	92.44	- 8	(1,086)	10,390
- 9	(185)	92.27	- 9	(1,221)	10,413
- 10	(205)	92.10	- 10	(1,357)	10,436
Weighting Factor:		0.007	Weighting Factor:		0.129

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## Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2008 - December 2008

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	210	78.60	+ 10	1,215	9,716
+ 9	189	78.50	+ 9	1,094	9,739
+ 8	168	78.40	+ 8	972	9,761
+ 7	147	78.30	+ 7	851	9,784
+ 6	126	78.20	+ 6	729	9,806
+ 5	105	78.10	+ 5	608	9,829
+ 4	84	78.00	+ 4	486	9,851
+ 3	63	77.90	+ 3	365	9,874
+ 2	42	77.80	+ 2	243	9,896
+ 1	21	77.70	+ 1	122	9,919
				0	9,941
0	0	77.60	0	0	10,016
				0	10,091
- 1	(28)	77.46	- 1	(122)	10,114
- 2	(56)	77.32	- 2	(243)	10,136
- 3	(84)	77.18	- 3	(365)	10,159
- 4	(112)	77.04	- 4	(486)	10,181
- 5	(140)	76.90	- 5	(608)	10,204
- 6	(168)	76.76	- 6	(729)	10,226
- 7	(196)	76.62	- 7	(851)	10,249
- 8	(224)	76.48	- 8	(972)	10,271
- 9	(252)	76.34	- 9	(1,094)	10,294
- 10	(280)	76.20	- 10	(1,215)	10,316
Weighting Factor:		0.020	Weighting Factor:		0.116

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Florida Public Service Commission  
Docket No. 070001-EI  
Gulf Power Company  
Witness: L. S. Noack  
Exhibit No. \_\_\_ (LSN-2)  
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ESTIMATED UNIT PERFORMANCE DATA

## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

	CRIST 4	Jan '08	Feb '08	Mar '08	Apr '08	May '08	Jun '08	
1.	EAF (%)	12.9	0.0	48.0	99.2	99.2	99.4	
2.	POF (%)	87.1	100.0	51.7	0.0	0.0	0.0	
3.	EUOF (%)	0.0	0.0	0.3	0.8	0.8	0.6	
4.	EUOR (%)	0.0	0.0	0.6	0.8	0.8	0.6	
5.	PH	744.0	696.0	743.0	720.0	744.0	720.0	
6.	SH	96.0	0.0	357.0	716.0	740.0	716.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	648.0	696.0	386.0	4.0	4.0	4.0	
9.	POH	648.0	696.0	384.0	0.0	0.0	0.0	
10.	FOH & EFOH	0.0	0.0	2.0	6.0	6.0	4.0	
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	70956.0	0.0	284039.0	549488.0	565330.0	576134.0	
13.	Net Gen (MWH)	6768.0	0.0	26964.0	52703.6	52432.8	52788.5	
14.	ANOHR (Btu/KWH)	10484.0	-	10534.0	10426.0	10782.0	10914.0	
15.	NOF %	90.4	0.0	96.8	94.4	90.8	94.5	
16.	NPC (MW)	78.0	78.0	78.0	78.0	78.0	78.0	
19.	ANOHR Equation	$10^6 / AKW * [-508.01 + 11.33 * MAR + 21.63 * MAY + 36.12 * JUN + 26.37 * JUL + 39.93 * AUG + 26.37 * SEP + 18.89 * OCT + 12.20 * NOV]$ $+ 28,136 - 0.14571 * LSRF / AKW$						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

