

GULF POWER COMPANY
TESTIMONY AND EXHIBITS OF
M. A. Young, III

GENERATING PERFORMANCE INCENTIVE FACTOR

TARGETS FOR

JANUARY 2012 - DECEMBER 2012

Before

THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 110001-EI

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FPSC-COMMISSION CLERK

1 **GULF POWER COMPANY**

2 **Before the Florida Public Service Commission**

3 **Direct Testimony of**

4 **M. A. Young, III**

5 **Docket No. 110001-EI**

6 **Date of Filing: September 1, 2011**

7

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

9 A. My name is Melvin A. Young, III. 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 Mechanical Engineering from the
15 University of Alabama in Birmingham in 1984. I joined the Southern Company
16 with Alabama Power in 1981 as a co-op student and continued with Alabama
17 Power upon graduation in 1984. During my time at Alabama Power, I worked at
18 Plant Gorgas, Plant Gadsden and in Power Generation Services where I progressed
19 through various engineering positions with increasing responsibilities as well as
20 first line supervision in Operations and Maintenance. I joined Gulf Power in 1997
21 as the Performance Engineer at Plant Crist. In this capacity, my primary
22 responsibilities were to monitor and test plant equipment and monitor overall plant
23 heat rate. In addition to this, I was responsible for major plant projects and was the
24 primary reliability reporter. As previously mentioned in my testimony, my current
25 job position is Power Generation Specialist, Senior at Gulf Power Company.

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1 In this position I am responsible for preparing all Generating Performance
2 Incentive Factor (GPIF) filings as well as other generating plant reliability and heat
3 rate performance reporting for Gulf Power Company.

4

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

6 A. The purpose of my testimony is to present GPIF targets for Gulf Power Company for the
7 period of January 1, 2012 through December 31, 2012.

8

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

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

12

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

14 A. Yes, it was.

15

16 Counsel: We ask that Mr. Young's exhibit consisting of three schedules be
17 marked for identification as Exhibit____(MAY-2).

18

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

20 A. We propose that Crist Units 4, 5, 6, and 7, Smith Units 1 and 2, and Daniel Units 1
21 and 2, continue to be the Company's GPIF units. The projected net generation
22 from these units, which represent all of Gulf's qualifying base load units for GPIF,
23 is approximately 71% of Gulf's projected net generation for 2012.

24

25

1 Q. For these units, what are the target heat rates Gulf proposes to use in the GPIF for
2 these units for the performance period January 1, 2012 through December 31,
3 2012?

4 A. I would like to refer you to page 39 of Schedule 1 of my exhibit where these
5 targets are listed.

6

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

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

10

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

12 A. Page 2 of Schedule 1 of my exhibit shows the target average net operating heat rate
13 equations for the proposed GPIF units and pages 4 through 35 of Schedule 1
14 contain the weekly historical data used for the statistical development of these
15 equations. Pages 36 through 38 of Schedule 1 present the calculations that provide
16 the unit target heat rates from the target equations.

17

18 Q. Were the maximum and minimum attainable heat rates for each proposed GPIF
19 unit indicated on page 39 of Schedule 1 of your exhibit calculated according to
20 the appropriate GPIF Implementation Manual procedures?

21 A. Yes.

22

23

24

25

1 Q. What are the proposed target, maximum, and minimum equivalent availabilities
2 for 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. Mr. Young, 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

24

25

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

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

3

4 1. Crist Units 4, 5, 6 and 7, Smith Units 1 and 2, and Daniel Units 1 and 2 for
5 inclusion under the GPIF for the period of January 1, 2012 through
6 December 31, 2012.

7

8 2. The target, maximum attainable, and minimum attainable average net
9 operating heat rates, as proposed by the Company and as shown on page
10 39 of Schedule 1 and also on page 5 of Schedule 3 of my exhibit.

11

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

15

16 4. The weekly average net operating heat rate least squares regression
17 equations, shown on page 2 of Schedule 1 and also on pages 20 through
18 35 of Schedule 3 of my exhibit, for use in adjusting the annual actual unit
19 heat rates to target conditions.

20

21 Q. Mr. Young, does this conclude your testimony?

22 A. Yes.

23

24

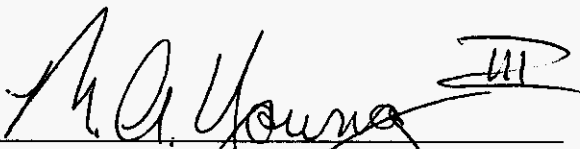
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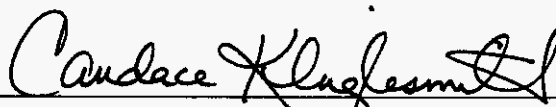
Docket No. 110001-EI

Before me, the undersigned authority, personally appeared Melvin A. Young, III, who being first duly sworn, deposes, and says that he 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 his knowledge, information, and belief. He is personally known to me.

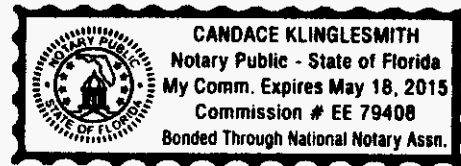


Melvin A. Young, III
Power Generation Specialist, Senior

Sworn to and subscribed before me this 24th day of August, 2011.



Notary Public, State of Florida at Large



Commission Number: *EE 79408*

Commission Expires: *5-18-2015*

EXHIBIT TO THE TESTIMONY OF

M. A. YOUNG, III

IN FPSC DOCKET 110001-EI

I. DETERMINATION OF HEAT RATE TARGETS

Target Heat Rate Equations

Crist 4 ANOHR = $10^6 / AKW * [147.87 + 27.22 * JUL - 19.30 * NOV]$
 + 8,647

Crist 5 ANOHR = $10^6 / AKW * [332.39 - 15.75 * APR + 18.08 * JUL + 20.39 * AUG + 23.68 * SEP]$
 + 1,068 + 0.06941 * LSRF / AKW

Crist 6 ANOHR = $10^6 / AKW * [803.77 + 53.22 * AUG + 61.67 * SEP + 128.86 * OCT - 57.18 * NOV]$
 + 3,660 + 0.01561 * LSRF / AKW

Crist 7 ANOHR = $10^6 / AKW * [1509.41 - 103.64 * JAN - 97.39 * FEB + 123.28 * APR + 64.40 * SEP - 94.54 * OCT - 86.63 * NOV]$
 + 2,982 + 0.00932 * LSRF / AKW

Smith 1 ANOHR = $10^6 / AKW * [128.19 + 10.27 * JUL]$
 + 9,465

Smith 2 ANOHR = $10^6 / AKW * [320.27 + 28.73 * JAN - 24.84 * MAY - 26.36 * OCT - 15.30 * NOV]$
 + 5,898 + 0.01509 * LSRF / AKW

Daniel 1 ANOHR = $10^6 / AKW * [521.83 + 65.51 * JAN + 59.16 * JUL]$
 + 8,889

Daniel 2 ANOHR = $10^6 / AKW * [24.52 - 110.71 * JAN - 49.24 * JUL - 56.45 * SEP - 73.43 * OCT]$
 + 11,929 - 0.00393 * LSRF / AKW

Where:

- ANOHR = Average Net Operating Heat Rate, BTU/KWH
- AKW = Average Kilowatt Load, KW
- LSRF = Load Square Range Factor, KW²
- BTU/LB = Coal Burned Average Heat Content, BTU/LB
- JAN = January, 0 if not January, 1 if January
- FEB = February, 0 if not February, 1 if February
- MAR = March, 0 if not March, 1 if March
- APR = April, 0 if not April, 1 if April
- MAY = May, 0 if not May, 1 if May
- JUN = June, 0 if not June, 1 if June
- JUL = July, 0 if not July, 1 if July
- AUG = August, 0 if not August, 1 if August
- SEP = September, 0 if not September, 1 if September
- OCT = October, 0 if not October, 1 if October
- NOV = November, 0 if not November, 1 if November

WEEKLY UNIT OPERATING
DATA USED TO DEVELOP
TARGET HEAT RATE EQUATIONS

Data Base for CRIST 4 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10188	168	67.1	4547	0	0	0	0	0	0	0	0	0	0	0	0	2009
12132	168	61.9	3885	0	0	0	0	0	0	0	0	0	0	0	0	2009
11159	24	70.7	5005	0	0	0	0	0	0	0	0	0	0	0	0	2009
11025	168	69.6	4897	1	0	0	0	0	0	0	0	0	0	0	0	2010
11265	168	70.9	5095	1	0	0	0	0	0	0	0	0	0	0	0	2010
11366	168	54.6	3151	1	0	0	0	0	0	0	0	0	0	0	0	2010
11097	168	58.9	3567	1	0	0	0	0	0	0	0	0	0	0	0	2010
11214	145	54.4	3058	0	1	0	0	0	0	0	0	0	0	0	0	2010
12658	53	50.3	2615	0	1	0	0	0	0	0	0	0	0	0	1	2010
11267	168	60.0	3702	0	1	0	0	0	0	0	0	0	0	0	0	2010
11731	168	55.7	3250	0	1	0	0	0	0	0	0	0	0	0	0	2010
11906	168	51.5	2720	0	0	1	0	0	0	0	0	0	0	0	0	2010
11340	120	51.9	2755	0	0	1	0	0	0	0	0	0	0	0	0	2010
11087	148	50.6	2743	0	0	0	1	0	0	0	0	0	0	0	1	2010
13766	142	53.1	3090	0	0	0	0	0	1	0	0	0	0	0	1	2010
*12518	168	61.3	3944	0	0	0	0	0	1	0	0	0	0	0	0	2010
*12653	144	60.1	3812	0	0	0	0	0	1	0	0	0	0	0	0	2010
*11971	168	45.1	2179	0	0	0	0	0	0	1	0	0	0	0	0	2010
11576	168	61.6	3972	0	0	0	0	0	0	1	0	0	0	0	0	2010
11498	168	58.7	3631	0	0	0	0	0	0	1	0	0	0	0	0	2010
11512	168	59.6	3738	0	0	0	0	0	0	1	0	0	0	0	0	2010
11667	168	60.1	3814	0	0	0	0	0	0	0	1	0	0	0	0	2010
11625	168	59.0	3709	0	0	0	0	0	0	0	1	0	0	0	0	2010
11272	168	59.7	3777	0	0	0	0	0	0	0	1	0	0	0	0	2010
11559	168	60.9	3813	0	0	0	0	0	0	0	1	0	0	0	0	2010
11959	168	53.8	2979	0	0	0	0	0	0	0	1	0	0	0	0	2010
11410	167	59.0	3615	0	0	0	0	0	0	0	0	1	0	0	0	2010
11913	168	61.0	3944	0	0	0	0	0	0	0	0	1	0	0	0	2010
11840	168	59.4	3765	0	0	0	0	0	0	0	0	1	0	0	0	2010
*13076	72	48.1	2489	0	0	0	0	0	0	0	0	1	0	0	0	2010
11963	40	54.0	3148	0	0	0	0	0	0	0	0	0	1	0	1	2010
*10399	57	51.8	2948	0	0	0	0	0	0	0	0	0	1	0	0	2010
*12285	104	55.4	3233	0	0	1	0	0	0	0	0	0	0	0	1	2011
10958	167	62.0	3935	0	0	1	0	0	0	0	0	0	0	0	0	2011
11426	84	57.1	3448	0	0	1	0	0	0	0	0	0	0	0	0	2011
11975	92	50.2	2698	0	0	0	0	1	0	0	0	0	0	0	1	2011
11952	59	38.4	1502	0	0	0	0	1	0	0	0	0	0	0	0	2011
11903	131	55.6	3342	0	0	0	0	1	0	0	0	0	0	0	1	2011
11500	168	51.6	2849	0	0	0	0	0	1	0	0	0	0	0	0	2011
11937	124	48.8	2602	0	0	0	0	0	1	0	0	0	0	0	1	2011
11802	168	50.0	2693	0	0	0	0	0	1	0	0	0	0	0	0	2011
11701	144	51.3	2856	0	0	0	0	0	1	0	0	0	0	0	0	2011

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 shut down 24 hours or more, in BTU/Kwh.

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

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

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

NS Number of 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
10290	168	62.1	4051	0	0	0	0	0	0	1	0	0	0	0	0	2008
10241	168	64.6	4293	0	0	0	0	0	0	1	0	0	0	0	0	2008
11383	168	72.6	5313	0	0	0	0	0	0	1	0	0	0	0	0	2008
11291	168	69.9	4974	0	0	0	0	0	0	1	0	0	0	0	0	2008
11629	168	67.6	4676	0	0	0	0	0	0	0	1	0	0	0	0	2008
11501	168	66.0	4462	0	0	0	0	0	0	0	1	0	0	0	0	2008
11430	168	60.3	3856	0	0	0	0	0	0	0	1	0	0	0	0	2008
11340	168	63.9	4236	0	0	0	0	0	0	0	1	0	0	0	0	2008
11204	168	66.9	4596	0	0	0	0	0	0	0	1	0	0	0	0	2008
11058	168	66.4	4452	0	0	0	0	0	0	0	0	1	0	0	0	2008
10481	168	69.9	4956	0	0	0	0	0	0	0	0	1	0	0	0	2008
10916	168	62.9	4116	0	0	0	0	0	0	0	0	1	0	0	0	2008
10705	168	63.5	4194	0	0	0	0	0	0	0	0	1	0	0	0	2008
10788	168	63.2	4168	0	0	0	0	0	0	0	0	0	1	0	0	2008
10473	168	56.8	3430	0	0	0	0	0	0	0	0	0	1	0	0	2008
10782	168	52.8	2939	0	0	0	0	0	0	0	0	0	1	0	0	2008
* 9991	168	59.1	3643	0	0	0	0	0	0	0	0	0	1	0	0	2008
10161	169	64.6	4325	0	0	0	0	0	0	0	0	0	1	0	0	2008
10744	167	57.7	3516	0	0	0	0	0	0	0	0	0	0	1	0	2008
10422	168	62.5	4065	0	0	0	0	0	0	0	0	0	0	1	0	2008
10408	168	61.1	3841	0	0	0	0	0	0	0	0	0	0	1	0	2008
10450	168	62.7	4061	0	0	0	0	0	0	0	0	0	0	1	0	2008
10243	168	64.5	4237	0	0	0	0	0	0	0	0	0	0	0	0	2008
10144	168	63.8	4122	0	0	0	0	0	0	0	0	0	0	0	0	2008
10324	168	69.0	4859	0	0	0	0	0	0	0	0	0	0	0	0	2008
10799	168	55.3	3145	0	0	0	0	0	0	0	0	0	0	0	0	2008
10666	24	62.6	4032	0	0	0	0	0	0	0	0	0	0	0	0	2008
10552	134	46.3	2202	1	0	0	0	0	0	0	0	0	0	0	0	2009
11775	16	51.6	2978	1	0	0	0	0	0	0	0	0	0	0	1	2009
*10194	122	54.2	3130	1	0	0	0	0	0	0	0	0	0	0	1	2009
10377	168	66.5	4603	0	1	0	0	0	0	0	0	0	0	0	0	2009
10585	168	53.9	3067	0	1	0	0	0	0	0	0	0	0	0	0	2009
10513	168	55.1	3203	0	1	0	0	0	0	0	0	0	0	0	0	2009
10559	168	58.8	3604	0	1	0	0	0	0	0	0	0	0	0	0	2009
11365	164	54.4	3167	0	0	1	0	0	0	0	0	0	0	0	0	2009
11582	167	56.6	3446	0	0	1	0	0	0	0	0	0	0	0	0	2009
11429	168	58.1	3533	0	0	1	0	0	0	0	0	0	0	0	0	2009
11259	168	62.6	4100	0	0	1	0	0	0	0	0	0	0	0	0	2009
10986	168	58.0	3460	0	0	1	0	0	0	0	0	0	0	0	0	2009
10358	164	54.8	3049	0	0	0	1	0	0	0	0	0	0	0	0	2009
11199	105	51.9	2798	0	0	0	1	0	0	0	0	0	0	0	0	2009
*10013	167	60.0	3886	0	0	0	1	0	0	0	0	0	0	0	1	2009
10885	168	62.7	4178	0	0	0	0	1	0	0	0	0	0	0	0	2009
10785	168	61.7	4051	0	0	0	0	1	0	0	0	0	0	0	0	2009
11648	49	54.1	3206	0	0	0	0	1	0	0	0	0	0	0	0	2009
11384	111	55.3	3338	0	0	0	0	1	0	0	0	0	0	0	1	2009
10966	168	47.9	2394	0	0	0	0	0	1	0	0	0	0	0	0	2009

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
11324	168	40.8	1690	0	0	0	0	1	0	0	0	0	0	0	0	2011
11277	168	47.3	2367	0	0	0	0	1	0	0	0	0	0	0	0	2011
11277	168	54.5	3198	0	0	0	0	1	0	0	0	0	0	0	0	2011
11672	168	54.6	3213	0	0	0	0	0	1	0	0	0	0	0	0	2011
11844	168	54.3	3197	0	0	0	0	0	1	0	0	0	0	0	0	2011
11439	168	50.4	2702	0	0	0	0	0	1	0	0	0	0	0	0	2011
11532	144	48.3	2480	0	0	0	0	0	1	0	0	0	0	0	0	2011

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 shut down 24 hours or more, in BTU/Kwh.

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

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

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

NS Number of 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
10752	168	200.1	43306	0	0	0	0	0	0	1	0	0	0	0	0	2008
10638	168	210.7	46234	0	0	0	0	0	0	1	0	0	0	0	0	2008
10688	141	269.7	9802	0	0	0	0	0	0	1	0	0	0	0	1	2008
10776	168	270.5	9048	0	0	0	0	0	0	1	0	0	0	0	0	2008
10944	166	251.6	472	0	0	0	0	0	0	0	1	0	0	0	0	2008
11339	121	229.8	56562	0	0	0	0	0	0	0	1	0	0	0	1	2008
11468	137	212.6	48886	0	0	0	0	0	0	0	1	0	0	0	1	2008
11255	168	232.9	57015	0	0	0	0	0	0	0	1	0	0	0	0	2008
11834	117	220.3	53116	0	0	0	0	0	0	0	1	0	0	0	2	2008
11372	121	248.5	64779	0	0	0	0	0	0	0	0	1	0	0	1	2008
11237	162	267.8	8512	0	0	0	0	0	0	0	0	1	0	0	1	2008
11126	146	243.6	62664	0	0	0	0	0	0	0	0	1	0	0	0	2008
11066	168	225.5	53903	0	0	0	0	0	0	0	0	1	0	0	0	2008
11682	168	221.5	51943	0	0	0	0	0	0	0	0	0	1	0	0	2008
11955	23	215.9	49107	0	0	0	0	0	0	0	0	0	1	0	0	2008
11027	48	172.7	34846	0	0	0	0	0	0	0	0	0	0	1	1	2008
10509	168	228.4	54463	0	0	0	0	0	0	0	0	0	0	1	0	2008
10524	141	209.4	46421	0	0	0	0	0	0	0	0	0	0	1	1	2008
10510	168	238.6	58541	0	0	0	0	0	0	0	0	0	0	0	0	2008
10670	92	217.1	49750	0	0	0	0	0	0	0	0	0	0	0	0	2008
13456	86	107.4	12785	0	1	0	0	0	0	0	0	0	0	0	1	2009
11285	88	152.9	25216	0	1	0	0	0	0	0	0	0	0	0	1	2009
10460	168	194.4	39423	0	1	0	0	0	0	0	0	0	0	0	0	2009
10815	168	211.1	45704	0	0	1	0	0	0	0	0	0	0	0	0	2009
11126	167	207.7	44417	0	0	1	0	0	0	0	0	0	0	0	0	2009
11274	168	200.6	44460	0	0	1	0	0	0	0	0	0	0	0	0	2009
10566	22	224.0	54083	0	0	1	0	0	0	0	0	0	0	0	0	2009
11987	61	165.7	29378	0	0	1	0	0	0	0	0	0	0	0	1	2009
11376	168	166.4	28807	0	0	0	1	0	0	0	0	0	0	0	0	2009
11643	168	158.3	26085	0	0	0	1	0	0	0	0	0	0	0	0	2009
11454	168	173.6	31461	0	0	0	1	0	0	0	0	0	0	0	0	2009
11294	126	177.0	33978	0	0	0	1	0	0	0	0	0	0	0	1	2009
11188	168	198.9	43043	0	0	0	0	1	0	0	0	0	0	0	0	2009
11112	168	202.4	44791	0	0	0	0	1	0	0	0	0	0	0	0	2009
11158	167	197.7	43983	0	0	0	0	1	0	0	0	0	0	0	0	2009
11061	168	203.1	44680	0	0	0	0	1	0	0	0	0	0	0	0	2009
11239	68	178.0	35515	0	0	0	0	1	0	0	0	0	0	0	0	2009
11989	63	173.2	35696	0	0	0	0	0	1	0	0	0	0	0	1	2009
10620	144	205.1	46064	0	0	0	0	0	1	0	0	0	0	0	0	2009
11001	144	188.8	38477	0	0	0	0	0	0	1	0	0	0	0	0	2009
11249	144	174.7	33573	0	0	0	0	0	0	1	0	0	0	0	1	2009
10773	168	218.4	51028	0	0	0	0	0	0	1	0	0	0	0	0	2009
11310	168	179.1	34542	0	0	0	0	0	0	0	1	0	0	0	0	2009
11642	168	164.9	29057	0	0	0	0	0	0	0	1	0	0	0	0	2009
11916	168	149.2	22862	0	0	0	0	0	0	0	1	0	0	0	0	2009
12035	139	144.9	21641	0	0	0	0	0	0	0	1	0	0	0	0	2009
11983	131	175.0	32844	0	0	0	0	0	0	0	0	0	1	0	1	2009

