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

GENERATING PERFORMANCE INCENTIVE FACTOR

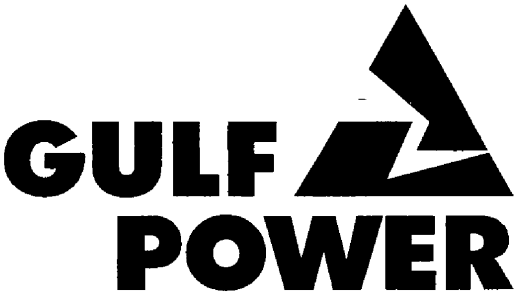
TARGETS FOR

JANUARY 2004 - DECEMBER 2004

Before

THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 030001-EI



A SOUTHERN COMPANY

GULF POWER COMPANY
Before the Florida Public Service Commission
Direct Testimony of
L. S. Noack
Docket No. 030001-EI
Date of Filing September 12, 2003

Q. Please state your name, address and occupation.

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

Q. Please describe your educational and business background.

A. I received my Bachelor of Science degree in Environmental Engineering from the University of Florida in 1995 and received my Master of Business Administration degree from the University of West Florida in 2000. I joined Gulf Power in 1995 as an Environmental Engineer and served in that role with increasing levels of responsibility for over six years. Major responsibilities included coordination of federal and state air-related compliance testing for all Gulf Power generating units, management of the Continuous Emission Monitoring (CEM) System program at each of the Company's generating facilities, and coordination of

the Company's air compliance reporting to state and federal regulatory agencies. I was also responsible for serving as Gulf's Environmental Subject Matter Expert on Company and system-wide compliance teams. As previously mentioned in my testimony, my current job position is Power Generation Specialist, Senior at Gulf Power Company. In this position, I am responsible for preparing all GPIF filings as well as other generating plant reliability and heat rate performance reporting.

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

A. The purpose of my testimony is to present GPIF targets for Gulf Power Company for the period of January 1, 2004 through December 31, 2004.

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

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

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

A. Yes, it was.

Counsel: We ask that Ms. Noack's exhibit be marked for identification as Exhibit__(LSN-2).

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

A. We propose that Crist Units 4, 5, 6, and 7, Smith Units 1 and 2, and Daniel Units 1 and 2 continue to be the Company's GPIF units. The projected net generation from these units is approximately 82% of Gulf's projected net generation for 2004.

Q. What are the target heat rates Gulf proposes to use in the GPIF for these units for the performance period January 1, 2004 through December 31, 2004?

A. I would like to refer you to Page 43 of Schedule 1 of my Exhibit___(LSN-2) where these targets are listed.

Q. How were these proposed target heat rates determined?

A. They were determined according to the GPIF implementation manual procedures for Gulf.

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

A. Page 2 of Schedule 1 of Exhibit___(LSN-2) shows the target average net operating heat rate equations for

the proposed GPIF units, and pages 4 through 39 of Schedule 1 contain the weekly historical data used for the statistical development of these equations. Pages 40 through 42 of Schedule 1 present the calculations that provide the unit target heat rates from the target equations.

Q. Were the maximum and minimum attainable heat rates for each proposed GPIF unit, indicated on page 43 of Schedule 1 of Exhibit___(LSN-2), calculated according to the appropriate GPIF implementation manual procedures?

A. Yes.

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

A. The target, maximum, and minimum equivalent availabilities are listed on page 4 of Schedule 2 of Exhibit___(LSN-2).

Q. How are the target equivalent availabilities determined?

A. The target equivalent availabilities were determined according to the standard GPIF implementation manual procedures for Gulf and are presented on page 2 of

Schedule 2 of Exhibit___(LSN-2).

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

A. The maximum and minimum attainable equivalent availabilities, which are presented along with their respective target availabilities on page 4 of Schedule 2 of Exhibit___(LSN-2), were determined per GPIF manual procedures for Gulf.

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

A. Yes, we have completed the minimum filing requirements data package. Schedule 3 of my Exhibit___(LSN-2) contains this information.

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

A. Yes. Gulf asks that the Commission accept:

1. Crist Units 4, 5, 6 and 7, Smith Units 1 and 2, and Daniel Units 1 and 2 for inclusion under the GPIF for the period of January 1, 2004 through December 31, 2004.

2. The target, maximum attainable, and minimum attainable average net operating heat rates, as

proposed by the Company and as shown on page 43 of Schedule 1 and also page 5 of Schedule 3 of my Exhibit___(LSN-2).

3. The target, maximum attainable, and minimum attainable equivalent availabilities, as proposed by the Company and as shown on Page 4 of Schedule 2 and also page 5 of Schedule 3 of my Exhibit___(LSN-2).

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

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

A. Yes.

Florida Public Service Commission
Docket No. 030001-EI
Gulf Power Company
Witness: L. S. Noack
Exhibit No.___(LSN-2)

EXHIBIT TO THE TESTIMONY OF

L. S. NOACK

IN FPSC DOCKET 030001-EI

I. DETERMINATION OF HEAT RATE TARGETS

Target Heat Rate Equations

Crist 4 ANOHR = 10^6 / AKW * [617.42 + 9 96 * MAR - 23 05 * NOV]

- 8329 + 0.13863 * LSRF / AKW

Crist 5 ANOHR = 10^6 / AKW * [-136.85 - 13.15 * OCT - 21 65 * NOV]

+ 18,611 - 0.08694 * LSRF / AKW

Crist 6 ANOHR = 10^6 / AKW * [1069.69 + 44.52 * MAR - 33 07 * MAY + 30.91 * AUG]

+ 844 + 0 02012 * LSRF / AKW

Crist 7 ANOHR = 10^6 / AKW * [349 83 - 96.07 * MAR + 61 52 * JUN + 115 03 * JUL + 78 38 * AUG + 90.36 * SEP + 64 01 * NOV]

+ 9,387

Smith 1 ANOHR = 10^6 / AKW * [111.12 - 22.83 * JAN - 27.46 * FEB + 17 98 * APR]

+ 9,412

Smith 2 ANOHR = 10^6 / AKW * [139.59 - 38 77 * JAN - 43 18 * FEB - 42.50 * MAR - 16 17 * MAY + 27 46 * JUL + 19.26 * AUG]

+ 9,289

Daniel 1 ANOHR = 10^6 / AKW * [-528.45 - 59 78 * MAY + 139 64 * JUL + 75 47 * AUG]

+ 15,490 - 0.00906 * LSRF / AKW

Daniel 2 ANOHR = 10^6 / AKW * [571.00 - 118.56 * JAN - 87.31 * FEB - 88 00 * MAR - 88.36 * NOV]

+ 8,698

Where:

ANOHR = Average Net Operating Heat Rate, BTU/KWH
AKW = Average Kilowatt Load, KW
LSRF = Load Square Range Factor, KW^2
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
10841	168	55.3	3270	0	0	0	0	0	0	1	0	0	0	0	0	2000
11096	168	64.3	4313	0	0	0	0	0	0	1	0	0	0	0	0	2000
11273	168	61.1	3941	0	0	0	0	0	0	1	0	0	0	0	0	2000
11174	168	52.8	3007	0	0	0	0	0	0	1	0	0	0	0	0	2000
11103	168	51.6	2831	0	0	0	0	0	0	0	1	0	0	0	0	2000
11101	168	56.2	3424	0	0	0	0	0	0	0	1	0	0	0	0	2000
11126	168	55.5	3331	0	0	0	0	0	0	0	1	0	0	0	0	2000
11059	168	57.5	3525	0	0	0	0	0	0	0	1	0	0	0	0	2000
11074	168	59.2	3741	0	0	0	0	0	0	0	1	0	0	0	0	2000
11020	168	53.0	3035	0	0	0	0	0	0	0	0	1	0	0	0	2000
10827	168	57.1	3474	0	0	0	0	0	0	0	0	1	0	0	0	2000
10732	168	54.4	3197	0	0	0	0	0	0	0	0	1	0	0	0	2000
12271	45	55.4	3614	0	0	0	0	0	0	0	0	0	0	1	1	2000
10462	168	70.5	5046	0	0	0	0	0	0	0	0	0	0	0	0	2000
10639	168	56.6	3361	0	0	0	0	0	0	0	0	0	0	0	0	2000
10265	168	64.4	4352	0	0	0	0	0	0	0	0	0	0	0	0	2000
*12730	24	57.0	3462	0	0	0	0	0	0	0	0	0	0	0	0	2000
10440	168	66.0	4500	1	0	0	0	0	0	0	0	0	0	0	0	2001
10440	143	64.2	4307	1	0	0	0	0	0	0	0	0	0	0	1	2001
10405	82	51.0	2738	1	0	0	0	0	0	0	0	0	0	0	0	2001
10730	118	51.9	2835	1	0	0	0	0	0	0	0	0	0	0	1	2001
10882	90	50.1	2626	0	1	0	0	0	0	0	0	0	0	0	1	2001
10339	168	61.7	4061	0	1	0	0	0	0	0	0	0	0	0	0	2001
10348	168	69.0	4893	0	1	0	0	0	0	0	0	0	0	0	0	2001
10338	168	73.6	5473	0	1	0	0	0	0	0	0	0	0	0	0	2001
10416	168	73.0	5408	0	0	1	0	0	0	0	0	0	0	0	0	2001
10285	168	73.3	5436	0	0	1	0	0	0	0	0	0	0	0	0	2001
10347	168	67.0	4650	0	0	1	0	0	0	0	0	0	0	0	0	2001
10372	168	68.9	4879	0	0	1	0	0	0	0	0	0	0	0	0	2001
10279	167	66.9	4574	0	0	1	0	0	0	0	0	0	0	0	0	2001
9943	168	70.1	5051	0	0	0	1	0	0	0	0	0	0	0	0	2001
9956	168	73.2	5441	0	0	0	1	0	0	0	0	0	0	0	0	2001
9966	168	76.5	5861	0	0	0	1	0	0	0	0	0	0	0	0	2001
10022	168	63.1	4175	0	0	0	1	0	0	0	0	0	0	0	0	2001
10174	168	67.7	4763	0	0	0	0	1	0	0	0	0	0	0	0	2001
10260	168	64.7	4373	0	0	0	0	1	0	0	0	0	0	0	0	2001
10413	168	57.4	3515	0	0	0	0	1	0	0	0	0	0	0	0	2001
10362	168	59.5	3710	0	0	0	0	1	0	0	0	0	0	0	0	2001
10603	168	56.1	3324	0	0	0	0	1	0	0	0	0	0	0	0	2001
10743	168	57.5	3547	0	0	0	0	0	1	0	0	0	0	0	0	2001
10565	168	64.4	4379	0	0	0	0	0	1	0	0	0	0	0	0	2001
10494	168	61.8	4079	0	0	0	0	0	1	0	0	0	0	0	0	2001
10721	144	56.6	3437	0	0	0	0	0	1	0	0	0	0	0	0	2001
10471	168	51.2	2751	0	0	0	0	0	0	1	0	0	0	0	0	2001
10392	168	58.3	3603	0	0	0	0	0	0	1	0	0	0	0	0	2001
10585	168	58.8	3681	0	0	0	0	0	0	1	0	0	0	0	0	2001
10579	168	58.1	3591	0	0	0	0	0	0	1	0	0	0	0	0	2001

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
10251	168	65.7	4503	0	0	0	0	0	0	0	1	0	0	0	0	2001
10724	168	64.6	4351	0	0	0	0	0	0	0	1	0	0	0	0	2001
10625	168	65.3	4461	0	0	0	0	0	0	0	1	0	0	0	0	2001
10838	168	62.0	4093	0	0	0	0	0	0	0	1	0	0	0	0	2001
10965	168	59.2	3738	0	0	0	0	0	0	0	1	0	0	0	0	2001
10865	168	55.2	3274	0	0	0	0	0	0	0	0	1	0	0	0	2001
10726	168	54.6	3205	0	0	0	0	0	0	0	0	1	0	0	0	2001
10715	168	52.9	2984	0	0	0	0	0	0	0	0	1	0	0	0	2001
10812	167	53.2	3041	0	0	0	0	0	0	0	0	1	0	0	0	2001
• 9345	39	66.5	4682	0	0	0	0	0	0	0	0	0	1	0	1	2001
12170	104	53.5	3084	1	0	0	0	0	0	0	0	0	0	0	1	2002
*12101	47	63.3	4275	1	0	0	0	0	0	0	0	0	0	0	0	2002
12171	144	43.3	1982	0	1	0	0	0	0	0	0	0	0	0	1	2002
11446	158	45.9	2142	0	1	0	0	0	0	0	0	0	0	0	0	2002
11184	168	46.5	2217	0	1	0	0	0	0	0	0	0	0	0	0	2002
11293	168	52.0	2850	0	0	1	0	0	0	0	0	0	0	0	0	2002
11386	168	50.5	2669	0	0	1	0	0	0	0	0	0	0	0	0	2002
11355	168	48.6	2425	0	0	1	0	0	0	0	0	0	0	0	0	2002
11337	168	53.6	3027	0	0	1	0	0	0	0	0	0	0	0	0	2002
11192	168	52.8	2927	0	0	1	0	0	0	0	0	0	0	0	0	2002
11122	167	52.4	2903	0	0	0	1	0	0	0	0	0	0	0	0	2002
11422	168	49.9	2625	0	0	0	1	0	0	0	0	0	0	0	0	2002
11155	168	59.4	3755	0	0	0	1	0	0	0	0	0	0	0	0	2002
11282	168	55.6	3299	0	0	0	1	0	0	0	0	0	0	0	0	2002
11264	168	58.2	3633	0	0	0	0	1	0	0	0	0	0	0	0	2002
11296	168	60.8	3949	0	0	0	0	1	0	0	0	0	0	0	0	2002
11369	94	55.3	3305	0	0	0	0	1	0	0	0	0	0	0	0	2002
11392	87	56.6	3440	0	0	0	0	1	0	0	0	0	0	0	1	2002
11443	168	49.9	2662	0	0	0	0	1	0	0	0	0	0	0	0	2002
11730	168	48.1	2451	0	0	0	0	0	1	0	0	0	0	0	0	2002
11832	168	49.0	2557	0	0	0	0	0	1	0	0	0	0	0	0	2002
11737	168	49.1	2560	0	0	0	0	0	1	0	0	0	0	0	0	2002
11631	144	52.4	2934	0	0	0	0	0	1	0	0	0	0	0	0	2002
11757	168	49.2	2548	0	0	0	0	0	0	1	0	0	0	0	0	2002
11715	168	50.7	2663	0	0	0	0	0	0	1	0	0	0	0	0	2002
11769	168	53.5	3054	0	0	0	0	0	0	1	0	0	0	0	0	2002
11825	168	48.2	2443	0	0	0	0	0	0	1	0	0	0	0	0	2002
11303	168	55.4	3269	0	0	0	0	0	0	0	1	0	0	0	0	2002
11154	168	48.5	2462	0	0	0	0	0	0	0	1	0	0	0	0	2002
11341	168	51.6	2817	0	0	0	0	0	0	0	1	0	0	0	0	2002
11361	168	54.5	3159	0	0	0	0	0	0	0	1	0	0	0	0	2002
11734	168	48.1	2441	0	0	0	0	0	0	0	1	0	0	0	0	2002
11326	168	53.8	3104	0	0	0	0	0	0	0	0	1	0	0	0	2002
11052	168	62.1	4095	0	0	0	0	0	0	0	0	1	0	0	0	2002
11159	160	64.3	4379	0	0	0	0	0	0	0	0	1	0	0	0	2002
11082	168	57.2	3439	0	0	0	0	0	0	0	0	1	0	0	0	2002
11045	168	62.4	4098	0	0	0	0	0	0	0	0	0	1	0	0	2002

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
11075	168	57.3	3436	0	0	0	0	0	0	0	0	0	1	0	0	2002
11218	168	49.0	2451	0	0	0	0	0	0	0	0	0	1	0	0	2002
10914	169	58.2	3554	0	0	0	0	0	0	0	0	0	1	0	0	2002
10974	168	56.5	3368	0	0	0	0	0	0	0	0	0	1	0	0	2002
10699	168	52.2	2854	0	0	0	0	0	0	0	0	0	0	1	0	2002
10330	168	47.1	2243	0	0	0	0	0	0	0	0	0	0	1	0	2002
10464	119	48.6	2400	0	0	0	0	0	0	0	0	0	0	1	0	2002
12817	44	39.2	1657	0	0	0	0	0	0	0	0	0	0	0	1	2002
11789	168	52.5	2890	0	0	0	0	0	0	0	0	0	0	0	0	2002
11835	160	45.6	2132	0	0	0	0	0	0	0	0	0	0	0	0	2002
11803	24	46.2	2133	0	0	0	0	0	0	0	0	0	0	0	0	2002
11010	168	58.0	3543	1	0	0	0	0	0	0	0	0	0	0	0	2003
10839	168	59.0	3685	1	0	0	0	0	0	0	0	0	0	0	0	2003
10855	168	68.0	4781	1	0	0	0	0	0	0	0	0	0	0	0	2003
10777	168	64.1	4286	1	0	0	0	0	0	0	0	0	0	0	0	2003
10800	168	62.0	4014	0	1	0	0	0	0	0	0	0	0	0	0	2003
10991	168	57.1	3420	0	1	0	0	0	0	0	0	0	0	0	0	2003
11023	168	55.6	3222	0	1	0	0	0	0	0	0	0	0	0	0	2003
10820	168	62.4	4043	0	1	0	0	0	0	0	0	0	0	0	0	2003
10772	168	70.2	5041	0	0	1	0	0	0	0	0	0	0	0	0	2003
10807	168	69.3	4940	0	0	1	0	0	0	0	0	0	0	0	0	2003
10905	168	68.7	4869	0	0	1	0	0	0	0	0	0	0	0	0	2003
10812	168	71.3	5206	0	0	1	0	0	0	0	0	0	0	0	0	2003
10798	168	72.4	5315	0	0	1	0	0	0	0	0	0	0	0	0	2003
10752	167	70.1	5029	0	0	0	1	0	0	0	0	0	0	0	0	2003
10689	168	71.2	5187	0	0	0	1	0	0	0	0	0	0	0	0	2003
10696	168	69.3	4942	0	0	0	1	0	0	0	0	0	0	0	0	2003
10730	168	69.6	4996	0	0	0	1	0	0	0	0	0	0	0	0	2003
10412	168	68.6	4871	0	0	0	0	1	0	0	0	0	0	0	0	2003
10495	168	63.4	4214	0	0	0	0	1	0	0	0	0	0	0	0	2003
10594	168	63.4	4196	0	0	0	0	1	0	0	0	0	0	0	0	2003
10497	168	60.8	3893	0	0	0	0	1	0	0	0	0	0	0	0	2003
10450	168	62.8	4133	0	0	0	0	1	0	0	0	0	0	0	0	2003
10428	168	63.0	4133	0	0	0	0	0	1	0	0	0	0	0	0	2003
10466	168	62.9	4145	0	0	0	0	0	1	0	0	0	0	0	0	2003
10546	168	61.6	4037	0	0	0	0	0	1	0	0	0	0	0	0	2003
10810	144	65.7	4496	0	0	0	0	0	1	0	0	0	0	0	0	2003

Data Base for CRIST 4 Target Heat Rate Equation

HR	Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH.
HOUR	Number of hours the unit was synchronized during the week.
AMW	Average load on the unit, in MW.
LSRF	Load square range factor, in MW^2.
JAN to NOV	The number 1 indicates the month of the observation. All 0's indicate December.
NS	Number of unit start ups during the week after being shut down for 24 hours or more.
YEAR	The year of the observation.
*	Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

Data Base for CRIST 5 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10502	168	64.9	4413	0	0	0	0	0	0	1	0	0	0	0	0	2000
10772	168	72.0	5255	0	0	0	0	0	0	1	0	0	0	0	0	2000
10863	168	71.2	5159	0	0	0	0	0	0	1	0	0	0	0	0	2000
10764	168	63.9	4301	0	0	0	0	0	0	1	0	0	0	0	0	2000
10637	168	66.4	4568	0	0	0	0	0	0	0	1	0	0	0	0	2000
10647	168	68.2	4785	0	0	0	0	0	0	0	1	0	0	0	0	2000
10683	168	66.6	4599	0	0	0	0	0	0	0	1	0	0	0	0	2000
10697	168	67.7	4712	0	0	0	0	0	0	0	1	0	0	0	0	2000
10785	168	70.1	4998	0	0	0	0	0	0	0	1	0	0	0	0	2000
10679	168	64.3	4297	0	0	0	0	0	0	0	0	1	0	0	0	2000
10562	168	66.2	4558	0	0	0	0	0	0	0	0	1	0	0	0	2000
10399	168	65.9	4516	0	0	0	0	0	0	0	0	1	0	0	0	2000
10354	168	66.8	4597	0	0	0	0	0	0	0	0	1	0	0	0	2000
10033	168	64.8	4334	0	0	0	0	0	0	0	0	0	1	0	0	2000
10375	168	64.5	4331	0	0	0	0	0	0	0	0	0	1	0	0	2000
9817	168	71.6	5240	0	0	0	0	0	0	0	0	0	1	0	0	2000
10377	168	68.5	4869	0	0	0	0	0	0	0	0	0	1	0	0	2000
10304	169	68.0	4799	0	0	0	0	0	0	0	0	0	1	0	0	2000
10251	168	67.2	4679	0	0	0	0	0	0	0	0	0	0	1	0	2000
10298	168	73.6	5492	0	0	0	0	0	0	0	0	0	0	1	0	2000
10199	168	75.5	5760	0	0	0	0	0	0	0	0	0	0	1	0	2000
10119	168	70.8	5092	0	0	0	0	0	0	0	0	0	0	1	0	2000
* 8947	1	33.0	1089	0	0	0	0	0	0	0	0	0	0	0	0	2000
*11621	9	40.6	1767	0	0	0	0	0	0	0	0	0	0	0	1	2000
10296	168	71.9	5288	0	0	0	0	0	0	0	0	0	0	0	0	2000
10340	168	60.3	3771	0	0	0	0	0	0	0	0	0	0	0	0	2000
10187	24	77.5	6000	0	0	0	0	0	0	0	0	0	0	0	0	2000
10256	168	67.9	4773	1	0	0	0	0	0	0	0	0	0	0	0	2001
10096	132	66.8	4617	1	0	0	0	0	0	0	0	0	0	0	0	2001
10446	120	51.6	2788	1	0	0	0	0	0	0	0	0	0	0	1	2001
10265	69	71.0	5255	0	1	0	0	0	0	0	0	0	0	0	1	2001
10135	168	70.7	5143	0	1	0	0	0	0	0	0	0	0	0	0	2001
10011	168	73.5	5468	0	1	0	0	0	0	0	0	0	0	0	0	2001
10101	168	72.0	5302	0	0	1	0	0	0	0	0	0	0	0	0	2001
10198	168	71.6	5242	0	0	1	0	0	0	0	0	0	0	0	0	2001
10171	168	65.9	4511	0	0	1	0	0	0	0	0	0	0	0	0	2001
10176	168	69.3	4933	0	0	1	0	0	0	0	0	0	0	0	0	2001
10170	167	66.8	4575	0	0	1	0	0	0	0	0	0	0	0	0	2001
9873	168	69.6	4993	0	0	0	1	0	0	0	0	0	0	0	0	2001
9883	168	72.0	5288	0	0	0	1	0	0	0	0	0	0	0	0	2001
9933	168	74.9	5674	0	0	0	1	0	0	0	0	0	0	0	0	2001
10003	168	63.4	4218	0	0	0	1	0	0	0	0	0	0	0	0	2001
10034	168	67.9	4785	0	0	0	0	1	0	0	0	0	0	0	0	2001
10096	168	64.5	4355	0	0	0	0	1	0	0	0	0	0	0	0	2001
10205	143	57.5	3526	0	0	0	0	1	0	0	0	0	0	0	0	2001
10579	136	54.4	3174	0	0	0	0	1	0	0	0	0	0	0	1	2001
10473	168	57.1	3509	0	0	0	0	0	1	0	0	0	0	0	0	2001