CRIST 4	Jul '08	Aug '08	Sep '08	Oct '08	Nov '08	Dec '08	Total
1. EAF (%)	99.5	99.5	99.2	99.2	99.2	89.5	78.9
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	19.7
3. EUOF (%)	0.5	0.5	0.8	0.8	0.8	10.5	1.4
4. EUOR (%)	0.5	0.5	0.8	0.8	0.8	10.5	1.7
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	740.0	740.0	716.0	740.0	717.0	668.0	6946.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	4.0	4.0	4.0	4.0	4.0	76.0	1838.0
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	1728.0
10. FOH & EFOH	4.0	4.0	6.0	6.0	6.0	6.0	50.0
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	72.0	72.0
12. Oper MBtu	593870.0	607443.0	570596.0	577839.0	562826.0	495189.0	5453710.0
13. Net Gen (MWH)	55202.6	55601.2	52960.5	54018.8	53212.3	47250.9	509903.2
14. ANOHR (Btu/KWH)	10758.0	10925.0	10774.0	10697.0	10577.0	10480.0	10696.0
15. NOF %	95.6	96.3	94.8	93.6	95.1	90.7	94.1
16. NPC (MW)	78.0	78.0	78.0	78.0	78.0	78.0	78.0
19. ANOHR Equation	$10^6 / \text{AKW} * [-508.01 + 11.33 * \text{MAR} + 21.63 * \text{MAY} + 36.12 * \text{JUN} + 26.37 * \text{JUL} + 39.93 * \text{AUG} + 26.37 * \text{SEP} + 18.89 * \text{OCT} + 12.20 * \text{NOV}]$ $+ 28,136 - 0.14571 * \text{LSRF} / \text{AKW}$						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

CRIST 5	Jan '08	Feb '08	Mar '08	Apr '08	May '08	Jun '08	
1. EAF (%)	98.8	47.4	50.9	98.8	98.8	98.8	
2. POF (%)	0.0	51.7	48.5	0.0	0.0	0.0	
3. EUOF (%)	1.2	0.9	0.6	1.2	1.2	1.2	
4. EUOR (%)	1.2	1.8	1.3	1.3	1.2	1.3	
5. PH	744.0	696.0	743.0	720.0	744.0	720.0	
6. SH	735.0	332.0	379.0	711.0	735.0	711.0	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	9.0	364.0	364.0	9.0	9.0	9.0	
9. POH	0.0	360.0	360.0	0.0	0.0	0.0	
10. FOH & EFOH	9.0	6.0	5.0	9.0	9.0	9.0	
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
12. Oper MBtu	563923.0	253589.0	296638.0	539183.0	555816.0	556201.0	
13. Net Gen (MWH)	54192.1	24355.5	28602.6	52587.8	52174.6	52511.4	
14. ANOHR (Btu/KWH)	10406.0	10412.0	10371.0	10253.0	10653.0	10592.0	
15. NOF %	94.5	94.1	96.8	94.8	91.0	94.7	
16. NPC (MW)	78.0	78.0	78.0	78.0	78.0	78.0	
19. ANOHR Equation	$10^6 / \text{AKW} * [107.79 - 10.84 * \text{APR} + 13.62 * \text{MAY} + 14.07 * \text{JUN} + 22.79 * \text{JUL} + 23.21 * \text{AUG} + 28.04 * \text{SEP} + 23.17 * \text{OCT}]$ +8.943						

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## ESTIMATED UNIT PERFORMANCE DATA

## GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

	CRIST 5	Jul '08	Aug '08	Sep '08	Oct '08	Nov '08	Dec '08	Total
1.	EAF (%)	98.8	98.8	98.8	98.5	85.4	92.2	89.0
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	8.2
3.	EUOF (%)	1.2	1.2	1.2	1.5	14.6	7.8	2.8
4.	EUOR (%)	1.2	1.2	1.3	1.5	14.6	7.8	3.1
5.	PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6.	SH	735.0	735.0	711.0	735.0	618.0	688.0	7825.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	9.0	9.0	9.0	9.0	103.0	56.0	959.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	720.0
10.	FOH & EFOH	9.0	9.0	9.0	11.0	9.0	10.0	104.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	96.0	48.0	144.0
12.	Oper MBtu	587333.0	592218.0	567180.0	577441.0	475659.0	511931.0	6077112.0
13.	Net Gen (MWH)	54947.4	55451.1	52619.0	53805.5	45736.4	48955.8	575939.2
14.	ANOHR (Btu/KWH)	10689.0	10680.0	10779.0	10732.0	10400.0	10457.0	10552.0
15.	NOF %	95.8	96.7	94.9	93.9	94.9	91.2	94.4
16.	NPC (MW)	78.0	78.0	78.0	78.0	78.0	78.0	78.0
19.	ANOHR Equation	$10^6 / \text{AKW} * [107.79 - 10.84 * \text{APR} + 13.62 * \text{MAY} + 14.07 * \text{JUN} + 22.79 * \text{JUL} + 23.21 * \text{AUG} + 28.04 * \text{SEP} + 23.17 * \text{OCT}]$ +8,943						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