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
11776	169	157.4	25978	0	0	0	0	0	0	0	0	0	1	0	0	2009
11184	168	172.2	31141	0	0	0	0	0	0	0	0	0	0	1	0	2009
11852	168	136.3	18844	0	0	0	0	0	0	0	0	0	0	1	0	2009
*16776	64	127.6	16685	0	0	0	0	0	0	0	0	0	0	1	1	2009
11617	168	140.8	20408	0	0	0	0	0	0	0	0	0	0	1	0	2009
10836	168	192.9	40818	0	0	0	0	0	0	0	0	0	0	0	0	2009
10911	168	201.6	43641	0	0	0	0	0	0	0	0	0	0	0	0	2009
10579	168	224.9	53828	0	0	0	0	0	0	0	0	0	0	0	0	2009
10705	163	179.0	34014	0	0	0	0	0	0	0	0	0	0	0	0	2009
11060	24	226.4	53676	0	0	0	0	0	0	0	0	0	0	0	0	2009
10682	168	250.9	931	1	0	0	0	0	0	0	0	0	0	0	0	2010
10724	168	251.9	1303	1	0	0	0	0	0	0	0	0	0	0	0	2010
11322	168	160.1	28109	1	0	0	0	0	0	0	0	0	0	0	0	2010
11195	168	180.1	35985	1	0	0	0	0	0	0	0	0	0	0	0	2010
11177	158	165.8	30871	0	1	0	0	0	0	0	0	0	0	0	0	2010
12195	72	149.8	25483	0	1	0	0	0	0	0	0	0	0	0	1	2010
11088	168	219.3	51081	0	1	0	0	0	0	0	0	0	0	0	0	2010
11187	168	196.9	42955	0	1	0	0	0	0	0	0	0	0	0	0	2010
11547	168	170.9	33460	0	0	1	0	0	0	0	0	0	0	0	0	2010
11125	118	177.3	36018	0	0	1	0	0	0	0	0	0	0	0	0	2010
11613	135	155.6	27303	0	0	0	1	0	0	0	0	0	0	0	1	2010
11736	125	148.9	25450	0	0	0	1	0	0	0	0	0	0	0	1	2010
11968	168	133.3	18245	0	0	0	0	1	0	0	0	0	0	0	0	2010
11520	168	183.2	38438	0	0	0	0	1	0	0	0	0	0	0	0	2010
11350	168	219.4	52660	0	0	0	0	1	0	0	0	0	0	0	0	2010
11698	136	205.8	48181	0	0	0	0	1	0	0	0	0	0	0	1	2010
11528	134	220.7	53434	0	0	0	0	1	0	0	0	0	0	0	1	2010
11490	162	218.3	53240	0	0	0	0	0	1	0	0	0	0	0	0	2010
11462	138	223.2	54903	0	0	0	0	0	1	0	0	0	0	0	1	2010
11369	124	222.5	55126	0	0	0	0	0	1	0	0	0	0	0	1	2010
11267	109	222.7	54699	0	0	0	0	0	1	0	0	0	0	0	1	2010
11806	168	224.6	55565	0	0	0	0	0	0	1	0	0	0	0	0	2010
11800	140	234.3	59235	0	0	0	0	0	0	1	0	0	0	0	1	2010
11601	168	222.7	53860	0	0	0	0	0	0	1	0	0	0	0	0	2010
11836	168	219.5	52860	0	0	0	0	0	0	1	0	0	0	0	0	2010
11519	168	216.4	51070	0	0	0	0	0	0	0	1	0	0	0	0	2010
11182	168	207.8	47792	0	0	0	0	0	0	0	1	0	0	0	0	2010
11293	168	217.4	51935	0	0	0	0	0	0	0	1	0	0	0	0	2010
11232	168	215.2	50971	0	0	0	0	0	0	0	1	0	0	0	0	2010
11325	168	207.3	47212	0	0	0	0	0	0	0	1	0	0	0	0	2010
11632	167	203.2	46045	0	0	0	0	0	0	0	0	1	0	0	0	2010
11671	157	215.1	50939	0	0	0	0	0	0	0	0	1	0	0	0	2010
11562	145	220.9	53687	0	0	0	0	0	0	0	0	1	0	0	1	2010
11282	82	188.1	38937	0	0	0	0	0	0	0	0	1	0	0	0	2010
13337	94	120.7	15518	0	0	0	0	0	0	0	0	0	1	0	1	2010
13176	13	124.3	15694	0	0	0	0	0	0	0	0	0	1	0	0	2010
14892	10	115.0	14008	0	0	0	0	0	0	0	0	0	0	1	1	2010

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
12196	44	131.5	18870	0	0	0	0	0	0	0	0	0	0	1	0	2010
12027	89	192.0	43073	0	0	0	0	0	0	0	0	0	0	0	1	2010
11003	168	220.6	51784	0	0	0	0	0	0	0	0	0	0	0	0	2010
11148	133	231.6	57024	0	0	0	0	0	0	0	0	0	0	0	1	2010
11205	168	246.7	63884	0	0	0	0	0	0	0	0	0	0	0	0	2010
11182	24	250.6	126	0	0	0	0	0	0	0	0	0	0	0	0	2010
11096	168	216.7	49875	1	0	0	0	0	0	0	0	0	0	0	0	2011
10848	168	241.6	60463	1	0	0	0	0	0	0	0	0	0	0	0	2011
10737	168	245.4	62274	1	0	0	0	0	0	0	0	0	0	0	0	2011
10994	168	194.8	38897	1	0	0	0	0	0	0	0	0	0	0	0	2011
11281	168	178.8	32744	0	1	0	0	0	0	0	0	0	0	0	0	2011
10999	156	187.1	36227	0	1	0	0	0	0	0	0	0	0	0	0	2011
12995	55	123.3	16488	0	0	0	0	1	0	0	0	0	0	0	1	2011
11186	165	176.0	35869	0	0	0	0	1	0	0	0	0	0	0	1	2011
11893	64	154.2	27626	0	0	0	0	1	0	0	0	0	0	0	2	2011
11038	168	187.0	38870	0	0	0	0	0	1	0	0	0	0	0	0	2011
11096	164	196.8	44753	0	0	0	0	0	1	0	0	0	0	0	0	2011
11288	119	191.7	42793	0	0	0	0	0	1	0	0	0	0	0	1	2011
11808	144	148.2	24295	0	0	0	0	0	1	0	0	0	0	0	0	2011

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 shut down 24 hours or more, in BTU/Kwh.

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

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

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

NS Number of 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
10363	168	357.1	3143	0	0	0	0	0	0	1	0	0	0	0	0	2008
10600	136	340.6	55427	0	0	0	0	0	0	1	0	0	0	0	1	2008
10606	168	439.2	64038	0	0	0	0	0	0	1	0	0	0	0	0	2008
10905	142	407.9	42403	0	0	0	0	0	0	1	0	0	0	0	1	2008
10865	168	403.0	38452	0	0	0	0	0	0	0	1	0	0	0	0	2008
10744	168	395.7	30152	0	0	0	0	0	0	0	1	0	0	0	0	2008
11006	158	334.8	56350	0	0	0	0	0	0	0	1	0	0	0	0	2008
10955	144	371.6	12934	0	0	0	0	0	0	0	1	0	0	0	1	2008
10849	168	402.6	36339	0	0	0	0	0	0	0	1	0	0	0	0	2008
10781	168	415.2	44357	0	0	0	0	0	0	0	0	1	0	0	0	2008
10872	140	419.5	51299	0	0	0	0	0	0	0	0	1	0	0	1	2008
10784	97	362.8	8311	0	0	0	0	0	0	0	0	1	0	0	1	2008
10591	168	391.1	28612	0	0	0	0	0	0	0	0	1	0	0	0	2008
10315	168	381.4	20916	0	0	0	0	0	0	0	0	0	1	0	0	2008
10066	168	328.8	49066	0	0	0	0	0	0	0	0	0	1	0	0	2008
10387	168	316.9	40720	0	0	0	0	0	0	0	0	0	1	0	0	2008
10225	168	348.0	62106	0	0	0	0	0	0	0	0	0	1	0	0	2008
10119	169	375.1	15962	0	0	0	0	0	0	0	0	0	1	0	0	2008
10557	168	304.9	30107	0	0	0	0	0	0	0	0	0	0	1	0	2008
10482	142	341.7	56255	0	0	0	0	0	0	0	0	0	0	1	0	2008
10487	133	347.2	62197	0	0	0	0	0	0	0	0	0	0	1	1	2008
10324	161	335.7	51826	0	0	0	0	0	0	0	0	0	0	1	0	2008
10986	139	354.3	559	0	0	0	0	0	0	0	0	0	0	0	1	2008
11121	106	373.2	14558	0	0	0	0	0	0	0	0	0	0	0	0	2008
11580	44	328.7	58436	0	0	0	0	0	0	0	0	0	0	0	1	2008
11205	168	322.6	42299	0	0	0	0	0	0	0	0	0	0	0	0	2008
10829	24	377.4	13622	0	0	0	0	0	0	0	0	0	0	0	0	2008
10397	168	384.6	23969	1	0	0	0	0	0	0	0	0	0	0	0	2009
10277	168	379.7	18680	1	0	0	0	0	0	0	0	0	0	0	0	2009
10169	168	388.1	25511	1	0	0	0	0	0	0	0	0	0	0	0	2009
10284	98	320.1	44872	1	0	0	0	0	0	0	0	0	0	0	0	2009
12370	113	242.9	62603	0	0	1	0	0	0	0	0	0	0	0	2	2009
11063	168	352.1	63213	0	0	1	0	0	0	0	0	0	0	0	0	2009
11177	121	329.7	48381	0	0	1	0	0	0	0	0	0	0	0	0	2009
11558	72	362.1	8116	0	0	0	1	0	0	0	0	0	0	0	0	2009
10929	168	360.1	4640	0	0	0	1	0	0	0	0	0	0	0	0	2009
11578	98	289.2	25802	0	0	0	1	0	0	0	0	0	0	0	1	2009
11107	137	325.3	45506	0	0	0	0	1	0	0	0	0	0	0	1	2009
10872	168	358.5	5029	0	0	0	0	1	0	0	0	0	0	0	0	2009
10692	168	394.6	31497	0	0	0	0	1	0	0	0	0	0	0	0	2009
10785	168	405.9	38027	0	0	0	0	1	0	0	0	0	0	0	0	2009
11044	168	325.0	47718	0	0	0	0	1	0	0	0	0	0	0	0	2009
11176	168	293.2	23821	0	0	0	0	0	1	0	0	0	0	0	0	2009
11198	168	312.4	38746	0	0	0	0	0	1	0	0	0	0	0	0	2009
11015	168	395.2	30279	0	0	0	0	0	1	0	0	0	0	0	0	2009
11072	144	355.2	1616	0	0	0	0	0	1	0	0	0	0	0	0	2009
11011	168	382.6	19558	0	0	0	0	0	0	1	0	0	0	0	0	2009

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
10507	163	397.6	31765	0	0	0	0	0	0	1	0	0	0	0	0	2009
11902	38	271.3	14043	0	0	0	0	0	0	1	0	0	0	0	1	2009
10766	168	370.1	10152	0	0	0	0	0	0	1	0	0	0	0	0	2009
11123	168	335.9	51494	0	0	0	0	0	0	0	1	0	0	0	0	2009
11156	168	329.3	47428	0	0	0	0	0	0	0	1	0	0	0	0	2009
11048	167	293.0	22390	0	0	0	0	0	0	0	1	0	0	0	0	2009
11920	135	248.3	1860	0	0	0	0	0	0	0	1	0	0	0	0	2009
11336	168	277.8	13491	0	0	0	0	0	0	0	1	0	0	0	0	2009
11427	168	273.1	10279	0	0	0	0	0	0	0	0	1	0	0	0	2009
11033	168	300.7	28238	0	0	0	0	0	0	0	0	1	0	0	0	2009
11164	168	312.9	36398	0	0	0	0	0	0	0	0	1	0	0	0	2009
10853	168	314.0	37185	0	0	0	0	0	0	0	0	1	0	0	0	2009
11801	41	305.6	32485	0	0	0	0	0	0	0	0	0	1	0	0	2009
*16762	53	107.8	14985	0	0	0	0	0	0	0	0	0	0	0	2	2009
10700	78	371.5	25119	0	0	0	0	0	0	0	0	0	0	0	0	2009
11148	138	379.2	25995	0	0	0	0	0	0	0	0	0	0	0	1	2009
10861	165	358.4	6905	0	0	0	0	0	0	0	0	0	0	0	0	2009
10356	24	394.0	27815	0	0	0	0	0	0	0	0	0	0	0	0	2009
10657	168	430.9	58914	1	0	0	0	0	0	0	0	0	0	0	0	2010
10795	134	408.4	49527	1	0	0	0	0	0	0	0	0	0	0	1	2010
12155	166	198.4	40339	1	0	0	0	0	0	0	0	0	0	0	0	2010
10136	168	394.3	31307	1	0	0	0	0	0	0	0	0	0	0	0	2010
10006	168	349.4	64020	0	1	0	0	0	0	0	0	0	0	0	0	2010
10137	168	351.4	64208	0	1	0	0	0	0	0	0	0	0	0	0	2010
10434	168	401.0	36771	0	1	0	0	0	0	0	0	0	0	0	0	2010
10255	168	354.5	1331	0	1	0	0	0	0	0	0	0	0	0	0	2010
10339	168	330.6	50205	0	0	1	0	0	0	0	0	0	0	0	0	2010
10468	168	308.4	35039	0	0	1	0	0	0	0	0	0	0	0	0	2010
10638	167	305.4	33465	0	0	1	0	0	0	0	0	0	0	0	0	2010
10758	168	292.4	25355	0	0	1	0	0	0	0	0	0	0	0	0	2010
10704	168	272.4	9874	0	0	1	0	0	0	0	0	0	0	0	0	2010
11184	70	266.0	11971	0	0	0	1	0	0	0	0	0	0	0	1	2010
10393	168	311.8	37343	0	0	0	1	0	0	0	0	0	0	0	0	2010
10508	168	306.9	32798	0	0	0	1	0	0	0	0	0	0	0	0	2010
10705	168	306.9	34996	0	0	0	1	0	0	0	0	0	0	0	0	2010
10631	168	298.9	27143	0	0	0	0	1	0	0	0	0	0	0	0	2010
10391	168	347.3	63736	0	0	0	0	1	0	0	0	0	0	0	0	2010
10482	168	392.9	31209	0	0	0	0	1	0	0	0	0	0	0	0	2010
10668	168	381.7	23587	0	0	0	0	1	0	0	0	0	0	0	0	2010
10643	168	316.7	44198	0	0	0	0	1	0	0	0	0	0	0	0	2010
9925	168	385.6	26366	0	0	0	0	0	1	0	0	0	0	0	0	2010
9803	168	390.2	28688	0	0	0	0	0	1	0	0	0	0	0	0	2010
9868	168	386.4	26714	0	0	0	0	0	1	0	0	0	0	0	0	2010
10189	120	383.6	23777	0	0	0	0	0	1	0	0	0	0	0	0	2010
10698	168	377.3	19457	0	0	0	0	0	0	1	0	0	0	0	0	2010
10768	144	355.8	4404	0	0	0	0	0	0	1	0	0	0	0	1	2010
10701	168	318.8	37546	0	0	0	0	0	0	1	0	0	0	0	0	2010

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
10832	168	319.1	37271	0	0	0	0	0	0	1	0	0	0	0	0	2010
10454	168	386.5	25717	0	0	0	0	0	0	0	1	0	0	0	0	2010
10422	168	386.2	26634	0	0	0	0	0	0	0	1	0	0	0	0	2010
10586	168	373.6	16086	0	0	0	0	0	0	0	1	0	0	0	0	2010
10699	160	349.7	699	0	0	0	0	0	0	0	1	0	0	0	0	2010
10714	168	353.5	60318	0	0	0	0	0	0	0	1	0	0	0	0	2010
11111	168	368.7	8750	0	0	0	0	0	0	0	0	1	0	0	0	2010
10901	168	403.3	39143	0	0	0	0	0	0	0	0	1	0	0	0	2010
10929	165	375.2	20129	0	0	0	0	0	0	0	0	1	0	0	0	2010
10984	168	328.9	50196	0	0	0	0	0	0	0	0	1	0	0	0	2010
10736	168	304.5	33708	0	0	0	0	0	0	0	0	0	1	0	0	2010
10754	168	295.3	27185	0	0	0	0	0	0	0	0	0	1	0	0	2010
10716	168	282.9	18619	0	0	0	0	0	0	0	0	0	1	0	0	2010
10729	168	297.0	27537	0	0	0	0	0	0	0	0	0	1	0	0	2010
10881	168	277.2	14186	0	0	0	0	0	0	0	0	0	1	0	0	2010
10402	169	332.9	50236	0	0	0	0	0	0	0	0	0	0	1	0	2010
11102	168	257.4	1542	0	0	0	0	0	0	0	0	0	0	1	0	2010
10635	168	367.9	13299	0	0	0	0	0	0	0	0	0	0	1	0	2010
10533	168	376.0	18589	0	0	0	0	0	0	0	0	0	0	1	0	2010
10393	168	420.7	49978	0	0	0	0	0	0	0	0	0	0	0	0	2010
10327	168	436.8	62956	0	0	0	0	0	0	0	0	0	0	0	0	2010
10637	168	391.5	26060	0	0	0	0	0	0	0	0	0	0	0	0	2010
10543	168	416.5	44639	0	0	0	0	0	0	0	0	0	0	0	0	2010
10699	24	395.2	28630	0	0	0	0	0	0	0	0	0	0	0	0	2010
10506	133	368.0	9555	1	0	0	0	0	0	0	0	0	0	0	0	2011
11770	78	276.7	24313	0	1	0	0	0	0	0	0	0	0	0	1	2011
10765	154	379.7	20818	0	1	0	0	0	0	0	0	0	0	0	0	2011
10529	168	392.4	29763	0	1	0	0	0	0	0	0	0	0	0	0	2011
10372	167	392.7	30830	0	0	1	0	0	0	0	0	0	0	0	0	2011
10460	168	389.8	27759	0	0	1	0	0	0	0	0	0	0	0	0	2011
10413	167	387.1	25853	0	0	1	0	0	0	0	0	0	0	0	0	2011
10431	168	411.2	43835	0	0	1	0	0	0	0	0	0	0	0	0	2011
10617	168	417.3	48234	0	0	1	0	0	0	0	0	0	0	0	0	2011
11748	168	382.5	24627	0	0	0	1	0	0	0	0	0	0	0	0	2011
11684	168	388.6	26521	0	0	0	1	0	0	0	0	0	0	0	0	2011
11604	168	401.0	36657	0	0	0	1	0	0	0	0	0	0	0	0	2011
* 7665	168	389.6	29096	0	0	0	1	0	0	0	0	0	0	0	0	2011
10737	168	328.1	50084	0	0	0	0	1	0	0	0	0	0	0	0	2011
10919	168	299.5	30837	0	0	0	0	1	0	0	0	0	0	0	0	2011
11161	168	276.4	14670	0	0	0	0	1	0	0	0	0	0	0	0	2011
10966	168	343.5	62084	0	0	0	0	1	0	0	0	0	0	0	0	2011
10521	107	364.8	15516	0	0	0	0	1	0	0	0	0	0	0	1	2011
10883	168	371.2	16958	0	0	0	0	0	1	0	0	0	0	0	0	2011
11000	168	358.5	7445	0	0	0	0	0	1	0	0	0	0	0	0	2011
11064	168	352.9	3984	0	0	0	0	0	1	0	0	0	0	0	0	2011
11109	123	343.5	62841	0	0	0	0	0	1	0	0	0	0	0	0	2011

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 shut down 24 hours or more, in BTU/Kwh.