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
11095	95	57.3	3543	0	0	0	0	0	1	0	0	0	0	0	1	2001
10235	115	61.3	4048	0	0	0	0	0	1	0	0	0	0	0	0	2001
10690	140	56.1	3407	0	0	0	0	0	1	0	0	0	0	0	1	2001
10473	168	50.9	2719	0	0	0	0	0	0	1	0	0	0	0	0	2001
10313	168	58.3	3616	0	0	0	0	0	0	1	0	0	0	0	0	2001
10406	168	59.1	3720	0	0	0	0	0	0	1	0	0	0	0	0	2001
10210	168	58.3	3618	0	0	0	0	0	0	1	0	0	0	0	0	2001
10150	168	65.8	4537	0	0	0	0	0	0	0	1	0	0	0	0	2001
10601	168	64.4	4342	0	0	0	0	0	0	0	1	0	0	0	0	2001
10553	168	65.7	4519	0	0	0	0	0	0	0	1	0	0	0	0	2001
10518	168	61.8	4081	0	0	0	0	0	0	0	1	0	0	0	0	2001
10832	168	60.2	3837	0	0	0	0	0	0	0	1	0	0	0	0	2001
10618	168	56.9	3481	0	0	0	0	0	0	0	0	1	0	0	0	2001
10622	166	56.2	3391	0	0	0	0	0	0	0	0	1	0	0	0	2001
10443	168	55.2	3252	0	0	0	0	0	0	0	0	1	0	0	0	2001
10617	168	54.6	3203	0	0	0	0	0	0	0	0	1	0	0	0	2001
10426	168	51.8	2856	0	0	0	0	0	0	0	0	0	1	0	0	2001
10409	168	54.9	3192	0	0	0	0	0	0	0	0	0	1	0	0	2001
10420	46	53.7	3107	0	0	0	0	0	0	0	0	0	1	0	0	2001
10505	38	58.9	3877	0	0	0	0	0	0	0	0	0	1	0	1	2001
*13359	24	34.6	1586	0	1	0	0	0	0	0	0	0	0	0	1	2002
11055	168	53.1	3064	0	1	0	0	0	0	0	0	0	0	0	0	2002
11005	23	48.0	2442	0	1	0	0	0	0	0	0	0	0	0	0	2002
11614	118	50.3	2785	0	0	1	0	0	0	0	0	0	0	0	2	2002
11250	168	52.0	2838	0	0	1	0	0	0	0	0	0	0	0	0	2002
11202	168	51.2	2696	0	0	1	0	0	0	0	0	0	0	0	0	2002
11332	166	55.5	3283	0	0	1	0	0	0	0	0	0	0	0	0	2002
11163	168	55.8	3259	0	0	1	0	0	0	0	0	0	0	0	0	2002
10918	167	56.9	3386	0	0	0	1	0	0	0	0	0	0	0	0	2002
10829	168	58.5	3586	0	0	0	1	0	0	0	0	0	0	0	0	2002
10888	168	61.4	3969	0	0	0	1	0	0	0	0	0	0	0	0	2002
10941	168	59.0	3657	0	0	0	1	0	0	0	0	0	0	0	0	2002
11090	168	59.1	3672	0	0	0	0	1	0	0	0	0	0	0	0	2002
11050	168	63.2	4206	0	0	0	0	1	0	0	0	0	0	0	0	2002
11057	96	57.5	3536	0	0	0	0	1	0	0	0	0	0	0	0	2002
11497	85	55.2	3294	0	0	0	0	1	0	0	0	0	0	0	1	2002
11231	168	52.6	2915	0	0	0	0	1	0	0	0	0	0	0	0	2002
11511	168	51.6	2785	0	0	0	0	0	1	0	0	0	0	0	0	2002
11536	168	53.5	3043	0	0	0	0	0	1	0	0	0	0	0	0	2002
11589	168	52.4	2910	0	0	0	0	0	1	0	0	0	0	0	0	2002
11541	144	54.9	3220	0	0	0	0	0	1	0	0	0	0	0	0	2002
11611	168	51.0	2720	0	0	0	0	0	0	1	0	0	0	0	0	2002
11506	168	54.2	3062	0	0	0	0	0	0	1	0	0	0	0	0	2002
11601	168	56.5	3396	0	0	0	0	0	0	1	0	0	0	0	0	2002
11651	168	51.0	2724	0	0	0	0	0	0	1	0	0	0	0	0	2002
11144	168	58.2	3611	0	0	0	0	0	0	0	1	0	0	0	0	2002
11037	168	52.0	2825	0	0	0	0	0	0	0	1	0	0	0	0	2002

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
11189	168	55.5	3255	0	0	0	0	0	0	0	1	0	0	0	0	2002
11142	168	57.1	3473	0	0	0	0	0	0	0	1	0	0	0	0	2002
11301	168	53.3	3028	0	0	0	0	0	0	0	1	0	0	0	0	2002
11112	147	58.1	3608	0	0	0	0	0	0	0	0	1	0	0	0	2002
11191	168	57.8	3516	0	0	0	0	0	0	0	0	1	0	0	0	2002
11074	168	66.4	4609	0	0	0	0	0	0	0	0	1	0	0	0	2002
11135	168	57.3	3474	0	0	0	0	0	0	0	0	1	0	0	0	2002
11058	168	63.4	4221	0	0	0	0	0	0	0	0	0	1	0	0	2002
11120	168	58.0	3513	0	0	0	0	0	0	0	0	0	1	0	0	2002
11341	168	48.0	2324	0	0	0	0	0	0	0	0	0	1	0	0	2002
11106	169	58.9	3649	0	0	0	0	0	0	0	0	0	1	0	0	2002
11518	168	52.6	2887	0	0	0	0	0	0	0	0	0	1	0	0	2002
10867	168	52.4	2880	0	0	0	0	0	0	0	0	0	0	1	0	2002
10573	168	47.4	2273	0	0	0	0	0	0	0	0	0	0	1	0	2002
10469	120	49.4	2458	0	0	0	0	0	0	0	0	0	0	1	0	2002
*14672	28	41.5	1829	0	0	0	0	0	0	0	0	0	0	0	1	2002
12320	168	47.0	2252	0	0	0	0	0	0	0	0	0	0	0	0	2002
12309	168	45.1	2092	0	0	0	0	0	0	0	0	0	0	0	0	2002
12325	24	42.6	1816	0	0	0	0	0	0	0	0	0	0	0	0	2002
11110	168	54.4	3097	1	0	0	0	0	0	0	0	0	0	0	0	2003
11039	168	56.9	3457	1	0	0	0	0	0	0	0	0	0	0	0	2003
10852	168	67.1	4663	1	0	0	0	0	0	0	0	0	0	0	0	2003
10906	168	63.0	4167	1	0	0	0	0	0	0	0	0	0	0	0	2003
10985	168	62.4	4070	0	1	0	0	0	0	0	0	0	0	0	0	2003
11243	168	55.8	3282	0	1	0	0	0	0	0	0	0	0	0	0	2003
11209	168	54.3	3055	0	1	0	0	0	0	0	0	0	0	0	0	2003
11148	168	58.2	3530	0	1	0	0	0	0	0	0	0	0	0	0	2003
10947	168	69.8	4983	0	0	1	0	0	0	0	0	0	0	0	0	2003
10858	168	68.2	4785	0	0	1	0	0	0	0	0	0	0	0	0	2003
10926	168	65.9	4485	0	0	1	0	0	0	0	0	0	0	0	0	2003
10799	168	69.5	4974	0	0	1	0	0	0	0	0	0	0	0	0	2003
10800	168	71.8	5247	0	0	1	0	0	0	0	0	0	0	0	0	2003
10877	167	67.6	4706	0	0	0	1	0	0	0	0	0	0	0	0	2003
10850	168	68.7	4832	0	0	0	1	0	0	0	0	0	0	0	0	2003
10877	168	69.1	4921	0	0	0	1	0	0	0	0	0	0	0	0	2003
10956	168	67.7	4740	0	0	0	1	0	0	0	0	0	0	0	0	2003
10350	168	67.4	4713	0	0	0	0	1	0	0	0	0	0	0	0	2003
10446	168	62.8	4129	0	0	0	0	1	0	0	0	0	0	0	0	2003
10372	168	61.3	3978	0	0	0	0	1	0	0	0	0	0	0	0	2003
11754	97	56.9	3453	0	0	0	0	1	0	0	0	0	0	0	1	2003
10754	138	55.8	3322	0	0	0	0	1	0	0	0	0	0	0	1	2003
10657	168	60.3	3825	0	0	0	0	0	1	0	0	0	0	0	0	2003
10472	168	62.6	4104	0	0	0	0	0	1	0	0	0	0	0	0	2003
10567	168	60.7	3939	0	0	0	0	0	1	0	0	0	0	0	0	2003
10401	144	65.0	4431	0	0	0	0	0	1	0	0	0	0	0	0	2003

Data Base for CRIST 5 Target Heat Rate Equation

HR	Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH.
HOUR	Number of hours the unit was synchronized during the week.
AMW	Average load on the unit, in MW.
LSRF	Load square range factor, in MW^2.
JAN to NOV	The number 1 indicates the month of the observation. All 0's indicate December.
NS	Number of unit start ups during the week after being shut down for 24 hours or more.
YEAR	The year of the observation.
*	Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

Data Base for CRIST 6 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10485	168	211.0	51070	0	0	0	0	0	0	1	0	0	0	0	0	2000
10565	168	280.8	15208	0	0	0	0	0	0	1	0	0	0	0	0	2000
10611	168	252.8	3624	0	0	0	0	0	0	1	0	0	0	0	0	2000
10668	168	235.8	61723	0	0	0	0	0	0	1	0	0	0	0	0	2000
10623	168	227.5	57701	0	0	0	0	0	0	0	1	0	0	0	0	2000
10538	168	250.0	2051	0	0	0	0	0	0	0	1	0	0	0	0	2000
10679	168	233.9	61200	0	0	0	0	0	0	0	1	0	0	0	0	2000
10605	168	248.8	1943	0	0	0	0	0	0	0	1	0	0	0	0	2000
10697	168	249.4	2022	0	0	0	0	0	0	0	1	0	0	0	0	2000
10747	168	214.3	51845	0	0	0	0	0	0	0	0	1	0	0	0	2000
10997	131	235.8	61505	0	0	0	0	0	0	0	0	1	0	0	1	2000
11444	74	146.0	26635	0	0	0	0	0	0	0	0	1	0	0	1	2000
10880	168	199.4	45140	0	0	0	0	0	0	0	0	1	0	0	0	2000
9891	168	208.2	49192	0	0	0	0	0	0	0	0	0	1	0	0	2000
11127	168	192.7	41069	0	0	0	0	0	0	0	0	0	1	0	0	2000
11039	140	204.9	49527	0	0	0	0	0	0	0	0	0	1	0	1	2000
10803	168	248.9	1752	0	0	0	0	0	0	0	0	0	1	0	0	2000
11136	143	231.4	60640	0	0	0	0	0	0	0	0	0	1	0	1	2000
11000	168	255.8	4710	0	0	0	0	0	0	0	0	0	0	1	0	2000
10520	21	283.3	16815	0	0	0	0	0	0	0	0	0	0	1	0	2000
11290	106	172.4	32972	0	0	0	0	0	0	0	0	0	0	0	1	2000
10669	145	265.2	9296	0	0	0	0	0	0	0	0	0	0	0	0	2000
10294	168	282.4	16106	0	0	0	0	0	0	0	0	0	0	0	0	2000
10950	86	200.2	47802	0	0	0	0	0	0	0	0	0	0	0	1	2000
10404	24	283.7	15342	0	0	0	0	0	0	0	0	0	0	0	0	2000
10421	168	279.7	14308	1	0	0	0	0	0	0	0	0	0	0	0	2001
10375	147	278.6	14905	1	0	0	0	0	0	0	0	0	0	0	0	2001
11365	133	182.4	39770	1	0	0	0	0	0	0	0	0	0	0	1	2001
10839	168	193.7	44148	1	0	0	0	0	0	0	0	0	0	0	0	2001
10980	99	208.3	50570	0	1	0	0	0	0	0	0	0	0	0	1	2001
10561	168	280.5	14378	0	1	0	0	0	0	0	0	0	0	0	0	2001
10612	168	275.6	13630	0	1	0	0	0	0	0	0	0	0	0	0	2001
10496	119	288.6	19299	0	1	0	0	0	0	0	0	0	0	0	0	2001
10985	144	262.7	7859	0	0	1	0	0	0	0	0	0	0	0	1	2001
10870	168	286.8	18155	0	0	1	0	0	0	0	0	0	0	0	0	2001
11177	168	256.3	3420	0	0	1	0	0	0	0	0	0	0	0	0	2001
10687	168	243.7	65011	0	0	1	0	0	0	0	0	0	0	0	0	2001
10719	122	276.4	13578	0	0	1	0	0	0	0	0	0	0	0	0	2001
13272	88	128.8	22929	0	0	0	0	1	0	0	0	0	0	0	1	2001
10764	159	224.2	56291	0	0	0	0	1	0	0	0	0	0	0	0	2001
11574	72	131.0	17426	0	0	0	0	1	0	0	0	0	0	0	1	2001
11961	83	128.3	16682	0	0	0	0	1	0	0	0	0	0	0	1	2001
11061	168	192.5	43304	0	0	0	0	0	1	0	0	0	0	0	0	2001
11006	168	225.5	57031	0	0	0	0	0	1	0	0	0	0	0	0	2001
11046	168	229.4	59143	0	0	0	0	0	1	0	0	0	0	0	0	2001
11036	144	201.4	46708	0	0	0	0	0	1	0	0	0	0	0	0	2001
11034	168	179.7	36387	0	0	0	0	0	0	1	0	0	0	0	0	2001

Data Base for CRIST 6 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10941	168	216.2	52184	0	0	0	0	0	0	1	0	0	0	0	0	2001
11082	168	214.7	51899	0	0	0	0	0	0	1	0	0	0	0	0	2001
11046	168	208.1	48669	0	0	0	0	0	0	1	0	0	0	0	0	2001
10780	168	239.4	62416	0	0	0	0	0	0	0	1	0	0	0	0	2001
10382	168	233.6	59282	0	0	0	0	0	0	0	1	0	0	0	0	2001
11369	168	243.9	64531	0	0	0	0	0	0	0	1	0	0	0	0	2001
11347	168	228.1	58131	0	0	0	0	0	0	0	1	0	0	0	0	2001
11260	168	222.3	55007	0	0	0	0	0	0	0	1	0	0	0	0	2001
10900	168	199.6	45497	0	0	0	0	0	0	0	0	1	0	0	0	2001
10434	168	191.9	42096	0	0	0	0	0	0	0	0	1	0	0	0	2001
*12358	168	186.0	39395	0	0	0	0	0	0	0	0	1	0	0	0	2001
11146	146	158.7	28544	0	0	0	0	0	0	0	0	1	0	0	0	2001
11167	168	160.7	28258	0	0	0	0	0	0	0	0	0	1	0	0	2001
11212	168	166.9	31106	0	0	0	0	0	0	0	0	0	1	0	0	2001
11276	168	152.1	25988	0	0	0	0	0	0	0	0	0	1	0	0	2001
10702	168	209.7	50015	0	0	0	0	0	0	0	0	0	1	0	0	2001
11684	169	145.6	22617	0	0	0	0	0	0	0	0	0	1	0	0	2001
11878	168	130.3	17165	0	0	0	0	0	0	0	0	0	0	1	0	2001
10602	168	166.9	31381	0	0	0	0	0	0	0	0	0	0	1	0	2001
11680	168	133.9	18904	0	0	0	0	0	0	0	0	0	0	1	0	2001
11186	168	162.9	30917	0	0	0	0	0	0	0	0	0	0	1	0	2001
11264	168	135.3	18786	0	0	0	0	0	0	0	0	0	0	0	0	2001
11077	168	148.6	24595	0	0	0	0	0	0	0	0	0	0	0	0	2001
11493	168	147.4	24482	0	0	0	0	0	0	0	0	0	0	0	0	2001
11180	168	142.3	22065	0	0	0	0	0	0	0	0	0	0	0	0	2001
11230	24	127.9	16364	0	0	0	0	0	0	0	0	0	0	0	0	2001
11108	168	202.5	46070	1	0	0	0	0	0	0	0	0	0	0	0	2002
11306	168	168.3	32082	1	0	0	0	0	0	0	0	0	0	0	0	2002
11335	168	159.4	28927	1	0	0	0	0	0	0	0	0	0	0	0	2002
11937	168	133.1	18333	1	0	0	0	0	0	0	0	0	0	0	0	2002
11419	159	163.3	30770	0	1	0	0	0	0	0	0	0	0	0	0	2002
11044	96	179.4	36812	0	1	0	0	0	0	0	0	0	0	0	0	2002
23013	16	67.1	6230	0	0	0	1	0	0	0	0	0	0	0	1	2002
11428	145	179.1	40163	0	0	0	1	0	0	0	0	0	0	0	0	2002
10561	168	236.2	60970	0	0	0	1	0	0	0	0	0	0	0	0	2002
10540	168	201.9	46346	0	0	0	1	0	0	0	0	0	0	0	0	2002
10491	99	204.5	47661	0	0	0	0	1	0	0	0	0	0	0	0	2002
10896	105	198.8	46019	0	0	0	0	1	0	0	0	0	0	0	1	2002
10622	168	191.1	41090	0	0	0	0	1	0	0	0	0	0	0	0	2002
10731	152	188.8	41134	0	0	0	0	1	0	0	0	0	0	0	0	2002
11072	168	163.6	30277	0	0	0	0	1	0	0	0	0	0	0	0	2002
11149	168	166.2	30550	0	0	0	0	0	1	0	0	0	0	0	0	2002
11228	168	164.5	30075	0	0	0	0	0	1	0	0	0	0	0	0	2002
10958	168	197.9	43593	0	0	0	0	0	1	0	0	0	0	0	0	2002
11157	89	191.3	43113	0	0	0	0	0	1	0	0	0	0	0	1	2002
10981	168	183.7	39026	0	0	0	0	0	0	1	0	0	0	0	0	2002
11059	168	193.0	42028	0	0	0	0	0	0	1	0	0	0	0	0	2002

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
11058	141	196.5	44137	0	0	0	0	0	0	1	0	0	0	0	1	2002
10693	115	211.7	50374	0	0	0	0	0	0	1	0	0	0	0	1	2002
11345	93	178.0	38388	0	0	0	0	0	0	0	1	0	0	0	2	2002
11081	167	180.3	36714	0	0	0	0	0	0	0	1	0	0	0	0	2002
10790	167	198.9	45056	0	0	0	0	0	0	0	1	0	0	0	0	2002
10589	168	214.5	52158	0	0	0	0	0	0	0	1	0	0	0	0	2002
10845	167	180.8	37617	0	0	0	0	0	0	0	1	0	0	0	0	2002
10828	168	209.9	50386	0	0	0	0	0	0	0	0	1	0	0	0	2002
10871	168	206.5	48946	0	0	0	0	0	0	0	0	1	0	0	0	2002
10550	168	243.5	63877	0	0	0	0	0	0	0	0	1	0	0	0	2002
10553	168	209.0	49696	0	0	0	0	0	0	0	0	1	0	0	0	2002
10749	168	234.5	60594	0	0	0	0	0	0	0	0	0	1	0	0	2002
10554	168	240.8	62956	0	0	0	0	0	0	0	0	0	1	0	0	2002
10763	168	171.4	32738	0	0	0	0	0	0	0	0	0	1	0	0	2002
10624	169	242.2	63916	0	0	0	0	0	0	0	0	0	1	0	0	2002
11021	168	218.5	52972	0	0	0	0	0	0	0	0	0	1	0	0	2002
11060	168	194.3	42200	0	0	0	0	0	0	0	0	0	0	1	0	2002
11172	108	165.2	30616	0	0	0	0	0	0	0	0	0	0	1	1	2002
11063	168	167.1	30892	0	0	0	0	0	0	0	0	0	0	1	0	2002
11230	168	145.6	23047	0	0	0	0	0	0	0	0	0	0	1	0	2002
10305	140	215.4	52152	0	0	0	0	0	0	0	0	0	0	0	1	2002
10781	168	201.7	45536	0	0	0	0	0	0	0	0	0	0	0	0	2002
11064	168	162.5	29734	0	0	0	0	0	0	0	0	0	0	0	0	2002
10698	168	154.9	26662	0	0	0	0	0	0	0	0	0	0	0	0	2002
11131	24	128.6	16689	0	0	0	0	0	0	0	0	0	0	0	0	2002
10566	121	209.0	50146	1	0	0	0	0	0	0	0	0	0	0	1	2003
10210	168	281.3	15091	1	0	0	0	0	0	0	0	0	0	0	0	2003
10192	168	267.7	9406	1	0	0	0	0	0	0	0	0	0	0	0	2003
10177	168	291.3	20169	1	0	0	0	0	0	0	0	0	0	0	0	2003
10259	168	284.6	16944	0	1	0	0	0	0	0	0	0	0	0	0	2003
10349	168	264.4	8137	0	1	0	0	0	0	0	0	0	0	0	0	2003
10311	168	265.4	8161	0	1	0	0	0	0	0	0	0	0	0	0	2003
10294	168	285.9	16524	0	1	0	0	0	0	0	0	0	0	0	0	2003
10326	168	274.3	10732	0	0	1	0	0	0	0	0	0	0	0	0	2003
10282	168	267.3	8836	0	0	1	0	0	0	0	0	0	0	0	0	2003
10497	160	270.3	10431	0	0	1	0	0	0	0	0	0	0	0	0	2003
10639	131	257.9	4439	0	0	1	0	0	0	0	0	0	0	0	1	2003
10242	167	264.7	6412	0	0	1	0	0	0	0	0	0	0	0	0	2003
* 9379	75	196.4	39895	0	0	0	1	0	0	0	0	0	0	0	0	2003
11769	81	173.7	37047	0	0	0	1	0	0	0	0	0	0	0	1	2003
* 9075	168	252.3	2118	0	0	0	0	1	0	0	0	0	0	0	0	2003
9757	168	235.0	60567	0	0	0	0	1	0	0	0	0	0	0	0	2003
9993	168	234.8	60513	0	0	0	0	1	0	0	0	0	0	0	0	2003
11358	168	223.6	56523	0	0	0	0	1	0	0	0	0	0	0	0	2003
*11785	168	230.3	58755	0	0	0	0	1	0	0	0	0	0	0	0	2003
10407	168	231.3	59099	0	0	0	0	0	1	0	0	0	0	0	0	2003
10178	168	243.0	64410	0	0	0	0	0	1	0	0	0	0	0	0	2003

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
10300	168	227.9	58544	0	0	0	0	0	1	0	0	0	0	0	0	2003
10333	144	249.2	1605	0	0	0	0	0	1	0	0	0	0	0	0	2003

Data Base for CRIST 6 Target Heat Rate Equation

HR	Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH.
HOUR	Number of hours the unit was synchronized during the week.
AMW	Average load on the unit, in MW.
LSRF	Load square range factor, in MW^2.
JAN to NOV	The number 1 indicates the month of the observation. All 0's indicate December.
NS	Number of unit start ups during the week after being shut down for 24 hours or more.
YEAR	The year of the observation.
•	Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