CRIST 6	Jan '08	Feb '08	Mar '08	Apr '08	May '08	Jun '08	
1. EAF (%)	71.6	73.3	96.6	96.7	96.9	96.9	
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3. EUOF (%)	28.4	26.7	3.4	3.3	3.1	3.1	
4. EUOR (%)	28.4	26.7	3.4	3.3	3.1	3.1	
5. PH	744.0	696.0	743.0	720.0	744.0	720.0	
6. SH	535.0	512.0	720.0	698.0	721.0	698.0	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	209.0	184.0	23.0	22.0	23.0	22.0	
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	
10. FOH & EFOH	19.0	18.0	25.0	24.0	23.0	22.0	
11. MOH & EMOH	192.0	168.0	0.0	0.0	0.0	0.0	
12. Oper MBtu	1537511.0	1430276.0	2140611.0	2023663.0	2002503.0	2064932.0	
13. Net Gen (MWH)	147568.0	139716.3	212025.7	194564.3	190932.8	195117.8	
14. ANOHR (Btu/KWH)	10419.0	10237.0	10096.0	10401.0	10488.0	10583.0	
15. NOF %	91.3	90.4	97.5	92.3	87.7	92.6	
16. NPC (MW)	302.0	302.0	302.0	302.0	302.0	302.0	
19. ANOHR Equation	$10^6 / AKW * [ 457.20 - 54.35 * FEB - 64.08 * MAR + 52.17 * JUN - 50.16 * OCT ]$ + 8,761						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

CRIST 6	Jul '08	Aug '08	Sep '08	Oct '08	Nov '08	Dec '08	Total
1. EAF (%)	96.9	96.9	96.9	96.6	22.7	75.0	84.9
2. POF (%)	0.0	0.0	0.0	0.0	76.6	22.6	8.2
3. EUOF (%)	3.1	3.1	3.1	3.4	0.7	2.4	6.9
4. EUOR (%)	3.1	3.1	3.1	3.4	3.0	3.1	7.5
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	721.0	721.0	698.0	721.0	164.0	558.0	7467.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	23.0	23.0	22.0	23.0	557.0	186.0	1317.0
9. POH	0.0	0.0	0.0	0.0	552.0	168.0	720.0
10. FOH & EFOH	23.0	23.0	22.0	25.0	5.0	18.0	247.0
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	360.0
12. Oper MBtu	2132776.0	2146766.0	2039869.0	2037534.0	478372.0	1543453.0	21578266.0
13. Net Gen (MWH)	205806.8	207417.0	196405.6	199075.1	46046.0	147065.6	2081741.0
14. ANOHR (Btu/KWH)	10363.0	10350.0	10386.0	10235.0	10389.0	10495.0	10365.0
15. NOF %	94.5	95.3	93.2	91.4	93.0	87.3	92.3
16. NPC (MW)	302.0	302.0	302.0	302.0	302.0	302.0	302.0
19. ANOHR Equation	$10^6 / AKW * [457.20 - 54.35 * FEB - 64.08 * MAR + 52.17 * JUN - 50.16 * OCT]$ + 8,761						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

CRIST 7	Jan '08	Feb '08	Mar '08	Apr '08	May '08	Jun '08	
1. EAF (%)	69.8	64.8	94.1	94.0	94.4	94.3	
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3. EUOF (%)	30.2	35.2	5.9	6.0	5.6	5.7	
4. EUOR (%)	30.2	35.2	5.9	6.0	5.6	5.7	
5. PH	744.0	696.0	743.0	720.0	744.0	720.0	
6. SH	521.0	453.0	701.0	679.0	702.0	679.0	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	223.0	243.0	42.0	41.0	42.0	41.0	
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	
10. FOH & EFOH	33.0	29.0	44.0	43.0	42.0	41.0	
11. MOH & EMOH	192.0	216.0	0.0	0.0	0.0	0.0	
12. Oper MBtu	2445125.0	2049058.0	3479107.0	3293187.0	3249459.0	3324201.0	
13. Net Gen (MWH)	236221.1	203724.2	329648.2	313040.6	313351.9	315239.5	
14. ANOHR (Btu/KWH)	10351.0	10058.0	10554.0	10520.0	10370.0	10545.0	
15. NOF %	96.1	95.3	99.6	97.7	94.6	98.4	
16. NPC (MW)	472.0	472.0	472.0	472.0	472.0	472.0	
19. ANOHR Equation	$10^6 / AKW * [ 575.62 - 136.35 * FEB + 117.15 * MAR + 87.68 * APR + 104.03 * JUN ]$ + 9,081						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