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

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

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

NS Number of 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
10402	168	131.0	17715	0	0	0	0	0	0	1	0	0	0	0	0	2008
10243	168	133.2	18239	0	0	0	0	0	0	1	0	0	0	0	0	2008
10254	168	158.9	25324	0	0	0	0	0	0	1	0	0	0	0	0	2008
10320	168	140.2	20782	0	0	0	0	0	0	1	0	0	0	0	0	2008
10413	168	131.8	18669	0	0	0	0	0	0	0	1	0	0	0	0	2008
10399	168	132.2	18489	0	0	0	0	0	0	0	1	0	0	0	0	2008
10298	168	138.4	19779	0	0	0	0	0	0	0	1	0	0	0	0	2008
10294	168	140.7	20234	0	0	0	0	0	0	0	1	0	0	0	0	2008
10460	168	130.3	17994	0	0	0	0	0	0	0	1	0	0	0	0	2008
10374	168	132.1	18802	0	0	0	0	0	0	0	0	1	0	0	0	2008
10543	168	125.1	17399	0	0	0	0	0	0	0	0	1	0	0	0	2008
10453	168	125.0	17302	0	0	0	0	0	0	0	0	1	0	0	0	2008
10180	168	135.7	19252	0	0	0	0	0	0	0	0	1	0	0	0	2008
10236	168	140.0	20155	0	0	0	0	0	0	0	0	0	1	0	0	2008
10298	111	128.1	17183	0	0	0	0	0	0	0	0	0	1	0	0	2008
10544	99	126.7	16793	0	0	0	0	0	0	0	0	0	0	1	1	2008
10311	168	143.6	21067	0	0	0	0	0	0	0	0	0	0	1	0	2008
10254	168	154.3	24025	0	0	0	0	0	0	0	0	0	0	1	0	2008
10144	168	146.5	21886	0	0	0	0	0	0	0	0	0	0	1	0	2008
10197	168	148.5	22288	0	0	0	0	0	0	0	0	0	0	0	0	2008
10312	168	140.9	20253	0	0	0	0	0	0	0	0	0	0	0	0	2008
10306	168	144.4	21239	0	0	0	0	0	0	0	0	0	0	0	0	2008
10258	143	127.0	16581	0	0	0	0	0	0	0	0	0	0	0	0	2008
11238	20	113.1	14993	0	0	0	0	0	0	0	0	0	0	0	1	2008
10377	168	115.2	13364	1	0	0	0	0	0	0	0	0	0	0	0	2009
10411	168	111.8	12689	1	0	0	0	0	0	0	0	0	0	0	0	2009
10383	168	114.5	13244	1	0	0	0	0	0	0	0	0	0	0	0	2009
10493	168	103.6	10865	1	0	0	0	0	0	0	0	0	0	0	0	2009
10416	168	120.4	15032	0	1	0	0	0	0	0	0	0	0	0	0	2009
10314	47	133.7	18715	0	1	0	0	0	0	0	0	0	0	0	0	2009
10532	149	120.8	15230	0	0	1	0	0	0	0	0	0	0	0	1	2009
10342	117	125.9	16386	0	0	1	0	0	0	0	0	0	0	0	0	2009
10783	100	107.4	12864	0	0	0	0	1	0	0	0	0	0	0	1	2009
10491	129	124.0	16415	0	0	0	0	1	0	0	0	0	0	0	0	2009
10513	165	124.7	16205	0	0	0	0	1	0	0	0	0	0	0	1	2009
10810	153	110.2	13381	0	0	0	0	1	0	0	0	0	0	0	0	2009
10788	69	108.0	12864	0	0	0	0	0	1	0	0	0	0	0	1	2009
* 605	144	143.1	11743	0	0	0	0	0	1	0	0	0	0	0	0	2009
10943	144	103.5	12039	0	0	0	0	0	1	0	0	0	0	0	0	2009
10674	168	120.0	15307	0	0	0	0	0	0	1	0	0	0	0	0	2009
10761	168	125.2	16626	0	0	0	0	0	0	1	0	0	0	0	0	2009
10998	168	110.9	13206	0	0	0	0	0	0	1	0	0	0	0	0	2009
10808	168	113.6	13670	0	0	0	0	0	0	1	0	0	0	0	0	2009
10848	168	108.4	12444	0	0	0	0	0	0	0	1	0	0	0	0	2009
10843	168	111.6	13208	0	0	0	0	0	0	0	1	0	0	0	0	2009
10907	168	99.9	10480	0	0	0	0	0	0	0	1	0	0	0	0	2009
10893	168	98.9	10364	0	0	0	0	0	0	0	1	0	0	0	0	2009

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
11005	168	86.5	7951	0	0	0	0	0	0	0	1	0	0	0	0	2009
11044	168	91.2	9084	0	0	0	0	0	0	0	0	1	0	0	0	2009
11041	168	87.4	8313	0	0	0	0	0	0	0	0	1	0	0	0	2009
10873	168	100.8	11028	0	0	0	0	0	0	0	0	1	0	0	0	2009
10694	168	111.9	13547	0	0	0	0	0	0	0	0	1	0	0	0	2009
10682	97	122.1	15760	0	0	0	0	0	0	0	0	0	1	0	0	2009
10830	91	107.3	11941	0	0	0	0	0	0	0	0	0	0	0	1	2009
10589	168	103.8	11040	0	0	0	0	0	0	0	0	0	0	0	0	2009
10724	60	101.5	10860	0	0	0	0	0	0	0	0	0	0	0	0	2009
11348	13	115.1	15129	0	0	0	0	0	0	0	0	0	0	0	1	2009
10420	168	147.2	21924	1	0	0	0	0	0	0	0	0	0	0	0	2010
10590	168	133.7	19157	1	0	0	0	0	0	0	0	0	0	0	0	2010
10689	168	113.5	13327	1	0	0	0	0	0	0	0	0	0	0	0	2010
10704	168	115.2	13640	1	0	0	0	0	0	0	0	0	0	0	0	2010
10514	168	120.0	14965	0	1	0	0	0	0	0	0	0	0	0	0	2010
10651	168	122.9	15722	0	1	0	0	0	0	0	0	0	0	0	0	2010
10642	168	129.2	17227	0	1	0	0	0	0	0	0	0	0	0	0	2010
10776	168	115.4	13895	0	1	0	0	0	0	0	0	0	0	0	0	2010
10632	168	119.3	14744	0	0	1	0	0	0	0	0	0	0	0	0	2010
10660	168	107.4	12046	0	0	1	0	0	0	0	0	0	0	0	0	2010
10786	167	91.4	8516	0	0	1	0	0	0	0	0	0	0	0	0	2010
10783	168	93.2	8788	0	0	1	0	0	0	0	0	0	0	0	0	2010
10820	168	89.6	8119	0	0	1	0	0	0	0	0	0	0	0	0	2010
10674	168	97.1	9629	0	0	0	1	0	0	0	0	0	0	0	0	2010
10702	143	88.9	8005	0	0	0	1	0	0	0	0	0	0	0	0	2010
11416	69	81.6	6820	0	0	0	1	0	0	0	0	0	0	0	1	2010
10916	168	89.1	8035	0	0	0	0	1	0	0	0	0	0	0	0	2010
11225	168	73.9	5703	0	0	0	0	1	0	0	0	0	0	0	0	2010
11137	168	74.1	5681	0	0	0	0	1	0	0	0	0	0	0	0	2010
* 479	144	73.4	7307	0	0	0	0	1	0	0	0	0	0	0	0	2010
11156	168	71.9	5279	0	0	0	0	1	0	0	0	0	0	0	0	2010
10941	168	95.3	10313	0	0	0	0	0	1	0	0	0	0	0	0	2010
10658	168	126.9	17481	0	0	0	0	0	1	0	0	0	0	0	0	2010
10676	168	127.9	17883	0	0	0	0	0	1	0	0	0	0	0	0	2010
10664	144	126.6	17498	0	0	0	0	0	1	0	0	0	0	0	0	2010
10479	168	123.0	16748	0	0	0	0	0	0	1	0	0	0	0	0	2010
10697	168	126.6	17641	0	0	0	0	0	0	1	0	0	0	0	0	2010
10590	167	121.8	16550	0	0	0	0	0	0	1	0	0	0	0	0	2010
10589	168	126.7	17578	0	0	0	0	0	0	1	0	0	0	0	0	2010
10565	168	128.6	18074	0	0	0	0	0	0	0	1	0	0	0	0	2010
10498	168	125.0	17303	0	0	0	0	0	0	0	1	0	0	0	0	2010
10487	168	127.4	17841	0	0	0	0	0	0	0	1	0	0	0	0	2010
10639	140	120.7	16350	0	0	0	0	0	0	0	1	0	0	0	1	2010
10465	168	127.2	17518	0	0	0	0	0	0	0	1	0	0	0	0	2010
10460	168	123.4	16819	0	0	0	0	0	0	0	0	1	0	0	0	2010
10423	168	129.2	18259	0	0	0	0	0	0	0	0	1	0	0	0	2010
10415	168	127.7	17899	0	0	0	0	0	0	0	0	1	0	0	0	2010

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
10720	168	94.9	10299	0	0	0	0	0	0	0	0	1	0	0	0	2010
11008	168	75.6	5995	0	0	0	0	0	0	0	0	0	1	0	0	2010
10852	168	81.4	7271	0	0	0	0	0	0	0	0	0	1	0	0	2010
11048	168	76.2	6181	0	0	0	0	0	0	0	0	0	1	0	0	2010
10945	168	83.5	7668	0	0	0	0	0	0	0	0	0	1	0	0	2010
11233	168	71.4	5254	0	0	0	0	0	0	0	0	0	1	0	0	2010
10973	112	87.5	8728	0	0	0	0	0	0	0	0	0	0	1	1	2010
10437	168	115.5	13690	0	0	0	0	0	0	0	0	0	0	1	0	2010
10438	168	135.0	19069	0	0	0	0	0	0	0	0	0	0	1	0	2010
10558	168	127.7	17357	0	0	0	0	0	0	0	0	0	0	1	0	2010
10330	168	144.0	21271	0	0	0	0	0	0	0	0	0	0	0	0	2010
10327	168	150.0	22771	0	0	0	0	0	0	0	0	0	0	0	0	2010
10394	168	139.2	20243	0	0	0	0	0	0	0	0	0	0	0	0	2010
10407	168	146.7	21924	0	0	0	0	0	0	0	0	0	0	0	0	2010
10466	24	144.3	21258	0	0	0	0	0	0	0	0	0	0	0	0	2010
10513	168	135.1	19204	1	0	0	0	0	0	0	0	0	0	0	0	2011
10468	168	144.4	21285	1	0	0	0	0	0	0	0	0	0	0	0	2011
10337	71	138.0	19985	1	0	0	0	0	0	0	0	0	0	0	0	2011
10803	119	98.1	9916	0	1	0	0	0	0	0	0	0	0	0	1	2011
10634	168	97.6	10065	0	1	0	0	0	0	0	0	0	0	0	0	2011
10641	168	111.2	13806	0	1	0	0	0	0	0	0	0	0	0	0	2011
10677	168	101.4	11646	0	0	1	0	0	0	0	0	0	0	0	0	2011
*13980	1	7.0	49	0	0	1	0	0	0	0	0	0	0	0	0	2011
11226	72	124.5	17375	0	0	1	0	0	0	0	0	0	0	0	3	2011
10496	168	133.4	19024	0	0	0	1	0	0	0	0	0	0	0	0	2011
10618	51	124.8	17246	0	0	0	1	0	0	0	0	0	0	0	1	2011
* 497	144	96.0	19782	0	0	0	1	0	0	0	0	0	0	0	0	2011
10304	168	128.1	17618	0	0	0	1	0	0	0	0	0	0	0	0	2011
10817	168	92.9	9669	0	0	0	0	1	0	0	0	0	0	0	0	2011
11070	168	78.8	6578	0	0	0	0	1	0	0	0	0	0	0	0	2011
11064	168	78.9	6830	0	0	0	0	1	0	0	0	0	0	0	0	2011
11059	168	78.3	6442	0	0	0	0	1	0	0	0	0	0	0	0	2011
10801	168	87.6	8323	0	0	0	0	1	0	0	0	0	0	0	0	2011
10880	141	82.4	7325	0	0	0	0	0	1	0	0	0	0	0	1	2011
10799	168	91.1	9324	0	0	0	0	0	1	0	0	0	0	0	0	2011
10955	168	79.4	6685	0	0	0	0	0	1	0	0	0	0	0	0	2011
11088	144	76.2	5984	0	0	0	0	0	1	0	0	0	0	0	0	2011

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 shut down 24 hours or more, in BTU/Kwh.

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

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

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

NS Number of 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
10402	168	131.0	17715	0	0	0	0	0	0	1	0	0	0	0	0	2008
10243	168	133.2	18239	0	0	0	0	0	0	1	0	0	0	0	0	2008
10254	168	158.9	25324	0	0	0	0	0	0	1	0	0	0	0	0	2008
10320	168	140.2	20782	0	0	0	0	0	0	1	0	0	0	0	0	2008
10413	168	131.8	18669	0	0	0	0	0	0	0	1	0	0	0	0	2008
10399	168	132.2	18489	0	0	0	0	0	0	0	1	0	0	0	0	2008
10298	168	138.4	19779	0	0	0	0	0	0	0	1	0	0	0	0	2008
10294	168	140.7	20234	0	0	0	0	0	0	0	1	0	0	0	0	2008
10460	168	130.3	17994	0	0	0	0	0	0	0	1	0	0	0	0	2008
10374	168	132.1	18802	0	0	0	0	0	0	0	0	1	0	0	0	2008
10543	168	125.1	17399	0	0	0	0	0	0	0	0	1	0	0	0	2008
10453	168	125.0	17302	0	0	0	0	0	0	0	0	1	0	0	0	2008
10180	168	135.7	19252	0	0	0	0	0	0	0	0	1	0	0	0	2008
10236	168	140.0	20155	0	0	0	0	0	0	0	0	0	1	0	0	2008
10290	111	128.1	17183	0	0	0	0	0	0	0	0	0	1	0	0	2008
10544	99	126.7	16793	0	0	0	0	0	0	0	0	0	0	1	1	2008
10311	168	143.6	21067	0	0	0	0	0	0	0	0	0	0	1	0	2008
10254	168	154.3	24025	0	0	0	0	0	0	0	0	0	0	1	0	2008
10144	168	146.5	21886	0	0	0	0	0	0	0	0	0	0	1	0	2008
10197	168	148.5	22288	0	0	0	0	0	0	0	0	0	0	0	0	2008
10312	168	140.9	20253	0	0	0	0	0	0	0	0	0	0	0	0	2008
10306	168	144.4	21239	0	0	0	0	0	0	0	0	0	0	0	0	2008
10258	143	127.0	16581	0	0	0	0	0	0	0	0	0	0	0	0	2008
11238	20	113.1	14993	0	0	0	0	0	0	0	0	0	0	0	1	2008
10629	168	135.4	18715	1	0	0	0	0	0	0	0	0	0	0	0	2009
10662	168	138.2	19445	1	0	0	0	0	0	0	0	0	0	0	0	2009
10504	168	146.0	21460	1	0	0	0	0	0	0	0	0	0	0	0	2009
10582	47	161.7	26892	1	0	0	0	0	0	0	0	0	0	0	0	2009
10627	26	113.9	15604	0	1	0	0	0	0	0	0	0	0	0	1	2009
10225	168	148.1	22146	0	1	0	0	0	0	0	0	0	0	0	0	2009
10215	168	146.9	21771	0	1	0	0	0	0	0	0	0	0	0	0	2009
10329	168	148.7	22441	0	1	0	0	0	0	0	0	0	0	0	0	2009
10249	168	154.2	24438	0	0	1	0	0	0	0	0	0	0	0	0	2009
10268	167	125.6	15960	0	0	1	0	0	0	0	0	0	0	0	0	2009
10234	168	141.9	20855	0	0	1	0	0	0	0	0	0	0	0	0	2009
10215	168	151.0	23352	0	0	1	0	0	0	0	0	0	0	0	0	2009
10373	168	144.0	21336	0	0	1	0	0	0	0	0	0	0	0	0	2009
10468	168	149.1	22725	0	0	0	1	0	0	0	0	0	0	0	0	2009
10268	144	137.8	19998	0	0	0	1	0	0	0	0	0	0	0	0	2009
10385	168	137.0	20140	0	0	0	1	0	0	0	0	0	0	0	0	2009
10175	50	152.0	25400	0	0	0	1	0	0	0	0	0	0	0	0	2009
10174	29	135.3	21413	0	0	0	0	1	0	0	0	0	0	0	1	2009
10130	168	153.2	24496	0	0	0	0	1	0	0	0	0	0	0	0	2009
10098	168	147.0	23168	0	0	0	0	1	0	0	0	0	0	0	0	2009
10108	168	135.3	19422	0	0	0	0	1	0	0	0	0	0	0	0	2009
10399	168	115.9	14465	0	0	0	0	1	0	0	0	0	0	0	0	2009
10816	168	100.4	10192	0	0	0	0	0	1	0	0	0	0	0	0	2009

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
10459	168	114.4	13921	0	0	0	0	0	1	0	0	0	0	0	0	2009
10574	168	110.9	13733	0	0	0	0	0	1	0	0	0	0	0	0	2009
10856	144	104.1	11844	0	0	0	0	0	1	0	0	0	0	0	0	2009
10557	168	117.1	14688	0	0	0	0	0	0	1	0	0	0	0	0	2009
10591	168	122.3	16210	0	0	0	0	0	0	1	0	0	0	0	0	2009
10708	107	116.8	14797	0	0	0	0	0	0	1	0	0	0	0	1	2009
10468	168	118.3	14471	0	0	0	0	0	0	1	0	0	0	0	0	2009
10412	168	116.8	13998	0	0	0	0	0	0	0	1	0	0	0	0	2009
10538	168	120.7	15058	0	0	0	0	0	0	0	1	0	0	0	0	2009
10573	168	118.6	14396	0	0	0	0	0	0	0	1	0	0	0	0	2009
10287	161	125.8	16656	0	0	0	0	0	0	0	1	0	0	0	0	2009
10466	143	120.7	15910	0	0	0	0	0	0	0	0	1	0	0	1	2009
10247	168	136.7	19363	0	0	0	0	0	0	0	0	0	1	0	0	2009
10111	168	152.0	24071	0	0	0	0	0	0	0	0	0	1	0	0	2009
10107	168	144.7	21517	0	0	0	0	0	0	0	0	0	1	0	0	2009
10188	168	139.0	19620	0	0	0	0	0	0	0	0	0	1	0	0	2009
10127	169	121.7	15143	0	0	0	0	0	0	0	0	0	1	0	0	2009
10004	168	121.8	14983	0	0	0	0	0	0	0	0	0	0	1	0	2009
10155	168	117.3	14042	0	0	0	0	0	0	0	0	0	0	1	0	2009
*11619	144	125.2	15564	0	0	0	0	0	0	0	0	0	0	1	0	2009
10102	168	125.3	15873	0	0	0	0	0	0	0	0	0	0	1	0	2009
10157	88	120.4	14862	0	0	0	0	0	0	0	0	0	0	0	0	2009
10798	79	143.2	21976	0	0	0	0	0	0	0	0	0	0	0	1	2009
10973	168	123.1	15560	0	0	0	0	0	0	0	0	0	0	0	0	2009
10893	24	125.2	15843	0	0	0	0	0	0	0	0	0	0	0	0	2009
10647	168	165.0	27718	1	0	0	0	0	0	0	0	0	0	0	0	2010
10596	168	170.5	29610	1	0	0	0	0	0	0	0	0	0	0	0	2010
10848	168	120.5	14989	1	0	0	0	0	0	0	0	0	0	0	0	2010
10487	168	130.8	17304	1	0	0	0	0	0	0	0	0	0	0	0	2010
10251	168	133.4	18330	0	1	0	0	0	0	0	0	0	0	0	0	2010
10269	168	141.7	20626	0	1	0	0	0	0	0	0	0	0	0	0	2010
10421	168	149.5	23048	0	1	0	0	0	0	0	0	0	0	0	0	2010
10492	168	126.5	16532	0	1	0	0	0	0	0	0	0	0	0	0	2010
10385	168	134.5	18558	0	0	1	0	0	0	0	0	0	0	0	0	2010
10491	168	126.0	16591	0	0	1	0	0	0	0	0	0	0	0	0	2010
10640	167	112.7	12880	0	0	1	0	0	0	0	0	0	0	0	0	2010
10423	25	126.8	17334	0	0	1	0	0	0	0	0	0	0	0	0	2010
*10952	155	88.0	7937	0	0	0	1	0	0	0	0	0	0	0	0	2010
*10818	168	87.5	7759	0	0	0	1	0	0	0	0	0	0	0	0	2010
10501	168	147.5	23597	0	0	0	0	1	0	0	0	0	0	0	0	2010
10529	168	149.4	24661	0	0	0	0	1	0	0	0	0	0	0	0	2010
10475	168	149.0	24588	0	0	0	0	1	0	0	0	0	0	0	0	2010
10528	168	145.1	23837	0	0	0	0	1	0	0	0	0	0	0	0	2010
10545	168	142.4	23035	0	0	0	0	1	0	0	0	0	0	0	0	2010
10632	168	144.4	23410	0	0	0	0	0	1	0	0	0	0	0	0	2010
10522	168	147.9	24368	0	0	0	0	0	1	0	0	0	0	0	0	2010
10664	168	146.9	24200	0	0	0	0	0	1	0	0	0	0	0	0	2010

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
10731	144	145.3	23680	0	0	0	0	0	1	0	0	0	0	0	0	2010
10643	168	138.1	21740	0	0	0	0	0	0	1	0	0	0	0	0	2010
10737	168	144.7	23609	0	0	0	0	0	0	1	0	0	0	0	0	2010
10604	168	141.1	22587	0	0	0	0	0	0	1	0	0	0	0	0	2010
10598	168	147.0	24206	0	0	0	0	0	0	1	0	0	0	0	0	2010
10596	168	146.5	24125	0	0	0	0	0	0	0	1	0	0	0	0	2010
10589	168	142.8	23277	0	0	0	0	0	0	0	1	0	0	0	0	2010
10629	168	144.8	23718	0	0	0	0	0	0	0	1	0	0	0	0	2010
10582	168	143.6	23295	0	0	0	0	0	0	0	1	0	0	0	0	2010
10607	168	145.9	23732	0	0	0	0	0	0	0	1	0	0	0	0	2010
10582	168	138.9	22140	0	0	0	0	0	0	0	0	1	0	0	0	2010
10554	168	147.0	24255	0	0	0	0	0	0	0	0	1	0	0	0	2010
10685	168	145.7	23857	0	0	0	0	0	0	0	0	1	0	0	0	2010
10742	76	130.7	19458	0	0	0	0	0	0	0	0	1	0	0	0	2010
*16436	1	14.0	196	0	0	0	0	0	0	0	0	0	1	0	1	2010
10755	169	105.8	13010	0	0	0	0	0	0	0	0	0	0	1	0	2010
10542	168	160.6	27116	0	0	0	0	0	0	0	0	0	0	1	0	2010
10436	49	149.8	24712	0	0	0	0	0	0	0	0	0	0	1	0	2010
11147	46	121.7	15446	0	0	0	0	0	0	0	0	0	0	0	1	2010
10628	137	127.3	16832	0	0	0	0	0	0	0	0	0	0	0	0	2010
10664	125	122.1	15660	1	0	0	0	0	0	0	0	0	0	0	1	2011
10311	168	135.2	20078	1	0	0	0	0	0	0	0	0	0	0	0	2011
10636	168	174.9	31220	1	0	0	0	0	0	0	0	0	0	0	0	2011
10561	168	166.5	28823	0	1	0	0	0	0	0	0	0	0	0	0	2011
10584	168	172.0	30189	0	1	0	0	0	0	0	0	0	0	0	0	2011
10528	168	152.0	24656	0	1	0	0	0	0	0	0	0	0	0	0	2011
10808	168	106.8	13736	0	1	0	0	0	0	0	0	0	0	0	0	2011
10512	95	155.4	26132	0	0	1	0	0	0	0	0	0	0	0	0	2011
10423	70	129.3	19383	0	0	1	0	0	0	0	0	0	0	0	1	2011
10313	168	153.7	25329	0	0	1	0	0	0	0	0	0	0	0	0	2011
10430	95	160.4	27178	0	0	1	0	0	0	0	0	0	0	0	0	2011
10545	128	159.9	27355	0	0	0	1	0	0	0	0	0	0	0	1	2011
*11084	4	68.5	6434	0	0	0	1	0	0	0	0	0	0	0	0	2011
*11188	77	88.3	8244	0	0	0	0	1	0	0	0	0	0	0	1	2011
*11130	39	74.4	5878	0	0	0	0	1	0	0	0	0	0	0	0	2011
*11322	112	80.8	6931	0	0	0	0	1	0	0	0	0	0	0	1	2011
10940	168	99.1	11263	0	0	0	0	1	0	0	0	0	0	0	0	2011
10901	168	93.8	9907	0	0	0	0	0	1	0	0	0	0	0	0	2011
*11158	168	100.5	12019	0	0	0	0	0	1	0	0	0	0	0	0	2011
*11043	168	86.6	8433	0	0	0	0	0	1	0	0	0	0	0	0	2011
*11352	144	82.1	7233	0	0	0	0	0	1	0	0	0	0	0	0	2011

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 shut down 24 hours or more, in BTU/Kwh.