Data Base for CRIST 7 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10354	168	385.4	29837	0	0	0	0	0	0	1	0	0	0	0	0	2000
10709	129	444.0	7806	0	0	0	0	0	0	1	0	0	0	0	1	2000
10662	145	453.3	13602	0	0	0	0	0	0	1	0	0	0	0	0	2000
10541	168	417.3	53347	0	0	0	0	0	0	1	0	0	0	0	0	2000
10368	168	423.4	55245	0	0	0	0	0	0	0	1	0	0	0	0	2000
10336	134	424.1	56216	0	0	0	0	0	0	0	1	0	0	0	1	2000
10414	168	425.9	57782	0	0	0	0	0	0	0	1	0	0	0	0	2000
10373	168	448.3	7636	0	0	0	0	0	0	0	1	0	0	0	0	2000
10483	168	438.3	65261	0	0	0	0	0	0	0	1	0	0	0	0	2000
10412	168	421.9	54666	0	0	0	0	0	0	0	0	1	0	0	0	2000
10789	168	432.6	60523	0	0	0	0	0	0	0	0	1	0	0	0	2000
10360	164	399.2	39589	0	0	0	0	0	0	0	0	1	0	0	0	2000
10398	168	409.3	45590	0	0	0	0	0	0	0	0	1	0	0	0	2000
9522	168	386.9	31831	0	0	0	0	0	0	0	0	0	1	0	0	2000
10801	155	378.7	25697	0	0	0	0	0	0	0	0	0	1	0	0	2000
10721	161	305.7	42809	0	0	0	0	0	0	0	0	0	1	0	0	2000
10610	118	407.1	46399	0	0	0	0	0	0	0	0	0	1	0	1	2000
10525	169	410.2	48065	0	0	0	0	0	0	0	0	0	1	0	0	2000
10531	119	384.8	28794	0	0	0	0	0	0	0	0	0	0	1	0	2000
10357	161	441.5	4501	0	0	0	0	0	0	0	0	0	0	1	1	2000
10407	168	455.3	14647	0	0	0	0	0	0	0	0	0	0	1	0	2000
10452	149	435.5	1050	0	0	0	0	0	0	0	0	0	0	1	0	2000
10025	168	477.9	31815	0	0	0	0	0	0	0	0	0	0	0	0	2000
10114	139	440.3	4058	0	0	0	0	0	0	0	0	0	0	0	1	2000
10107	168	439.1	2882	0	0	0	0	0	0	0	0	0	0	0	0	2000
10292	168	347.8	1329	0	0	0	0	0	0	0	0	0	0	0	0	2000
10149	24	475.6	29574	0	0	0	0	0	0	0	0	0	0	0	0	2000
10373	104	434.1	2291	1	0	0	0	0	0	0	0	0	0	0	1	2001
10170	168	420.5	54657	1	0	0	0	0	0	0	0	0	0	0	0	2001
10279	168	337.3	58535	1	0	0	0	0	0	0	0	0	0	0	0	2001
10897	129	313.4	41749	1	0	0	0	0	0	0	0	0	0	0	1	2001
10455	157	359.4	8987	0	1	0	0	0	0	0	0	0	0	0	0	2001
10618	37	281.9	23817	0	1	0	0	0	0	0	0	0	0	0	1	2001
10246	165	433.5	64953	0	0	1	0	0	0	0	0	0	0	0	1	2001
10591	168	377.9	17738	0	0	0	1	0	0	0	0	0	0	0	0	2001
10236	143	394.7	33673	0	0	0	1	0	0	0	0	0	0	0	1	2001
10182	168	458.7	17277	0	0	0	1	0	0	0	0	0	0	0	0	2001
10526	122	401.4	42940	0	0	0	1	0	0	0	0	0	0	0	1	2001
10155	89	444.4	7400	0	0	0	0	1	0	0	0	0	0	0	1	2001
10580	168	412.6	49950	0	0	0	0	1	0	0	0	0	0	0	0	2001
10151	139	380.7	28732	0	0	0	0	1	0	0	0	0	0	0	1	2001
10058	168	418.4	53067	0	0	0	0	1	0	0	0	0	0	0	0	2001
10273	168	384.1	29664	0	0	0	0	1	0	0	0	0	0	0	0	2001
10301	168	394.5	36344	0	0	0	0	0	1	0	0	0	0	0	0	2001
10334	168	419.8	54449	0	0	0	0	0	1	0	0	0	0	0	0	2001
10301	168	410.2	47815	0	0	0	0	0	1	0	0	0	0	0	0	2001
10293	144	404.2	42880	0	0	0	0	0	1	0	0	0	0	0	0	2001

Data Base for CRIST 7 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10560	168	378.6	25324	0	0	0	0	0	0	1	0	0	0	0	0	2001
10538	168	426.8	56438	0	0	0	0	0	0	1	0	0	0	0	0	2001
10567	155	424.2	56464	0	0	0	0	0	0	1	0	0	0	0	0	2001
10403	138	427.2	57724	0	0	0	0	0	0	1	0	0	0	0	1	2001
10483	168	424.5	56882	0	0	0	0	0	0	0	1	0	0	0	0	2001
10327	168	428.0	60101	0	0	0	0	0	0	0	1	0	0	0	0	2001
10742	77	376.3	26784	0	0	0	0	0	0	0	1	0	0	0	1	2001
10726	132	335.5	60291	0	0	0	0	0	0	0	0	0	1	0	1	2001
10793	133	276.4	18411	0	0	0	0	0	0	0	0	0	1	0	0	2001
10651	152	291.3	33337	0	0	0	0	0	0	0	0	0	1	0	1	2001
10500	156	290.9	28777	0	0	0	0	0	0	0	0	0	1	0	0	2001
10606	168	292.3	29313	0	0	0	0	0	0	0	0	0	0	1	0	2001
10153	168	351.0	6496	0	0	0	0	0	0	0	0	0	0	1	0	2001
10907	167	253.2	5658	0	0	0	0	0	0	0	0	0	0	1	0	2001
10789	168	297.3	35249	0	0	0	0	0	0	0	0	0	0	1	0	2001
10737	168	245.8	63840	0	0	0	0	0	0	0	0	0	0	0	0	2001
10511	168	269.0	14477	0	0	0	0	0	0	0	0	0	0	0	0	2001
10728	168	245.1	64858	0	0	0	0	0	0	0	0	0	0	0	0	2001
10591	168	275.3	19663	0	0	0	0	0	0	0	0	0	0	0	0	2001
10234	24	381.0	18773	0	0	0	0	0	0	0	0	0	0	0	0	2001
10314	168	378.7	24041	1	0	0	0	0	0	0	0	0	0	0	0	2002
10654	168	295.2	34461	1	0	0	0	0	0	0	0	0	0	0	0	2002
10666	168	267.6	16590	1	0	0	0	0	0	0	0	0	0	0	0	2002
11168	168	207.6	43385	1	0	0	0	0	0	0	0	0	0	0	0	2002
11091	168	219.0	50598	0	1	0	0	0	0	0	0	0	0	0	0	2002
10690	168	301.9	38965	0	1	0	0	0	0	0	0	0	0	0	0	2002
10837	168	256.2	7724	0	1	0	0	0	0	0	0	0	0	0	0	2002
10703	168	272.4	16244	0	1	0	0	0	0	0	0	0	0	0	0	2002
9861	168	361.2	12556	0	0	1	0	0	0	0	0	0	0	0	0	2002
9411	130	393.9	37892	0	0	1	0	0	0	0	0	0	0	0	1	2002
9501	96	369.2	19940	0	0	1	0	0	0	0	0	0	0	0	0	2002
11124	129	274.2	20002	0	0	0	0	1	0	0	0	0	0	0	1	2002
10431	156	271.9	9174	0	0	0	0	1	0	0	0	0	0	0	0	2002
10157	93	295.6	22086	0	0	0	0	1	0	0	0	0	0	0	0	2002
10606	157	334.6	60611	0	0	0	0	1	0	0	0	0	0	0	1	2002
10494	168	350.8	6705	0	0	0	0	0	1	0	0	0	0	0	0	2002
10460	168	344.6	2074	0	0	0	0	0	1	0	0	0	0	0	0	2002
10519	124	372.9	22137	0	0	0	0	0	1	0	0	0	0	0	1	2002
10545	144	368.1	18450	0	0	0	0	0	1	0	0	0	0	0	0	2002
10577	168	367.6	18013	0	0	0	0	0	0	1	0	0	0	0	0	2002
10465	168	388.2	32189	0	0	0	0	0	0	1	0	0	0	0	0	2002
10482	164	411.8	48265	0	0	0	0	0	0	1	0	0	0	0	0	2002
10485	168	379.4	25374	0	0	0	0	0	0	1	0	0	0	0	0	2002
10389	168	396.8	37802	0	0	0	0	0	0	0	1	0	0	0	0	2002
10451	168	393.9	34795	0	0	0	0	0	0	0	1	0	0	0	0	2002
10384	168	402.2	40811	0	0	0	0	0	0	0	1	0	0	0	0	2002
10481	168	399.1	38218	0	0	0	0	0	0	0	1	0	0	0	0	2002

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
10446	168	381.4	26812	0	0	0	0	0	0	0	1	0	0	0	0	2002
10416	168	397.4	37232	0	0	0	0	0	0	0	0	1	0	0	0	2002
10343	168	411.2	45910	0	0	0	0	0	0	0	0	1	0	0	0	2002
10405	123	425.2	57890	0	0	0	0	0	0	0	0	1	0	0	1	2002
10507	168	414.3	48171	0	0	0	0	0	0	0	0	1	0	0	0	2002
10094	168	449.2	7663	0	0	0	0	0	0	0	0	0	1	0	0	2002
10088	168	440.3	1090	0	0	0	0	0	0	0	0	0	1	0	0	2002
10040	168	388.4	29897	0	0	0	0	0	0	0	0	0	1	0	0	2002
9955	115	430.0	60394	0	0	0	0	0	0	0	0	0	1	0	0	2002
11162	40	313.3	44711	0	0	0	0	0	0	0	0	0	0	1	1	2002
10579	168	364.5	11672	0	0	0	0	0	0	0	0	0	0	1	0	2002
10476	168	404.8	41263	0	0	0	0	0	0	0	0	0	0	1	0	2002
10403	168	375.9	19933	0	0	0	0	0	0	0	0	0	0	1	0	2002
10094	168	454.3	12461	0	0	0	0	0	0	0	0	0	0	0	0	2002
10143	168	421.0	53094	0	0	0	0	0	0	0	0	0	0	0	0	2002
10354	168	378.2	22136	0	0	0	0	0	0	0	0	0	0	0	0	2002
10334	168	383.7	26281	0	0	0	0	0	0	0	0	0	0	0	0	2002
10373	24	360.2	8220	0	0	0	0	0	0	0	0	0	0	0	0	2002
10195	168	415.9	49969	1	0	0	0	0	0	0	0	0	0	0	0	2003
10092	168	439.9	2003	1	0	0	0	0	0	0	0	0	0	0	0	2003
10027	168	448.9	9080	1	0	0	0	0	0	0	0	0	0	0	0	2003
10125	168	393.4	34461	1	0	0	0	0	0	0	0	0	0	0	0	2003
10260	168	405.0	41190	0	1	0	0	0	0	0	0	0	0	0	0	2003
10365	168	423.0	53736	0	1	0	0	0	0	0	0	0	0	0	0	2003
9942	168	413.5	47996	0	1	0	0	0	0	0	0	0	0	0	0	2003
10315	168	433.0	62817	0	1	0	0	0	0	0	0	0	0	0	0	2003
10368	72	456.4	16069	0	0	1	0	0	0	0	0	0	0	0	0	2003
11640	64	242.4	60292	0	0	1	0	0	0	0	0	0	0	0	1	2003
10358	167	405.8	41420	0	0	0	1	0	0	0	0	0	0	0	0	2003
10019	168	422.2	54676	0	0	0	1	0	0	0	0	0	0	0	0	2003
10334	138	408.0	44851	0	0	0	1	0	0	0	0	0	0	0	1	2003
10201	168	424.4	55148	0	0	0	1	0	0	0	0	0	0	0	0	2003
10332	168	412.5	50190	0	0	0	0	1	0	0	0	0	0	0	0	2003
10332	168	403.2	43092	0	0	0	0	1	0	0	0	0	0	0	0	2003
10369	168	411.6	47518	0	0	0	0	1	0	0	0	0	0	0	0	2003
10405	168	386.1	32339	0	0	0	0	1	0	0	0	0	0	0	0	2003
10313	168	406.1	43854	0	0	0	0	1	0	0	0	0	0	0	0	2003
10492	168	408.9	45376	0	0	0	0	0	1	0	0	0	0	0	0	2003
10437	168	420.2	53343	0	0	0	0	0	1	0	0	0	0	0	0	2003
10638	168	385.7	32935	0	0	0	0	0	1	0	0	0	0	0	0	2003
10498	144	426.2	58068	0	0	0	0	0	1	0	0	0	0	0	0	2003

Data Base for CRIST 7 Target Heat Rate Equation

HR	Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH.
HOUR	Number of hours the unit was synchronized during the week.
AMW	Average load on the unit, in MW.
LSRF	Load square range factor, in MW^2.
JAN to NOV	The number 1 indicates the month of the observation. All 0's indicate December.
NS	Number of unit start ups during the week after being shut down for 24 hours or more.
YEAR	The year of the observation.
*	Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

Data Base for SMITH 1 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10488	144	127.0	17979	0	0	0	0	0	0	1	0	0	0	0	1	2000
10084	168	157.0	24787	0	0	0	0	0	0	1	0	0	0	0	0	2000
10065	168	155.8	24454	0	0	0	0	0	0	1	0	0	0	0	0	2000
10051	168	135.1	19578	0	0	0	0	0	0	1	0	0	0	0	0	2000
10044	168	140.1	20658	0	0	0	0	0	0	0	1	0	0	0	0	2000
10198	168	149.4	22784	0	0	0	0	0	0	0	1	0	0	0	0	2000
9980	168	144.7	21837	0	0	0	0	0	0	0	1	0	0	0	0	2000
9976	168	143.7	21421	0	0	0	0	0	0	0	1	0	0	0	0	2000
10015	168	147.9	22474	0	0	0	0	0	0	0	1	0	0	0	0	2000
10040	168	137.7	20122	0	0	0	0	0	0	0	0	1	0	0	0	2000
10169	168	143.0	21326	0	0	0	0	0	0	0	0	1	0	0	0	2000
10058	168	131.3	18662	0	0	0	0	0	0	0	0	1	0	0	0	2000
9979	168	135.1	19504	0	0	0	0	0	0	0	0	1	0	0	0	2000
10211	168	123.3	16508	0	0	0	0	0	0	0	0	0	1	0	0	2000
10171	168	139.6	20554	0	0	0	0	0	0	0	0	0	1	0	0	2000
10280	168	146.6	22480	0	0	0	0	0	0	0	0	0	1	0	0	2000
10202	168	138.2	20503	0	0	0	0	0	0	0	0	0	1	0	0	2000
10149	167	131.9	19136	0	0	0	0	0	0	0	0	0	1	0	0	2000
9894	153	148.9	22856	0	0	0	0	0	0	0	0	0	0	1	1	2000
9841	168	153.1	24033	0	0	0	0	0	0	0	0	0	0	1	0	2000
10130	168	148.6	22606	0	0	0	0	0	0	0	0	0	0	1	0	2000
9878	168	160.0	25639	0	0	0	0	0	0	0	0	0	0	0	0	2000
9920	168	136.1	19624	0	0	0	0	0	0	0	0	0	0	0	0	2000
10133	168	141.8	21218	0	0	0	0	0	0	0	0	0	0	0	0	2000
9977	168	153.3	23895	0	0	0	0	0	0	0	0	0	0	0	0	2000
10077	24	162.6	26435	0	0	0	0	0	0	0	0	0	0	0	0	2000
9887	168	157.5	24988	1	0	0	0	0	0	0	0	0	0	0	0	2001
9893	168	146.0	22120	1	0	0	0	0	0	0	0	0	0	0	0	2001
10024	168	112.2	13972	1	0	0	0	0	0	0	0	0	0	0	0	2001
10218	168	109.0	12976	1	0	0	0	0	0	0	0	0	0	0	0	2001
10032	168	103.0	11523	0	1	0	0	0	0	0	0	0	0	0	0	2001
10118	168	131.7	18687	0	1	0	0	0	0	0	0	0	0	0	0	2001
9795	168	152.5	23758	0	1	0	0	0	0	0	0	0	0	0	0	2001
9850	168	158.8	25318	0	1	0	0	0	0	0	0	0	0	0	0	2001
9866	168	156.7	24710	0	0	1	0	0	0	0	0	0	0	0	0	2001
9730	168	160.3	25748	0	0	1	0	0	0	0	0	0	0	0	0	2001
10064	168	154.7	24212	0	0	1	0	0	0	0	0	0	0	0	0	2001
10494	168	157.2	25050	0	0	1	0	0	0	0	0	0	0	0	0	2001
10087	167	162.7	26459	0	0	1	0	0	0	0	0	0	0	0	0	2001
10116	168	157.7	25093	0	0	0	1	0	0	0	0	0	0	0	0	2001
10018	168	158.2	25306	0	0	0	1	0	0	0	0	0	0	0	0	2001
9958	118	159.8	25786	0	0	0	1	0	0	0	0	0	0	0	0	2001
10339	75	141.4	21164	0	0	0	0	1	0	0	0	0	0	0	1	2001
10050	168	134.4	19566	0	0	0	0	1	0	0	0	0	0	0	0	2001
10083	168	143.1	21620	0	0	0	0	1	0	0	0	0	0	0	0	2001
10325	168	135.0	19676	0	0	0	0	1	0	0	0	0	0	0	0	2001
10253	168	147.0	22151	0	0	0	0	0	1	0	0	0	0	0	0	2001

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
10325	168	150.7	23060	0	0	0	0	0	1	0	0	0	0	0	0	2001
10086	168	146.7	22062	0	0	0	0	0	1	0	0	0	0	0	0	2001
10035	144	144.9	21675	0	0	0	0	0	1	0	0	0	0	0	0	2001
10113	168	142.3	20828	0	0	0	0	0	0	1	0	0	0	0	0	2001
10378	168	151.8	23364	0	0	0	0	0	0	1	0	0	0	0	0	2001
10167	168	148.8	22610	0	0	0	0	0	0	1	0	0	0	0	0	2001
10134	168	161.6	26174	0	0	0	0	0	0	1	0	0	0	0	0	2001
10155	168	159.9	25585	0	0	0	0	0	0	0	1	0	0	0	0	2001
10302	168	157.3	24789	0	0	0	0	0	0	0	1	0	0	0	0	2001
10230	168	152.8	23707	0	0	0	0	0	0	0	1	0	0	0	0	2001
10274	168	148.5	22460	0	0	0	0	0	0	0	1	0	0	0	0	2001
10131	168	149.5	22934	0	0	0	0	0	0	0	1	0	0	0	0	2001
10140	168	144.6	21330	0	0	0	0	0	0	0	0	1	0	0	0	2001
9948	168	143.5	20980	0	0	0	0	0	0	0	0	1	0	0	0	2001
10076	168	138.9	20135	0	0	0	0	0	0	0	0	1	0	0	0	2001
10331	168	145.3	21456	0	0	0	0	0	0	0	0	1	0	0	0	2001
10244	160	143.6	21158	0	0	0	0	0	0	0	0	0	1	0	0	2001
10358	91	151.1	23357	0	0	0	0	0	0	0	0	0	1	0	1	2001
10206	168	140.6	20494	0	0	0	0	0	0	0	0	0	1	0	0	2001
10282	142	129.9	17952	0	0	0	0	0	0	0	0	0	1	0	1	2001
10116	168	124.8	16968	0	0	0	0	0	0	0	0	0	0	1	0	2001
10211	168	120.5	15363	0	0	0	0	0	0	0	0	0	0	1	0	2001
10233	168	118.6	15274	0	0	0	0	0	0	0	0	0	0	1	0	2001
10232	168	113.0	13153	0	0	0	0	0	0	0	0	0	0	1	0	2001
10310	168	104.8	11379	0	0	0	0	0	0	0	0	0	0	0	0	2001
10200	168	107.5	12147	0	0	0	0	0	0	0	0	0	0	0	0	2001
10168	168	113.7	13477	0	0	0	0	0	0	0	0	0	0	0	0	2001
10299	168	107.6	12069	0	0	0	0	0	0	0	0	0	0	0	0	2001
10191	24	102.1	10851	0	0	0	0	0	0	0	0	0	0	0	0	2001
10030	168	136.0	19496	1	0	0	0	0	0	0	0	0	0	0	0	2002
9888	168	126.0	16469	1	0	0	0	0	0	0	0	0	0	0	0	2002
9919	168	118.3	14431	1	0	0	0	0	0	0	0	0	0	0	0	2002
10393	111	111.1	12561	1	0	0	0	0	0	0	0	0	0	0	1	2002
10252	168	116.5	13672	0	1	0	0	0	0	0	0	0	0	0	0	2002
10101	168	126.6	16327	0	1	0	0	0	0	0	0	0	0	0	0	2002
10079	168	123.9	15654	0	1	0	0	0	0	0	0	0	0	0	0	2002
10141	166	129.4	17179	0	1	0	0	0	0	0	0	0	0	0	0	2002
10210	168	141.5	20440	0	0	1	0	0	0	0	0	0	0	0	0	2002
10391	168	147.6	22150	0	0	1	0	0	0	0	0	0	0	0	0	2002
10114	168	140.7	20238	0	0	1	0	0	0	0	0	0	0	0	0	2002
10114	168	137.1	19239	0	0	1	0	0	0	0	0	0	0	0	0	2002
9920	4	99.5	10395	0	0	1	0	0	0	0	0	0	0	0	0	2002
10726	95	108.3	13091	0	0	0	1	0	0	0	0	0	0	0	1	2002
10488	168	93.2	9151	0	0	0	0	1	0	0	0	0	0	0	0	2002
10248	168	126.9	17102	0	0	0	0	1	0	0	0	0	0	0	0	2002
10435	168	117.4	15392	0	0	0	0	1	0	0	0	0	0	0	0	2002
10224	168	121.7	16435	0	0	0	0	1	0	0	0	0	0	0	0	2002