CRIST 7	Jul '08	Aug '08	Sep '08	Oct '08	Nov '08	Dec '08	Total
1. EAF (%)	94.4	94.4	94.3	94.1	65.7	30.4	82.1
2. POF (%)	0.0	0.0	0.0	0.0	30.0	67.7	8.2
3. EUOF (%)	5.6	5.6	5.7	5.9	4.3	1.9	9.7
4. EUOR (%)	5.6	5.6	5.7	5.9	6.1	5.8	10.6
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	702.0	702.0	679.0	702.0	476.0	227.0	7223.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	42.0	42.0	41.0	42.0	245.0	517.0	1561.0
9. POH	0.0	0.0	0.0	0.0	216.0	504.0	720.0
10. FOH & EFOH	42.0	42.0	41.0	44.0	31.0	14.0	446.0
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	408.0
12. Oper MBtu	3378374.0	3389495.0	3260113.0	3338837.0	2280367.0	1056267.0	34543590.0
13. Net Gen (MWH)	327520.5	328758.0	315963.7	323186.2	220944.4	101926.8	3329525.1
14. ANOHR (Btu/KWH)	10315.0	10310.0	10318.0	10331.0	10321.0	10363.0	10375.0
15. NOF %	98.8	99.2	98.6	97.5	98.3	95.1	97.7
16. NPC (MW)	472.0	472.0	472.0	472.0	472.0	472.0	472.0
19. ANOHR Equation	$10^6 / AKW * [ 575.62 - 136.35 * FEB + 117.15 * MAR + 87.68 * APR + 104.03 * JUN ]$ + 9,081						

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## ESTIMATED UNIT PERFORMANCE DATA

## GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

	SMITH 1	Jan '08	Feb '08	Mar '08	Apr '08	May '08	Jun '08	
1.	EAF (%)	98.3	98.3	98.3	98.5	98.5	98.5	
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3.	EUOF (%)	1.7	1.7	1.7	1.5	1.5	1.5	
4.	EUOR (%)	1.7	1.7	1.7	1.5	1.5	1.5	
5.	PH	744.0	696.0	743.0	720.0	744.0	720.0	
6.	SH	733.0	686.0	732.0	709.0	733.0	709.0	
7.	RSR	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	11.0	10.0	11.0	11.0	11.0	11.0	
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	13.0	12.0	13.0	11.0	11.0	11.0	
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	1166149.0	1086585.0	1182191.0	1128996.0	1155029.0	1139934.0	
13.	Net Gen (MWH)	113970.8	106163.7	115651.6	110339.7	112806.8	110587.3	
14.	ANOHR (Btu/KWH)	10232.0	10235.0	10222.0	10232.0	10239.0	10308.0	
15.	NOF %	96.0	95.5	97.5	96.1	95.0	96.3	
16.	NPC (MW)	162.0	162.0	162.0	162.0	162.0	162.0	
19.	ANOHR Equation	10*6 / AKW * [ 96.28 + 12.10 * JUN + 11.27 * JUL - 11.78 * OCT ]						
		+ 9,613						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