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

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

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

NS Number of 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
10237	168	456.4	19354	0	0	0	0	0	0	1	0	0	0	0	0	2008
10195	163	470.4	28143	0	0	0	0	0	0	1	0	0	0	0	0	2008
10105	168	482.6	37611	0	0	0	0	0	0	1	0	0	0	0	0	2008
10187	168	470.6	26977	0	0	0	0	0	0	1	0	0	0	0	0	2008
10343	168	458.9	19742	0	0	0	0	0	0	0	1	0	0	0	0	2008
10437	168	443.0	11121	0	0	0	0	0	0	0	1	0	0	0	0	2008
10353	164	452.1	14788	0	0	0	0	0	0	0	1	0	0	0	0	2008
11566	27	340.3	17964	0	0	0	0	0	0	0	0	1	0	0	1	2008
10154	164	399.2	42081	0	0	0	0	0	0	0	0	0	1	0	0	2008
10068	168	387.8	36715	0	0	0	0	0	0	0	0	0	1	0	0	2008
10486	168	319.4	55814	0	0	0	0	0	0	0	0	0	1	0	0	2008
10903	164	271.2	18995	0	0	0	0	0	0	0	0	0	1	0	0	2008
10883	169	335.8	58044	0	0	0	0	0	0	0	0	0	1	0	0	2008
10340	168	348.4	2010	0	0	0	0	0	0	0	0	0	0	1	0	2008
10193	168	387.6	30562	0	0	0	0	0	0	0	0	0	0	1	0	2008
10209	168	391.2	33720	0	0	0	0	0	0	0	0	0	0	1	0	2008
10165	168	397.0	40212	0	0	0	0	0	0	0	0	0	0	1	0	2008
10113	168	421.7	55089	0	0	0	0	0	0	0	0	0	0	0	0	2008
10255	168	429.2	60616	0	0	0	0	0	0	0	0	0	0	0	0	2008
10504	168	400.0	42228	0	0	0	0	0	0	0	0	0	0	0	0	2008
10843	168	276.1	18173	0	0	0	0	0	0	0	0	0	0	0	0	2008
11014	24	356.5	6794	0	0	0	0	0	0	0	0	0	0	0	0	2008
11317	168	238.0	64680	1	0	0	0	0	0	0	0	0	0	0	0	2009
11430	168	270.9	19604	1	0	0	0	0	0	0	0	0	0	0	0	2009
11413	168	256.3	10572	1	0	0	0	0	0	0	0	0	0	0	0	2009
12378	38	215.8	52856	1	0	0	0	0	0	0	0	0	0	0	0	2009
10755	11	319.6	51548	0	1	0	0	0	0	0	0	0	0	0	1	2009
11188	68	248.9	7856	0	1	0	0	0	0	0	0	0	0	0	0	2009
11486	92	271.1	24234	0	1	0	0	0	0	0	0	0	0	0	1	2009
10697	168	339.7	4710	0	0	1	0	0	0	0	0	0	0	0	0	2009
10488	40	222.4	58845	0	0	1	0	0	0	0	0	0	0	0	0	2009
10627	155	358.9	14313	0	0	0	1	0	0	0	0	0	0	0	1	2009
10741	167	329.3	56924	0	0	0	1	0	0	0	0	0	0	0	0	2009
10576	168	369.3	18573	0	0	0	1	0	0	0	0	0	0	0	0	2009
10417	168	354.2	12218	0	0	0	1	0	0	0	0	0	0	0	0	2009
10859	168	351.5	10414	0	0	0	0	1	0	0	0	0	0	0	0	2009
10684	168	387.5	37173	0	0	0	0	1	0	0	0	0	0	0	0	2009
10503	168	399.6	47420	0	0	0	0	1	0	0	0	0	0	0	0	2009
10712	168	376.2	29188	0	0	0	0	1	0	0	0	0	0	0	0	2009
10945	168	341.2	9102	0	0	0	0	1	0	0	0	0	0	0	0	2009
10983	168	354.9	15422	0	0	0	0	0	1	0	0	0	0	0	0	2009
10457	165	340.9	5071	0	0	0	0	0	1	0	0	0	0	0	0	2009
10509	168	355.4	14697	0	0	0	0	0	1	0	0	0	0	0	0	2009
10424	144	345.8	5843	0	0	0	0	0	1	0	0	0	0	0	0	2009
10797	166	356.2	16015	0	0	0	0	0	0	1	0	0	0	0	0	2009
10711	168	364.3	18616	0	0	0	0	0	0	1	0	0	0	0	0	2009
10865	168	339.7	3603	0	0	0	0	0	0	1	0	0	0	0	0	2009

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
10686	168	352.7	10388	0	0	0	0	0	0	1	0	0	0	0	0	2009
10276	168	387.2	33043	0	0	0	0	0	0	0	1	0	0	0	0	2009
10211	168	382.9	33192	0	0	0	0	0	0	0	1	0	0	0	0	2009
10213	168	376.6	27677	0	0	0	0	0	0	0	1	0	0	0	0	2009
10276	168	371.0	20792	0	0	0	0	0	0	0	1	0	0	0	0	2009
10175	168	373.8	27760	0	0	0	0	0	0	0	1	0	0	0	0	2009
10387	168	373.3	26215	0	0	0	0	0	0	0	0	1	0	0	0	2009
9890	168	384.8	31543	0	0	0	0	0	0	0	0	1	0	0	0	2009
10331	168	371.8	24900	0	0	0	0	0	0	0	0	1	0	0	0	2009
10011	168	395.9	39856	0	0	0	0	0	0	0	0	0	1	0	0	2009
10238	168	395.9	40359	0	0	0	0	0	0	0	0	0	1	0	0	2009
9752	144	396.9	41608	0	0	0	0	0	0	0	0	0	1	0	1	2009
10456	168	421.8	55966	0	0	0	0	0	0	0	0	0	1	0	0	2009
10189	169	391.8	38749	0	0	0	0	0	0	0	0	0	1	0	0	2009
10508	162	397.0	42268	0	0	0	0	0	0	0	0	0	0	1	0	2009
10561	168	388.1	37490	0	0	0	0	0	0	0	0	0	0	1	0	2009
10599	168	382.6	35258	0	0	0	0	0	0	0	0	0	0	1	0	2009
10543	168	391.6	38904	0	0	0	0	0	0	0	0	0	0	1	0	2009
11165	23	350.3	11070	0	0	0	0	0	0	0	0	0	0	0	0	2009
10873	68	309.3	40711	0	0	0	0	0	0	0	0	0	0	0	1	2009
10682	168	316.1	43462	0	0	0	0	0	0	0	0	0	0	0	0	2009
10929	24	337.0	53446	0	0	0	0	0	0	0	0	0	0	0	0	2009
10459	168	428.9	62227	1	0	0	0	0	0	0	0	0	0	0	0	2010
10350	168	423.1	57112	1	0	0	0	0	0	0	0	0	0	0	0	2010
10822	143	303.2	39153	1	0	0	0	0	0	0	0	0	0	0	1	2010
10867	168	327.6	54519	1	0	0	0	0	0	0	0	0	0	0	0	2010
11253	168	217.1	55102	0	1	0	0	0	0	0	0	0	0	0	0	2010
11201	168	203.9	45463	0	1	0	0	0	0	0	0	0	0	0	0	2010
10981	168	228.4	58171	0	1	0	0	0	0	0	0	0	0	0	0	2010
10255	21	318.6	58496	0	1	0	0	0	0	0	0	0	0	0	0	2010
11708	112	308.9	54416	0	0	0	1	0	0	0	0	0	0	0	1	2010
9731	168	340.7	6172	0	0	0	0	1	0	0	0	0	0	0	0	2010
9858	168	353.8	19712	0	0	0	0	1	0	0	0	0	0	0	0	2010
10038	168	348.8	11194	0	0	0	0	1	0	0	0	0	0	0	0	2010
10075	168	327.5	62376	0	0	0	0	1	0	0	0	0	0	0	0	2010
10048	168	360.6	22435	0	0	0	0	1	0	0	0	0	0	0	0	2010
10127	168	369.6	24828	0	0	0	0	0	1	0	0	0	0	0	0	2010
10203	168	391.0	41566	0	0	0	0	0	1	0	0	0	0	0	0	2010
10078	168	377.9	28477	0	0	0	0	0	1	0	0	0	0	0	0	2010
10170	144	396.6	41285	0	0	0	0	0	1	0	0	0	0	0	0	2010
10164	168	384.5	33433	0	0	0	0	0	0	1	0	0	0	0	0	2010
10203	168	382.8	31987	0	0	0	0	0	0	1	0	0	0	0	0	2010
10120	166	356.0	17454	0	0	0	0	0	0	1	0	0	0	0	0	2010
10071	168	392.3	37712	0	0	0	0	0	0	1	0	0	0	0	0	2010
9990	168	399.7	43136	0	0	0	0	0	0	0	1	0	0	0	0	2010
10037	168	389.5	36525	0	0	0	0	0	0	0	1	0	0	0	0	2010
10063	168	380.8	30816	0	0	0	0	0	0	0	1	0	0	0	0	2010

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
10691	168	381.8	33620	0	0	0	0	0	0	0	1	0	0	0	0	2010
9978	168	385.9	35763	0	0	0	0	0	0	0	1	0	0	0	0	2010
10007	168	378.9	31336	0	0	0	0	0	0	0	0	1	0	0	0	2010
9836	168	404.4	46992	0	0	0	0	0	0	0	0	1	0	0	0	2010
9828	168	383.5	32342	0	0	0	0	0	0	0	0	1	0	0	0	2010
9641	168	380.6	32203	0	0	0	0	0	0	0	0	1	0	0	0	2010
10380	168	367.5	25015	0	0	0	0	0	0	0	0	0	1	0	0	2010
10641	94	354.1	17321	0	0	0	0	0	0	0	0	0	1	0	1	2010
10057	168	375.2	29337	0	0	0	0	0	0	0	0	0	1	0	0	2010
10050	151	377.6	30547	0	0	0	0	0	0	0	0	0	1	0	0	2010
10288	165	359.0	17683	0	0	0	0	0	0	0	0	0	1	0	0	2010
10027	169	403.8	46268	0	0	0	0	0	0	0	0	0	0	1	0	2010
10075	168	396.7	43210	0	0	0	0	0	0	0	0	0	0	1	0	2010
9999	168	382.4	33788	0	0	0	0	0	0	0	0	0	0	1	0	2010
10129	168	365.2	20885	0	0	0	0	0	0	0	0	0	0	1	0	2010
9967	168	353.2	11208	0	0	0	0	0	0	0	0	0	0	0	0	2010
10053	33	445.7	13952	0	0	0	0	0	0	0	0	0	0	0	0	2010
9977	160	374.9	28370	0	0	0	0	0	0	0	0	0	0	0	1	2010
9918	161	401.2	44106	0	0	0	0	0	0	0	0	0	0	0	0	2010
9944	24	389.8	38523	0	0	0	0	0	0	0	0	0	0	0	0	2010
10319	167	355.2	11368	1	0	0	0	0	0	0	0	0	0	0	0	2011
9933	121	446.2	12238	1	0	0	0	0	0	0	0	0	0	0	1	2011
10014	168	443.2	7881	1	0	0	0	0	0	0	0	0	0	0	0	2011
10216	168	316.2	42843	1	0	0	0	0	0	0	0	0	0	0	0	2011
9986	168	330.8	59199	0	1	0	0	0	0	0	0	0	0	0	0	2011
10732	168	223.8	53374	0	1	0	0	0	0	0	0	0	0	0	0	2011
11045	168	201.7	43404	0	1	0	0	0	0	0	0	0	0	0	0	2011
12601	23	214.3	57161	0	0	1	0	0	0	0	0	0	0	0	2	2011
11773	74	191.6	40980	0	0	1	0	0	0	0	0	0	0	0	1	2011
11740	167	188.7	37014	0	0	1	0	0	0	0	0	0	0	0	0	2011
10757	168	290.8	35772	0	0	1	0	0	0	0	0	0	0	0	0	2011
10353	168	400.0	45266	0	0	1	0	0	0	0	0	0	0	0	0	2011
9898	168	392.0	40417	0	0	0	1	0	0	0	0	0	0	0	0	2011
9856	168	389.3	39235	0	0	0	1	0	0	0	0	0	0	0	0	2011
9874	168	402.1	47424	0	0	0	1	0	0	0	0	0	0	0	0	2011
10168	167	369.9	25391	0	0	0	1	0	0	0	0	0	0	0	0	2011
11425	85	214.4	48364	0	0	0	0	1	0	0	0	0	0	0	1	2011
10589	168	291.6	32568	0	0	0	0	1	0	0	0	0	0	0	0	2011
11146	168	219.8	57689	0	0	0	0	1	0	0	0	0	0	0	0	2011
10738	168	261.5	12855	0	0	0	0	1	0	0	0	0	0	0	0	2011
10514	168	311.1	46245	0	0	0	0	1	0	0	0	0	0	0	0	2011
10447	168	308.6	43974	0	0	0	0	0	1	0	0	0	0	0	0	2011
10505	168	306.5	44496	0	0	0	0	0	1	0	0	0	0	0	0	2011
10504	168	288.0	29514	0	0	0	0	0	1	0	0	0	0	0	0	2011
10564	144	284.9	28598	0	0	0	0	0	1	0	0	0	0	0	0	2011

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 shut down 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^2 .

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

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

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
9924	168	476.7	34983	0	0	0	0	0	0	1	0	0	0	0	0	2008
9972	168	483.2	39374	0	0	0	0	0	0	1	0	0	0	0	0	2008
9904	168	483.6	39789	0	0	0	0	0	0	1	0	0	0	0	0	2008
9947	168	479.8	35735	0	0	0	0	0	0	1	0	0	0	0	0	2008
10045	168	475.0	32566	0	0	0	0	0	0	0	1	0	0	0	0	2008
10127	168	469.5	29229	0	0	0	0	0	0	0	1	0	0	0	0	2008
10225	168	474.4	32572	0	0	0	0	0	0	0	1	0	0	0	0	2008
10110	167	470.4	31412	0	0	0	0	0	0	0	1	0	0	0	0	2008
9881	163	460.9	27074	0	0	0	0	0	0	0	1	0	0	0	0	2008
10018	168	476.0	32868	0	0	0	0	0	0	0	0	1	0	0	0	2008
9877	168	494.3	47982	0	0	0	0	0	0	0	0	1	0	0	0	2008
9981	168	464.9	22857	0	0	0	0	0	0	0	0	1	0	0	0	2008
9999	168	463.3	21301	0	0	0	0	0	0	0	0	1	0	0	0	2008
10040	168	462.7	20216	0	0	0	0	0	0	0	0	0	1	0	0	2008
9820	168	460.5	18114	0	0	0	0	0	0	0	0	0	1	0	0	2008
9982	94	406.2	45028	0	0	0	0	0	0	0	0	0	1	0	0	2008
10693	155	350.1	11701	0	0	0	0	0	0	0	0	0	0	0	1	2008
10845	168	273.3	21534	0	0	0	0	0	0	0	0	0	0	0	0	2008
9548	24	455.0	13153	0	0	0	0	0	0	0	0	0	0	0	0	2008
9832	168	362.0	5801	1	0	0	0	0	0	0	0	0	0	0	0	2009
9691	168	435.9	6030	1	0	0	0	0	0	0	0	0	0	0	0	2009
9754	168	411.8	52436	1	0	0	0	0	0	0	0	0	0	0	0	2009
10567	48	313.8	51385	1	0	0	0	0	0	0	0	0	0	0	0	2009
10775	24	363.0	23821	0	1	0	0	0	0	0	0	0	0	0	1	2009
11171	43	317.9	58881	0	1	0	0	0	0	0	0	0	0	0	0	2009
10547	81	406.1	47368	0	1	0	0	0	0	0	0	0	0	0	1	2009
10824	168	342.7	3098	0	1	0	0	0	0	0	0	0	0	0	0	2009
10411	168	353.3	8762	0	0	1	0	0	0	0	0	0	0	0	0	2009
10623	45	304.2	47029	0	0	1	0	0	0	0	0	0	0	0	0	2009
10612	161	373.2	20791	0	0	0	1	0	0	0	0	0	0	0	1	2009
10816	168	303.2	37238	0	0	0	1	0	0	0	0	0	0	0	0	2009
10756	168	353.0	4980	0	0	0	1	0	0	0	0	0	0	0	0	2009
10610	168	340.6	1454	0	0	0	1	0	0	0	0	0	0	0	0	2009
10917	48	329.9	58767	0	0	0	0	1	0	0	0	0	0	0	0	2009
10416	123	320.1	56706	0	0	0	0	1	0	0	0	0	0	0	1	2009
10911	168	356.8	17039	0	0	0	0	0	1	0	0	0	0	0	0	2009
10348	168	365.7	20047	0	0	0	0	0	1	0	0	0	0	0	0	2009
10148	168	417.8	54381	0	0	0	0	0	1	0	0	0	0	0	0	2009
10358	144	364.3	18749	0	0	0	0	0	1	0	0	0	0	0	0	2009
10249	168	373.4	26057	0	0	0	0	0	0	1	0	0	0	0	0	2009
10035	168	399.6	41017	0	0	0	0	0	0	1	0	0	0	0	0	2009
10325	168	352.7	11686	0	0	0	0	0	0	1	0	0	0	0	0	2009
10040	168	359.6	14282	0	0	0	0	0	0	1	0	0	0	0	0	2009
10239	125	364.2	17721	0	0	0	0	0	0	0	1	0	0	0	1	2009
10054	168	394.1	41610	0	0	0	0	0	0	0	1	0	0	0	0	2009
9995	168	389.2	35420	0	0	0	0	0	0	0	1	0	0	0	0	2009
10159	168	378.1	26915	0	0	0	0	0	0	0	1	0	0	0	0	2009

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
10293	168	344.1	6747	0	0	0	0	0	0	0	1	0	0	0	0	2009
10143	168	342.6	3894	0	0	0	0	0	0	0	0	1	0	0	0	2009
10257	168	357.1	9760	0	0	0	0	0	0	0	0	1	0	0	0	2009
10162	168	379.3	27442	0	0	0	0	0	0	0	0	1	0	0	0	2009
10132	168	375.1	27354	0	0	0	0	0	0	0	0	1	0	0	0	2009
9927	168	399.1	44176	0	0	0	0	0	0	0	0	0	1	0	0	2009
10187	168	404.6	46992	0	0	0	0	0	0	0	0	0	1	0	0	2009
10057	168	403.3	47150	0	0	0	0	0	0	0	0	0	1	0	0	2009
9957	168	425.9	61698	0	0	0	0	0	0	0	0	0	1	0	0	2009
9985	169	398.7	44406	0	0	0	0	0	0	0	0	0	1	0	0	2009
10389	65	373.2	28317	0	0	0	0	0	0	0	0	0	0	1	1	2009
10233	168	377.5	32087	0	0	0	0	0	0	0	0	0	0	1	0	2009
10127	168	385.4	37210	0	0	0	0	0	0	0	0	0	0	1	0	2009
10340	138	373.5	27194	0	0	0	0	0	0	0	0	0	0	1	1	2009
11245	168	264.2	15626	0	0	0	0	0	0	0	0	0	0	0	0	2009
11282	168	351.9	4951	0	0	0	0	0	0	0	0	0	0	0	0	2009
10902	168	352.9	2277	0	0	0	0	0	0	0	0	0	0	0	0	2009
11164	168	317.3	44151	0	0	0	0	0	0	0	0	0	0	0	0	2009
10807	24	351.2	62605	0	0	0	0	0	0	0	0	0	0	0	0	2009
10066	168	410.5	44984	1	0	0	0	0	0	0	0	0	0	0	0	2010
10135	168	433.0	60798	1	0	0	0	0	0	0	0	0	0	0	0	2010
10462	168	319.4	45023	1	0	0	0	0	0	0	0	0	0	0	0	2010
10464	168	334.5	55989	1	0	0	0	0	0	0	0	0	0	0	0	2010
10698	168	217.5	50274	0	1	0	0	0	0	0	0	0	0	0	0	2010
10703	168	221.2	52076	0	1	0	0	0	0	0	0	0	0	0	0	2010
10667	168	243.3	63799	0	1	0	0	0	0	0	0	0	0	0	0	2010
10969	168	221.3	53230	0	1	0	0	0	0	0	0	0	0	0	0	2010
10689	22	200.9	41188	0	0	1	0	0	0	0	0	0	0	0	0	2010
11382	87	218.2	55196	0	0	1	0	0	0	0	0	0	0	0	1	2010
11123	168	224.6	55290	0	0	1	0	0	0	0	0	0	0	0	0	2010
11375	168	192.6	37664	0	0	1	0	0	0	0	0	0	0	0	0	2010
10830	168	231.5	63275	0	0	0	1	0	0	0	0	0	0	0	0	2010
11220	168	196.8	39800	0	0	0	1	0	0	0	0	0	0	0	0	2010
11241	168	198.4	40571	0	0	0	1	0	0	0	0	0	0	0	0	2010
11326	118	201.8	41935	0	0	0	1	0	0	0	0	0	0	0	0	2010
10616	88	358.1	20268	0	0	0	0	1	0	0	0	0	0	0	1	2010
10369	168	340.5	1918	0	0	0	0	1	0	0	0	0	0	0	0	2010
10377	168	376.0	27430	0	0	0	0	1	0	0	0	0	0	0	0	2010
10377	168	372.8	27356	0	0	0	0	1	0	0	0	0	0	0	0	2010
10400	168	374.6	28275	0	0	0	0	1	0	0	0	0	0	0	0	2010
10293	168	376.9	28378	0	0	0	0	0	1	0	0	0	0	0	0	2010
10247	168	387.7	36943	0	0	0	0	0	1	0	0	0	0	0	0	2010
10161	168	363.1	18678	0	0	0	0	0	1	0	0	0	0	0	0	2010
10206	93	379.0	33465	0	0	0	0	0	1	0	0	0	0	0	1	2010
10289	168	373.9	28070	0	0	0	0	0	0	1	0	0	0	0	0	2010
10399	168	379.9	30587	0	0	0	0	0	0	1	0	0	0	0	0	2010
10185	168	369.1	25082	0	0	0	0	0	0	1	0	0	0	0	0	2010

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
10342	168	377.3	29038	0	0	0	0	0	0	1	0	0	0	0	0	2010
10304	166	372.9	25809	0	0	0	0	0	0	0	1	0	0	0	0	2010
10352	168	380.6	31347	0	0	0	0	0	0	0	1	0	0	0	0	2010
10438	168	358.5	15857	0	0	0	0	0	0	0	1	0	0	0	0	2010
10386	168	361.8	19784	0	0	0	0	0	0	0	1	0	0	0	0	2010
10310	168	382.4	33868	0	0	0	0	0	0	0	1	0	0	0	0	2010
10318	168	369.2	25449	0	0	0	0	0	0	0	0	1	0	0	0	2010
10342	168	390.5	38642	0	0	0	0	0	0	0	0	1	0	0	0	2010
10130	168	383.2	33514	0	0	0	0	0	0	0	0	1	0	0	0	2010
10174	168	373.1	26772	0	0	0	0	0	0	0	0	1	0	0	0	2010
10383	168	366.0	24505	0	0	0	0	0	0	0	0	0	1	0	0	2010
10243	168	381.7	36262	0	0	0	0	0	0	0	0	0	1	0	0	2010
10219	168	371.9	27181	0	0	0	0	0	0	0	0	0	1	0	0	2010
9955	168	386.1	35847	0	0	0	0	0	0	0	0	0	1	0	0	2010
10538	168	309.9	48984	0	0	0	0	0	0	0	0	0	1	0	0	2010
10803	169	235.0	60387	0	0	0	0	0	0	0	0	0	0	1	0	2010
10979	168	219.4	53323	0	0	0	0	0	0	0	0	0	0	1	0	2010
11280	168	188.6	37485	0	0	0	0	0	0	0	0	0	0	1	0	2010
10831	168	205.1	49207	0	0	0	0	0	0	0	0	0	0	1	0	2010
10395	168	263.0	11026	0	0	0	0	0	0	0	0	0	0	0	0	2010
10345	168	360.8	16174	0	0	0	0	0	0	0	0	0	0	0	0	2010
10469	168	252.7	9173	0	0	0	0	0	0	0	0	0	0	0	0	2010
10426	168	282.9	24157	0	0	0	0	0	0	0	0	0	0	0	0	2010
11495	24	182.5	33335	0	0	0	0	0	0	0	0	0	0	0	0	2010
11317	83	291.0	43817	0	0	1	0	0	0	0	0	0	0	0	4	2011
10742	167	198.9	42984	0	0	1	0	0	0	0	0	0	0	0	0	2011
10736	146	223.0	53419	0	0	1	0	0	0	0	0	0	0	0	0	2011
10875	114	298.7	43598	0	0	0	0	1	0	0	0	0	0	0	1	2011
11460	168	213.4	52669	0	0	0	0	1	0	0	0	0	0	0	0	2011
10568	168	294.3	32119	0	0	0	0	1	0	0	0	0	0	0	0	2011
10589	168	329.2	59494	0	0	0	0	1	0	0	0	0	0	0	0	2011
10350	168	313.9	49159	0	0	0	0	0	1	0	0	0	0	0	0	2011
10369	168	312.6	46717	0	0	0	0	0	1	0	0	0	0	0	0	2011
10522	168	292.3	32424	0	0	0	0	0	1	0	0	0	0	0	0	2011
10420	144	280.6	24396	0	0	0	0	0	1	0	0	0	0	0	0	2011

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 shut down 24 hours or more, in BTU/Kwh.