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
10197	168	117.7	15534	0	0	0	0	1	0	0	0	0	0	0	0	2002
10169	168	133.5	18662	0	0	0	0	0	1	0	0	0	0	0	0	2002
10286	168	132.8	18519	0	0	0	0	0	1	0	0	0	0	0	0	2002
10234	168	136.9	19484	0	0	0	0	0	1	0	0	0	0	0	0	2002
10320	144	139.1	20030	0	0	0	0	0	1	0	0	0	0	0	0	2002
10485	168	136.5	19362	0	0	0	0	0	0	1	0	0	0	0	0	2002
10378	168	140.6	20422	0	0	0	0	0	0	1	0	0	0	0	0	2002
10183	168	145.7	21765	0	0	0	0	0	0	1	0	0	0	0	0	2002
10215	168	138.2	19782	0	0	0	0	0	0	1	0	0	0	0	0	2002
10321	168	138.0	19683	0	0	0	0	0	0	0	1	0	0	0	0	2002
10272	168	137.1	19720	0	0	0	0	0	0	0	1	0	0	0	0	2002
10225	168	143.5	21171	0	0	0	0	0	0	0	1	0	0	0	0	2002
10146	168	143.8	21239	0	0	0	0	0	0	0	1	0	0	0	0	2002
10073	168	136.4	19178	0	0	0	0	0	0	0	1	0	0	0	0	2002
10251	168	145.6	21886	0	0	0	0	0	0	0	0	1	0	0	0	2002
10249	168	146.6	22022	0	0	0	0	0	0	0	0	1	0	0	0	2002
10068	168	150.4	22943	0	0	0	0	0	0	0	0	1	0	0	0	2002
10210	168	141.2	20822	0	0	0	0	0	0	0	0	1	0	0	0	2002
10151	168	154.3	24070	0	0	0	0	0	0	0	0	0	1	0	0	2002
10277	168	154.3	23998	0	0	0	0	0	0	0	0	0	1	0	0	2002
10281	151	136.6	19816	0	0	0	0	0	0	0	0	0	1	0	0	2002
10281	116	146.6	22107	0	0	0	0	0	0	0	0	0	1	0	0	2002
11783	14	79.2	7743	0	0	0	0	0	0	0	0	0	1	0	1	2002
10473	168	127.7	17780	0	0	0	0	0	0	0	0	0	0	1	0	2002
10496	168	124.1	15935	0	0	0	0	0	0	0	0	0	0	1	0	2002
10452	168	138.5	19777	0	0	0	0	0	0	0	0	0	0	1	0	2002
10205	168	136.7	19277	0	0	0	0	0	0	0	0	0	0	1	0	2002
10181	168	148.6	22429	0	0	0	0	0	0	0	0	0	0	0	0	2002
10236	168	141.1	20565	0	0	0	0	0	0	0	0	0	0	0	0	2002
10124	168	134.6	19144	0	0	0	0	0	0	0	0	0	0	0	0	2002
10717	168	119.9	15616	0	0	0	0	0	0	0	0	0	0	0	0	2002
10640	24	113.8	13946	0	0	0	0	0	0	0	0	0	0	0	0	2002
10717	168	124.4	17108	1	0	0	0	0	0	0	0	0	0	0	0	2003
10193	168	133.6	18777	1	0	0	0	0	0	0	0	0	0	0	0	2003
10121	168	143.1	21448	1	0	0	0	0	0	0	0	0	0	0	0	2003
10044	168	135.6	19412	1	0	0	0	0	0	0	0	0	0	0	0	2003
10101	168	121.3	15992	0	1	0	0	0	0	0	0	0	0	0	0	2003
10271	168	122.2	16108	0	1	0	0	0	0	0	0	0	0	0	0	2003
10044	168	122.1	16169	0	1	0	0	0	0	0	0	0	0	0	0	2003
10178	128	129.3	18120	0	1	0	0	0	0	0	0	0	0	0	1	2003
10361	168	152.1	23496	0	0	1	0	0	0	0	0	0	0	0	0	2003
10440	168	141.5	20982	0	0	1	0	0	0	0	0	0	0	0	0	2003
10573	168	138.4	20415	0	0	1	0	0	0	0	0	0	0	0	0	2003
10843	168	134.7	19386	0	0	1	0	0	0	0	0	0	0	0	0	2003
10414	168	141.9	21395	0	0	1	0	0	0	0	0	0	0	0	0	2003
10511	167	145.7	21928	0	0	0	1	0	0	0	0	0	0	0	0	2003
10807	168	136.5	20039	0	0	0	1	0	0	0	0	0	0	0	0	2003

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
10360	71	133.9	19622	0	0	0	1	0	0	0	0	0	0	0	0	2003
10860	85	115.8	15111	0	0	0	0	1	0	0	0	0	0	0	1	2003
10512	168	122.1	16885	0	0	0	0	1	0	0	0	0	0	0	0	2003
10391	168	124.5	17250	0	0	0	0	1	0	0	0	0	0	0	0	2003
10475	168	129.3	18281	0	0	0	0	0	1	0	0	0	0	0	0	2003
10422	168	131.0	18761	0	0	0	0	0	1	0	0	0	0	0	0	2003
10588	168	119.8	16640	0	0	0	0	0	1	0	0	0	0	0	0	2003
10406	144	137.0	20224	0	0	0	0	0	1	0	0	0	0	0	0	2003

Data Base for SMITH 1 Target Heat Rate Equation

HR	Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH.
HOUR	Number of hours the unit was synchronized during the week.
AMW	Average load on the unit, in MW.
LSRF	Load square range factor, in MW^2.
JAN to NOV	The number 1 indicates the month of the observation. All 0's indicate December.
NS	Number of unit start ups during the week after being shut down for 24 hours or more.
YEAR	The year of the observation.
*	Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

Data Base for SMITH 2 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10344	168	154.4	26091	0	0	0	0	0	0	1	0	0	0	0	0	2000
10268	168	182.7	33641	0	0	0	0	0	0	1	0	0	0	0	0	2000
10207	168	179.6	32561	0	0	0	0	0	0	1	0	0	0	0	0	2000
10291	168	152.7	25443	0	0	0	0	0	0	1	0	0	0	0	0	2000
10286	168	160.1	27329	0	0	0	0	0	0	0	1	0	0	0	0	2000
10337	168	172.1	30359	0	0	0	0	0	0	0	1	0	0	0	0	2000
10265	168	164.9	28619	0	0	0	0	0	0	0	1	0	0	0	0	2000
10236	168	164.2	28229	0	0	0	0	0	0	0	1	0	0	0	0	2000
10240	168	170.7	30046	0	0	0	0	0	0	0	1	0	0	0	0	2000
10327	168	155.9	26274	0	0	0	0	0	0	0	0	1	0	0	0	2000
10273	159	161.4	27879	0	0	0	0	0	0	0	0	1	0	0	0	2000
10299	168	148.8	24487	0	0	0	0	0	0	0	0	1	0	0	0	2000
10193	168	148.6	24297	0	0	0	0	0	0	0	0	1	0	0	0	2000
10352	168	138.2	21356	0	0	0	0	0	0	0	0	0	1	0	0	2000
10345	46	144.3	23091	0	0	0	0	0	0	0	0	0	1	0	0	2000
10408	161	153.2	26067	0	0	0	0	0	0	0	0	0	1	0	1	2000
10435	169	147.7	24530	0	0	0	0	0	0	0	0	0	1	0	0	2000
10233	168	157.6	27061	0	0	0	0	0	0	0	0	0	0	1	0	2000
10129	168	174.5	31493	0	0	0	0	0	0	0	0	0	0	1	0	2000
10148	168	177.3	32400	0	0	0	0	0	0	0	0	0	0	1	0	2000
10353	151	165.4	28720	0	0	0	0	0	0	0	0	0	0	1	0	2000
10033	166	181.2	33381	0	0	0	0	0	0	0	0	0	0	0	0	2000
10311	143	138.0	21194	0	0	0	0	0	0	0	0	0	0	0	1	2000
10214	168	156.2	26632	0	0	0	0	0	0	0	0	0	0	0	0	2000
10144	168	176.9	32034	0	0	0	0	0	0	0	0	0	0	0	0	2000
10226	24	189.9	36054	0	0	0	0	0	0	0	0	0	0	0	0	2000
10095	168	183.3	33830	1	0	0	0	0	0	0	0	0	0	0	0	2001
10093	168	172.2	30541	1	0	0	0	0	0	0	0	0	0	0	0	2001
10249	168	124.6	17746	1	0	0	0	0	0	0	0	0	0	0	0	2001
10290	168	120.6	16199	1	0	0	0	0	0	0	0	0	0	0	0	2001
10133	168	113.9	14471	0	1	0	0	0	0	0	0	0	0	0	0	2001
9904	168	148.4	24306	0	1	0	0	0	0	0	0	0	0	0	0	2001
9958	144	170.5	30450	0	1	0	0	0	0	0	0	0	0	0	1	2001
9906	168	185.1	34423	0	1	0	0	0	0	0	0	0	0	0	0	2001
9923	146	178.6	32686	0	0	1	0	0	0	0	0	0	0	0	0	2001
9758	168	186.4	34791	0	0	1	0	0	0	0	0	0	0	0	0	2001
9836	118	176.7	31832	0	0	1	0	0	0	0	0	0	0	0	0	2001
10365	42	168.0	29964	0	0	0	1	0	0	0	0	0	0	0	1	2001
9783	168	187.6	35293	0	0	0	1	0	0	0	0	0	0	0	0	2001
9839	168	182.9	34103	0	0	0	1	0	0	0	0	0	0	0	0	2001
10017	168	179.9	33126	0	0	0	1	0	0	0	0	0	0	0	0	2001
10095	168	181.9	33502	0	0	0	0	1	0	0	0	0	0	0	0	2001
9891	168	163.6	28730	0	0	0	0	1	0	0	0	0	0	0	0	2001
9786	147	151.0	25413	0	0	0	0	1	0	0	0	0	0	0	0	2001
10140	142	157.6	27252	0	0	0	0	1	0	0	0	0	0	0	1	2001
10264	168	164.7	28740	0	0	0	0	1	0	0	0	0	0	0	0	2001
9929	168	166.2	28499	0	0	0	0	0	1	0	0	0	0	0	0	2001

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
10127	168	172.0	30223	0	0	0	0	0	1	0	0	0	0	0	0	2001
10058	168	165.7	28860	0	0	0	0	0	1	0	0	0	0	0	0	2001
10062	117	162.5	27836	0	0	0	0	0	1	0	0	0	0	0	0	2001
10057	168	158.8	26498	0	0	0	0	0	0	1	0	0	0	0	0	2001
10375	168	175.4	31205	0	0	0	0	0	0	1	0	0	0	0	0	2001
10201	168	170.9	29831	0	0	0	0	0	0	1	0	0	0	0	0	2001
10199	168	169.2	29474	0	0	0	0	0	0	1	0	0	0	0	0	2001
10055	168	169.0	29507	0	0	0	0	0	0	0	1	0	0	0	0	2001
10272	168	174.0	30479	0	0	0	0	0	0	0	1	0	0	0	0	2001
10248	168	143.5	23373	0	0	0	0	0	0	0	1	0	0	0	0	2001
10156	168	162.4	27843	0	0	0	0	0	0	0	1	0	0	0	0	2001
10065	168	163.5	28315	0	0	0	0	0	0	0	1	0	0	0	0	2001
10263	168	142.8	22878	0	0	0	0	0	0	0	0	1	0	0	0	2001
10184	168	139.0	22098	0	0	0	0	0	0	0	0	1	0	0	0	2001
10200	151	136.0	20976	0	0	0	0	0	0	0	0	1	0	0	0	2001
*10441	1	12.0	144	0	0	0	0	0	0	0	0	1	0	0	0	2001
10265	49	165.2	29203	0	0	0	0	0	0	0	0	0	1	0	1	2001
10159	168	169.3	29887	0	0	0	0	0	0	0	0	0	1	0	0	2001
10211	168	172.2	30372	0	0	0	0	0	0	0	0	0	1	0	0	2001
10025	168	162.3	27754	0	0	0	0	0	0	0	0	0	1	0	0	2001
9887	169	155.2	25575	0	0	0	0	0	0	0	0	0	1	0	0	2001
10372	140	141.1	22372	0	0	0	0	0	0	0	0	0	0	1	1	2001
9982	168	152.9	25525	0	0	0	0	0	0	0	0	0	0	1	0	2001
10175	132	118.5	15701	0	0	0	0	0	0	0	0	0	0	1	1	2001
10046	168	122.7	15757	0	0	0	0	0	0	0	0	0	0	1	0	2001
9978	168	116.7	14023	0	0	0	0	0	0	0	0	0	0	0	0	2001
10123	168	118.8	15161	0	0	0	0	0	0	0	0	0	0	0	0	2001
10069	59	108.5	13076	0	0	0	0	0	0	0	0	0	0	0	0	2001
10113	94	121.4	16438	0	0	0	0	0	0	0	0	0	0	0	1	2001
11133	24	105.3	11732	0	0	0	0	0	0	0	0	0	0	0	0	2001
9866	168	144.7	21926	1	0	0	0	0	0	0	0	0	0	0	0	2002
9876	168	132.5	18353	1	0	0	0	0	0	0	0	0	0	0	0	2002
9882	168	119.9	14880	1	0	0	0	0	0	0	0	0	0	0	0	2002
9717	86	112.3	12732	1	0	0	0	0	0	0	0	0	0	0	0	2002
10523	70	106.1	12027	0	1	0	0	0	0	0	0	0	0	0	1	2002
9992	168	124.4	15887	0	1	0	0	0	0	0	0	0	0	0	0	2002
9935	168	120.7	14861	0	1	0	0	0	0	0	0	0	0	0	0	2002
9955	168	127.5	16840	0	1	0	0	0	0	0	0	0	0	0	0	2002
9898	98	149.9	23504	0	0	1	0	0	0	0	0	0	0	0	0	2002
13940	27	45.9	2190	0	0	0	1	0	0	0	0	0	0	0	1	2002
10815	41	110.7	14466	0	0	0	0	1	0	0	0	0	0	0	1	2002
10007	161	141.2	22301	0	0	0	0	1	0	0	0	0	0	0	0	2002
10238	144	125.8	18286	0	0	0	0	1	0	0	0	0	0	0	1	2002
10120	168	131.8	20130	0	0	0	0	1	0	0	0	0	0	0	0	2002
10169	168	128.7	19309	0	0	0	0	1	0	0	0	0	0	0	0	2002
10636	64	113.7	14445	0	0	0	0	0	1	0	0	0	0	0	2	2002
10886	34	120.8	17626	0	0	0	0	0	1	0	0	0	0	0	1	2002

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
10483	13	124.5	16352	0	0	0	0	0	1	0	0	0	0	0	0	2002
10766	77	137.6	19856	0	0	0	0	0	0	1	0	0	0	0	2	2002
10756	110	133.1	18124	0	0	0	0	0	0	1	0	0	0	0	1	2002
10784	128	132.0	17722	0	0	0	0	0	0	1	0	0	0	0	1	2002
10755	168	121.8	14851	0	0	0	0	0	0	1	0	0	0	0	0	2002
10744	168	119.6	14327	0	0	0	0	0	0	0	1	0	0	0	0	2002
10815	168	122.6	15027	0	0	0	0	0	0	0	1	0	0	0	0	2002
10768	168	122.0	14924	0	0	0	0	0	0	0	1	0	0	0	0	2002
10648	168	123.8	15331	0	0	0	0	0	0	0	1	0	0	0	0	2002
10478	164	125.5	16006	0	0	0	0	0	0	0	1	0	0	0	0	2002
10794	23	111.0	13129	0	0	0	0	0	0	0	0	1	0	0	1	2002
10638	138	122.9	15365	0	0	0	0	0	0	0	0	1	0	0	1	2002
10623	168	124.3	15473	0	0	0	0	0	0	0	0	1	0	0	0	2002
10439	168	124.7	15544	0	0	0	0	0	0	0	0	0	1	0	0	2002
10491	168	123.5	15269	0	0	0	0	0	0	0	0	0	1	0	0	2002
10612	132	121.7	15025	0	0	0	0	0	0	0	0	0	1	0	1	2002
10714	136	122.1	15067	0	0	0	0	0	0	0	0	0	1	0	1	2002
10695	168	119.1	14184	0	0	0	0	0	0	0	0	0	1	0	0	2002
10662	168	120.3	14475	0	0	0	0	0	0	0	0	0	0	1	0	2002
10625	168	120.1	14436	0	0	0	0	0	0	0	0	0	0	1	0	2002
10588	168	120.7	14610	0	0	0	0	0	0	0	0	0	0	1	0	2002
10569	168	121.5	14787	0	0	0	0	0	0	0	0	0	0	1	0	2002
10494	168	123.5	15254	0	0	0	0	0	0	0	0	0	0	0	0	2002
10485	168	122.9	15114	0	0	0	0	0	0	0	0	0	0	0	0	2002
10600	168	119.8	14506	0	0	0	0	0	0	0	0	0	0	0	0	2002
10704	168	121.6	14796	0	0	0	0	0	0	0	0	0	0	0	0	2002
10665	24	122.2	14936	0	0	0	0	0	0	0	0	0	0	0	0	2002
*14731	2	31.5	1175	1	0	0	0	0	0	0	0	0	0	0	0	2003
11076	68	91.6	9413	0	0	0	1	0	0	0	0	0	0	0	1	2003
10172	168	128.5	19067	0	0	0	1	0	0	0	0	0	0	0	0	2003
10124	168	152.7	25535	0	0	0	1	0	0	0	0	0	0	0	0	2003
10240	114	150.4	24717	0	0	0	0	1	0	0	0	0	0	0	1	2003
10244	168	144.9	23479	0	0	0	0	1	0	0	0	0	0	0	0	2003
10271	168	142.7	22894	0	0	0	0	1	0	0	0	0	0	0	0	2003
10330	168	132.6	20471	0	0	0	0	1	0	0	0	0	0	0	0	2003
10158	168	139.6	22195	0	0	0	0	1	0	0	0	0	0	0	0	2003
10206	161	143.9	22955	0	0	0	0	0	1	0	0	0	0	0	0	2003
10255	168	147.1	24013	0	0	0	0	0	1	0	0	0	0	0	0	2003
10319	168	133.8	21329	0	0	0	0	0	1	0	0	0	0	0	0	2003
10123	144	152.9	25583	0	0	0	0	0	1	0	0	0	0	0	0	2003

Data Base for SMITH 2 Target Heat Rate Equation

HR	Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH
HOUR	Number of hours the unit was synchronized during the week.
AMW	Average load on the unit, in MW.
LSRF	Load square range factor, in MW^2.
JAN to NOV	The number 1 indicates the month of the observation. All 0's indicate December.
NS	Number of unit start ups during the week after being shut down for 24 hours or more.
YEAR	The year of the observation.
*	Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

Data Base for DANIEL 1 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
11089	168	497.2	52373	0	0	0	0	0	0	1	0	0	0	0	0	2000
10889	71	471.7	35127	0	0	0	0	0	0	1	0	0	0	0	1	2000
10655	168	472.4	36019	0	0	0	0	0	0	1	0	0	0	0	0	2000
10597	168	406.6	59116	0	0	0	0	0	0	1	0	0	0	0	0	2000
10358	150	465.8	28794	0	0	0	0	0	0	0	1	0	0	0	0	2000
10137	168	501.3	54885	0	0	0	0	0	0	0	1	0	0	0	0	2000
10372	167	466.2	31150	0	0	0	0	0	0	0	1	0	0	0	0	2000
10294	167	462.6	27431	0	0	0	0	0	0	0	1	0	0	0	0	2000
10272	121	469.3	32424	0	0	0	0	0	0	0	1	0	0	0	1	2000
10142	168	475.6	38231	0	0	0	0	0	0	0	0	1	0	0	0	2000
10004	168	491.6	46405	0	0	0	0	0	0	0	0	1	0	0	0	2000
10037	136	487.5	47356	0	0	0	0	0	0	0	0	1	0	0	1	2000
10010	168	482.6	42707	0	0	0	0	0	0	0	0	1	0	0	0	2000
10067	168	460.1	27650	0	0	0	0	0	0	0	0	0	1	0	0	2000
10103	168	482.1	43593	0	0	0	0	0	0	0	0	0	1	0	0	2000
9919	168	463.2	28003	0	0	0	0	0	0	0	0	0	1	0	0	2000
9937	168	470.2	32498	0	0	0	0	0	0	0	0	0	1	0	0	2000
9854	169	473.6	37604	0	0	0	0	0	0	0	0	0	1	0	0	2000
9960	168	488.3	46339	0	0	0	0	0	0	0	0	0	0	1	0	2000
9912	168	498.9	53929	0	0	0	0	0	0	0	0	0	0	1	0	2000
9910	168	480.6	37063	0	0	0	0	0	0	0	0	0	0	1	0	2000
11327	168	442.6	1816	0	0	0	0	0	0	0	0	0	0	1	0	2000
9417	168	479.6	35078	0	0	0	0	0	0	0	0	0	0	0	0	2000
10658	168	422.7	48045	0	0	0	0	0	0	0	0	0	0	0	0	2000
10222	168	407.2	42023	0	0	0	0	0	0	0	0	0	0	0	0	2000
10975	168	417.9	45312	0	0	0	0	0	0	0	0	0	0	0	0	2000
11374	24	425.3	49837	0	0	0	0	0	0	0	0	0	0	0	0	2000
9962	168	479.4	36727	1	0	0	0	0	0	0	0	0	0	0	0	2001
10416	168	429.6	55290	1	0	0	0	0	0	0	0	0	0	0	0	2001
10180	96	417.8	57434	1	0	0	0	0	0	0	0	0	0	0	0	2001
10620	69	428.7	468	0	0	1	0	0	0	0	0	0	0	0	1	2001
10176	138	474.0	33707	0	0	1	0	0	0	0	0	0	0	0	1	2001
10086	168	435.8	2427	0	0	1	0	0	0	0	0	0	0	0	0	2001
10054	168	463.7	25592	0	0	1	0	0	0	0	0	0	0	0	0	2001
10428	167	309.3	49744	0	0	1	0	0	0	0	0	0	0	0	0	2001
9879	168	407.7	54000	0	0	0	1	0	0	0	0	0	0	0	0	2001
10008	168	387.8	42553	0	0	0	1	0	0	0	0	0	0	0	0	2001
9942	168	413.9	57117	0	0	0	1	0	0	0	0	0	0	0	0	2001
10147	168	336.1	3674	0	0	0	1	0	0	0	0	0	0	0	0	2001
9920	168	337.1	3178	0	0	0	0	1	0	0	0	0	0	0	0	2001
10175	168	330.3	1056	0	0	0	0	1	0	0	0	0	0	0	0	2001
10477	168	278.4	34345	0	0	0	0	1	0	0	0	0	0	0	0	2001
10706	168	279.8	27721	0	0	0	0	1	0	0	0	0	0	0	0	2001
10512	168	315.7	53213	0	0	0	0	1	0	0	0	0	0	0	0	2001
10147	168	372.8	28388	0	0	0	0	0	1	0	0	0	0	0	0	2001
9911	168	423.7	62662	0	0	0	0	0	1	0	0	0	0	0	0	2001
9960	168	388.0	40274	0	0	0	0	0	1	0	0	0	0	0	0	2001