SMITH 1	Jul '08	Aug '08	Sep '08	Oct '08	Nov '08	Dec '08	Total
1. EAF (%)	98.5	98.5	98.5	98.3	81.8	98.3	97.0
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	1.5	1.5	1.5	1.7	18.2	1.7	3.0
4. EUOR (%)	1.5	1.5	1.5	1.7	18.2	1.7	3.0
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	733.0	733.0	709.0	733.0	592.0	733.0	8535.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	11.0	11.0	11.0	11.0	129.0	11.0	249.0
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. FOH & EFOH	11.0	11.0	11.0	13.0	11.0	13.0	141.0
11. MOH & EMOH	0.0	0.0	0.0	0.0	120.0	0.0	120.0
12. Oper MBtu	1184648.0	1178507.0	1129984.0	1157937.0	936864.0	1139922.0	13586746.0
13. Net Gen (MWH)	115036.7	115257.4	110447.1	114015.1	91526.4	111244.5	1327047.1
14. ANOHR (Btu/KWH)	10298.0	10225.0	10231.0	10156.0	10236.0	10247.0	10238.0
15. NOF %	96.9	97.1	96.2	96.0	95.4	93.7	96.0
16. NPC (MW)	162.0	162.0	162.0	162.0	162.0	162.0	162.0
19. ANOHR Equation	$10^6 / AKW * [ 96.28 + 12.10 * JUN + 11.27 * JUL - 11.78 * OCT ]$ +9,613						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

	SMITH 2	Jan '08	Feb '08	Mar '08	Apr '08	May '08	Jun '08	
1.	EAF (%)	94.4	94.3	76.2	41.0	39.7	94.6	
2.	POF (%)	0.0	0.0	0.0	40.0	58.1	0.0	
3.	EUOF (%)	5.6	5.7	23.8	19.0	2.2	5.4	
4.	EUOR (%)	5.6	5.7	23.8	31.7	5.4	5.4	
5.	PH	744.0	696.0	743.0	720.0	744.0	720.0	
6.	SH	704.0	658.0	567.0	295.0	295.0	681.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	40.0	38.0	176.0	425.0	449.0	39.0	
9.	POH	0.0	0.0	0.0	288.0	432.0	0.0	
10.	FOH & EFOH	42.0	40.0	33.0	17.0	17.0	39.0	
11.	MOH & EMOH	0.0	0.0	144.0	120.0	0.0	0.0	
12.	Oper MBtu	1342570.0	1248395.0	1093826.0	547541.0	536270.0	1295303.0	
13.	Net Gen (MWH)	130005.8	120863.1	105970.4	52953.7	52313.9	125416.6	
14.	ANOHR (Btu/KWH)	10327.0	10329.0	10322.0	10340.0	10251.0	10328.0	
15.	NOF %	94.7	94.2	95.8	92.1	90.9	94.4	
16.	NPC (MW)	195.0	195.0	195.0	195.0	195.0	195.0	
19.	ANOHR Equation	$10^6 / AKW * [275.87 - 16.87 * MAY - 11.84 * JUL - 10.07 * SEP]$ $+ 7,294 + 0.00822 * LSRF / AKW$						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

SMITH 2	Jul '08	Aug '08	Sep '08	Oct '08	Nov '08	Dec '08	Total
1. EAF (%)	94.6	94.6	94.6	94.5	94.3	94.4	83.9
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	8.2
3. EUOF (%)	5.4	5.4	5.4	5.5	5.7	5.6	7.9
4. EUOR (%)	5.4	5.4	5.4	5.5	5.7	5.6	8.6
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	704.0	704.0	681.0	704.0	682.0	704.0	7379.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	40.0	40.0	39.0	40.0	39.0	40.0	1405.0
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	720.0
10. FOH & EFOH	40.0	40.0	39.0	41.0	41.0	42.0	431.0
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	264.0
12. Oper MBtu	1346352.0	1362032.0	1288589.0	1323817.0	1300662.0	1308959.0	13994316.0
13. Net Gen (MWH)	131236.2	131979.8	125434.5	128115.5	125947.7	126604.0	1356841.2
14. ANOHR (Btu/KWH)	10259.0	10320.0	10273.0	10333.0	10327.0	10339.0	10314.0
15. NOF %	95.6	95.1	94.5	93.3	94.7	92.2	94.3
16. NPC (MW)	195.0	195.0	195.0	195.0	195.0	195.0	195.0
19. ANOHR Equation	$10^6 / AKW * [ 275.87 - 16.87 * MAY - 11.84 * JUL - 10.07 * SEP ]$ $+ 7,294 + 0.00822 * LSRF / AKW$						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