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

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

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

NS Number of 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 2012 - December 2012

Unit	Month	(1)	(2)	(3)	(4)	(5)
		Forecast AKW * 10 ³	Forecast LSRF * 10 ⁶	Forecast Monthly ANOHR	Forecast AKWH * 10 ³ Generation	Weighted ANOHR Target
CRIST 4	Jan '12	47.8	2,422	11,741	29,577	
	Feb '12	46.5	2,292	11,827	32,111	
	Mar '12	46.5	2,292	11,827	34,244	
	Apr '12	51.8	2,835	11,502	37,005	
	May '12	55.0	3,179	11,336	40,567	
	Jun '12	57.8	3,492	11,205	41,288	
	Jul '12	59.0	3,628	11,615	43,483	
	Aug '12	59.1	3,640	11,149	43,593	
	Sep '12	56.6	3,356	11,260	40,410	
	Oct '12	53.1	2,973	11,432	39,190	
	Nov '12	48.2	2,462	11,314	34,470	
	Dec '12	47.4	2,382	11,767	34,951	11,479
CRIST 5	Jan '12	45.4	2,161	11,694	31,412	
	Feb '12	44.8	2,102	11,744	27,753	
	Mar '12	44.1	2,033	11,806	32,556	
	Apr '12	47.6	2,383	11,195	34,074	
	May '12	51.1	2,749	11,306	37,778	
	Jun '12	55.0	3,176	11,119	39,374	
	Jul '12	57.4	3,448	11,344	42,449	
	Aug '12	57.2	3,425	11,392	42,290	
	Sep '12	54.5	3,120	11,575	39,010	
	Oct '12	50.1	2,643	11,364	37,014	
	Nov '12	46.1	2,231	11,638	32,994	
	Dec '12	45.5	2,171	11,686	33,613	11,471
CRIST 6	Jan '12	146.7	23,575	11,648	105,210	
	Feb '12	141.4	21,767	11,747	55,632	
	Mar '12	0.0	0	-	0	
	Apr '12	152.3	25,523	11,554	3,654	
	May '12	169.6	31,778	11,324	121,674	
	Jun '12	191.7	40,292	11,134	133,055	
	Jul '12	205.1	45,741	11,060	147,103	
	Aug '12	204.8	45,617	11,321	146,894	
	Sep '12	187.6	38,668	11,491	130,228	
	Oct '12	160.9	28,587	12,230	115,405	
	Nov '12	143.5	22,479	11,308	93,122	
	Dec '12	142.2	22,038	11,732	75,681	11,457

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 2012 - December 2012

Unit	Month	(1)	(2)	(3)	(4)	(5)
		Forecast AKW * 10 ³	Forecast LSRF * 10 ⁶	Forecast Monthly ANOHR	Forecast AKWH * 10 ³ Generation	Weighted ANOHR Target
CRIST 7	Jan '12	365.1	140,329	10,415	192,008	
	Feb '12	343.6	125,001	10,482	227,867	
	Mar '12	354.9	132,981	10,727	251,192	
	Apr '12	383.7	154,077	10,980	263,150	
	May '12	383.8	154,152	10,658	272,046	
	Jun '12	387.7	157,093	10,652	265,890	
	Jul '12	385.7	155,583	10,655	273,371	
	Aug '12	386.6	156,262	10,653	274,041	
	Sep '12	379.7	151,082	10,835	260,444	
	Oct '12	376.2	148,479	10,421	43,008	
	Nov '12	0.0	0	-	0	
	Dec '12	325.2	112,364	10,844	59,487	10,683
SMITH 1	Jan '12	115.0	14,249	10,580	83,750	
	Feb '12	115.0	14,249	10,580	78,340	
	Mar '12	114.9	14,226	10,581	83,606	
	Apr '12	114.7	14,180	10,583	80,846	
	May '12	97.2	10,269	10,784	70,800	
	Jun '12	104.1	11,775	10,696	73,412	
	Jul '12	115.6	14,389	10,663	84,189	
	Aug '12	115.8	14,436	10,572	84,375	
	Sep '12	99.3	10,722	10,756	65,325	
	Oct '12	112.6	13,694	10,603	60,848	
	Nov '12	113.2	13,833	10,597	63,958	
	Dec '12	115.0	14,249	10,580	83,749	10,628
SMITH 2	Jan '12	111.7	13,428	10,836	52,532	
	Feb '12	110.3	13,092	10,593	44,089	
	Mar '12	109.0	12,782	10,606	58,860	
	Apr '12	108.8	12,735	10,608	58,821	
	May '12	101.8	11,114	10,448	74,168	
	Jun '12	115.2	14,282	10,549	81,259	
	Jul '12	129.2	17,884	10,466	94,190	
	Aug '12	129.5	17,964	10,464	94,404	
	Sep '12	107.1	12,334	10,626	75,520	
	Oct '12	110.7	13,187	10,351	80,656	
	Nov '12	110.1	13,044	10,456	77,756	
	Dec '12	111.3	13,331	10,583	81,139	10,533

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 2012 - December 2012

Unit	Month	(1)	(2)	(3)	(4)	(5)	(6)
		Forecast AKW * 10 ³	Forecast LSRF * 10 ⁶	Forecast BTU/LB	Forecast Monthly ANOHR	Forecast AKWH * 10 ³ Generation	Weighted ANOHR Target
DANIEL 1	Jan '12	246.5	71,559	-	11,272	34,056	
	Feb '12	231.2	61,770	-	11,146	90,483	
	Mar '12	263.2	82,354	-	10,872	169,437	
	Apr '12	296.6	104,290	-	10,648	170,746	
	May '12	313.2	115,365	-	10,555	223,575	
	Jun '12	325.6	123,712	-	10,492	224,911	
	Jul '12	336.9	131,374	-	10,614	240,473	
	Aug '12	341.2	134,304	-	10,418	243,525	
	Sep '12	304.6	109,613	-	10,602	210,429	
	Oct '12	279.9	93,264	-	10,753	199,776	
	Nov '12	242.9	69,247	-	11,037	168,029	
	Dec '12	251.0	74,456	-	10,968	179,162	10,703
DANIEL 2	Jan '12	255.2	76,337	-	10,416	184,592	
	Feb '12	231.1	60,896	-	11,000	156,372	
	Mar '12	244.6	69,513	-	10,912	176,653	
	Apr '12	280.9	93,096	-	10,714	196,595	
	May '12	302.6	107,482	-	10,614	218,835	
	Jun '12	315.4	116,068	-	10,560	220,709	
	Jul '12	336.2	130,181	-	10,334	243,147	
	Aug '12	336.7	130,523	-	10,478	243,494	
	Sep '12	304.0	108,417	-	10,422	198,553	
	Oct '12	272.7	87,716	-	10,486	146,339	
	Nov '12	233.5	62,421	-	10,983	141,888	
	Dec '12	238.1	65,353	-	10,953	172,189	10,630

NOTE: Column (4) monthly ANOHR's are determined using the values from columns (1), (2), and (3) in the target ANOHR equation on Page 2 of Schedule 1.

$$\text{Column (6)} = (\sum ((3) * (4))) / (\sum (4))$$

Summary of Target, Maximum, and Minimum
Average Net Operating Heat Rates
for January 2012 - December 2012

Unit	Target Heat Rate BTU/KWH (0 Points)	Minimum Attainable Heat Rate (+ 10 Points)	Maximum Attainable Heat Rate (- 10 Points)
CRIST 4	11,479	11,135	11,823
CRIST 5	11,471	11,127	11,815
CRIST 6	11,457	11,113	11,801
CRIST 7	10,683	10,363	11,003
SMITH 1	10,628	10,309	10,947
SMITH 2	10,533	10,217	10,849
DANIEL 1	10,703	10,382	11,024
DANIEL 2	10,630	10,311	10,949

II. DETERMINATION OF EQUIVALENT AVAILABILITY TARGETS

Calculation of
 Target Equivalent Availabilities
 for January 2012 - December 2012

Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR *	Planned Outage Hours for Jan '12 - Dec '12	Reserve Shutdown Hours for Jan '12 - Dec '12	Target Equivalent Availability **
Crist 4	0.0228	0	0	97.7
Crist 5	0.0206	0	0	97.9
Crist 6	0.0695	1,727	0	74.8
Crist 7	0.0746	1,897	0	72.6
Smith 1	0.0643	0	0	93.6
Smith 2	0.0638	552	0	87.7
Daniel 1	0.0646	888	0	84.1
Daniel 2	0.0656	0	0	93.4

* For Period July 2006 through June 2011.

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

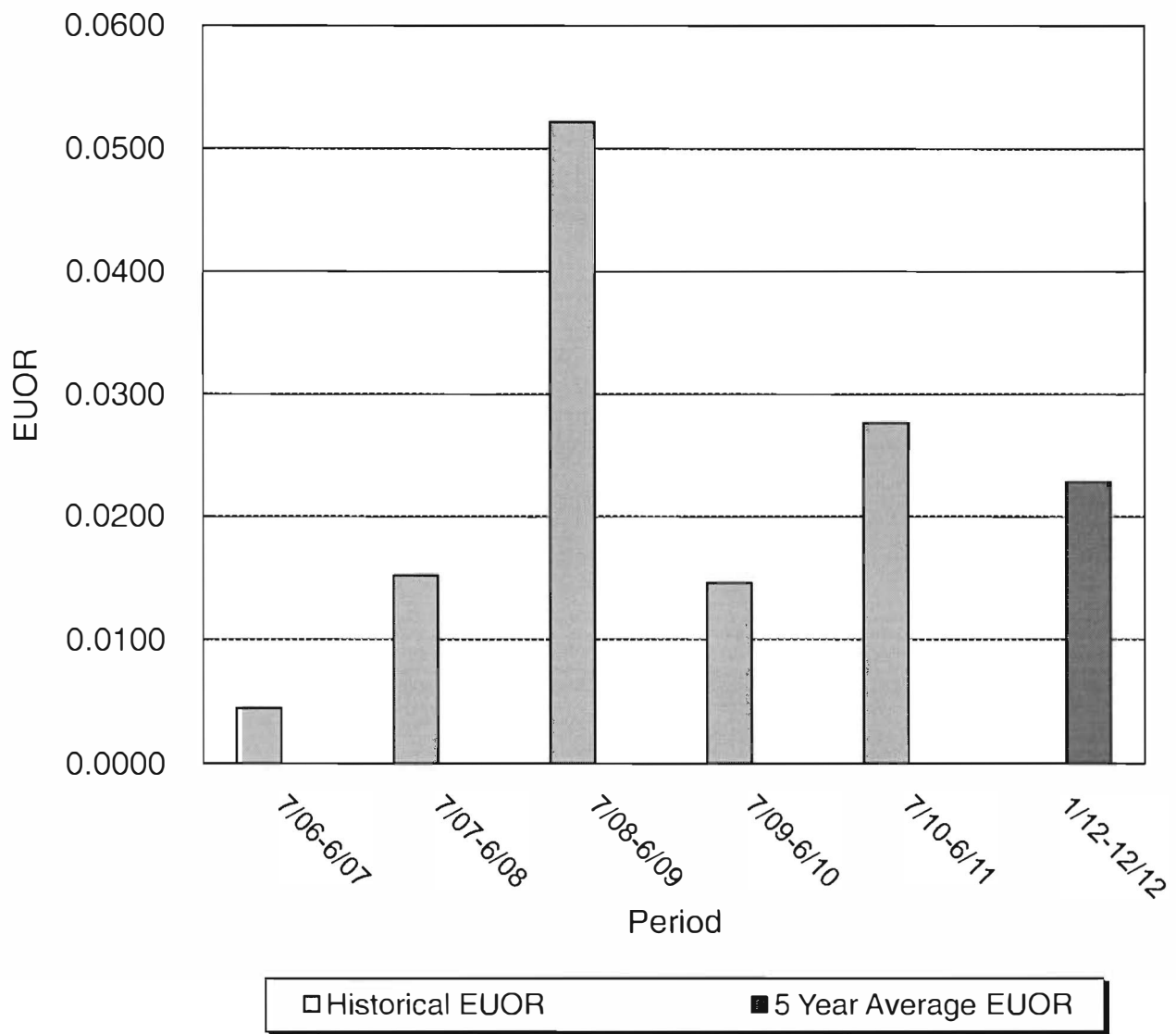
Calculation of Maximum and Minimum
 Attainable Equivalent Availabilities
 for January 2012 - December 2012

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	0.0228	0.0160	98.4	0.0331	96.7
Crist 5	0.0206	0.0144	98.6	0.0299	97.0
Crist 6	0.0695	0.0487	76.4	0.1008	72.2
Crist 7	0.0746	0.0522	74.3	0.1082	69.9
Smith 1	0.0643	0.0450	95.5	0.0932	90.7
Smith 2	0.0638	0.0447	89.5	0.0925	85.0
Daniel 1	0.0646	0.0452	85.8	0.0937	81.5
Daniel 2	0.0656	0.0459	95.4	0.0951	90.5

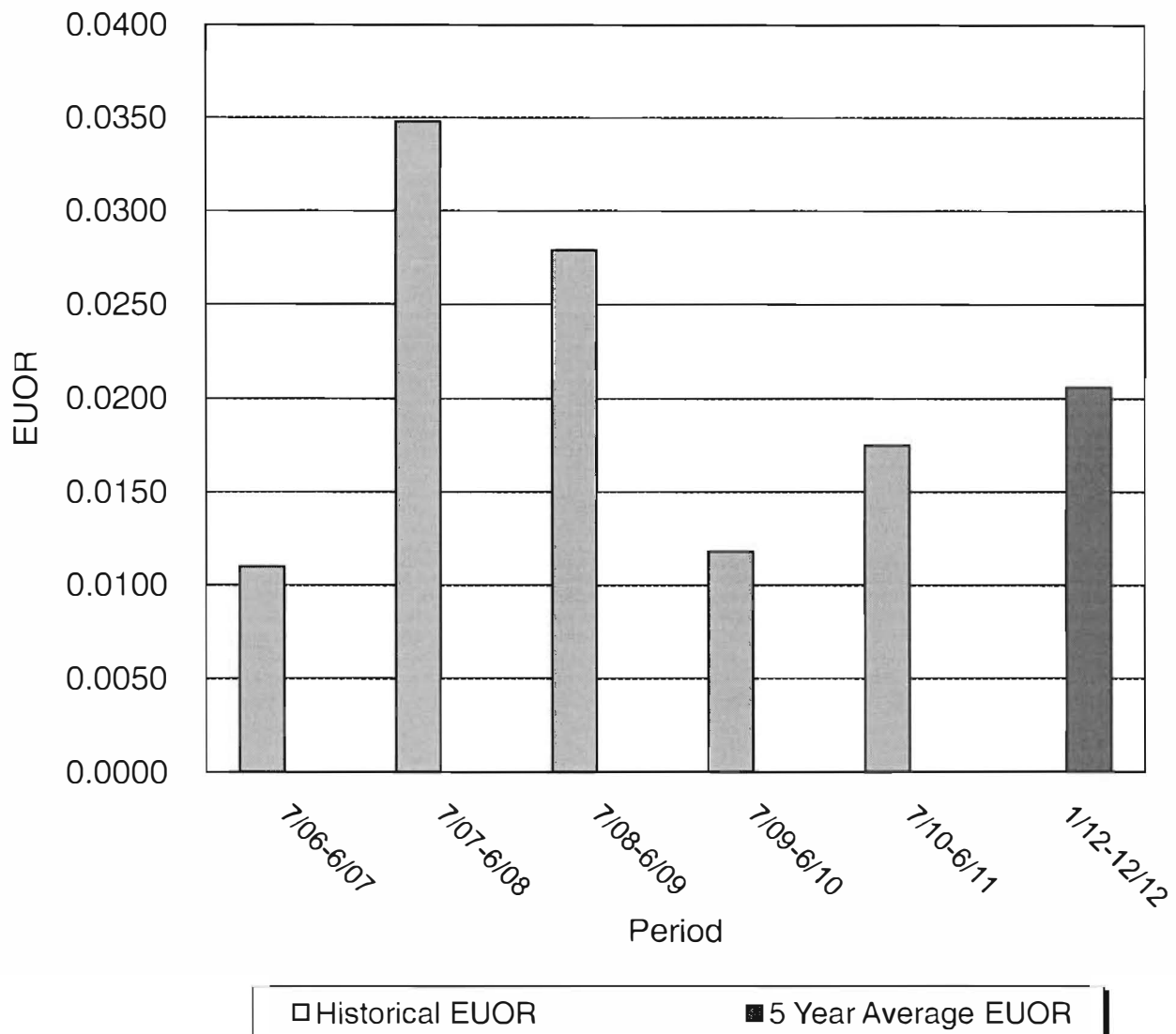
Summary of Target, Maximum, and Minimum
Equivalent Availabilities
for January 2012 - December 2012

Unit	Target Equivalent Availability (0 Points)	Maximum Attainable Equivalent Availability (+10 Points)	Minimum Attainable Equivalent Availability (-10 Points)
Crist 4	97.7	98.4	96.7
Crist 5	97.9	98.6	97.0
Crist 6	74.8	76.4	72.2
Crist 7	72.6	74.3	69.9
Smith 1	93.6	95.5	90.7
Smith 2	87.7	89.5	85.0
Daniel 1	84.1	85.8	81.5
Daniel 2	93.4	95.4	90.5