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
9992	144	360.9	18129	0	0	0	0	0	1	0	0	0	0	0	0	2001
10573	168	282.1	32423	0	0	0	0	0	0	1	0	0	0	0	0	2001
10626	168	248.5	15445	0	0	0	0	0	0	1	0	0	0	0	0	2001
10515	168	260.0	23897	0	0	0	0	0	0	1	0	0	0	0	0	2001
10525	168	265.6	27735	0	0	0	0	0	0	1	0	0	0	0	0	2001
10395	168	268.3	24484	0	0	0	0	0	0	0	1	0	0	0	0	2001
10628	168	324.9	59850	0	0	0	0	0	0	0	1	0	0	0	0	2001
10607	168	364.3	21198	0	0	0	0	0	0	0	1	0	0	0	0	2001
10611	168	348.7	12451	0	0	0	0	0	0	0	1	0	0	0	0	2001
11005	168	294.1	43426	0	0	0	0	0	0	0	1	0	0	0	0	2001
11152	168	276.4	28832	0	0	0	0	0	0	0	0	1	0	0	0	2001
10684	168	328.3	62058	0	0	0	0	0	0	0	0	1	0	0	0	2001
10507	168	369.6	25571	0	0	0	0	0	0	0	0	1	0	0	0	2001
10121	168	447.3	10891	0	0	0	0	0	0	0	0	1	0	0	0	2001
9772	168	443.4	10765	0	0	0	0	0	0	0	0	0	1	0	0	2001
9716	168	476.3	33613	0	0	0	0	0	0	0	0	0	1	0	0	2001
9923	168	466.6	26371	0	0	0	0	0	0	0	0	0	1	0	0	2001
9818	148	475.8	35092	0	0	0	0	0	0	0	0	0	1	0	0	2001
9817	169	441.2	11572	0	0	0	0	0	0	0	0	0	1	0	0	2001
10666	168	390.6	41263	0	0	0	0	0	0	0	0	0	0	1	0	2001
9872	168	451.1	14652	0	0	0	0	0	0	0	0	0	0	1	0	2001
10153	168	356.4	17956	0	0	0	0	0	0	0	0	0	0	1	0	2001
10064	168	373.6	30909	0	0	0	0	0	0	0	0	0	0	1	0	2001
10215	168	361.1	22603	0	0	0	0	0	0	0	0	0	0	0	0	2001
10209	168	366.0	23905	0	0	0	0	0	0	0	0	0	0	0	0	2001
10400	168	311.3	50949	0	0	0	0	0	0	0	0	0	0	0	0	2001
10706	168	278.3	30626	0	0	0	0	0	0	0	0	0	0	0	0	2001
11037	24	261.7	21546	0	0	0	0	0	0	0	0	0	0	0	0	2001
10182	168	375.1	25018	1	0	0	0	0	0	0	0	0	0	0	0	2002
10229	168	371.7	21187	1	0	0	0	0	0	0	0	0	0	0	0	2002
10798	168	237.7	42	1	0	0	0	0	0	0	0	0	0	0	0	2002
11491	47	184.6	40196	1	0	0	0	0	0	0	0	0	0	0	0	2002
11237	43	292.6	43148	0	1	0	0	0	0	0	0	0	0	0	1	2002
9778	168	327.4	60779	0	1	0	0	0	0	0	0	0	0	0	0	2002
10534	168	231.0	62792	0	1	0	0	0	0	0	0	0	0	0	0	2002
10418	168	348.4	5842	0	1	0	0	0	0	0	0	0	0	0	0	2002
10116	168	393.6	38371	0	0	1	0	0	0	0	0	0	0	0	0	2002
9924	168	448.9	13753	0	0	1	0	0	0	0	0	0	0	0	0	2002
9945	168	423.1	64139	0	0	1	0	0	0	0	0	0	0	0	0	2002
10029	168	431.0	2591	0	0	1	0	0	0	0	0	0	0	0	0	2002
9992	149	419.6	60760	0	0	1	0	0	0	0	0	0	0	0	0	2002
10934	56	276.9	28064	0	0	0	1	0	0	0	0	0	0	0	1	2002
10080	168	375.3	30653	0	0	0	1	0	0	0	0	0	0	0	0	2002
10161	115	357.1	18925	0	0	0	1	0	0	0	0	0	0	0	0	2002
10281	79	379.2	34717	0	0	0	1	0	0	0	0	0	0	0	1	2002
10094	168	403.0	50497	0	0	0	0	1	0	0	0	0	0	0	0	2002
10242	168	386.5	36504	0	0	0	0	1	0	0	0	0	0	0	0	2002

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
10310	168	351.8	13111	0	0	0	0	1	0	0	0	0	0	0	0	2002
10122	145	366.4	29820	0	0	0	0	1	0	0	0	0	0	0	0	2002
10256	143	349.3	14987	0	0	0	0	1	0	0	0	0	0	0	1	2002
10213	168	377.6	32391	0	0	0	0	0	1	0	0	0	0	0	0	2002
10322	168	365.3	24171	0	0	0	0	0	1	0	0	0	0	0	0	2002
10131	168	380.8	36120	0	0	0	0	0	1	0	0	0	0	0	0	2002
10380	144	352.2	14138	0	0	0	0	0	1	0	0	0	0	0	0	2002
10243	168	350.0	12325	0	0	0	0	0	0	1	0	0	0	0	0	2002
10091	168	384.0	36777	0	0	0	0	0	0	1	0	0	0	0	0	2002
9973	168	403.4	47136	0	0	0	0	0	0	1	0	0	0	0	0	2002
10164	137	350.2	15054	0	0	0	0	0	0	1	0	0	0	0	1	2002
10070	168	362.8	22966	0	0	0	0	0	0	0	1	0	0	0	0	2002
9826	168	390.4	35868	0	0	0	0	0	0	0	1	0	0	0	0	2002
10195	168	412.5	52312	0	0	0	0	0	0	0	1	0	0	0	0	2002
10228	168	404.6	45644	0	0	0	0	0	0	0	1	0	0	0	0	2002
10233	168	384.8	35812	0	0	0	0	0	0	0	1	0	0	0	0	2002
10020	168	412.0	53376	0	0	0	0	0	0	0	0	1	0	0	0	2002
9983	168	450.6	13979	0	0	0	0	0	0	0	0	1	0	0	0	2002
9913	168	482.5	37714	0	0	0	0	0	0	0	0	1	0	0	0	2002
10381	168	416.3	51307	0	0	0	0	0	0	0	0	1	0	0	0	2002
10101	168	468.5	26490	0	0	0	0	0	0	0	0	0	1	0	0	2002
9934	166	458.5	22951	0	0	0	0	0	0	0	0	0	1	0	0	2002
10047	150	402.2	46877	0	0	0	0	0	0	0	0	0	1	0	0	2002
9821	169	480.0	36406	0	0	0	0	0	0	0	0	0	1	0	0	2002
10210	168	410.2	47483	0	0	0	0	0	0	0	0	0	1	0	0	2002
9860	168	421.7	59169	0	0	0	0	0	0	0	0	0	0	1	0	2002
9907	168	402.7	45328	0	0	0	0	0	0	0	0	0	0	1	0	2002
9760	168	447.4	11327	0	0	0	0	0	0	0	0	0	0	1	0	2002
9934	168	389.1	33713	0	0	0	0	0	0	0	0	0	0	1	0	2002
9901	168	477.1	33951	0	0	0	0	0	0	0	0	0	0	0	0	2002
9868	168	438.1	4372	0	0	0	0	0	0	0	0	0	0	0	0	2002
10081	168	393.0	37818	0	0	0	0	0	0	0	0	0	0	0	0	2002
10004	168	400.5	44691	0	0	0	0	0	0	0	0	0	0	0	0	2002
10352	24	393.1	35916	0	0	0	0	0	0	0	0	0	0	0	0	2002
* 8608	99	401.3	48311	1	0	0	0	0	0	0	0	0	0	0	0	2003
10713	112	414.8	61040	0	0	1	0	0	0	0	0	0	0	0	2	2003
9765	167	473.6	33730	0	0	0	1	0	0	0	0	0	0	0	0	2003
9908	168	465.4	29493	0	0	0	1	0	0	0	0	0	0	0	0	2003
9690	168	454.6	21396	0	0	0	1	0	0	0	0	0	0	0	0	2003
9698	168	443.3	12659	0	0	0	1	0	0	0	0	0	0	0	0	2003
9661	124	437.6	10927	0	0	0	0	1	0	0	0	0	0	0	1	2003
9528	168	428.6	2918	0	0	0	0	1	0	0	0	0	0	0	0	2003
9556	168	410.6	57330	0	0	0	0	1	0	0	0	0	0	0	0	2003
9742	168	395.2	48242	0	0	0	0	1	0	0	0	0	0	0	0	2003
9690	168	400.9	45094	0	0	0	0	1	0	0	0	0	0	0	0	2003
9998	168	425.8	558	0	0	0	0	0	1	0	0	0	0	0	0	2003
9938	167	443.1	13389	0	0	0	0	0	1	0	0	0	0	0	0	2003

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
9768	168	408.7	56475	0	0	0	0	0	1	0	0	0	0	0	0	2003
9969	101	454.8	22500	0	0	0	0	0	1	0	0	0	0	0	1	2003

Data Base for DANIEL 1 Target Heat Rate Equation

HR	Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH.
HOUR	Number of hours the unit was synchronized during the week.
AMW	Average load on the unit, in MW.
LSRF	Load square range factor, in MW^2.
JAN to NOV	The number 1 indicates the month of the observation. All 0's indicate December.
NS	Number of unit start ups during the week after being shut down for 24 hours or more.
YEAR	The year of the observation.
*	Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

Data Base for DANIEL 2 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10774	168	368.4	28982	0	0	0	0	0	0	1	0	0	0	0	0	2000
10337	168	470.4	29745	0	0	0	0	0	0	1	0	0	0	0	0	2000
10591	101	372.3	29627	0	0	0	0	0	0	1	0	0	0	0	1	2000
10333	168	333.1	4008	0	0	0	0	0	0	1	0	0	0	0	0	2000
10367	168	383.9	35525	0	0	0	0	0	0	0	1	0	0	0	0	2000
10268	168	412.3	52753	0	0	0	0	0	0	0	1	0	0	0	0	2000
10319	168	405.8	52147	0	0	0	0	0	0	0	1	0	0	0	0	2000
10351	168	424.3	63503	0	0	0	0	0	0	0	1	0	0	0	0	2000
10246	168	451.8	16172	0	0	0	0	0	0	0	1	0	0	0	0	2000
10004	168	396.9	45858	0	0	0	0	0	0	0	0	1	0	0	0	2000
10098	168	382.8	34021	0	0	0	0	0	0	0	0	1	0	0	0	2000
9897	146	373.3	30430	0	0	0	0	0	0	0	0	1	0	0	0	2000
*11997	31	354.7	18614	0	0	0	0	0	0	0	0	0	1	0	1	2000
9792	169	405.4	55285	0	0	0	0	0	0	0	0	0	1	0	0	2000
9653	168	394.9	46968	0	0	0	0	0	0	0	0	0	0	1	0	2000
9634	168	423.4	64160	0	0	0	0	0	0	0	0	0	0	1	0	2000
9681	168	472.9	34118	0	0	0	0	0	0	0	0	0	0	1	0	2000
9679	168	444.9	14439	0	0	0	0	0	0	0	0	0	0	1	0	2000
9858	168	507.0	60458	0	0	0	0	0	0	0	0	0	0	0	0	2000
9326	168	498.9	54553	0	0	0	0	0	0	0	0	0	0	0	0	2000
9835	168	488.4	45274	0	0	0	0	0	0	0	0	0	0	0	0	2000
9945	168	446.4	21276	0	0	0	0	0	0	0	0	0	0	0	0	2000
9230	24	511.0	64514	0	0	0	0	0	0	0	0	0	0	0	0	2000
9667	168	504.2	58746	1	0	0	0	0	0	0	0	0	0	0	0	2001
9584	168	484.4	43398	1	0	0	0	0	0	0	0	0	0	0	0	2001
10154	168	412.0	54289	1	0	0	0	0	0	0	0	0	0	0	0	2001
9922	168	457.3	18662	1	0	0	0	0	0	0	0	0	0	0	0	2001
10171	168	430.4	64453	0	1	0	0	0	0	0	0	0	0	0	0	2001
10218	168	290.4	35743	0	1	0	0	0	0	0	0	0	0	0	0	2001
9958	168	370.0	28222	0	1	0	0	0	0	0	0	0	0	0	0	2001
9771	168	501.5	55221	0	1	0	0	0	0	0	0	0	0	0	0	2001
9860	168	494.5	49242	0	0	1	0	0	0	0	0	0	0	0	0	2001
9951	168	503.4	57060	0	0	1	0	0	0	0	0	0	0	0	0	2001
9862	168	478.0	34809	0	0	1	0	0	0	0	0	0	0	0	0	2001
9782	168	474.5	34884	0	0	1	0	0	0	0	0	0	0	0	0	2001
10118	167	358.1	14508	0	0	1	0	0	0	0	0	0	0	0	0	2001
9880	168	485.4	44053	0	0	0	1	0	0	0	0	0	0	0	0	2001
9909	165	487.9	46353	0	0	0	1	0	0	0	0	0	0	0	0	2001
9752	83	477.5	39176	0	0	0	1	0	0	0	0	0	0	0	1	2001
9675	119	499.6	56318	0	0	0	1	0	0	0	0	0	0	0	0	2001
10735	100	337.2	4161	0	0	0	0	1	0	0	0	0	0	0	1	2001
10620	138	359.8	26279	0	0	0	0	1	0	0	0	0	0	0	1	2001
10466	168	361.4	27590	0	0	0	0	1	0	0	0	0	0	0	0	2001
10620	168	308.8	58946	0	0	0	0	1	0	0	0	0	0	0	0	2001
10310	168	366.4	30914	0	0	0	0	0	1	0	0	0	0	0	0	2001
10154	168	419.2	539	0	0	0	0	0	1	0	0	0	0	0	0	2001
10123	168	410.3	59692	0	0	0	0	0	1	0	0	0	0	0	0	2001

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
10120	144	377.2	38663	0	0	0	0	0	1	0	0	0	0	0	0	2001
11079	164	253.2	25541	0	0	0	0	0	0	1	0	0	0	0	0	2001
10434	168	309.1	60181	0	0	0	0	0	0	1	0	0	0	0	0	2001
10552	168	308.2	57091	0	0	0	0	0	0	1	0	0	0	0	0	2001
10439	168	339.1	8418	0	0	0	0	0	0	1	0	0	0	0	0	2001
10225	168	329.8	1405	0	0	0	0	0	0	0	1	0	0	0	0	2001
10455	168	382.2	33459	0	0	0	0	0	0	0	1	0	0	0	0	2001
10358	168	384.8	36588	0	0	0	0	0	0	0	1	0	0	0	0	2001
10397	168	357.6	20193	0	0	0	0	0	0	0	1	0	0	0	0	2001
10702	168	304.0	50137	0	0	0	0	0	0	0	1	0	0	0	0	2001
10737	168	290.8	36039	0	0	0	0	0	0	0	0	1	0	0	0	2001
10314	168	346.9	9632	0	0	0	0	0	0	0	0	1	0	0	0	2001
10184	168	388.8	42316	0	0	0	0	0	0	0	0	1	0	0	0	2001
9974	168	445.2	12532	0	0	0	0	0	0	0	0	1	0	0	0	2001
10015	144	409.1	52841	0	0	0	0	0	0	0	0	0	1	0	1	2001
9727	168	485.0	42862	0	0	0	0	0	0	0	0	0	1	0	0	2001
9897	168	486.3	44147	0	0	0	0	0	0	0	0	0	1	0	0	2001
9853	168	479.1	39032	0	0	0	0	0	0	0	0	0	1	0	0	2001
9941	169	459.0	27122	0	0	0	0	0	0	0	0	0	1	0	0	2001
10062	168	428.4	6319	0	0	0	0	0	0	0	0	0	0	1	0	2001
9869	168	508.7	62133	0	0	0	0	0	0	0	0	0	0	1	0	2001
9944	97	501.2	57404	0	0	0	0	0	0	0	0	0	0	1	0	2001
10137	103	476.6	36852	0	0	0	0	0	0	0	0	0	0	1	1	2001
9991	168	492.6	46440	0	0	0	0	0	0	0	0	0	0	0	0	2001
10071	168	460.6	25255	0	0	0	0	0	0	0	0	0	0	0	0	2001
9815	146	493.0	48508	0	0	0	0	0	0	0	0	0	0	0	0	2001
10167	87	471.0	37357	0	0	0	0	0	0	0	0	0	0	0	1	2001
9956	24	509.6	63111	0	0	0	0	0	0	0	0	0	0	0	0	2001
9342	168	507.9	61328	1	0	0	0	0	0	0	0	0	0	0	0	2002
9578	123	465.4	30083	1	0	0	0	0	0	0	0	0	0	0	1	2002
9451	95	475.9	36492	1	0	0	0	0	0	0	0	0	0	0	0	2002
*14436	46	188.2	51440	0	0	0	1	0	0	0	0	0	0	0	1	2002
10514	151	392.5	37160	0	0	0	1	0	0	0	0	0	0	0	0	2002
10389	168	428.1	1577	0	0	0	1	0	0	0	0	0	0	0	0	2002
10568	100	356.8	21145	0	0	0	0	1	0	0	0	0	0	0	1	2002
10235	168	416.3	58174	0	0	0	0	1	0	0	0	0	0	0	0	2002
10110	168	351.7	12783	0	0	0	0	1	0	0	0	0	0	0	0	2002
10202	168	378.9	34204	0	0	0	0	1	0	0	0	0	0	0	0	2002
10270	167	378.6	32518	0	0	0	0	1	0	0	0	0	0	0	0	2002
10266	168	388.2	40055	0	0	0	0	0	1	0	0	0	0	0	0	2002
10152	168	376.0	32370	0	0	0	0	0	1	0	0	0	0	0	0	2002
10193	164	383.6	40772	0	0	0	0	0	1	0	0	0	0	0	0	2002
10271	144	369.9	29397	0	0	0	0	0	1	0	0	0	0	0	0	2002
10332	168	356.4	19478	0	0	0	0	0	0	1	0	0	0	0	0	2002
10182	119	379.7	31147	0	0	0	0	0	0	1	0	0	0	0	0	2002
10222	129	391.9	43558	0	0	0	0	0	0	1	0	0	0	0	1	2002
9962	168	384.7	38646	0	0	0	0	0	0	1	0	0	0	0	0	2002

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
10265	168	373.5	30987	0	0	0	0	0	0	0	1	0	0	0	0	2002
10247	168	389.9	38057	0	0	0	0	0	0	0	1	0	0	0	0	2002
10123	168	413.2	53650	0	0	0	0	0	0	0	1	0	0	0	0	2002
10069	168	412.7	53111	0	0	0	0	0	0	0	1	0	0	0	0	2002
9552	168	382.3	35781	0	0	0	0	0	0	0	1	0	0	0	0	2002
10070	168	403.6	46885	0	0	0	0	0	0	0	0	1	0	0	0	2002
10289	168	457.4	20667	0	0	0	0	0	0	0	0	1	0	0	0	2002
10126	168	481.2	38302	0	0	0	0	0	0	0	0	1	0	0	0	2002
10640	168	412.7	51073	0	0	0	0	0	0	0	0	1	0	0	0	2002
10434	145	464.3	25892	0	0	0	0	0	0	0	0	0	1	0	0	2002
* 7393	36	347.5	6440	0	0	0	0	0	0	0	0	0	1	0	1	2002
9891	162	409.6	51410	0	0	0	0	0	0	0	0	0	1	0	0	2002
9966	169	449.8	13788	0	0	0	0	0	0	0	0	0	1	0	0	2002
10192	168	435.8	2777	0	0	0	0	0	0	0	0	0	1	0	0	2002
9955	162	414.0	57070	0	0	0	0	0	0	0	0	0	0	1	0	2002
9864	168	387.6	32513	0	0	0	0	0	0	0	0	0	0	1	0	2002
9470	168	439.6	5494	0	0	0	0	0	0	0	0	0	0	1	0	2002
9576	168	383.3	30334	0	0	0	0	0	0	0	0	0	0	1	0	2002
9717	168	463.5	22902	0	0	0	0	0	0	0	0	0	0	0	0	2002
9681	168	438.3	5936	0	0	0	0	0	0	0	0	0	0	0	0	2002
9751	168	389.5	37657	0	0	0	0	0	0	0	0	0	0	0	0	2002
9877	168	403.5	50500	0	0	0	0	0	0	0	0	0	0	0	0	2002
10059	24	406.9	48358	0	0	0	0	0	0	0	0	0	0	0	0	2002
9693	168	457.8	25725	1	0	0	0	0	0	0	0	0	0	0	0	2003
9613	168	492.5	50773	1	0	0	0	0	0	0	0	0	0	0	0	2003
9645	168	484.8	45324	1	0	0	0	0	0	0	0	0	0	0	0	2003
9787	168	419.8	62019	1	0	0	0	0	0	0	0	0	0	0	0	2003
9721	168	462.7	26646	0	1	0	0	0	0	0	0	0	0	0	0	2003
9983	157	431.4	4883	0	1	0	0	0	0	0	0	0	0	0	0	2003
9406	66	392.1	35805	0	1	0	0	0	0	0	0	0	0	0	0	2003
9668	119	421.1	2121	0	0	1	0	0	0	0	0	0	0	0	1	2003
9482	168	495.2	51263	0	0	1	0	0	0	0	0	0	0	0	0	2003
9525	168	495.8	50290	0	0	1	0	0	0	0	0	0	0	0	0	2003
9538	168	494.8	49468	0	0	1	0	0	0	0	0	0	0	0	0	2003
9569	168	507.1	60660	0	0	1	0	0	0	0	0	0	0	0	0	2003
10002	154	467.3	31665	0	0	0	1	0	0	0	0	0	0	0	0	2003
9894	168	458.1	26446	0	0	0	1	0	0	0	0	0	0	0	0	2003
9771	168	452.0	20389	0	0	0	1	0	0	0	0	0	0	0	0	2003
9791	168	445.7	14676	0	0	0	1	0	0	0	0	0	0	0	0	2003
9624	161	446.0	16821	0	0	0	0	1	0	0	0	0	0	0	0	2003
9696	168	442.0	11635	0	0	0	0	1	0	0	0	0	0	0	0	2003
9843	168	377.3	32875	0	0	0	0	1	0	0	0	0	0	0	0	2003
9917	168	370.9	25527	0	0	0	0	1	0	0	0	0	0	0	0	2003
9632	168	431.2	5317	0	0	0	0	1	0	0	0	0	0	0	0	2003
10048	168	423.6	60355	0	0	0	0	0	1	0	0	0	0	0	0	2003
10031	150	445.1	16412	0	0	0	0	0	1	0	0	0	0	0	0	2003
9873	168	419.1	63287	0	0	0	0	0	1	0	0	0	0	0	0	2003

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
9853	144	471.1	30204	0	0	0	0	0	1	0	0	0	0	0	0	2003

Data Base for DANIEL 2 Target Heat Rate Equation

HR	Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shutdown for 24 hours or more, in BTU/KWH.
HOUR	Number of hours the unit was synchronized during the week.
AMW	Average load on the unit, in MW.
LSRF	Load square range factor, in MW^2.
JAN to NOV	The number 1 indicates the month of the observation. All 0's indicate December.
NS	Number of unit start ups during the week after being shut down for 24 hours or more.
YEAR	The year of the observation.
*	Indicates data points removed from the analysis of the target heat rate equation because they were out of the 90% confidence interval.