	DANIEL 1	Jan '08	Feb '08	Mar '08	Apr '08	May '08	Jun '08	
1.	EAF (%)	98.3	98.0	98.4	98.3	98.4	98.3	
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3.	EUOF (%)	1.7	2.0	1.6	1.7	1.6	1.7	
4.	EUOR (%)	1.7	2.0	1.6	1.7	1.6	1.7	
5.	PH	744.0	696.0	743.0	720.0	744.0	720.0	
6.	SH	732.0	684.0	731.0	708.0	732.0	708.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	12.0	12.0	12.0	12.0	12.0	12.0	
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	13.0	14.0	12.0	12.0	12.0	12.0	
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	3584896.0	3352906.0	3678450.0	3463692.0	3429481.0	3421588.0	
13.	Net Gen (MWH)	354133.8	331249.4	364998.0	342093.0	336256.6	337268.4	
14.	ANOHR (Btu/KWH)	10123.0	10122.0	10078.0	10125.0	10199.0	10145.0	
15.	NOF %	96.2	96.3	99.3	96.1	91.3	94.7	
16.	NPC (MW)	503.0	503.0	503.0	503.0	503.0	503.0	
19.	ANOHR Equation	10 <sup>6</sup> /AKW * [695.23] +8,686						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

	DANIEL 1	Jul '08	Aug '08	Sep '08	Oct '08	Nov '08	Dec '08	Total
1.	EAF (%)	98.4	98.4	98.3	73.0	68.9	98.4	93.8
2.	POF (%)	0.0	0.0	0.0	0.0	30.0	0.0	2.5
3.	EUOF (%)	1.6	1.6	1.7	27.0	1.1	1.6	3.7
4.	EUOR (%)	1.6	1.6	1.7	27.0	1.6	1.6	3.9
5.	PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6.	SH	732.0	732.0	708.0	543.0	497.0	732.0	8239.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	12.0	12.0	12.0	201.0	224.0	12.0	545.0
9.	POH	0.0	0.0	0.0	0.0	216.0	0.0	216.0
10.	FOH & EFOH	12.0	12.0	12.0	9.0	8.0	12.0	140.0
11.	MOH & EMOH	0.0	0.0	0.0	192.0	0.0	0.0	192.0
12.	Oper MBtu	3603258.0	3632402.0	3464949.0	2543470.0	2435961.0	3521690.0	40132743.0
13.	Net Gen (MWH)	356264.4	359608.2	342251.0	249359.8	240660.0	346862.0	3961004.6
14.	ANOHR (Btu/KWH)	10114.0	10101.0	10124.0	10200.0	10122.0	10153.0	10132.0
15.	NOF %	96.8	97.7	96.1	91.3	96.3	94.2	95.6
16.	NPC (MW)	503.0	503.0	503.0	503.0	503.0	503.0	503.0
19.	ANOHR Equation	10 <sup>6</sup> / AKW * [695.23] + 8,686						

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## ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

DANIEL 2	Jan '08	Feb '08	Mar '08	Apr '08	May '08	Jun '08	
1. EAF (%)	97.0	96.8	53.2	96.9	97.0	96.9	
2. POF (%)	0.0	0.0	45.2	0.0	0.0	0.0	
3. EUOF (%)	3.0	3.2	1.6	3.1	3.0	3.1	
4. EUOR (%)	3.0	3.2	2.9	3.1	3.0	3.1	
5. PH	744.0	696.0	743.0	720.0	744.0	720.0	
6. SH	722.0	675.0	395.0	698.0	722.0	698.0	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	22.0	21.0	348.0	22.0	22.0	22.0	
9. POH	0.0	0.0	336.0	0.0	0.0	0.0	
10. FOH & EFOH	22.0	22.0	12.0	22.0	22.0	22.0	
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
12. Oper MBtu	3587007.0	3363870.0	1929304.0	3482911.0	3350943.0	3452098.0	
13. Net Gen (MWH)	356242.6	334181.4	196607.0	346041.8	339198.6	342708.0	
14. ANOHR (Btu/KWH)	10069.0	10066.0	9813.0	10065.0	9879.0	10073.0	
15. NOF %	96.7	97.1	97.6	97.2	92.1	96.3	
16. NPC (MW)	510.0	510.0	510.0	510.0	510.0	510.0	
19. ANOHR Equation	10*6 / AKW * [398.00 - 123.89 * MAR - 108.06 * MAY - 96.34 * SEP] + 9,262						