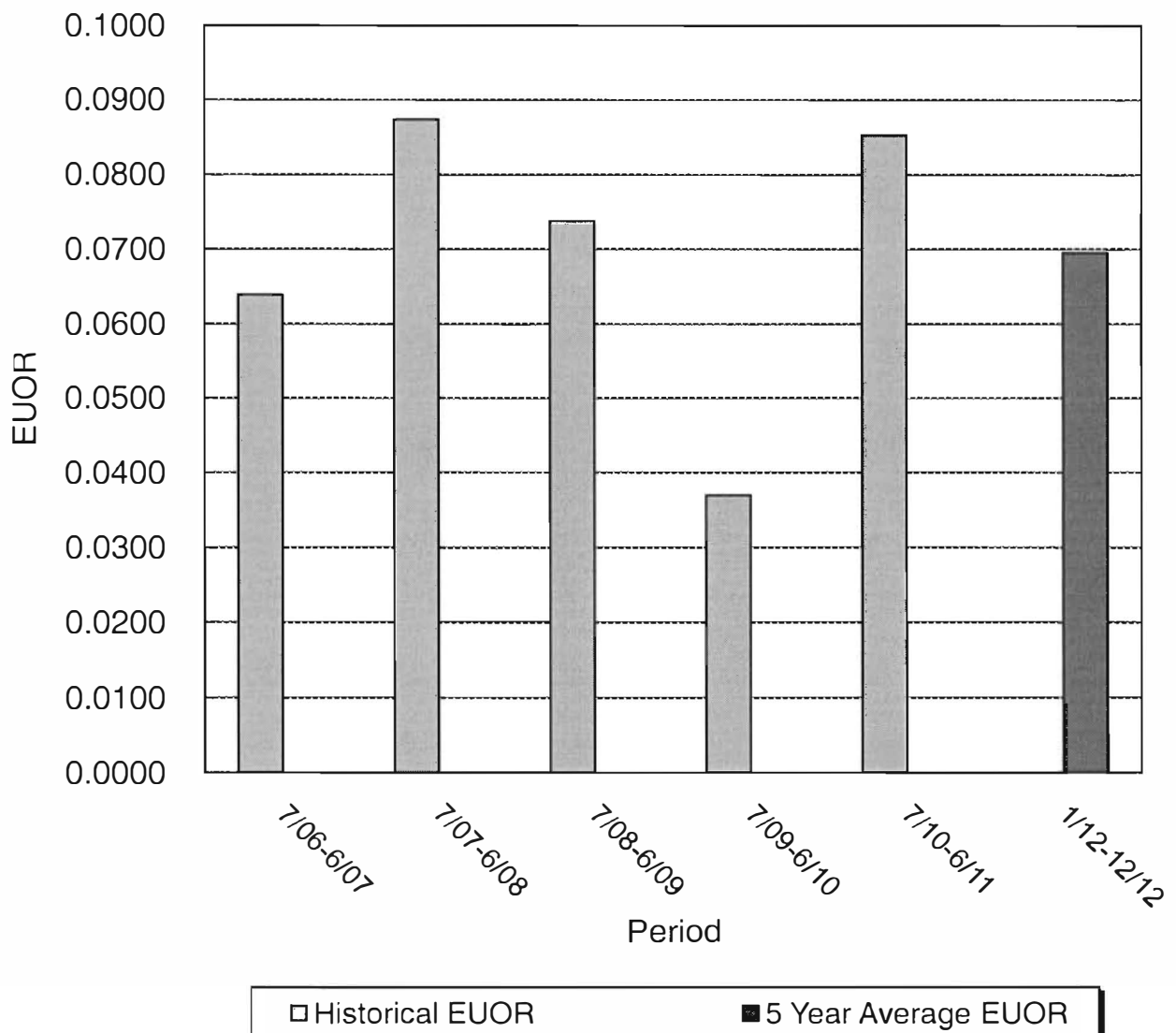
EUOR VS. PERIOD CRIST 4 January-December



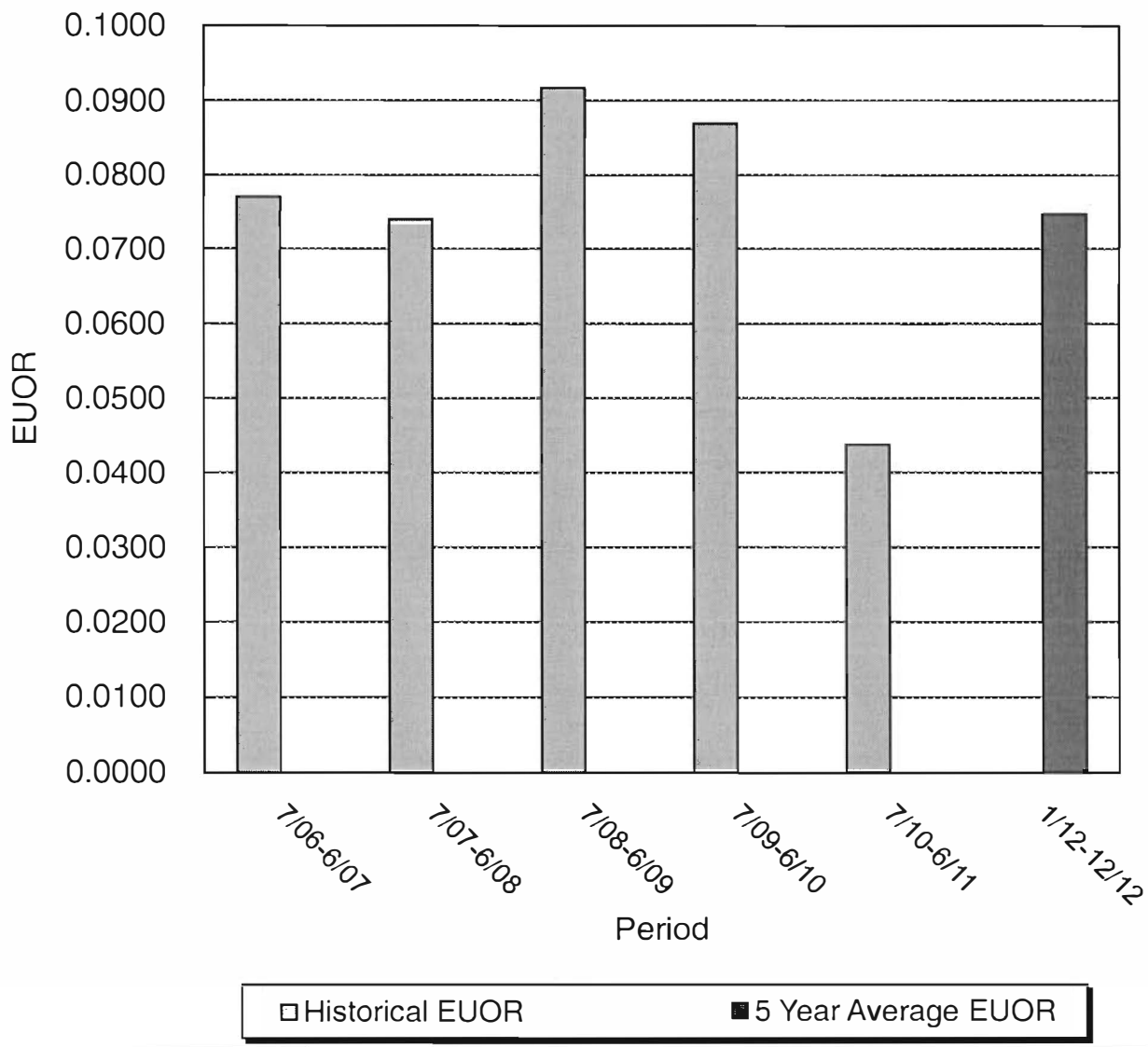
EUOR VS. PERIOD CRIST 5 January-December



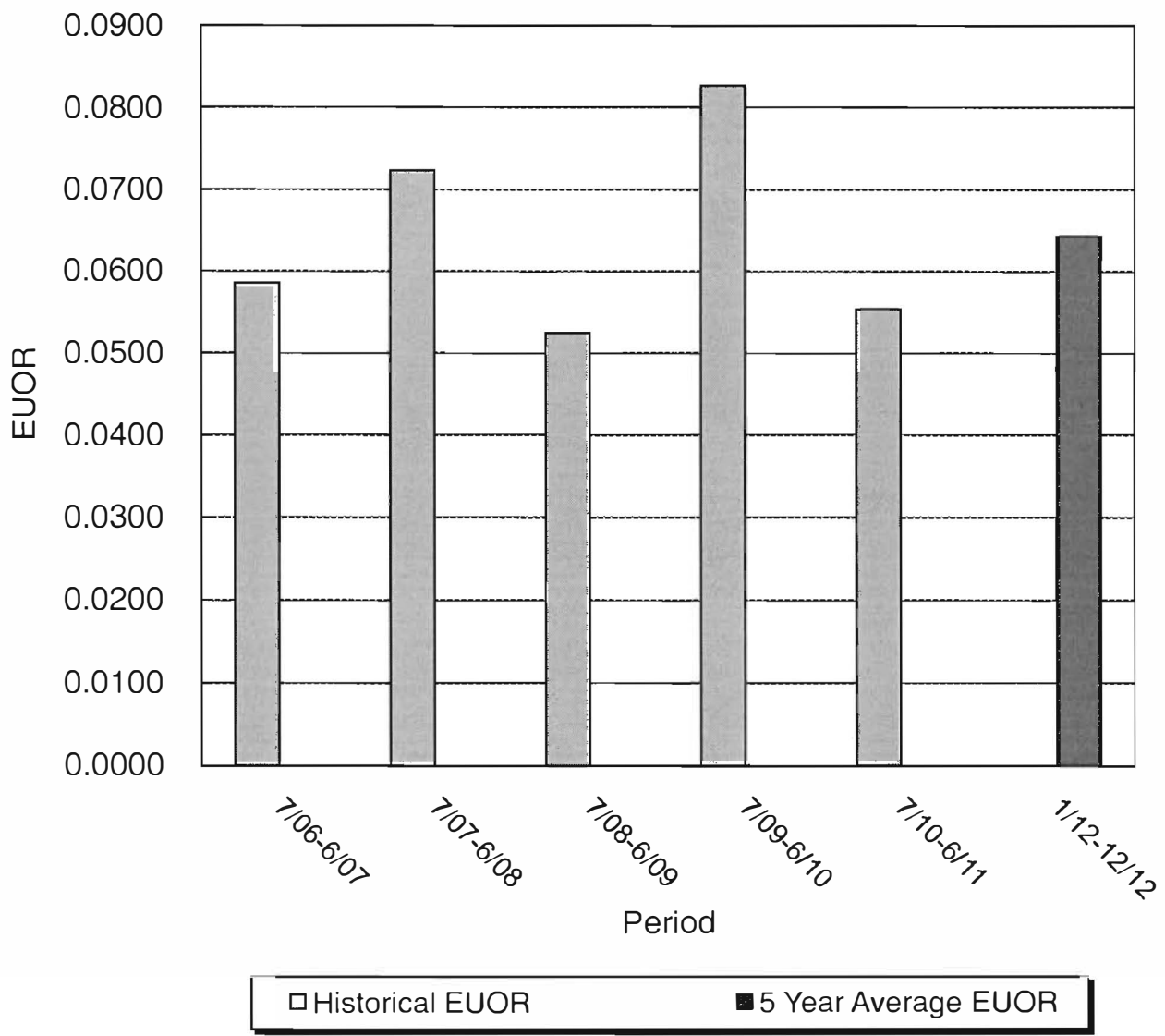
EUOR VS. PERIOD CRIST 6 January-December



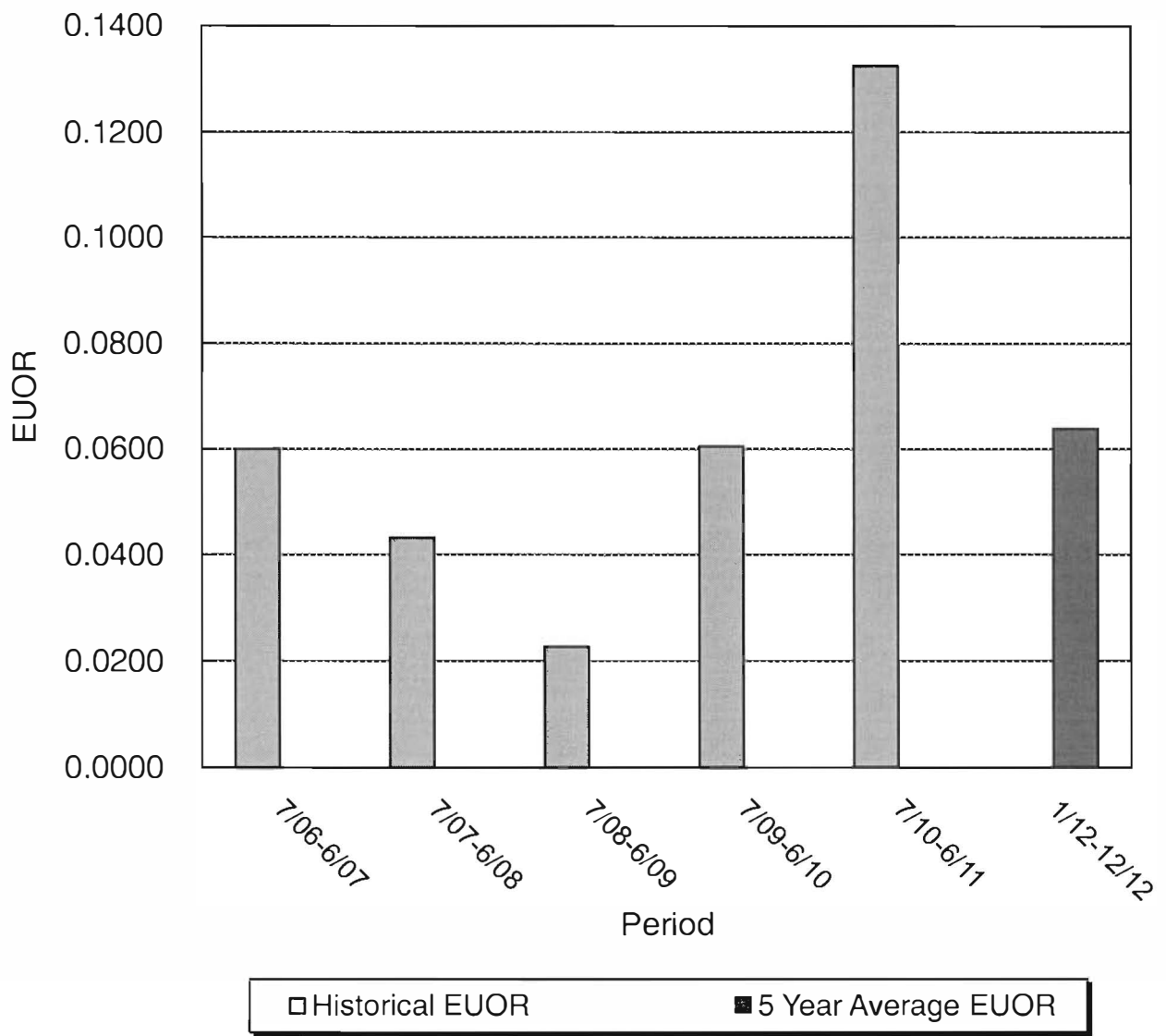
EUOR VS. PERIOD CRIST 7 January-December



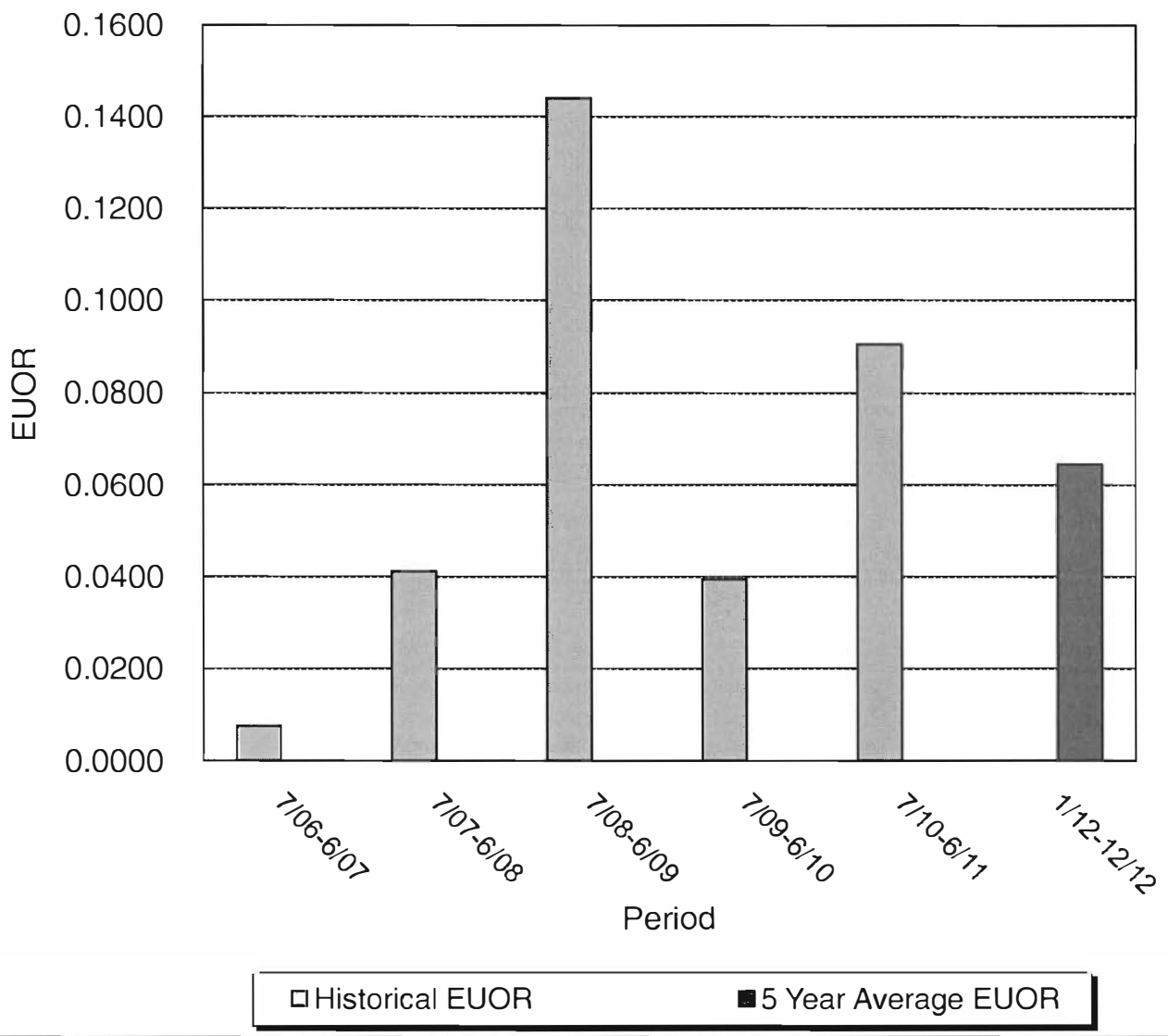
EUOR VS. PERIOD SMITH 1 January-December



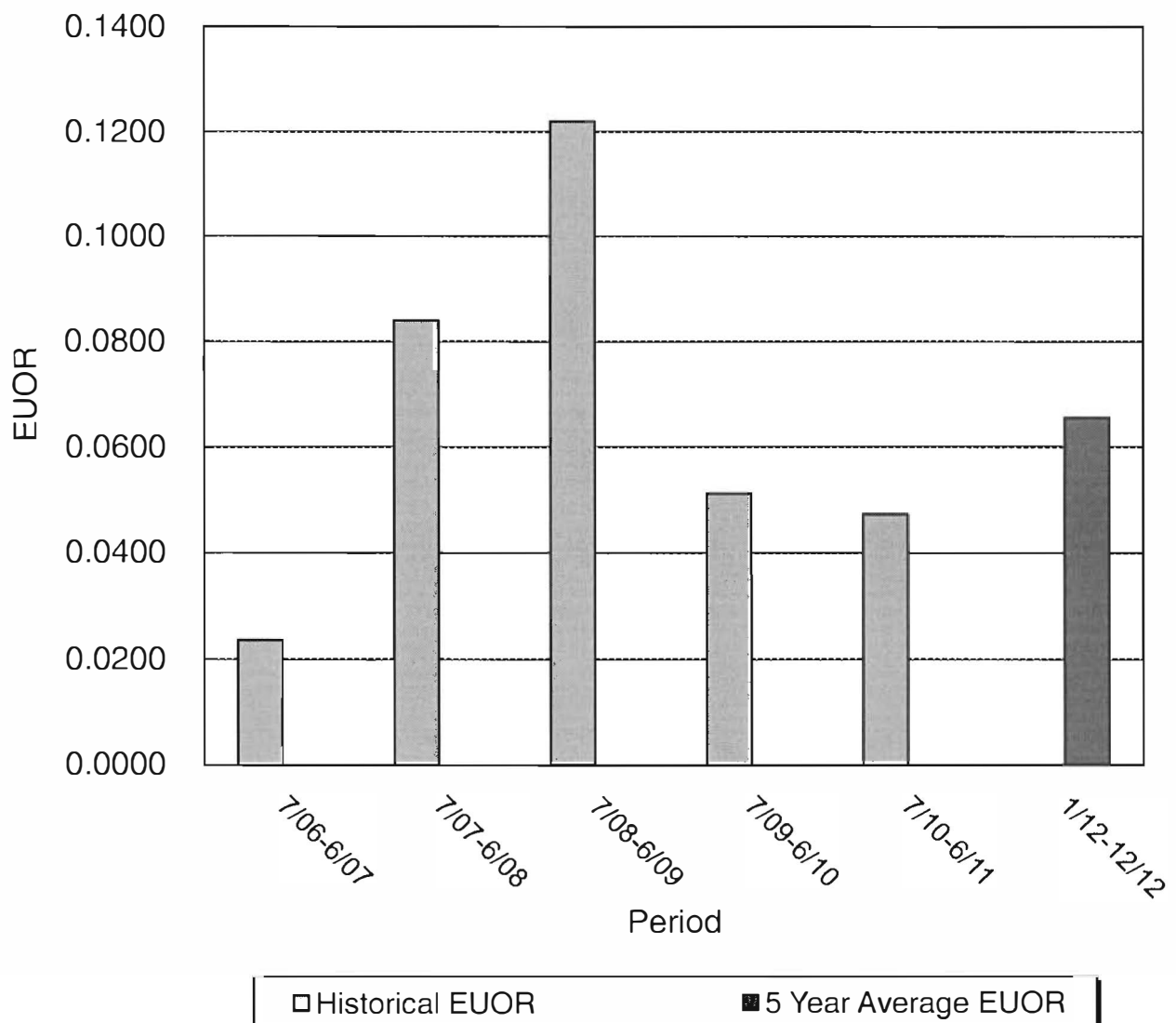
EUOR VS. PERIOD SMITH 2 January-December



EUOR VS. PERIOD DANIEL 1 January-December



EUOR VS. PERIOD DANIEL 2 January-December



III. GPIF MINIMUM FILING REQUIREMENTS FOR THE
PERIOD JANUARY 2012 - DECEMBER 2012

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Generating Performance Incentive Factor

Estimated Reward/Penalty Table

Gulf Power Company

Period of: January 2012 - December 2012

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	13538	4637
+ 9	12184	4173
+ 8	10830	3710
+ 7	9477	3246
+ 6	8123	2782
+ 5	6769	2318
+ 4	5415	1855
+ 3	4061	1391
+ 2	2708	927
+ 1	1354	464
0	0	0
- 1	-1396	-464
- 2	-2793	-927
- 3	-4189	-1391
- 4	-5585	-1855
- 5	-6982	-2318
- 6	-8378	-2782
- 7	-9774	-3246
- 8	-11170	-3710
- 9	-12567	-4173
- 10	-13963	-4637
	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 2012 - December 2012