Calculation of
Target Average Net Operating Heat Rates
for January 2004 - December 2004

Unit	Month	(1) Forecast AKW * 10^3	(2) Forecast LSRF * 10^6	(3) Forecast Monthly ANOHR	(4) Forecast AKW * 10^3 Generation	(5) Weighted ANOHR Target
CRIST 4	Jan '04	74.1	5,549	10,385	54,649	
	Feb '04	74.3	5,575	10,382	51,271	
	Mar '04	74.2	5,562	10,518	51,230	
	Apr '04	72.6	5,358	10,407	51,662	
	May '04	66.4	4,583	10,538	48,901	
	Jun '04	74.3	5,575	10,382	52,969	
	Jul '04	76.5	5,858	10,357	56,396	
	Aug '04	76.6	5,871	10,356	56,463	
	Sep '04	75.8	5,767	10,364	54,069	
	Oct '04	70.9	5,143	10,436	52,358	
	Nov '04	72.0	5,282	10,096	47,950	
	Dec '04	71.6	5,231	10,423	52,735	10,388
CRIST 5	Jan '04	74.6	5,611	10,238	54,373	
	Feb '04	74.7	5,623	10,234	50,959	
	Mar '04	75.0	5,661	10,224	51,176	
	Apr '04	72.8	5,383	10,303	51,234	
	May '04	66.6	4,610	10,538	48,584	
	Jun '04	75.0	5,661	10,224	52,874	
	Jul '04	77.6	5,993	10,133	56,548	
	Aug '04	78.0	6,044	10,120	56,836	
	Sep '04	76.1	5,801	10,185	53,675	
	Oct '04	70.8	5,132	10,190	51,709	
	Nov '04	72.2	5,308	10,025	47,539	
	Dec '04	70.4	5,082	10,391	51,304	10,232
CRIST 6	Jan '04	293.5	87,463	10,484	171,087	
	Feb '04	290.5	86,001	10,483	47,639	
	Mar '04	298.7	90,016	10,638	215,984	
	Apr '04	293.3	87,365	10,484	184,482	
	May '04	258.9	71,060	10,370	187,206	
	Jun '04	295.2	88,295	10,486	206,667	
	Jul '04	301.0	91,152	10,491	217,650	
	Aug '04	300.0	90,657	10,593	216,912	
	Sep '04	300.6	90,954	10,490	210,400	
	Oct '04	287.4	84,498	10,481	187,963	
	Nov '04	287.8	84,691	10,482	181,324	
	Dec '04	289.8	85,660	10,482	195,938	10,501

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

Column (5) = $(\Sigma ((3) * (4))) / (\Sigma (4))$

Calculation of
Target Average Net Operating Heat Rates
for January 2004 - December 2004

Unit	Month	(1) Forecast AKW * 10^3	(2) Forecast LSRF * 10^6	(3) Forecast Monthly ANOHR	(4) Forecast AKW * 10^3 Generation	(5) Weighted ANOHR Target
CRIST 7	Jan '04	474.7	225,342	10,124	329,913	
	Feb '04	471.7	223,087	10,129	222,192	
	Mar '04	0.0	0	-	0	
	Apr '04	0.0	0	-	0	
	May '04	443.1	201,800	10,177	148,455	
	Jun '04	474.3	225,041	10,254	318,738	
	Jul '04	475.8	226,170	10,364	330,704	
	Aug '04	475.7	226,095	10,287	330,614	
	Sep '04	475.9	226,245	10,312	319,829	
	Oct '04	471.7	223,087	10,129	296,708	
	Nov '04	474.0	224,815	10,260	318,496	
	Dec '04	473.2	224,214	10,126	297,166	10,223
SMITH 1	Jan '04	158.2	25,196	9,970	116,282	
	Feb '04	157.5	25,009	9,943	74,810	
	Mar '04	158.7	25,329	10,112	37,760	
	Apr '04	153.7	24,003	10,252	101,889	
	May '04	135.9	19,434	10,230	99,887	
	Jun '04	157.4	24,982	10,118	112,063	
	Jul '04	161.4	26,053	10,100	118,597	
	Aug '04	160.6	25,838	10,104	118,074	
	Sep '04	161.0	25,945	10,102	114,626	
	Oct '04	151.9	23,530	10,144	111,776	
	Nov '04	153.2	23,871	10,137	109,054	
	Dec '04	153.8	24,029	10,134	113,014	10,114
SMITH 2	Jan '04	182.7	34,269	9,841	127,317	
	Feb '04	182.0	34,034	9,819	106,474	
	Mar '04	185.2	35,114	9,813	95,770	
	Apr '04	174.6	31,586	10,088	19,558	
	May '04	153.9	25,101	10,091	107,240	
	Jun '04	183.0	34,370	10,052	123,314	
	Jul '04	187.4	35,863	10,180	130,634	
	Aug '04	187.0	35,727	10,138	130,354	
	Sep '04	187.6	35,932	10,033	126,410	
	Oct '04	175.4	31,847	10,085	110,488	
	Nov '04	178.6	32,901	10,071	120,404	
	Dec '04	178.5	32,868	10,071	112,292	10,024

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.

Column (5) = $(\Sigma ((4) * (5))) / (\Sigma (5))$

Calculation of
Target Average Net Operating Heat Rates
for January 2004 - December 2004

Unit	Month	(1) Forecast AKW * 10^3	(2) Forecast LSRF * 10^6	(3) Forecast Monthly ANOHR	(4) Forecast AKW * 10^3 Generation	(5) Weighted ANOHR Target
DANIEL 1	Jan '04	469.6	227,041	9,984	171,418	
	Feb '04	485.5	238,947	9,943	310,238	
	Mar '04	492.1	243,937	9,925	348,385	
	Apr '04	467.9	225,777	9,989	287,752	
	May '04	402.8	178,796	10,008	285,175	
	Jun '04	485.5	238,947	9,943	332,564	
	Jul '04	502.5	251,857	10,175	355,747	
	Aug '04	500.4	250,252	10,054	354,248	
	Sep '04	500.6	250,405	9,902	342,927	
	Oct '04	460.4	220,226	10,008	63,530	
	Nov '04	0.0	0	-	0	
	Dec '04	453.5	215,150	10,026	72,559	9,994
DANIEL 2	Jan '04	474.0	231,586	9,653	96,218	
	Feb '04	488.9	242,899	9,687	77,248	
	Mar '04	502.1	253,094	9,660	316,342	
	Apr '04	484.6	239,613	9,876	326,646	
	May '04	415.5	189,166	10,072	290,004	
	Jun '04	496.8	248,981	9,847	335,342	
	Jul '04	511.4	260,375	9,815	356,924	
	Aug '04	508.9	258,410	9,820	355,181	
	Sep '04	510.4	259,588	9,817	344,512	
	Oct '04	477.4	234,149	9,894	333,685	
	Nov '04	480.7	236,647	9,702	302,855	
	Dec '04	486.8	241,292	9,871	339,757	9,828

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.

Column (5) = $(\Sigma ((4) * (5))) / (\Sigma (5))$

Summary of Target, Maximum, and Minimum
Average Net Operating Heat Rates
for January 2004 - December 2004

Unit	Target Heat Rate BTU/KWH (0 Points)	Minimum Attainable Heat Rate (+ 10 Points)	Maximum Attainable Heat Rate (- 10 Points)
CRIST 4	10,388	10,076	10,700
CRIST 5	10,232	9,925	10,539
CRIST 6	10,501	10,186	10,816
CRIST 7	10,223	9,916	10,530
SMITH 1	10,114	9,811	10,417
SMITH 2	10,024	9,723	10,325
DANIEL 1	9,994	9,694	10,294
DANIEL 2	9,828	9,533	10,123

II. DETERMINATION OF EQUIVALENT AVAILABILITY TARGETS

Calculation of
Target Equivalent Availabilities
for January 2004 - December 2004

Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR *	Planned Outage Hours for Jan '04 - Dec '04	Reserve Shutdown Hours for Jan '04 - Dec '04	Target Equivalent Availability **
Crist 4	0.0212	0	0	97.9
Crist 5	0.0323	0	0	96.8
Crist 6	0.0747	552	0	86.7
Crist 7	0.1066	1,896	0	70.1
Smith 1	0.0189	720	0	90.1
Smith 2	0.0980	720	0	82.8
Daniel 1	0.0743	2,184	0	69.6
Daniel 2	0.0783	1,056	0	81.1

* For Period July 1998 Through June 2003.

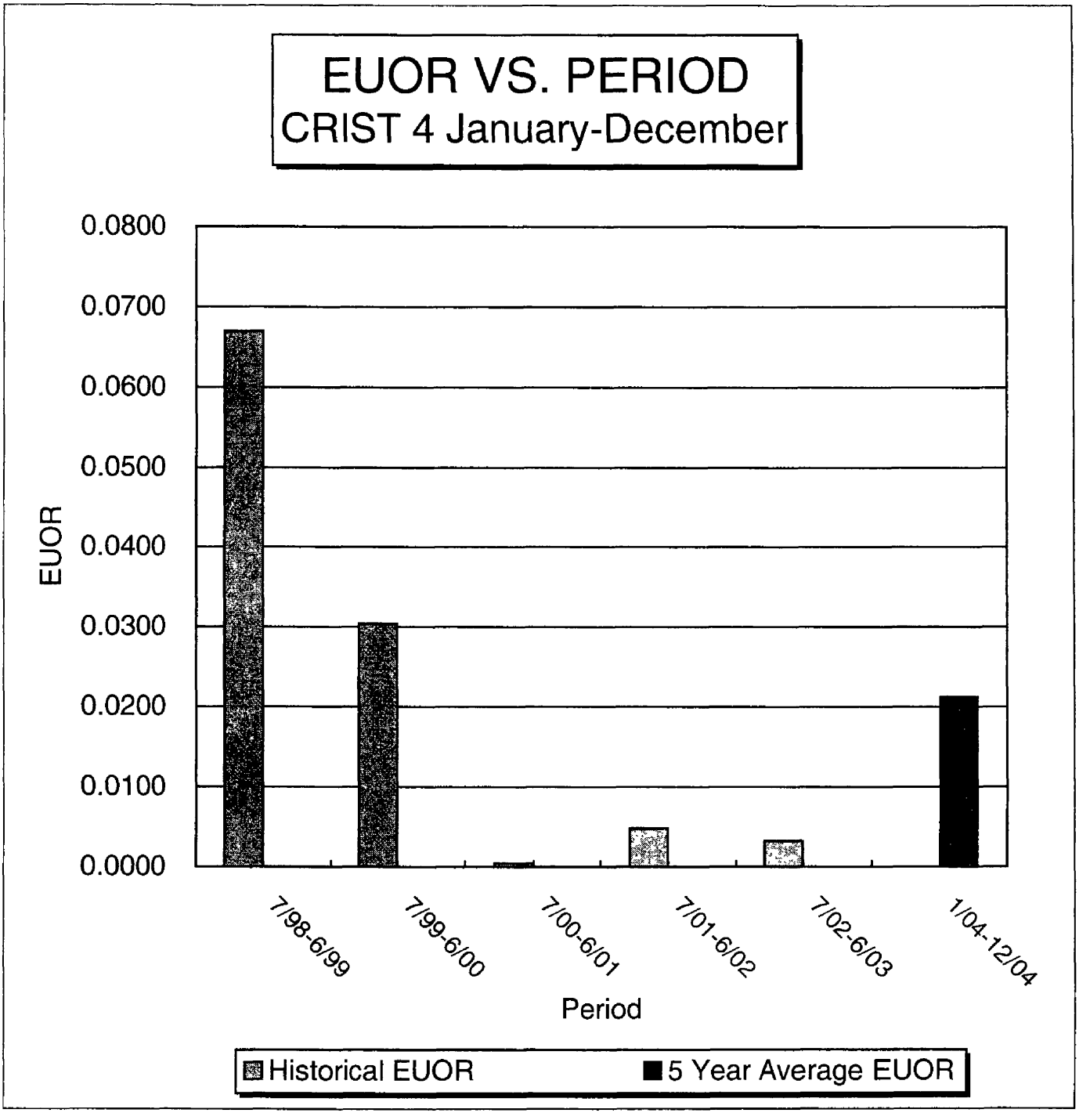
** EA = [1 - (POH + EUOR * (PH - POH - RSH)) / PH] * 100

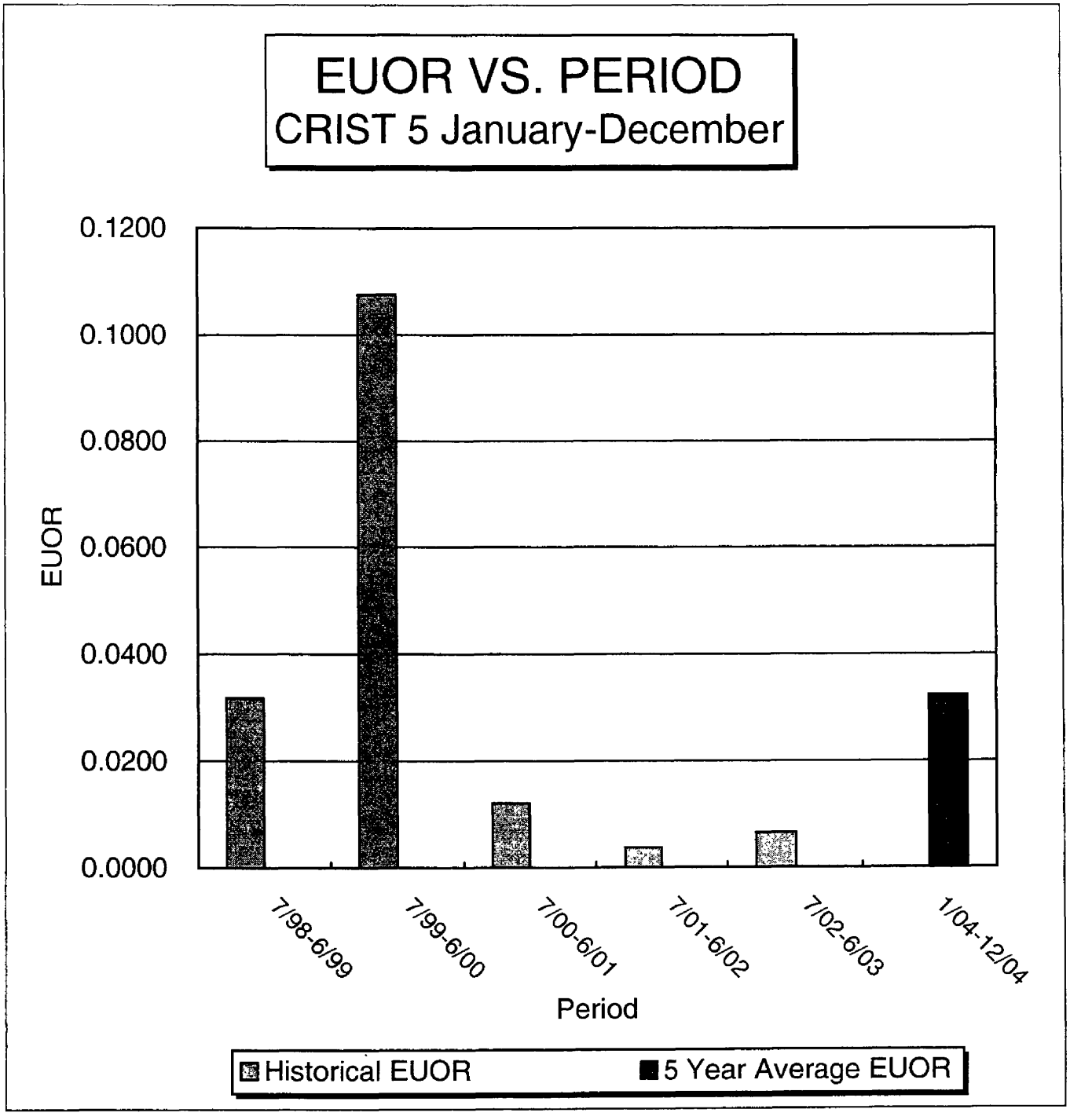
Calculation of Maximum and Minimum
Attainable Equivalent Availabilities
for January 2004 - December 2004

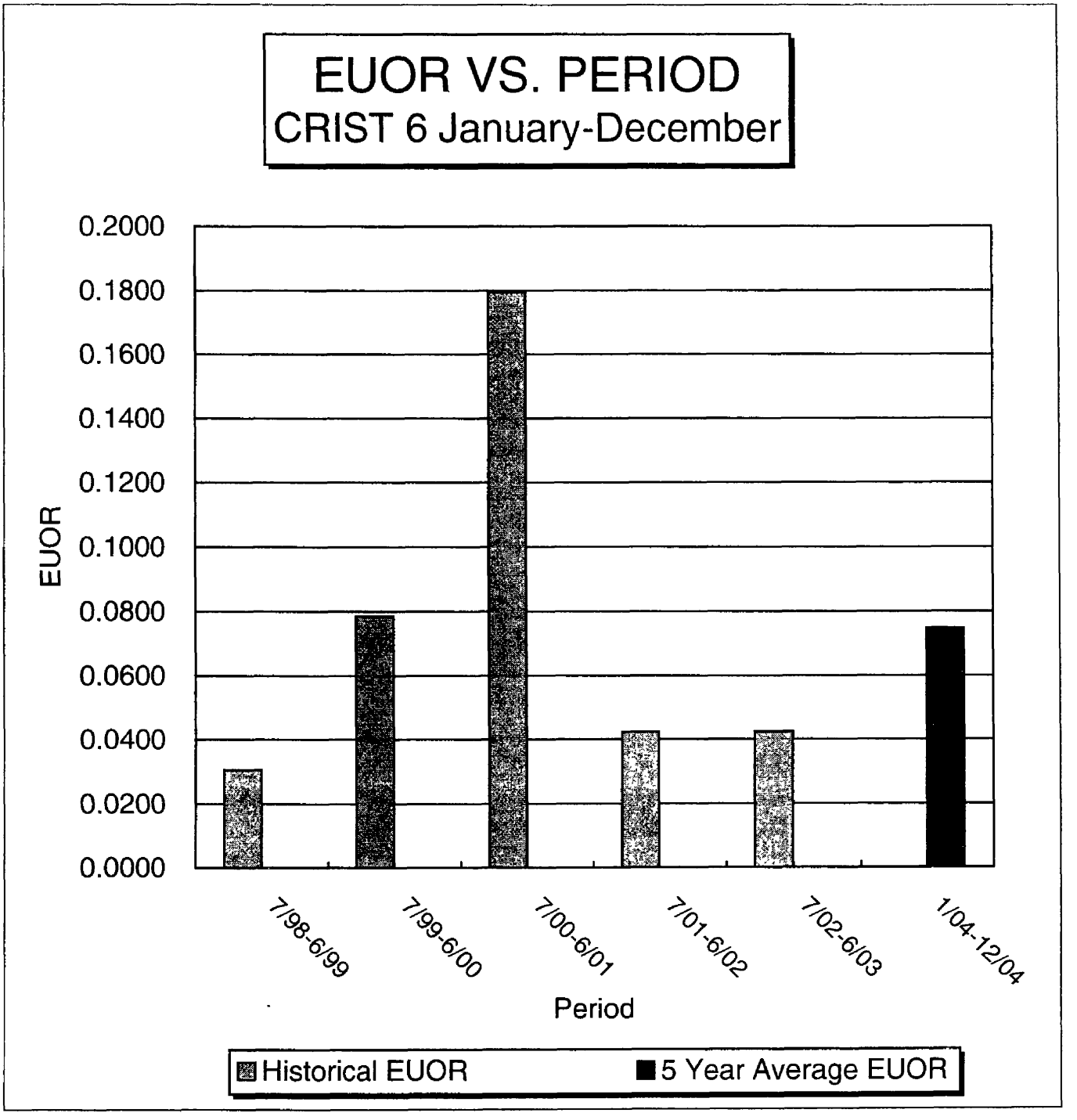
Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR (TARGET EUOR)	Minimum Attainable EUOR 70% of Target EUOR	Maximum Attainable Equivalent Availability	Maximum Attainable EUOR 145% of Target EUOR	Minimum Attainable Equivalent Availability
Crist 4	0.0212	0.0148	98.5	0.0307	96.9
Crist 5	0.0323	0.0226	97.7	0.0468	95.3
Crist 6	0.0747	0.0523	88.8	0.1083	83.6
Crist 7	0.1066	0.0746	72.6	0.1546	66.3
Smith 1	0.0189	0.0132	90.6	0.0274	89.3
Smith 2	0.0980	0.0686	85.5	0.1421	78.8
Daniel 1	0.0743	0.0520	71.2	0.1077	67.0
Daniel 2	0.0783	0.0548	83.2	0.1135	78.0

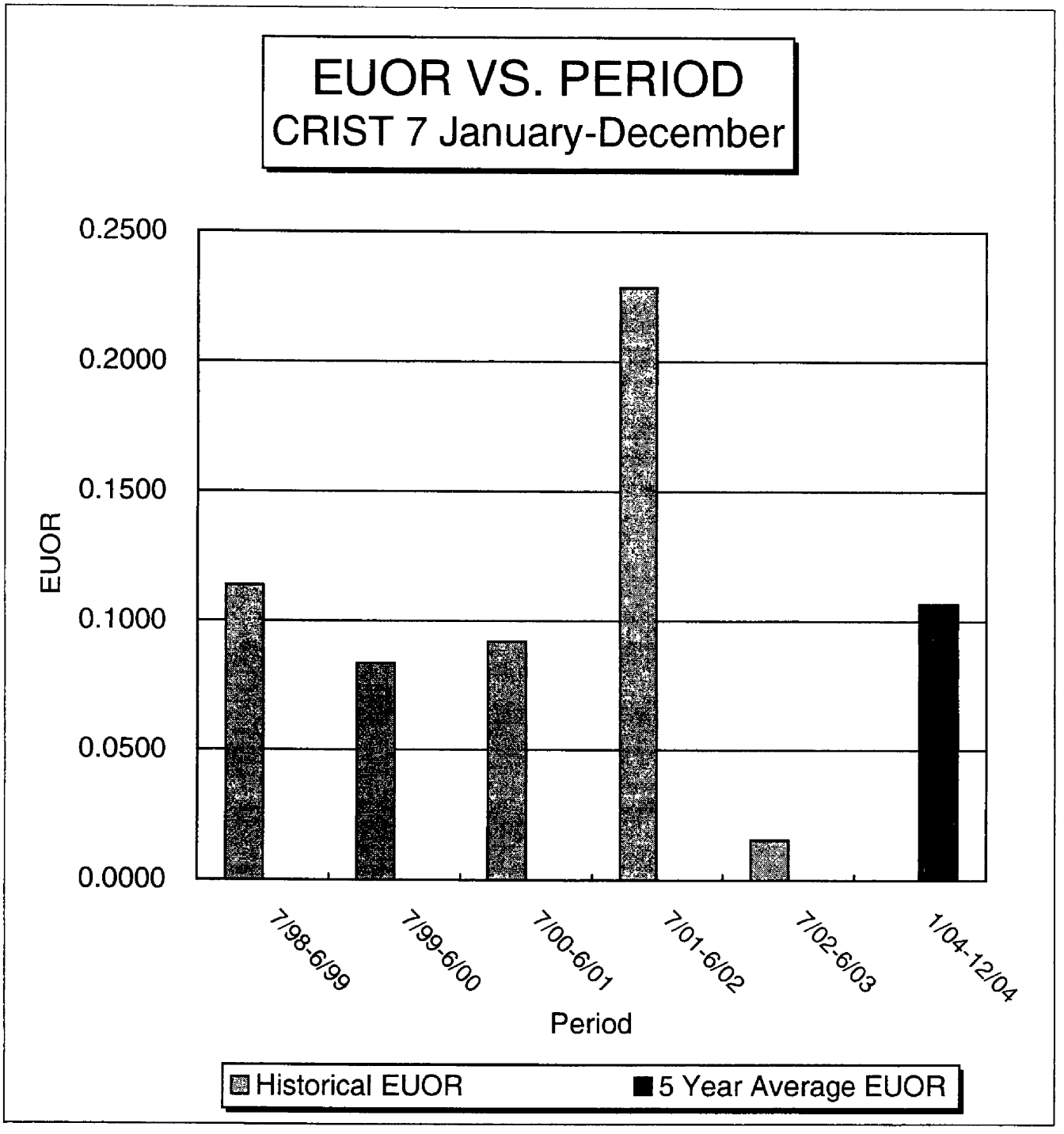
Summary of Target, Maximum, and Minimum
Equivalent Availabilities
for January 2004 - December 2004