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GULF POWER COMPANY

PERIOD OF: January 2008 - December 2008

DANIEL 2	Jul '08	Aug '08	Sep '08	Oct '08	Nov '08	Dec '08	Total
1. EAF (%)	97.0	97.0	96.9	0.0	16.2	87.6	77.6
2. POF (%)	0.0	0.0	0.0	100.0	83.2	0.0	19.1
3. EUOF (%)	3.0	3.0	3.1	0.0	0.6	12.4	3.3
4. EUOR (%)	3.0	3.0	3.1	0.0	3.3	12.4	4.0
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	722.0	722.0	698.0	0.0	117.0	652.0	6821.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	22.0	22.0	22.0	744.0	604.0	92.0	1963.0
9. POH	0.0	0.0	0.0	744.0	600.0	0.0	1680.0
10. FOH & EFOH	22.0	22.0	22.0	0.0	4.0	20.0	212.0
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	72.0	72.0
12. Oper MBtu	3587238.0	3633296.0	3399000.0	0.0	540320.0	3178111.0	33504098.0
13. Net Gen (MWH)	356301.0	361270.4	344237.4	0.0	53307.0	315101.2	3345196.4
14. ANOHR (Btu/KWH)	10068.0	10057.0	9874.0	-	10136.0	10086.0	10016.0
15. NOF %	96.8	98.1	96.7	0.0	89.3	94.8	96.2
16. NPC (MW)	510.0	510.0	510.0	510.0	510.0	510.0	510.0
19. ANOHR Equation	$10^6 / AKW * [ 398.00 - 123.89 * MAR - 108.06 * MAY - 96.34 * SEP ]$ + 9,262						

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Planned Outage Schedules (Estimated)  
 Gulf Power Company  
 Period of: January 2008 - December 2008

Plant & Unit	Planned Outage Dates	Reason for Outage
Crist 4	01/05/08 - 03/16/08	General boiler maintenance and inspection and turbine overhaul.
Crist 5	02/15/08 - 03/15/08	Common stack and scrubber duct work.
Crist 6	11/08/07 - 12/07/08	General boiler maintenance and inspection and scrubber duct work.
Crist 7	11/22/08 - 12/21/08	General boiler maintenance and inspection and scrubber duct work.
Smith 2	04/19/08 - 05/18/08	General boiler maintenance and inspection and turbine valve work.
Daniel 1	11/08/08 - 11/16/08	Common stack, tunnel, and travelling water screen work.
Daniel 2	03/03/08 - 03/16/08	General boiler maintenance.
Daniel 2	10/01/08 - 11/25/08	Boiler overhaul, maintenance, and inspection.

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Notes Regarding Estimated Planned Outage Schedules

Gulf Power Company

Period of: January 2008 - December 2008

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 2008 - December 2008, the outages shown below are currently planned and could be rescheduled for the target period.

Plant & Unit	Planned Outage Dates	Reason for Outage
	None	

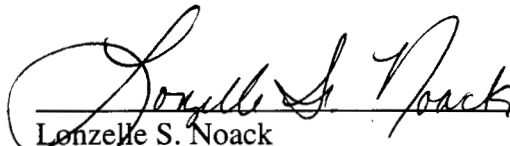
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Order No.:

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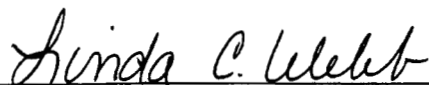
STATE OF FLORIDA     )  
                                  )  
COUNTY OF ESCAMBIA )

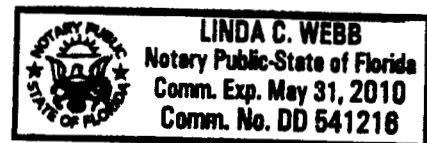
Docket No. 070001-EI

Before me, the undersigned authority, personally appeared Lonzelle S. Noack, who being first duly sworn, deposes, and says that she is the Power Generation Specialist, Senior for Gulf Power Company, a Florida corporation, and that the foregoing is true and correct to the best of her knowledge, information, and belief. She is personally known to me.

  
\_\_\_\_\_  
Lonzelle S. Noack  
Power Generation Specialist, Senior

Sworn to and subscribed before me this 29th day of August, 2007.

  
\_\_\_\_\_  
Notary Public, State of Florida at Large



Commission Number: DD 541216

Commission Expires: May 31, 2010