Line 1	Beginning of Period Balance of Common Equity	\$1,148,668,029
	End of Month Balance of Common Equity:	
Line 2	Month of Jan '12	\$1,172,884,978
Line 3	Month of Feb '12	\$1,177,228,828
Line 4	Month of Mar '12	\$1,182,295,781
Line 5	Month of Apr '12	\$1,157,401,491
Line 6	Month of May '12	\$1,169,127,404
Line 7	Month of Jun '12	\$1,183,447,162
Line 8	Month of Jul '12	\$1,169,616,708
Line 9	Month of Aug '12	\$1,185,686,401
Line 10	Month of Sep '12	\$1,198,784,267
Line 11	Month of Oct '12	\$1,175,785,993
Line 12	Month of Nov '12	\$1,180,470,431
Line 13	Month of Dec '12	\$1,213,216,032
Line 14	Average Common Equity for the Period (sum of line 1 through line 13 divided by 13)	\$1,178,047,193
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)	\$4,798,112
Line 18	Jurisdictional Sales (KWH)	11,645,056,447
Line 19	Total Territorial Sales (KWH)	12,049,956,636
Line 20	Jurisdictional Separation Factor (line 18 divided by line 19)	96.6398%
Line 21	Maximum Allowed Jurisdictional Incentive Dollars (line 17 multiplied by line 20)	\$4,636,886

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GPIF Unit Performance Summary

Gulf Power Company

Period of: January 2012 - December 2012

Plant & Unit	Weighting Factor %	EAF Target %	EAF Range		Max Fuel Savings (\$000)	Max Fuel Loss (\$000)
			Max %	Min %		
Crist 4	0.0%	97.7	98.4	96.7	\$6	(\$25)
Crist 5	0.1%	97.9	98.6	97.0	\$14	(\$5)
Crist 6	1.2%	74.8	76.4	72.2	\$159	(\$276)
Crist 7	4.2%	72.6	74.3	69.9	\$572	(\$758)
Smith 1	0.4%	93.6	95.5	90.7	\$50	(\$67)
Smith 2	0.5%	87.7	89.5	85.0	\$74	(\$87)
Daniel 1	1.0%	84.1	85.8	81.5	\$131	(\$172)
Daniel 2	0.6%	93.4	95.4	90.5	\$81	(\$122)

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	4.7%	11,479	70.0	11,135	11,823	\$639	(\$639)
Crist 5	4.5%	11,471	66.7	11,127	11,815	\$613	(\$613)
Crist 6	11.5%	11,457	57.8	11,113	11,801	\$1,561	(\$1,561)
Crist 7	23.0%	10,683	80.0	10,363	11,003	\$3,119	(\$3,119)
Smith 1	12.6%	10,628	68.5	10,309	10,947	\$1,712	(\$1,712)
Smith 2	11.5%	10,533	58.1	10,217	10,849	\$1,556	(\$1,556)
Daniel 1	11.7%	10,703	57.2	10,382	11,024	\$1,584	(\$1,584)
Daniel 2	12.3%	10,630	54.9	10,311	10,949	\$1,667	(\$1,667)

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: January 2012 - December 2012

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Target			Actual Performance 1st Prior Period Jul '10 - Jun '11			Actual Performance 2nd Prior Period Jul '09 - Jun '10		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Crist 4	0.0%	0.6%	0.0000	0.0228	0.0228	0.1773	0.0111	0.0276	0.0121	0.0071	0.0146
Crist 5	0.1%	1.3%	0.0000	0.0206	0.0206	0.0411	0.0152	0.0175	0.0694	0.0105	0.0118
Crist 6	1.2%	14.6%	0.1966	0.0558	0.0695	0.2576	0.0495	0.0853	0.0626	0.0254	0.0370
Crist 7	4.2%	52.6%	0.2160	0.0585	0.0746	0.0867	0.0398	0.0438	0.1773	0.0715	0.0869
Smith 1	0.4%	4.6%	0.0000	0.0642	0.0643	0.0631	0.0494	0.0554	0.0000	0.0686	0.0827
Smith 2	0.5%	6.8%	0.0628	0.0598	0.0638	0.0932	0.0935	0.1325	0.0000	0.0519	0.0605
Daniel 1	1.0%	12.1%	0.1011	0.0581	0.0646	0.0000	0.0895	0.0905	0.1500	0.0312	0.0395
Daniel 2	0.6%	7.5%	0.0000	0.0657	0.0656	0.1655	0.0340	0.0473	0.0449	0.0485	0.0513
Weighted GPIF System Average			0.1589	0.0583	0.0698	0.1064	0.0504	0.0619	0.1248	0.0556	0.0679

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: January 2012 - December 2012

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Actual Performance 3rd Prior Period Jul '08 - Jun '09			Actual Performance 4th Prior Period Jul '07 - Jun '08			Actual Performance 5th Prior Period Jul '06 - Jun '07		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
			Crist 4	0.0%	0.6%	0.0000	0.0304	0.0522	0.1966	0.0110	0.0152
Crist 5	0.1%	1.3%	0.0000	0.0253	0.0279	0.1740	0.0274	0.0348	0.0561	0.0101	0.0110
Crist 6	1.2%	14.6%	0.1549	0.0475	0.0738	0.0694	0.0806	0.0874	0.0000	0.0639	0.0639
Crist 7	4.2%	52.6%	0.1367	0.0752	0.0917	0.0291	0.0719	0.0740	0.1105	0.0685	0.0770
Smith 1	0.4%	4.6%	0.0735	0.0367	0.0525	0.0000	0.0723	0.0723	0.1665	0.0488	0.0586
Smith 2	0.5%	6.8%	0.0272	0.0214	0.0227	0.0656	0.0403	0.0432	0.0826	0.0550	0.0600
Daniel 1	1.0%	12.1%	0.0000	0.1231	0.1440	0.1144	0.0358	0.0412	0.0213	0.0074	0.0076
Daniel 2	0.6%	7.5%	0.1352	0.0867	0.1220	0.0259	0.0818	0.0840	0.0191	0.0232	0.0236
Weighted GPIF System Average			0.1099	0.0715	0.0901	0.0490	0.0665	0.0697	0.0765	0.0542	0.0595

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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 2012 - December 2012

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Heat Rate Target	1st Prior Period	2nd Prior Period	3rd Prior Period
				Heat Rate Jul '10 - Jun '11	Heat Rate Jul '09 - Jun '10	Heat Rate Jul '08 - Jun '09
Crist 4	4.7%	5.1%	11,479	11,593	11,567	11,180
Crist 5	4.5%	4.9%	11,471	11,534	11,664	11,214
Crist 6	11.5%	12.5%	11,457	11,507	11,491	11,338
Crist 7	23.0%	25.1%	10,683	10,660	10,537	10,828
Smith 1	12.6%	13.7%	10,628	10,624	10,695	10,559
Smith 2	11.5%	12.5%	10,533	10,613	10,561	10,594
Daniel 1	11.7%	12.7%	10,703	10,515	10,704	10,924
Daniel 2	12.3%	13.4%	10,630	10,605	10,635	10,630
Weighted GPIF System Average:			10,829	10,820	10,824	10,848

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Example Calculation of Prior Season

Average Net Operating Heat Rate

Adjusted to Target Basis

Crist 6 Jul '09 - Jun '10

	Jul Jan	Aug Feb	Sep Mar	Oct Apr	Nov May	Dec Jun
1. Target Heat Rate*	11060.0 11648.0	11321.0 11747.0	11491.0 -	12230.0 11554.0	11308.0 11324.0	11732.0 11134.0
2. Target Heat Rate at Actual Conditions**	11090.0 11163.0	11724.0 11223.0	0.0 11310.0	11995.0 11653.0	11161.0 11265.0	11063.0 11132.0
3. Adjustments to Actual Heat Rate (1-2)	-30.0 485.0	-403.0 524.0	11491.0 0.0	235.0 -99.0	147.0 59.0	669.0 2.0
4. Actual Heat Rate for Prior Period	10922.0 10944.0	11824.0 11370.0	0.0 11222.0	11910.0 11463.0	11569.0 11554.0	10787.0 11297.0
5. Adjusted actual Heat Rate (4+3)	10892.0 11429.0	11421.0 11894.0	11491.0 11222.0	12145.0 11364.0	11716.0 11613.0	11456.0 11299.0
6. Forecast Net MWH Generation*	147103.2 105209.5	146893.5 55632.2	130227.8 0.0	115404.8 3654.3	93122.4 121674.0	75680.6 133055.0

7. Adjusted Actual Heat Rate
for Jul '09 - Jun '10
= (Σ ((5)*(6))) / (Σ (6))

11,491

* For the January 2012 - December 2012 time period.

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

Derivation of Weighting Factors

Gulf Power Company

Period of: January 2012 - December 2012

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	\$589,056	\$589,050	\$6	0.0%
Crist 4	ANOHR-1	\$589,056	\$588,417	\$639	4.7%
Crist 5	EA-2	\$589,056	\$589,042	\$14	0.1%
Crist 5	ANOHR-2	\$589,056	\$588,443	\$613	4.5%
Crist 6	EA-3	\$589,056	\$588,897	\$159	1.2%
Crist 6	ANOHR-3	\$589,056	\$587,495	\$1,561	11.5%
Crist 7	EA-4	\$589,056	\$588,484	\$572	4.2%
Crist 7	ANOHR-4	\$589,056	\$585,937	\$3,119	23.0%
Smith 1	EA-5	\$589,056	\$589,006	\$50	0.4%
Smith 1	ANOHR-5	\$589,056	\$587,344	\$1,712	12.6%
Smith 2	EA-6	\$589,056	\$588,982	\$74	0.5%
Smith 2	ANOHR-6	\$589,056	\$587,500	\$1,556	11.5%
Daniel 1	EA-7	\$589,056	\$588,925	\$131	1.0%
Daniel 1	ANOHR-7	\$589,056	\$587,472	\$1,584	11.7%
Daniel 2	EA-8	\$589,056	\$588,975	\$81	0.6%
Daniel 2	ANOHR-8	\$589,056	\$587,389	\$1,667	12.3%

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

(2) All other unit performance indicators at target.

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

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2012 - December 2012

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	6	98.40	+ 10	639	11,135
+ 9	5	98.33	+ 9	575	11,162
+ 8	5	98.26	+ 8	511	11,189
+ 7	4	98.19	+ 7	447	11,216
+ 6	4	98.12	+ 6	383	11,243
+ 5	3	98.05	+ 5	320	11,270
+ 4	2	97.98	+ 4	256	11,296
+ 3	2	97.91	+ 3	192	11,323
+ 2	1	97.84	+ 2	128	11,350
+ 1	1	97.77	+ 1	64	11,377
				0	11,404
0	0	97.70	0	0	11,479
				0	11,554
- 1	(3)	97.60	- 1	(64)	11,581
- 2	(5)	97.50	- 2	(128)	11,608
- 3	(8)	97.40	- 3	(192)	11,635
- 4	(10)	97.30	- 4	(256)	11,662
- 5	(13)	97.20	- 5	(320)	11,689
- 6	(15)	97.10	- 6	(383)	11,715
- 7	(18)	97.00	- 7	(447)	11,742
- 8	(20)	96.90	- 8	(511)	11,769
- 9	(23)	96.80	- 9	(575)	11,796
- 10	(25)	96.70	- 10	(639)	11,823
Weighting Factor:		0.000	Weighting Factor:		0.047

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2012 - December 2012

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	14	98.60	+ 10	613	11,127
+ 9	13	98.53	+ 9	552	11,154
+ 8	11	98.46	+ 8	490	11,181
+ 7	10	98.39	+ 7	429	11,208
+ 6	8	98.32	+ 6	368	11,235
+ 5	7	98.25	+ 5	307	11,262
+ 4	6	98.18	+ 4	245	11,288
+ 3	4	98.11	+ 3	184	11,315
+ 2	3	98.04	+ 2	123	11,342
+ 1	1	97.97	+ 1	61	11,369
0	0	97.90	0	0	11,396
- 1	(1)	97.81	- 1	(61)	11,471
- 2	(1)	97.72	- 2	(123)	11,546
- 3	(2)	97.63	- 3	(184)	11,573
- 4	(2)	97.54	- 4	(245)	11,600
- 5	(3)	97.45	- 5	(307)	11,627
- 6	(3)	97.36	- 6	(368)	11,654
- 7	(4)	97.27	- 7	(429)	11,681
- 8	(4)	97.18	- 8	(490)	11,707
- 9	(5)	97.09	- 9	(552)	11,734
- 10	(5)	97.00	- 10	(613)	11,761
Weighting Factor:		0.001	Weighting Factor:		0.045

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2012 - December 2012

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	159	76.40	+ 10	1,561	11,113
+ 9	143	76.24	+ 9	1,405	11,140
+ 8	127	76.08	+ 8	1,249	11,167
+ 7	111	75.92	+ 7	1,093	11,194
+ 6	95	75.76	+ 6	937	11,221
+ 5	80	75.60	+ 5	781	11,248
+ 4	64	75.44	+ 4	624	11,274
+ 3	48	75.28	+ 3	468	11,301
+ 2	32	75.12	+ 2	312	11,328
+ 1	16	74.96	+ 1	156	11,355
				0	11,382
0	0	74.80	0	0	11,457
				0	11,532
- 1	(28)	74.54	- 1	(156)	11,559
- 2	(55)	74.28	- 2	(312)	11,586
- 3	(83)	74.02	- 3	(468)	11,613
- 4	(110)	73.76	- 4	(624)	11,640
- 5	(138)	73.50	- 5	(781)	11,667
- 6	(166)	73.24	- 6	(937)	11,693
- 7	(193)	72.98	- 7	(1,093)	11,720
- 8	(221)	72.72	- 8	(1,249)	11,747
- 9	(248)	72.46	- 9	(1,405)	11,774
- 10	(276)	72.20	- 10	(1,561)	11,801
Weighting Factor:		0.012	Weighting Factor:		0.115

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2012 - December 2012

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	572	74.30	+ 10	3,119	10,363
+ 9	515	74.13	+ 9	2,807	10,388
+ 8	458	73.96	+ 8	2,495	10,412
+ 7	400	73.79	+ 7	2,183	10,437
+ 6	343	73.62	+ 6	1,871	10,461
+ 5	286	73.45	+ 5	1,560	10,486
+ 4	229	73.28	+ 4	1,248	10,510
+ 3	172	73.11	+ 3	936	10,535
+ 2	114	72.94	+ 2	624	10,559
+ 1	57	72.77	+ 1	312	10,584
				0	10,608
0	0	72.60	0	0	10,683
				0	10,758
- 1	(76)	72.33	- 1	(312)	10,783
- 2	(152)	72.06	- 2	(624)	10,807
- 3	(227)	71.79	- 3	(936)	10,832
- 4	(303)	71.52	- 4	(1,248)	10,856
- 5	(379)	71.25	- 5	(1,560)	10,881
- 6	(455)	70.98	- 6	(1,871)	10,905
- 7	(531)	70.71	- 7	(2,183)	10,930
- 8	(606)	70.44	- 8	(2,495)	10,954
- 9	(682)	70.17	- 9	(2,807)	10,979
- 10	(758)	69.90	- 10	(3,119)	11,003
Weighting Factor:		0.042	Weighting Factor:		0.230

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2012 - December 2012

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	50	95.50	+ 10	1,712	10,309
+ 9	45	95.31	+ 9	1,541	10,333
+ 8	40	95.12	+ 8	1,370	10,358
+ 7	35	94.93	+ 7	1,198	10,382
+ 6	30	94.74	+ 6	1,027	10,407
+ 5	25	94.55	+ 5	856	10,431
+ 4	20	94.36	+ 4	685	10,455
+ 3	15	94.17	+ 3	514	10,480
+ 2	10	93.98	+ 2	342	10,504
+ 1	5	93.79	+ 1	171	10,529
0	0	93.60	0	0	10,553
- 1	(7)	93.31	- 1	(171)	10,628
- 2	(13)	93.02	- 2	(342)	10,703
- 3	(20)	92.73	- 3	(514)	10,727
- 4	(27)	92.44	- 4	(685)	10,752
- 5	(34)	92.15	- 5	(856)	10,776
- 6	(40)	91.86	- 6	(1,027)	10,801
- 7	(47)	91.57	- 7	(1,198)	10,825
- 8	(54)	91.28	- 8	(1,370)	10,849
- 9	(60)	90.99	- 9	(1,541)	10,874
- 10	(67)	90.70	- 10	(1,712)	10,898
Weighting Factor:		0.004	Weighting Factor:		0.126

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2012 - December 2012

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	74	89.50	+ 10	1,556	10,217
+ 9	67	89.32	+ 9	1,400	10,241
+ 8	59	89.14	+ 8	1,245	10,265
+ 7	52	88.96	+ 7	1,089	10,289
+ 6	44	88.78	+ 6	934	10,313
+ 5	37	88.60	+ 5	778	10,338
+ 4	30	88.42	+ 4	622	10,362
+ 3	22	88.24	+ 3	467	10,386
+ 2	15	88.06	+ 2	311	10,410
+ 1	7	87.88	+ 1	156	10,434
0	0	87.70	0	0	10,458
- 1	(9)	87.43	- 1	(156)	10,533
- 2	(17)	87.16	- 2	(311)	10,608
- 3	(26)	86.89	- 3	(467)	10,632
- 4	(35)	86.62	- 4	(622)	10,656
- 5	(44)	86.35	- 5	(778)	10,680
- 6	(52)	86.08	- 6	(934)	10,704
- 7	(61)	85.81	- 7	(1,089)	10,729
- 8	(70)	85.54	- 8	(1,245)	10,753
- 9	(78)	85.27	- 9	(1,400)	10,777
- 10	(87)	85.00	- 10	(1,556)	10,801
Weighting Factor:		0.005	Weighting Factor:		0.115

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2012 - December 2012

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	131	85.80	+ 10	1,584	10,382
+ 9	118	85.63	+ 9	1,426	10,407
+ 8	105	85.46	+ 8	1,267	10,431
+ 7	92	85.29	+ 7	1,109	10,456
+ 6	79	85.12	+ 6	950	10,480
+ 5	66	84.95	+ 5	792	10,505
+ 4	52	84.78	+ 4	634	10,530
+ 3	39	84.61	+ 3	475	10,554
+ 2	26	84.44	+ 2	317	10,579
+ 1	13	84.27	+ 1	158	10,603
				0	10,628
0	0	84.10	0	0	10,703
				0	10,778
- 1	(17)	83.84	- 1	(158)	10,803
- 2	(34)	83.58	- 2	(317)	10,827
- 3	(52)	83.32	- 3	(475)	10,852
- 4	(69)	83.06	- 4	(634)	10,876
- 5	(86)	82.80	- 5	(792)	10,901
- 6	(103)	82.54	- 6	(950)	10,926
- 7	(120)	82.28	- 7	(1,109)	10,950
- 8	(138)	82.02	- 8	(1,267)	10,975
- 9	(155)	81.76	- 9	(1,426)	10,999
- 10	(172)	81.50	- 10	(1,584)	11,024
Weighting Factor:		0.010	Weighting Factor:		0.117

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2012 - December 2012

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	81	95.40	+ 10	1,667	10,311
+ 9	73	95.20	+ 9	1,500	10,335
+ 8	65	95.00	+ 8	1,334	10,360
+ 7	57	94.80	+ 7	1,167	10,384
+ 6	49	94.60	+ 6	1,000	10,409
+ 5	41	94.40	+ 5	834	10,433
+ 4	32	94.20	+ 4	667	10,457
+ 3	24	94.00	+ 3	500	10,482
+ 2	16	93.80	+ 2	333	10,506
+ 1	8	93.60	+ 1	167	10,531
				0	10,555
0	0	93.40	0	0	10,630
				0	10,705
- 1	(12)	93.11	- 1	(167)	10,729
- 2	(24)	92.82	- 2	(333)	10,754
- 3	(37)	92.53	- 3	(500)	10,778
- 4	(49)	92.24	- 4	(667)	10,803
- 5	(61)	91.95	- 5	(834)	10,827
- 6	(73)	91.66	- 6	(1,000)	10,851
- 7	(85)	91.37	- 7	(1,167)	10,876
- 8	(98)	91.08	- 8	(1,334)	10,900
- 9	(110)	90.79	- 9	(1,500)	10,925
- 10	(122)	90.50	- 10	(1,667)	10,949
Weighting Factor:		0.006	Weighting Factor:		0.123

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ESTIMATED UNIT PERFORMANCE DATA

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

CRIST 4	Jan '12	Feb '12	Mar '12	Apr '12	May '12	Jun '12	
1. EAF (%)	83.1	99.1	99.1	99.1	99.1	99.1	
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3. EUOF (%)	16.9	0.9	0.9	0.9	0.9	0.9	
4. EUOR (%)	16.9	0.9	0.9	0.9	0.9	0.9	
5. PH	744.0	696.0	743.0	720.0	744.0	720.0	
6. SH	618.6	690.0	736.6	713.8	737.6	713.8	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	125.4	6.0	6.4	6.2	6.4	6.2	
9. FOH	0.0	0.0	0.0	0.0	0.0	0.0	
10. FOH & EFOH	5.4	6.0	6.4	6.2	6.4	6.2	
11. MOH & EMOH	120.0	0.0	0.0	0.0	0.0	0.0	
12. Oper MBtu	347258.0	379771.0	405000.0	425634.0	459869.0	462633.0	
13. Net Gen (MWH)	29576.5	32110.5	34243.7	37005.2	40567.1	41288.1	
14. ANOHR (Btu/KWH)	11741.0	11827.0	11827.0	11502.0	11336.0	11205.0	
15. NOF %	63.7	62.1	62.0	69.1	73.3	77.1	
16. NPC (MW)	75.0	75.0	75.0	75.0	75.0	75.0	
19. ANOHR Equation	$10^6 / AKW * [147.87 + 27.22 * JUL - 19.30 * NOV]$ +8,647						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