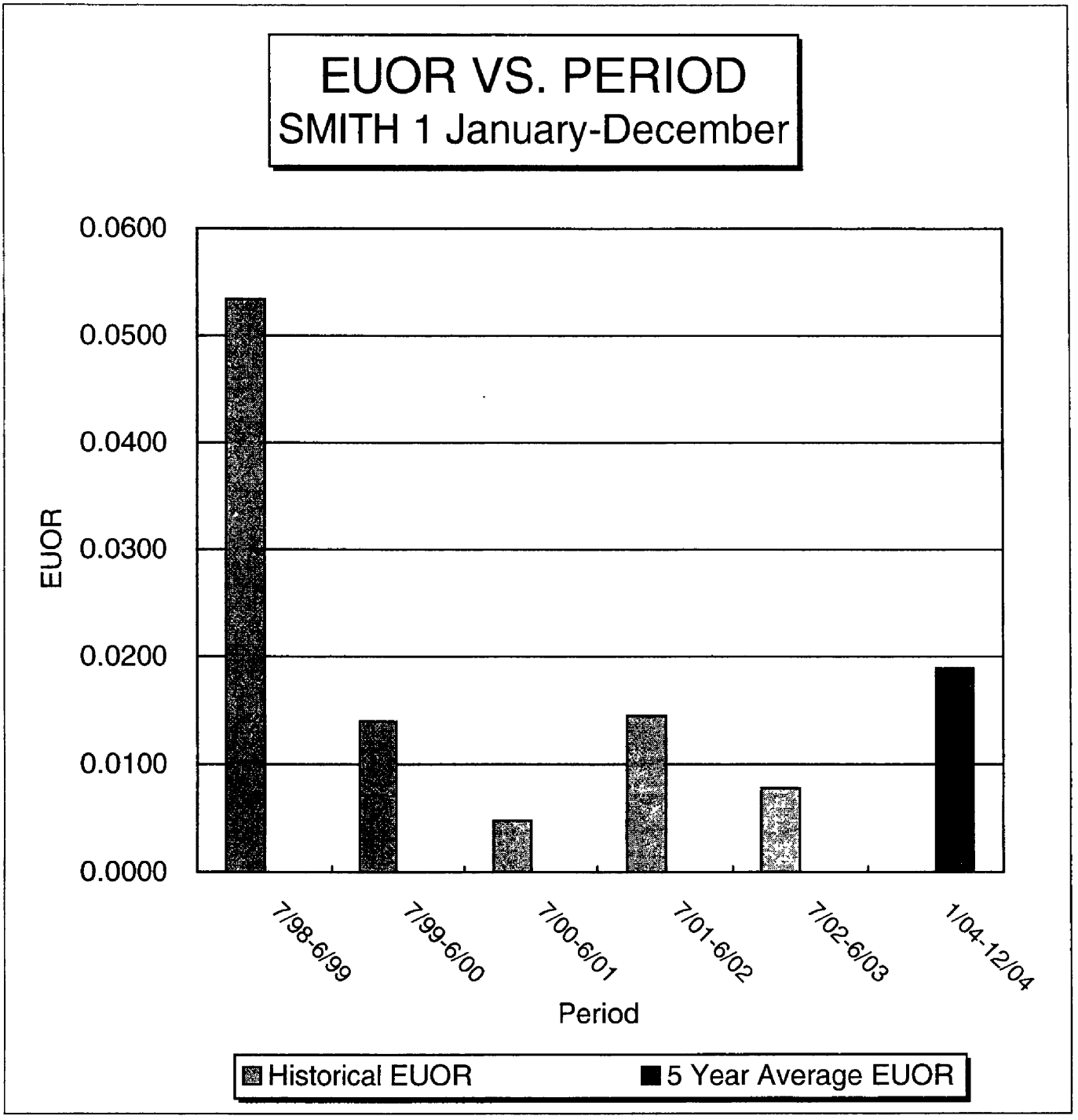
Unit	Target Equivalent Availability (0 Points)	Maximum Attainable Equivalent Availability (+10 Points)	Minimum Attainable Equivalent Availability (-10 Points)
Crist 4	97.9	98.5	96.9
Crist 5	96.8	97.7	95.3
Crist 6	86.7	88.8	83.6
Crist 7	70.1	72.6	66.3
Smith 1	90.1	90.6	89.3
Smith 2	82.8	85.5	78.8
Daniel 1	69.6	71.2	67.0
Daniel 2	81.1	83.2	78.0

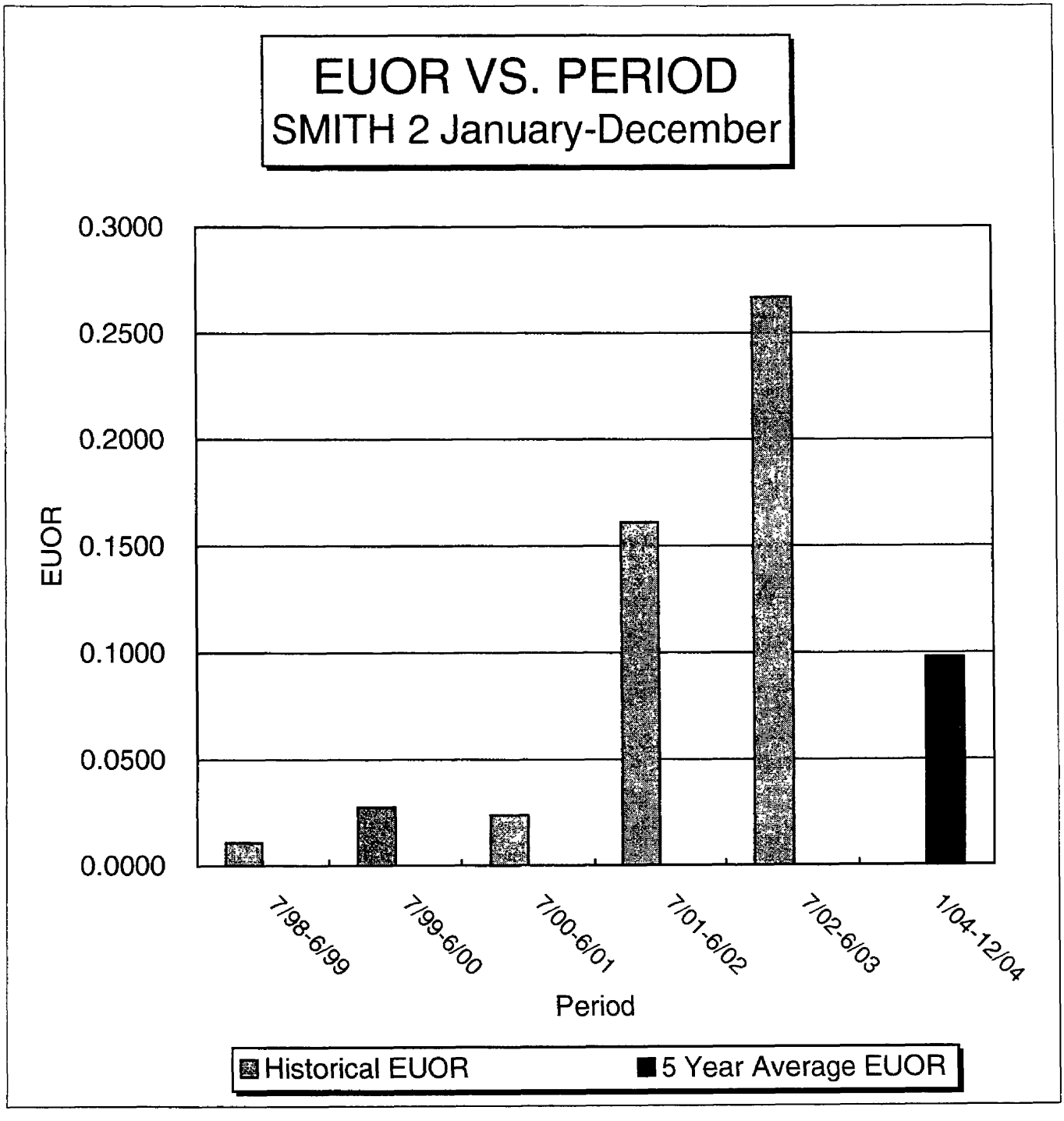

EUOR VS. PERIOD
CRIST 4 January-December
0.0800
0.0700
0.0600
0.0500
0.0400
0.0300
0.0200
0.0100
0.0000
EUOR
7/98-6/99
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
1/04-12/04
Period
Historical EUOR
5 Year Average EUOR

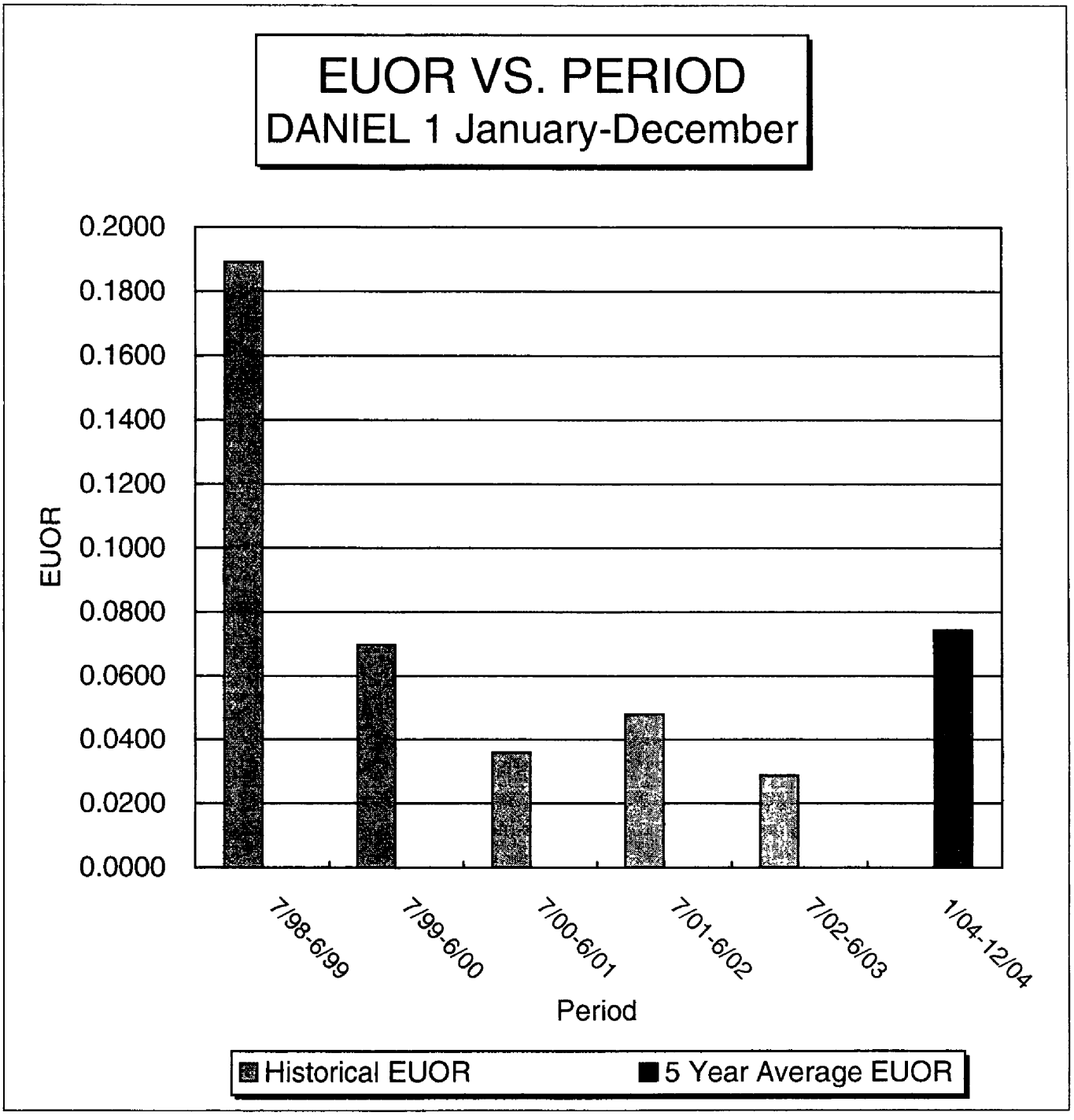

EUOR VS. PERIOD
CRIST 5 January-December
0.1200
0.1000
0.0800
0.0600
0.0400
0.0200
0.0000
EUOR
7/98-6/99
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
1/04-12/04
Period
Historical EUOR
5 Year Average EUOR

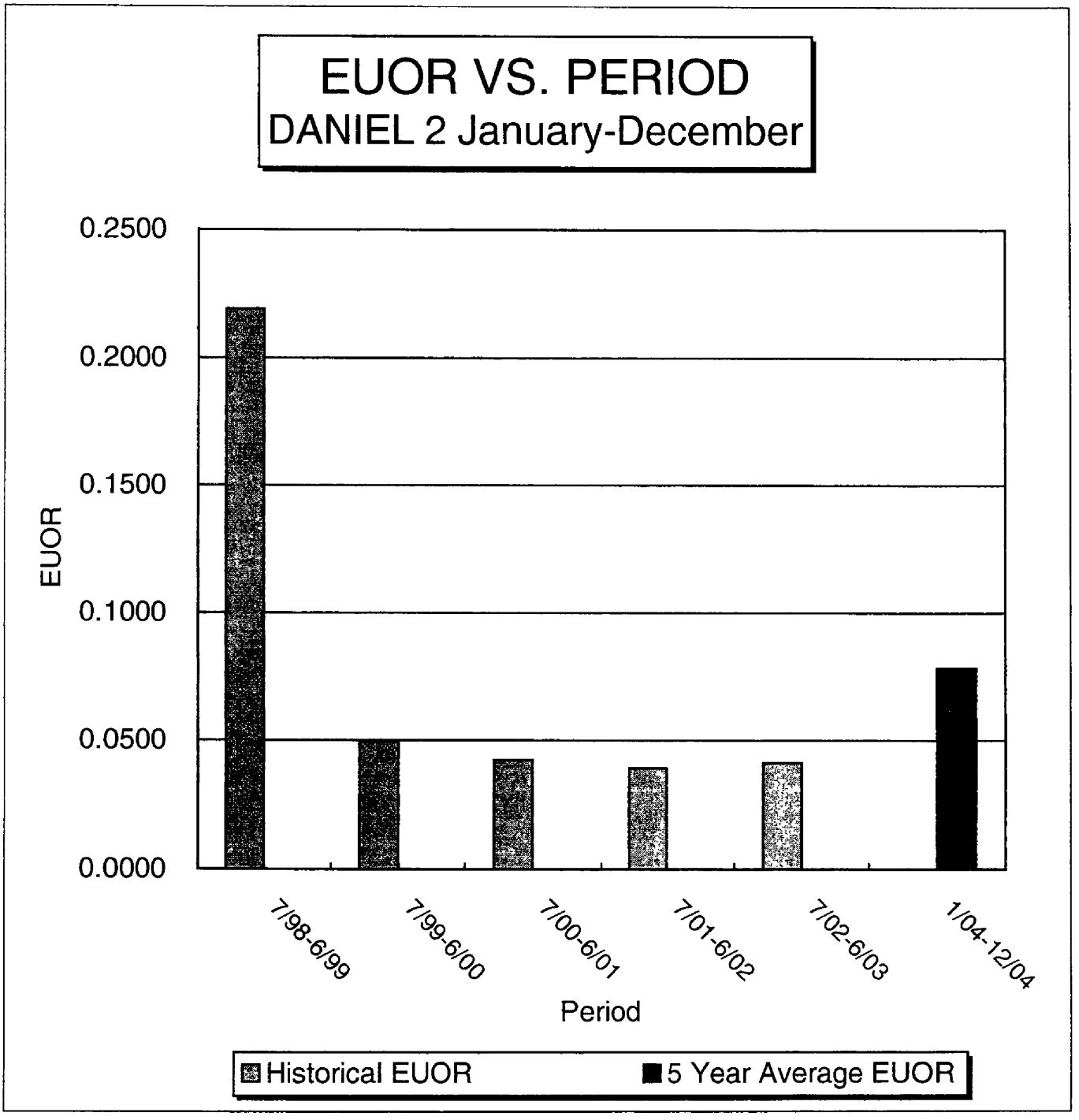

EUOR VS. PERIOD
CRIST 6 January-December
0.2000
0.1800
0.1600
0.1400
0.1200
0.1000
0.0800
0.0600
0.0400
0.0200
0.0000
EUOR
7/98-6/99
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
1/04-12/04
Period
Historical EUOR
5 Year Average EUOR


EUOR VS. PERIOD
CRIST 7 January-December
0.2500
0.2000
0.1500
0.1000
0.0500
0.0000
EUOR
7/98-6/99
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
1/04-12/04
Period
Historical EUOR
5 Year Average EUOR


EUOR VS. PERIOD
SMITH 1 January-December
0.0600
0.0500
0.0400
0.0300
0.0200
0.0100
0.0000
EUOR
7/98-6/99
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
1/04-12/04
Period
Historical EUOR
5 Year Average EUOR


EUOR VS. PERIOD
SMITH 2 January-December
0.3000
0.2500
0.2000
0.1500
0.1000
0.0500
0.0000
EUOR
7/98-6/99
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
1/04-12/04
Period
Historical EUOR
5 Year Average EUOR


EUOR VS. PERIOD
DANIEL 1 January-December
0.2000
0.1800
0.1600
0.1400
0.1200
0.1000
0.0800
0.0600
0.0400
0.0200
0.0000
EUOR
7/98-6/99
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
1/04-12/04
Period
Historical EUOR
5 Year Average EUOR


EUOR VS. PERIOD
DANIEL 2 January-December
0.2500
0.2000
0.1500
0.1000
0.0500
0.0000
EUOR
7/98-6/99
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
1/04-12/04
Period
Historical EUOR
5 Year Average EUOR

III. GPIF MINIMUM FILING REQUIREMENTS FOR THE PERIOD JANUARY 2004 - DECEMBER 2004

Generating Performance Incentive Factor

Estimated Reward/Penalty Table

Gulf Power Company

Period of: January 2004 - December 2004

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	5678	2254
+ 9	5110	2029
+ 8	4542	1803
+ 7	3975	1578
+ 6	3407	1353
+ 5	2839	1127
+ 4	2271	902
+ 3	1703	676
+ 2	1136	451
+ 1	568	225
0	0	0
- 1	-638	-225
- 2	-1275	-451
- 3	-1913	-676
- 4	-2551	-902
- 5	-3189	-1127
- 6	-3826	-1353
- 7	-4464	-1578
- 8	-5102	-1803
- 9	-5739	-2029
- 10	-6377	-2254
	Minimum Attainable Fuel Loss	Maximum Incentive Dollars Allowed by Commission During Period (Penalty)

Generating Performance Incentive Factor

Calculation of Maximum Allowed Incentive Dollars

Estimated

Gulf Power Company

Period of: January 2004 - December 2004

Line 1	Beginning of Period Balance of Common Equity	$563,241,000
	End of Month Balance of Common Equity:	
Line 2	Month of Jan '04	$585,548,000
Line 3	Month of Feb '04	$570,898,000
Line 4	Month of Mar '04	$574,339,000
Line 5	Month of Apr '04	$558,324,000
Line 6	Month of May '04	$563,502,000
Line 7	Month of Jun '04	$573,375,000
Line 8	Month of Jul '04	$566,597,000
Line 9	Month of Aug '04	$578,882,000
Line 10	Month of Sep '04	$586,577,000
Line 11	Month of Oct '04	$571,867,000
Line 12	Month of Nov '04	$572,361,000
Line 13	Month of Dec '04	$582,859,000
Line 14	Average Common Equity for the Period (sum of line 1 through line 13 divided by 13)	$572,951,538
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)	$2,333,594
Line 18	Jurisdictional Sales (KWH)	10,605,379,000
Line 19	Total Territorial Sales (KWH)	10,978,892,000
Line 20	Jurisdictional Separation Factor (line 18 divided by line 19)	96.5979%
Line 21	Maximum Allowed Jurisdictional Incentive Dollars (line 17 multiplied by line 20)	$2,254,203

Issued by: S. N. Story

Filed: September 12, 2003
Suspended:
Effective: January 1, 2004
Docket No.: 030001-EI
Order No.:

GPIF Unit Performance Summary

Gulf Power Company

Period of: January 2004 - December 2004

Plant & Unit	Weighting Factor %	EAF Target %	EAF Range Max %	EAF Range Min %	Max Fuel Savings ($000)	Max Fuel Loss ($000)
Crist 4	0.1%	97.9	98.5	96.9	$8	($9)
Crist 5	0.2%	96.8	97.7	95.3	$14	($19)
Crist 6	1.5%	86.7	88.8	83.6	$84	($147)
Crist 7	8.4%	70.1	72.6	66.3	$477	($634)
Smith 1	0.6%	90.1	90.6	89.3	$32	($32)
Smith 2	2.4%	82.8	85.5	78.8	$134	($227)
Daniel 1	5.3%	69.6	71.2	67.0	$299	($453)
Daniel 2	5.7%	81.1	83.2	78.0	$324	($550)

Plant & Unit	Weighting Factor %	ANOHR Target BTU/KWH	Target NOF	ANOHR Range Min BTU/KWH	ANOHR Range Max BTU/KWH	Max Fuel Savings ($000)	Max Fuel Loss ($000)
Crist 4	4.0%	10,388	93.9	10,076	10,700	$229	($229)
Crist 5	3.8%	10,232	92.1	9,925	10,539	$216	($216)
Crist 6	15.4%	10,501	96.5	10,186	10,816	$876	($876)
Crist 7	19.1%	10,223	99.1	9,916	10,530	$1,086	($1,086)
Smith 1	8.0%	10,114	95.7	9,811	10,417	$454	($454)
Smith 2	7.9%	10,024	95.2	9,723	10,325	$449	($449)
Daniel 1	7.5%	9,994	94.3	9,694	10,294	$428	($428)
Daniel 2	10.0%	9,828	94.7	9,533	10,123	$568	($568)

Issued by: S. N. Story

Filed: September 12, 2003
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Effective: January 1, 2004
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Order No.:

Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: January 2004 - December 2004

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Target			Actual Performance 1st Prior Period Jul '02 - Jun '03			Actual Performance 2nd Prior Period Jul '01 - Jun '02		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Crist 4	0.1%	0.6%	0.0000	0.0212	0.0212	0.0581	0.0030	0.0032	0.1009	0.0032	0.0048
Crist 5	0.2%	1.0%	0.0000	0.0323	0.0323	0.0598	0.0061	0.0065	0.1123	0.0024	0.0037
Crist 6	1.5%	6.1%	0.0628	0.0700	0.0747	0.0589	0.0399	0.0424	0.1562	0.0356	0.0423
Crist 7	8.4%	34.8%	0.2158	0.0836	0.1066	0.1199	0.0136	0.0155	0.1454	0.1952	0.2284
Smith 1	0.6%	2.3%	0.0820	0.0173	0.0189	0.1019	0.0070	0.0078	0.1105	0.0128	0.0145
Smith 2	2.4%	9.8%	0.0820	0.0901	0.0980	0.3159	0.1825	0.2668	0.1490	0.1303	0.1610
Daniel 1	5.3%	21.8%	0.2486	0.0559	0.0743	0.2250	0.0222	0.0287	0.0224	0.0466	0.0479
Daniel 2	5.7%	23.6%	0.1202	0.0689	0.0783	0.0526	0.0391	0.0413	0.2329	0.0291	0.0393
Weighted GPIF System Average:			0.1714	0.0715	0.0868	0.1409	0.0393	0.0503	0.1389	0.1001	0.1178

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: January 2004 - December 2004

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Actual Performance 3rd Prior Period Jul '00 - Jun '01			Actual Performance 4th Prior Period Jul '99 - Jun '00			Actual Performance 5th Prior Period Jul '98 - Jun '99		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Crist 4	0.1%	0.6%	0.1868	0.0003	0.0004	0.0974	0.0266	0.0304	0.0435	0.0512	0.0670
Crist 5	0.2%	1.0%	0.0372	0.0106	0.0121	0.2874	0.0745	0.1076	0.0193	0.0297	0.0318
Crist 6	1.5%	6.1%	0.1102	0.1580	0.1795	0.0988	0.0708	0.0786	0.0768	0.0281	0.0305
Crist 7	8.4%	34.8%	0.1224	0.0808	0.0920	0.1589	0.0703	0.0835	0.0888	0.1036	0.1137
Smith 1	0.6%	2.3%	0.0759	0.0044	0.0048	0.0589	0.0132	0.0140	0.2058	0.0424	0.0534
Smith 2	2.4%	9.8%	0.0920	0.0216	0.0237	0.0590	0.0260	0.0276	0.0583	0.0103	0.0110
Daniel 1	5.3%	21.8%	0.1153	0.0318	0.0359	0.1396	0.0601	0.0698	0.2959	0.1331	0.1891
Daniel 2	5.7%	23.6%	0.1167	0.0374	0.0424	0.0396	0.0473	0.0493	0.2633	0.1614	0.2191
Weighted GPIF System Average:			0.1142	0.0558	0.0634	0.1117	0.0568	0.0650	0.1732	0.1075	0.1374

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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 2004 - December 2004

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Heat Rate Target	1st Prior Period Heat Rate Jul '02 - Jun '03	2nd Prior Period Heat Rate Jul '01 - Jun '02	3rd Prior Period Heat Rate Jul '00 - Jun '01
Crist 4	4.0%	5.3%	10,388	10,567	10,350	10,353
Crist 5	3.8%	5.0%	10,232	10,460	10,058	10,058
Crist 6	15.4%	20.3%	10,501	10,359	10,533	10,591
Crist 7	19.1%	25.2%	10,223	10,221	9,104	10,283
Smith 1	8.0%	10.5%	10,114	10,240	10,088	10,009
Smith 2	7.9%	10.4%	10,024	10,379	9,930	10,068
Daniel 1	7.5%	9.9%	9,994	9,838	9,973	10,086
Daniel 2	10.0%	13.2%	9,828	9,705	9,901	9,873
Weighted GPIF System Average:			10,182	10,192	9,890	10,213

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Example Calculation of Prior Season

Average Net Operating Heat Rate

Adjusted to Target Basis

Crist 6 Jul '01 - Jun '02

	Jul Jan	Aug Feb	Sep Mar	Oct Apr	Nov May	Dec Jun
1. Target Heat Rate*	10491.0 10484.0	10593.0 10483 0	10490.0 10638.0	10481 0 10484.0	10482.0 10370.0	10482.0 10486.0
2. Target Heat Rate at Actual Conditions**	10686.0 11094.0	10727 0 11106.0	10908.0 0.0	11025.0 11502.0	11347.0 11032.0	11482.0 10908.0
3. Adjustments to Actual Heat Rate (1-2)	-195.0 -610.0	-134.0 -623.0	-418.0 10638.0	-544.0 -1018.0	-865.0 -662.0	-1000.0 -422.0
4. Actual Heat Rate for Prior Period	10982.0 11371.0	11062.0 11260.0	11213.0 0.0	11064.0 10878.0	11337.0 10682.0	11257.0 11078.0
5. Adjusted actual Heat Rate (4+3)	10787.0 10761.0	10928.0 10637.0	10795.0 10638.0	10520.0 9860.0	10472.0 10020.0	10257.0 10656.0
6. Forecast Net MWH Generation*	217650.3 171086.7	216912.4 47638.6	210399.9 215983.7	187962.6 184482.0	181323.8 187205.9	195937.5 206666.9

7. Adjusted Actual Heat Rate for Jul '01 - Jun '02 = (Σ ((5)*(6)))/(Σ (6)) 10,533

* For the January 2004 - December 2004 time period.