CRIST 4	Jul '12	Aug '12	Sep '12	Oct '12	Nov '12	Dec '12	Total
1. EAF (%)	99.1	99.1	98.9	98.9	99.0	99.1	97.7
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	0.9	0.9	1.1	1.1	1.0	0.9	2.3
4. EUOR (%)	0.9	0.9	1.1	1.1	1.0	0.9	2.3
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	737.6	737.6	713.8	737.6	714.8	737.6	8589.0
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	6.4	6.4	6.2	6.4	6.2	6.4	195.0
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. FOH & EFOH	6.4	6.4	8.2	8.4	7.2	6.4	80.0
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	120.0
12. Oper MBtu	505055.0	486015.0	455014.0	448024.0	389989.0	411271.0	5175533.0
13. Net Gen (MWH)	43483.0	43592.7	40409.8	39190.3	34469.6	34951.2	450887.7
14. ANOHR (Btu/KWH)	11615.0	11149.0	11260.0	11432.0	11314.0	11767.0	11479.0
15. NOF %	78.6	78.8	75.5	70.8	64.3	63.2	70.0
16. NPC (MW)	75.0	75.0	75.0	75.0	75.0	75.0	75.0
19. ANOHR Equation	$10 * \frac{6}{AKW} * [147.87 + 27.22 * JUL - 19.30 * NOV]$ + 8,647						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

CRIST 5	Jan '12	Feb '12	Mar '12	Apr '12	May '12	Jun '12	
1. EAF (%)	92.9	88.9	98.9	99.4	99.4	99.4	
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3. EUOF (%)	7.1	11.1	1.1	0.6	0.6	0.6	
4. EUOR (%)	7.1	11.1	1.1	0.6	0.6	0.6	
5. PH	744.0	696.0	743.0	720.0	744.0	720.0	
6. SH	691.5	620.0	738.2	715.3	739.2	715.3	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	52.5	76.0	4.8	4.7	4.8	4.7	
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	
10. FOH & EPOH	4.5	5.0	7.8	4.7	4.8	4.7	
11. MOH & EMOH	48.0	72.0	0.0	0.0	0.0	0.0	
12. Oper MBtu	367328.0	325927.0	384354.0	381454.0	427114.0	437803.0	
13. Net Gen (MWH)	31411.7	27752.6	32555.8	34073.6	37777.6	39374.3	
14. ANOHR (Btu/KWH)	11694.0	11744.0	11806.0	11195.0	11306.0	11119.0	
15. NOF %	60.6	59.7	58.8	63.5	68.1	73.4	
16. NPC (MW)	75.0	75.0	75.0	75.0	75.0	75.0	
19. ANOHR Equation	$10\% / AKW * [332.39 - 15.75 * APR + 18.08 * JUL + 20.39 * AUG + 23.68 * SEP]$ $+ 1,068 + 0.06941 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

CRIST 5	Jul '12	Aug '12	Sep '12	Oct '12	Nov '12	Dec '12	Total
1. EAF (%)	99.4	99.4	99.4	99.4	99.2	99.4	97.9
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	0.6	0.6	0.6	0.6	0.8	0.6	2.1
4. EUOR (%)	0.6	0.6	0.6	0.6	0.8	0.6	2.1
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	739.2	739.2	715.3	739.2	716.3	739.2	8607.9
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	4.8	4.8	4.7	4.8	4.7	4.8	176.1
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. FOH & EFOH	4.8	4.8	4.7	4.8	5.7	4.8	61.1
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	120.0
12. Oper MBtu	481539.0	481772.0	451541.0	420624.0	383982.0	392806.0	4936244.0
13. Net Gen (MWH)	42448.8	42290.4	39010.0	37013.7	32993.8	33613.4	430315.7
14. ANOHR (Btu/KWH)	11344.0	11392.0	11575.0	11364.0	11638.0	11686.0	11471.0
15. NOF %	76.6	76.3	72.7	66.8	61.4	60.6	66.7
16. NPC (MW)	75.0	75.0	75.0	75.0	75.0	75.0	75.0
19. ANOHR Equation	$10^6 / AKW * [332.39 - 15.75 * APR + 18.08 * JUL + 20.39 * AUG + 23.68 * SEP]$ $+ 1,068 + 0.06941 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

CRIST 6	Jan '12	Feb '12	Mar '12	Apr '12	May '12	Jun '12	
1. EAF (%)	96.1	56.5	0.0	3.3	96.4	96.4	
2. POF (%)	0.0	41.4	100.0	96.7	0.0	0.0	
3. EUOF (%)	3.9	2.1	0.0	0.0	3.6	3.6	
4. EUOR (%)	3.9	3.6	0.0	0.0	3.6	3.6	
5. PH	744.0	696.0	743.0	720.0	744.0	720.0	
6. SH	717.3	393.4	0.0	24.0	717.2	694.1	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	26.7	302.6	743.0	696.0	26.8	25.9	
9. POH	0.0	288.0	743.0	696.0	0.0	0.0	
10. FOH & EFOH	28.7	14.6	0.0	0.0	26.8	25.9	
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
12. Oper MBtu	1225480.0	653511.0	0.0	42222.0	1377836.0	1481434.0	
13. Net Gen (MWH)	105209.5	55632.2	0.0	3654.3	121674.0	133055.0	
14. ANOHR (Btu/KWH)	11648.0	11747.0	-	11554.0	11324.0	11134.0	
15. NOF %	50.4	48.6	0.0	52.3	56.5	63.9	
16. NPC (MW)	291.0	291.0	291.0	291.0	300.0	300.0	
19. ANOHR Equation	$10^6 / \text{AKW} * [803.77 + 53.22 * \text{AUG} + 61.67 * \text{SEP} + 128.86 * \text{OCT} - 57.18 * \text{NOV}]$ $+ 3.660 + 0.01561 * \text{LSRF} / \text{AKW}$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

CRIST 6	Jul '12	Aug '12	Sep '12	Oct '12	Nov '12	Dec '12	Total
1. EAF (%)	96.4	96.4	96.4	96.1	89.9	71.4	74.8
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	19.7
3. EUOF (%)	3.6	3.6	3.6	3.9	10.1	28.6	5.6
4. EUOR (%)	3.6	3.6	3.6	3.9	10.1	28.6	6.9
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	717.2	717.2	694.1	717.2	648.8	532.1	6572.8
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	26.8	26.8	25.9	26.8	72.2	211.9	2211.2
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	1727.0
10. FOH & EFOH	26.8	26.8	25.9	28.8	25.2	20.9	250.2
11. MOH & EMOH	0.0	0.0	0.0	0.0	48.0	192.0	240.0
12. Oper MBtu	1626961.0	1662981.0	1496448.0	1411401.0	1053028.0	887885.0	12919187.0
13. Net Gen (MWH)	147103.2	146893.5	130227.8	115404.8	93122.4	75680.6	1127657.3
14. ANOHR (Btu/KWH)	11060.0	11321.0	11491.0	12230.0	11308.0	11732.0	11457.0
15. NOF %	68.4	68.3	62.5	53.6	47.8	47.4	57.8
16. NPC (MW)	300.0	300.0	300.0	300.0	300.0	300.0	297.0
19. ANOHR Equation	$10^6 / AKW * [803.77 + 53.22 * AUG + 61.67 * SEP + 128.86 * OCT - 57.18 * NOV]$ $+ 3,660 + 0.01561 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

CRIST 7	Jan '12	Feb '12	Mar '12	Apr '12	May '12	Jun '12	
1. EAF (%)	70.4	95.1	95.3	95.0	95.3	95.3	
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3. EUOF (%)	29.6	4.9	4.7	5.0	4.7	4.7	
4. EUOR (%)	29.6	4.9	4.7	5.0	4.7	4.7	
5. PH	744.0	696.0	743.0	720.0	744.0	720.0	
6. SH	525.9	663.1	707.8	685.9	708.8	685.9	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	218.1	32.9	35.2	34.1	35.2	34.1	
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	
10. FOH & EFOH	28.1	33.9	35.2	36.1	35.2	34.1	
11. MOH & EMOH	192.0	0.0	0.0	0.0	0.0	0.0	
12. Oper MBtu	1999767.0	2388501.0	2694541.0	2889391.0	2899471.0	2832256.0	
13. Net Gen (MWH)	192008.4	227866.9	251192.4	263150.4	272046.4	265889.6	
14. ANOHR (Btu/KWH)	10415.0	10482.0	10727.0	10980.0	10658.0	10652.0	
15. NOF %	78.5	73.9	76.3	82.5	82.5	83.4	
16. NPC (MW)	465.0	465.0	465.0	465.0	465.0	465.0	
19. ANOHR Equation	$10^6 / AKW * [1509.41 - 103.64 * JAN - 97.39 * FEB + 123.28 * APR + 64.40 * SEP - 94.54 * OCT - 86.63 * NOV]$ $+ 2,982 + 0.00932 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

CRIST 7	Jul '12	Aug '12	Sep '12	Oct '12	Nov '12	Dec '12	Total
1. EAF (%)	95.3	95.3	95.3	15.4	0.0	24.6	72.6
2. POF (%)	0.0	0.0	0.0	83.9	100.0	74.2	21.6
3. EUOF (%)	4.7	4.7	4.7	0.7	0.0	1.2	5.9
4. EUOR (%)	4.7	4.7	4.7	4.7	0.0	4.7	7.5
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	708.8	708.8	685.9	114.3	0.0	182.9	6377.9
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	35.2	35.2	34.1	629.7	721.0	561.1	2406.1
9. POH	0.0	0.0	0.0	624.0	721.0	552.0	1897.0
10. FOH & EFOH	35.2	35.2	34.1	5.7	0.0	9.1	322.1
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	192.0
12. Oper MBtu	2912768.0	2919355.0	2821906.0	448187.0	0.0	645077.0	25451220.0
13. Net Gen (MWH)	273371.0	274040.6	260443.6	43008.1	0.0	59487.0	2382504.4
14. ANOHR (Btu/KWH)	10655.0	10653.0	10835.0	10421.0	-	10844.0	10683.0
15. NOF %	82.9	83.2	81.7	79.7	0.0	68.9	80.0
16. NPC (MW)	465.0	465.0	465.0	472.0	472.0	472.0	466.8
19. ANOHR Equation	$10^6 / AKW * [1509.41 - 103.64 * JAN - 97.39 * FEB + 123.28 * APR + 64.40 * SEP - 94.54 * OCT - 86.63 * NOV]$ $+ 2,982 + 0.00932 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

	SMITH 1	Jan '12	Feb '12	Mar '12	Apr '12	May '12	Jun '12	
1.	EAF (%)	97.6	97.6	97.8	97.9	97.9	97.9	
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3.	EUOF (%)	2.4	2.4	2.2	2.1	2.1	2.1	
4.	EUOR (%)	2.4	2.4	2.2	2.1	2.1	2.1	
5.	PH	744.0	696.0	743.0	720.0	744.0	720.0	
6.	SH	728.5	681.5	727.5	705.0	728.5	705.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	15.5	14.5	15.5	15.0	15.5	15.0	
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	17.5	16.5	16.5	15.0	15.5	15.0	
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	886075.0	828834.0	884635.0	855593.0	763508.0	785214.0	
13.	Net Gen (MWH)	83750.0	78339.7	83606.0	80846.0	70800.1	73411.9	
14.	ANOHR (Btu/KWH)	10580.0	10580.0	10581.0	10583.0	10784.0	10696.0	
15.	NOF %	71.0	71.0	70.9	70.8	60.0	64.3	
16.	NPC (MW)	162.0	162.0	162.0	162.0	162.0	162.0	
19.	ANOHR Equation	10% / AKW * [128.19 + 10.27 * JUL] + 9,465						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

SMITH 1	Jul '12	Aug '12	Sep '12	Oct '12	Nov '12	Dec '12	Total
1. EAF (%)	97.9	97.9	91.4	72.6	78.4	97.9	93.6
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	2.1	2.1	8.6	27.4	21.6	2.1	6.4
4. EUOR (%)	2.1	2.1	8.6	27.4	21.6	2.1	6.4
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	728.5	728.5	658.0	540.5	565.0	728.5	8224.9
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	15.5	15.5	62.0	203.5	156.0	15.5	559.1
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. FOH & EFOH	15.5	15.5	14.0	11.5	12.0	15.5	180.1
11. MOH & EMOH	0.0	0.0	48.0	192.0	144.0	0.0	384.0
12. Oper MBtu	897705.0	892007.0	702640.0	645171.0	677763.0	886059.0	9705204.0
13. Net Gen (MWH)	84188.8	84374.5	65325.4	60848.0	63958.0	83748.5	913196.9
14. ANOHR (Btu/KWH)	10663.0	10572.0	10756.0	10603.0	10597.0	10580.0	10628.0
15. NOF %	71.3	71.5	61.3	69.5	69.9	71.0	68.5
16. NPC (MW)	162.0	162.0	162.0	162.0	162.0	162.0	162.0
19. ANOHR Equation	$10^6 / AKW * [128.19 + 10.27 * JUL]$ + 9,465						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

SMITH 2	Jan '12	Feb '12	Mar '12	Apr '12	May '12	Jun '12	
1. EAF (%)	63.2	57.4	72.6	75.1	98.0	98.0	
2. POF (%)	35.5	41.4	0.0	0.0	0.0	0.0	
3. EUOF (%)	1.3	1.2	27.4	24.9	2.0	2.0	
4. EUOR (%)	2.0	2.0	27.4	24.9	2.0	2.0	
5. PH	744.0	696.0	743.0	720.0	744.0	720.0	
6. SH	470.2	399.7	539.8	540.8	728.9	705.4	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	273.8	296.3	203.2	179.2	15.1	14.6	
9. POH	264.0	288.0	0.0	0.0	0.0	0.0	
10. FOH & EFOH	9.8	8.3	11.2	11.2	15.1	14.6	
11. MOH & EMOH	0.0	0.0	192.0	168.0	0.0	0.0	
12. Oper MBtu	569237.0	467032.0	624265.0	623974.0	774903.0	857200.0	
13. Net Gen (MWH)	52532.0	44088.7	58859.6	58821.1	74167.6	81258.9	
14. ANOHR (Btu/KWH)	10836.0	10593.0	10606.0	10608.0	10448.0	10549.0	
15. NOF %	57.3	56.6	55.9	55.8	52.2	59.1	
16. NPC (MW)	195.0	195.0	195.0	195.0	195.0	195.0	
19. ANOHR Equation	$10^6 / AKW * [320.27 + 28.73 * JAN - 24.84 * MAY - 26.36 * OCT - 15.30 * NOV]$ $+ 5,898 + 0.01509 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

SMITH 2	Jul '12	Aug '12	Sep '12	Oct '12	Nov '12	Dec '12	Total
1. EAF (%)	98.0	98.0	98.0	97.7	97.7	97.8	87.7
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	6.3
3. EUOF (%)	2.0	2.0	2.0	2.3	2.3	2.2	6.0
4. EUOR (%)	2.0	2.0	2.0	2.3	2.3	2.2	6.4
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	728.9	728.9	705.4	728.9	706.4	728.9	7711.9
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	15.1	15.1	14.6	15.1	14.6	15.1	1072.1
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	552.0
10. FOH & EFOH	15.1	15.1	14.6	17.1	16.6	16.1	165.1
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	360.0
12. Oper MBtu	985790.0	987839.0	802470.0	834867.0	813020.0	858691.0	9199288.0
13. Net Gen (MWH)	94189.8	94403.6	75519.5	80655.7	77756.3	81138.7	873391.5
14. ANOHR (Btu/KWH)	10466.0	10464.0	10626.0	10351.0	10456.0	10583.0	10533.0
15. NOF %	66.3	66.4	54.9	56.7	56.5	57.1	58.1
16. NPC (MW)	195.0	195.0	195.0	195.0	195.0	195.0	195.0
19. ANOHR Equation	$10^6 / AKW * [320.27 + 28.73 * JAN - 24.84 * MAY - 26.36 * OCT - 15.30 * NOV]$ $+ 5,898 + 0.01509 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

DANIEL 1	Jan '12	Feb '12	Mar '12	Apr '12	May '12	Jun '12	
1. EAF (%)	18.6	56.2	86.5	79.7	95.9	95.9	
2. POF (%)	80.6	41.4	0.0	0.0	0.0	0.0	
3. EUOF (%)	0.8	2.4	13.5	20.3	4.1	4.1	
4. EUOR (%)	4.1	4.1	13.5	20.3	4.1	4.1	
5. PH	744.0	696.0	743.0	720.0	744.0	720.0	
6. SH	138.1	391.4	643.7	575.6	713.7	690.7	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	605.9	304.6	99.3	144.4	30.3	29.3	
9. POH	600.0	288.0	0.0	0.0	0.0	0.0	
10. FOH & EFOH	5.9	16.6	28.3	26.4	30.3	29.3	
11. MOH & EMOH	0.0	0.0	72.0	120.0	0.0	0.0	
12. Oper MBtu	383877.0	1008526.0	1842119.0	1818101.0	2359836.0	2359764.0	
13. Net Gen (MWH)	34055.8	90483.2	169437.0	170745.8	223575.2	224910.8	
14. ANOHR (Btu/KWH)	11272.0	11146.0	10872.0	10648.0	10555.0	10492.0	
15. NOF %	48.3	45.3	51.6	58.2	61.4	63.8	
16. NPC (MW)	510.0	510.0	510.0	510.0	510.0	510.0	
19. ANOHR Equation	$10^6 / AKW * [521.83 + 65.51 * JAN + 59.16 * JUL]$ + 8,889						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

DANIEL 1	Jul '12	Aug '12	Sep '12	Oct '12	Nov '12	Dec '12	Total
1. EAF (%)	95.9	95.9	95.9	95.9	95.8	95.8	84.1
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	10.1
3. EUOF (%)	4.1	4.1	4.1	4.1	4.2	4.2	5.8
4. EUOR (%)	4.1	4.1	4.1	4.1	4.2	4.2	6.5
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	713.7	713.7	690.7	713.7	691.7	713.7	7390.8
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	30.3	30.3	29.3	30.3	29.3	30.3	1393.2
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	888.0
10. FOH & EFOH	30.3	30.3	29.3	30.3	30.3	31.3	318.2
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	192.0
12. Oper MBtu	2552383.0	2537041.0	2230968.0	2148187.0	1854532.0	1965049.0	23060383.0
13. Net Gen (MWH)	240473.2	243524.8	210429.0	199775.6	168028.6	179162.0	2154601.0
14. ANOHR (Btu/KWH)	10614.0	10418.0	10602.0	10753.0	11037.0	10968.0	10703.0
15. NOF %	66.1	66.9	59.7	54.9	47.6	49.2	57.2
16. NPC (MW)	510.0	510.0	510.0	510.0	510.0	510.0	510.0
19. ANOHR Equation	$10^6 / AKW * [521.83 + 65.51 * JAN + 59.16 * JUL]$ + 8,889						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

DANIEL 2	Jan '12	Feb '12	Mar '12	Apr '12	May '12	Jun '12	
1. EAF (%)	97.2	97.1	97.1	96.9	97.2	97.2	
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3. EUOF (%)	2.8	2.9	2.9	3.1	2.8	2.8	
4. EUOR (%)	2.8	2.9	2.9	3.1	2.8	2.8	
5. PH	744.0	696.0	743.0	720.0	744.0	720.0	
6. SH	723.2	676.5	722.2	699.9	723.2	699.9	
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8. UH	20.8	19.5	20.8	20.1	20.8	20.1	
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	
10. FOH & EFOH	20.8	20.5	21.8	22.1	20.8	20.1	
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
12. Oper MBtu	1922706.0	1720096.0	1927640.0	2106323.0	2322719.0	2330691.0	
13. Net Gen (MWH)	184591.6	156372.4	176653.2	196595.4	218835.4	220709.4	
14. ANOHR (Btu/KWH)	10416.0	11000.0	10912.0	10714.0	10614.0	10560.0	
15. NOF %	50.0	45.3	48.0	55.1	59.3	61.8	
16. NPC (MW)	510.0	510.0	510.0	510.0	510.0	510.0	
19. ANOHR Equation	$10^6 / AKW * [24.52 - 110.71 * JAN - 49.24 * JUL - 56.45 * SEP - 73.43 * OCT]$ $+ 11,929 - 0.00393 * LSRF / AKW$						

Issued by: M. A. Crosswhite

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2012 - December 2012

DANIEL 2	Jul '12	Aug '12	Sep '12	Oct '12	Nov '12	Dec '12	Total
1. EAF (%)	97.2	97.2	90.6	72.1	84.3	97.2	93.4
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	2.8	2.8	9.4	27.9	15.7	2.8	6.6
4. EUOR (%)	2.8	2.8	9.4	27.9	15.7	2.8	6.6
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8784.0
6. SH	723.2	723.2	653.2	536.6	607.6	723.2	8211.9
7. RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8. UH	20.8	20.8	66.8	207.4	113.4	20.8	572.1
9. FOH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. FOH & EFOH	20.8	20.8	19.8	15.4	17.4	20.8	241.1
11. MOH & EMOH	0.0	0.0	48.0	192.0	96.0	0.0	336.0
12. Oper MBtu	2512685.0	2551328.0	2069315.0	1534515.0	1558360.0	1885988.0	24442366.0
13. Net Gen (MWH)	243147.4	243493.8	198552.6	146339.4	141888.4	172189.2	2299368.2
14. ANOHR (Btu/KWH)	10334.0	10478.0	10422.0	10486.0	10983.0	10953.0	10630.0
15. NOF %	65.9	66.0	59.6	53.5	45.8	46.7	54.9
16. NPC (MW)	510.0	510.0	510.0	510.0	510.0	510.0	510.0
19. ANOHR Equation	$10^6 / \text{AKW} * [24.52 - 110.71 * \text{JAN} - 49.24 * \text{JUL} - 56.45 * \text{SEP} - 73.43 * \text{OCT}]$ $+ 11,929 - 0.00393 * \text{LSRF} / \text{AKW}$						

Issued by: M. A. Crosswhite

Planned Outage Schedules (Estimated)

Gulf Power Company

Period of: January 2012 - December 2012

Plant & Unit	Planned Outage Dates		Reason for Outage
Crist 6	02/18/12	04/29/12	Major turbine outage and inspection.
Crist 7	10/06/12	- 12/23/12	Major turbine outage and inspection.
Smith 2	01/21/12	- 02/12/12	General boiler maintenance and inspection.
Daniel 1	01/07/12	- 02/12/12	General boiler maintenance and inspection.

Issued by: M. A. Crosswhite

Notes Regarding Estimated Planned Outage Schedules

Gulf Power Company

Period of: January 2012 - December 2012

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 2012 - December 2012, the outages shown below are currently planned and could be rescheduled for the target period.

Plant & Unit	Planned Outage Dates	Reason for Outage
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None

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

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

Docket No.: 110001-EI

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true copy of the foregoing was furnished by U.S. mail this 31st day of August, 2011, on the following:

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