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

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Derivation of Weighting Factors

Gulf Power Company

Period of: January 2004 - December 2004

Plant & Unit	Unit Performance Indicator	Production Cost Simulation Fuel Cost ($000) At Target (1)	At Maximum Improvement (2)	Savings (3)	Weighting Factor (% of Savings)
Crist 4	EA-1	$275,872	$275,864	$8	0.1%
Crist 4	ANOHR-1	$275,872	$275,643	$229	4.0%
Crist 5	EA-1	$275,872	$275,858	$14	0.2%
Crist 5	ANOHR-1	$275,872	$275,656	$216	3.8%
Crist 6	EA-1	$275,872	$275,788	$84	1.5%
Crist 6	ANOHR-1	$275,872	$274,996	$876	15.4%
Crist 7	EA-2	$275,872	$275,395	$477	8.4%
Crist 7	ANOHR-2	$275,872	$274,786	$1,086	19.1%
Smith 1	EA-3	$275,872	$275,840	$32	0.6%
Smith 1	ANOHR-3	$275,872	$275,418	$454	8.0%
Smith 2	EA-4	$275,872	$275,738	$134	2.4%
Smith 2	ANOHR-4	$275,872	$275,423	$449	7.9%
Daniel 1	EA-5	$275,872	$275,573	$299	5.3%
Daniel 1	ANOHR-5	$275,872	$275,444	$428	7.5%
Daniel 2	EA-6	$275,872	$275,548	$324	5.7%
Daniel 2	ANOHR-6	$275,872	$275,304	$568	10.0%

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

(2) All other unit performance indicators at target.

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

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2004 - December 2004

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	8	98.50	+ 10	229	10,076
+ 9	7	98.44	+ 9	206	10,100
+ 8	6	98.38	+ 8	183	10,123
+ 7	6	98.32	+ 7	160	10,147
+ 6	5	98.26	+ 6	137	10,171
+ 5	4	98.20	+ 5	115	10,195
+ 4	3	98.14	+ 4	92	10,218
+ 3	2	98.08	+ 3	69	10,242
+ 2	2	98.02	+ 2	46	10,266
+ 1	1	97.96	+ 1	23	10,289
				0	10,313
0	0	97.90	0	0	10,388
				0	10,463
- 1	(1)	97.80	- 1	(23)	10,487
- 2	(2)	97.70	- 2	(46)	10,510
- 3	(3)	97.60	- 3	(69)	10,534
- 4	(4)	97.50	- 4	(92)	10,558
- 5	(5)	97.40	- 5	(115)	10,582
- 6	(5)	97.30	- 6	(137)	10,605
- 7	(6)	97.20	- 7	(160)	10,629
- 8	(7)	97.10	- 8	(183)	10,653
- 9	(8)	97.00	- 9	(206)	10,676
- 10	(9)	96.90	- 10	(229)	10,700
Weighting Factor:		0.001	Weighting Factor:		0.040

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2004 - December 2004

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	97.70	+ 10	216	9,925
+ 9	13	97.61	+ 9	194	9,948
+ 8	11	97.52	+ 8	173	9,971
+ 7	10	97.43	+ 7	151	9,995
+ 6	8	97.34	+ 6	130	10,018
+ 5	7	97.25	+ 5	108	10,041
+ 4	6	97.16	+ 4	86	10,064
+ 3	4	97.07	+ 3	65	10,087
+ 2	3	96.98	+ 2	43	10,111
+ 1	1	96.89	+ 1	22	10,134
				0	10,157
0	0	96.80	0	0	10,232
				0	10,307
- 1	(2)	96.65	- 1	(22)	10,330
- 2	(4)	96.50	- 2	(43)	10,353
- 3	(6)	96.35	- 3	(65)	10,377
- 4	(8)	96.20	- 4	(86)	10,400
- 5	(10)	96.05	- 5	(108)	10,423
- 6	(11)	95.90	- 6	(130)	10,446
- 7	(13)	95.75	- 7	(151)	10,469
- 8	(15)	95.60	- 8	(173)	10,493
- 9	(17)	95.45	- 9	(194)	10,516
- 10	(19)	95.30	- 10	(216)	10,539
Weighting Factor:		0.002	Weighting Factor:		0.038

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2004 - December 2004

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	84	88.80	+ 10	876	10,186
+ 9	76	88.59	+ 9	788	10,210
+ 8	67	88.38	+ 8	701	10,234
+ 7	59	88.17	+ 7	613	10,258
+ 6	50	87.96	+ 6	526	10,282
+ 5	42	87.75	+ 5	438	10,306
+ 4	34	87.54	+ 4	350	10,330
+ 3	25	87.33	+ 3	263	10,354
+ 2	17	87.12	+ 2	175	10,378
+ 1	8	86.91	+ 1	88	10,402
				0	10,426
0	0	86.70	0	0	10,501
				0	10,576
- 1	(15)	86.39	- 1	(88)	10,600
- 2	(29)	86.08	- 2	(175)	10,624
- 3	(44)	85.77	- 3	(263)	10,648
- 4	(59)	85.46	- 4	(350)	10,672
- 5	(74)	85.15	- 5	(438)	10,696
- 6	(88)	84.84	- 6	(526)	10,720
- 7	(103)	84.53	- 7	(613)	10,744
- 8	(118)	84.22	- 8	(701)	10,768
- 9	(132)	83.91	- 9	(788)	10,792
- 10	(147)	83.60	- 10	(876)	10,816
Weighting Factor:		0.015	Weighting Factor:		0.154

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2004 - December 2004

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	477	72.60	+ 10	1,086	9,916
+ 9	429	72.35	+ 9	977	9,939
+ 8	382	72.10	+ 8	869	9,962
+ 7	334	71.85	+ 7	760	9,986
+ 6	286	71.60	+ 6	652	10,009
+ 5	239	71.35	+ 5	543	10,032
+ 4	191	71.10	+ 4	434	10,055
+ 3	143	70.85	+ 3	326	10,078
+ 2	95	70.60	+ 2	217	10,102
+ 1	48	70.35	+ 1	109	10,125
				0	10,148
0	0	70.10	0	0	10,223
				0	10,298
- 1	(63)	69.72	- 1	(109)	10,321
- 2	(127)	69.34	- 2	(217)	10,344
- 3	(190)	68.96	- 3	(326)	10,368
- 4	(254)	68.58	- 4	(434)	10,391
- 5	(317)	68.20	- 5	(543)	10,414
- 6	(380)	67.82	- 6	(652)	10,437
- 7	(444)	67.44	- 7	(760)	10,460
- 8	(507)	67.06	- 8	(869)	10,484
- 9	(571)	66.68	- 9	(977)	10,507
- 10	(634)	66.30	- 10	(1,086)	10,530
Weighting Factor:		0.084	Weighting Factor:		0.191

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2004 - December 2004

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	32	90.60	+ 10	454	9,811
+ 9	29	90.55	+ 9	409	9,834
+ 8	26	90.50	+ 8	363	9,857
+ 7	22	90.45	+ 7	318	9,879
+ 6	19	90.40	+ 6	272	9,902
+ 5	16	90.35	+ 5	227	9,925
+ 4	13	90.30	+ 4	182	9,948
+ 3	10	90.25	+ 3	136	9,971
+ 2	6	90.20	+ 2	91	9,993
+ 1	3	90.15	+ 1	45	10,016
				0	10,039
0	0	90.10	0	0	10,114
				0	10,189
- 1	(3)	90.02	- 1	(45)	10,212
- 2	(6)	89.94	- 2	(91)	10,235
- 3	(10)	89.86	- 3	(136)	10,257
- 4	(13)	89.78	- 4	(182)	10,280
- 5	(16)	89.70	- 5	(227)	10,303
- 6	(19)	89.62	- 6	(272)	10,326
- 7	(22)	89.54	- 7	(318)	10,349
- 8	(26)	89.46	- 8	(363)	10,371
- 9	(29)	89.38	- 9	(409)	10,394
- 10	(32)	89.30	- 10	(454)	10,417
Weighting Factor:		0.006	Weighting Factor:		0.080

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2004 - December 2004

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	134	85.50	+ 10	449	9,723
+ 9	121	85.23	+ 9	404	9,746
+ 8	107	84.96	+ 8	359	9,768
+ 7	94	84.69	+ 7	314	9,791
+ 6	80	84.42	+ 6	269	9,813
+ 5	67	84.15	+ 5	225	9,836
+ 4	54	83.88	+ 4	180	9,859
+ 3	40	83.61	+ 3	135	9,881
+ 2	27	83.34	+ 2	90	9,904
+ 1	13	83.07	+ 1	45	9,926
				0	9,949
0	0	82.80	0	0	10,024
				0	10,099
- 1	(23)	82.40	- 1	(45)	10,122
- 2	(45)	82.00	- 2	(90)	10,144
- 3	(68)	81.60	- 3	(135)	10,167
- 4	(91)	81.20	- 4	(180)	10,189
- 5	(114)	80.80	- 5	(225)	10,212
- 6	(136)	80.40	- 6	(269)	10,235
- 7	(159)	80.00	- 7	(314)	10,257
- 8	(182)	79.60	- 8	(359)	10,280
- 9	(204)	79.20	- 9	(404)	10,302
- 10	(227)	78.80	- 10	(449)	10,325
Weighting Factor:		0.024	Weighting Factor:		0.079

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2004 - December 2004

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	299	71.20	+ 10	428	9,694
+ 9	269	71.04	+ 9	385	9,717
+ 8	239	70.88	+ 8	342	9,739
+ 7	209	70.72	+ 7	300	9,762
+ 6	179	70.56	+ 6	257	9,784
+ 5	150	70.40	+ 5	214	9,807
+ 4	120	70.24	+ 4	171	9,829
+ 3	90	70.08	+ 3	128	9,852
+ 2	60	69.92	+ 2	86	9,874
+ 1	30	69.76	+ 1	43	9,897
				0	9,919
0	0	69.60	0	0	9,994
				0	10,069
- 1	(45)	69.34	- 1	(43)	10,092
- 2	(91)	69.08	- 2	(86)	10,114
- 3	(136)	68.82	- 3	(128)	10,137
- 4	(181)	68.56	- 4	(171)	10,159
- 5	(227)	68.30	- 5	(214)	10,182
- 6	(272)	68.04	- 6	(257)	10,204
- 7	(317)	67.78	- 7	(300)	10,227
- 8	(362)	67.52	- 8	(342)	10,249
- 9	(408)	67.26	- 9	(385)	10,272
- 10	(453)	67.00	- 10	(428)	10,294
Weighting Factor:		0.053	Weighting Factor:		0.075

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2004 - December 2004

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	324	83.20	+ 10	568	9,533
+ 9	292	82.99	+ 9	511	9,555
+ 8	259	82.78	+ 8	454	9,577
+ 7	227	82.57	+ 7	398	9,599
+ 6	194	82.36	+ 6	341	9,621
+ 5	162	82.15	+ 5	284	9,643
+ 4	130	81.94	+ 4	227	9,665
+ 3	97	81.73	+ 3	170	9,687
+ 2	65	81.52	+ 2	114	9,709
+ 1	32	81.31	+ 1	57	9,731
				0	9,753
0	0	81.10	0	0	9,828
				0	9,903
- 1	(55)	80.79	- 1	(57)	9,925
- 2	(110)	80.48	- 2	(114)	9,947
- 3	(165)	80.17	- 3	(170)	9,969
- 4	(220)	79.86	- 4	(227)	9,991
- 5	(275)	79.55	- 5	(284)	10,013
- 6	(330)	79.24	- 6	(341)	10,035
- 7	(385)	78.93	- 7	(398)	10,057
- 8	(440)	78.62	- 8	(454)	10,079
- 9	(495)	78.31	- 9	(511)	10,101
- 10	(550)	78.00	- 10	(568)	10,123
Weighting Factor:		0.057	Weighting Factor:		0.100

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ESTIMATED UNIT PERFORMANCE DATA

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2004 - December 2004

	CRIST 4	Jan '04	Feb '04	Mar '04	Apr '04	May '04	Jun '04	
1.	EAF (%)	99.1	98.7	92.3	99.0	99.1	99.0	
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3.	EUOF (%)	0.9	1.3	7.7	1.0	0.9	1.0	
4.	EUOR (%)	0.9	1.3	7.7	1.0	0.9	1.0	
5.	PH	744.0	696.0	744.0	719.0	744.0	720.0	
6.	SH	737.0	690.0	690.0	712.0	737.0	713.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	7.0	6.0	54.0	7.0	7.0	7.0	
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	7.0	9.0	9.0	7.0	7.0	7.0	
11.	MOH & EMOH	0.0	0.0	48.0	0.0	0.0	0.0	
12.	Oper MBtu	567525.0	532290.0	538839.0	537643.0	515319.0	549925.0	
13.	Net Gen (MWH)	54648.5	51270.5	51230.2	51661.7	48901.0	52969.1	
14.	ANOHR (Btu/KWH)	10385.0	10382.0	10518.0	10407.0	10538.0	10382.0	
15.	NOF %	95.1	95.3	95.2	93.0	85.1	95.2	
16.	NPC (MW)	78.0	78.0	78.0	78.0	78.0	78.0	

19.	ANOHR Equation	10^6 / AKW * [617.42 + 9.96 * MAR - 23.05 * NOV] - 8329 + 0.13863 * LSRF / AKW

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	CRIST 4	Jul '04	Aug '04	Sep '04	Oct '04	Nov '04	Dec '04	Total
1.	EAF (%)	99.1	99.1	99.0	98.7	92.5	99.1	97.9
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.	EUOF (%)	0.9	0.9	1.0	1.3	7.5	0.9	2.1
4.	EUOR (%)	0.9	0.9	1.0	1.3	7.5	0.9	2.1
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8784.0
6.	SH	737.0	737.0	713.0	738.0	666.0	737.0	8607.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	7.0	7.0	7.0	7.0	54.0	7.0	177.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.	FOH & EFOH	7.0	7.0	7.0	10.0	6.0	7.0	90.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	48.0	0.0	96.0
12.	Oper MBtu	584093.0	584727.0	560374.0	546410.0	484107.0	549655.0	6550907.0
13.	Net Gen (MWH)	56396.0	56462.6	54069.3	52358.2	47950.4	52734.8	630652.3
14.	ANOHR (Btu/KWH)	10357.0	10356.0	10364.0	10436.0	10096.0	10423.0	10388.0
15.	NOF %	98.1	98.2	97.2	91.0	92.3	91.7	93.9
16.	NPC (MW)	78.0	78.0	78.0	78.0	78.0	78.0	78.0

19.	ANOHR Equation	10^6 / AKW * [617.42 + 9.96 * MAR - 23 05 * NOV] - 8329 + 0.13863 * LSRF / AKW

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	CRIST 5	Jan '04	Feb '04	Mar '04	Apr '04	May '04	Jun '04	
1	EAF (%)	98.0	97.6	91.3	97.9	98.0	97.9	
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3.	EUOF (%)	2.0	2.4	8.7	2.1	2.0	2.1	
4.	EUOR (%)	2.0	2.4	8.7	2.1	2.0	2.1	
5.	PH	744.0	696.0	744.0	719.0	744.0	720.0	
6.	SH	729.0	682.0	682.0	704.0	729.0	705.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	15.0	14.0	62.0	15.0	15.0	15.0	
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	15.0	17.0	17.0	15.0	15.0	15.0	
11.	MOH & EMOH	0.0	0.0	48.0	0.0	0.0	0.0	
12.	Oper MBtu	556669.0	521515.0	523218.0	527860.0	511982.0	540587.0	
13.	Net Gen (MWH)	54372.8	50959.1	51175.5	51233.6	48584.4	52874.3	
14.	ANOHR (Btu/KWH)	10238.0	10234.0	10224.0	10303.0	10538.0	10224.0	
15.	NOF %	93.2	93.4	93.8	91.0	83.3	93.7	
16.	NPC (MW)	80.0	80.0	80.0	80.0	80.0	80.0	

19.	ANOHR Equation	10^6 / AKW * [-136.85 - 13 15 * OCT - 21.65 * NOV] + 18,611 - 0.08694 * LSRF / AKW

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	CRIST 5	Jul '04	Aug '04	Sep '04	Oct '04	Nov '04	Dec '04	Total
1.	EAF (%)	98.0	98.0	97.9	97.6	91.4	97.7	96.8
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.	EUOF (%)	2.0	2.0	2.1	2.4	8.6	2.3	3.2
4.	EUOR (%)	2.0	2.0	2.1	2.4	8.6	2.3	3.2
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8784.0
6.	SH	729.0	729.0	705.0	730.0	658 0	729.0	8511.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	15.0	15.0	15.0	15.0	62.0	15.0	273.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.	FOH & EFOH	15.0	15.0	15.0	18.0	14.0	17.0	188.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	48.0	0.0	96.0
12.	Oper MBtu	572999.0	575183.0	546676.0	526916.0	476578.0	533101.0	6413284.0
13.	Net Gen (MWH)	56547.8	56836.3	53674.6	51709.1	47539.0	51304.1	626810.6
14.	ANOHR (Btu/KWH)	10133.0	10120.0	10185.0	10190.0	10025.0	10391.0	10232.0
15.	NOF %	97.0	97.5	95.2	88.5	90.3	88.0	92.1
16.	NPC (MW)	80.0	80.0	80.0	80.0	80.0	80.0	80.0

19.	ANOHR Equation	10^6 / AKW * [-136.85 - 13.15 * OCT - 21.65 * NOV] + 18,611 - 0.08694 * LSRF / AKW

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	CRIST 6	Jan '04	Feb '04	Mar '04	Apr '04	May '04	Jun '04	
1.	EAF (%)	78.4	23.6	96.8	87.2	97.2	97.2	
2.	POF (%)	3.2	75.9	0.0	0.0	0.0	0.0	
3.	EUOF (%)	18.4	0.5	3.2	12.8	2.8	2.8	
4.	EUOR (%)	19.0	2.4	3.2	12.8	2.8	2.8	
5.	PH	744.0	696.0	744.0	719.0	744.0	720.0	
6.	SH	583.0	164.0	723.0	629.0	723.0	700.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	161.0	532.0	21.0	90.0	21.0	20.0	
9.	POH	24.0	528.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	17.0	4.0	24.0	20.0	21.0	20.0	
11.	MOH & EMOH	120.0	0.0	0.0	72.0	0.0	0.0	
12.	Oper MBtu	1793673.0	499395.0	2297635.0	1934109.0	1941325.0	2167109.0	
13.	Net Gen (MWH)	171086.7	47638.6	215983.7	184482.0	187205.9	206666.9	
14.	ANOHR (Btu/KWH)	10484.0	10483.0	10638.0	10484.0	10370.0	10486.0	
15.	NOF %	97.2	96.2	98.9	97.1	85.7	97.8	
16.	NPC (MW)	302.0	302.0	302.0	302.0	302.0	302.0	

19.	ANOHR Equation	10^6 / AKW * [1069.69 + 44.52 * MAR - 33.07 * MAY + 30 91 * AUG] + 844 + 0.02012 * LSRF / AKW

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	CRIST 6	Jul '04	Aug '04	Sep '04	Oct '04	Nov '04	Dec '04	Total
1.	EAF (%)	97.2	97.2	96.8	87.8	87.1	90.9	86.7
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	6.3
3.	EUOF (%)	2.8	2.8	3.2	12.2	12.9	9.1	7.0
4.	EUOR (%)	2.8	2.8	3.2	12.2	12.9	9.1	7.5
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8784.0
6.	SH	723.0	723.0	700.0	654.0	630.0	676.0	7628.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	21.0	21.0	20.0	91.0	90.0	68.0	1156.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	552.0
10.	FOH & EFOH	21.0	21.0	23.0	19.0	21.0	20.0	231.0
11.	MOH & EMOH	0.0	0.0	0.0	72.0	72.0	48.0	384.0
12.	Oper MBtu	2283369.0	2297753.0	2207095.0	1970036.0	1900636.0	2053817.0	23345952.0
13.	Net Gen (MWH)	217650.3	216912.4	210399.9	187962.6	181323.8	195937.5	2223250.3
14.	ANOHR (Btu/KWH)	10491.0	10593.0	10490.0	10481.0	10482.0	10482.0	10501.0
15.	NOF %	99.7	99.3	99.5	95.2	95.3	96.0	96.5
16.	NPC (MW)	302.0	302.0	302.0	302.0	302.0	302.0	302.0

19.	ANOHR Equation	10^6 / AKW * [1069.69 + 44.52 * MAR - 33.07 * MAY + 30.91 * AUG] + 844 + 0.02012 * LSRF / AKW

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	CRIST 7	Jan '04	Feb '04	Mar '04	Apr '04	May '04	Jun '04	
1.	EAF (%)	93.0	67.4	0.0	0.0	45.0	93.3	
2.	POF (%)	0.0	6.9	100.0	100.0	51.7	0.0	
3.	EUOF (%)	7.0	25.7	0.0	0.0	3.3	6.7	
4.	EUOR (%)	7.0	27.6	0.0	0.0	6.7	6 7	
5.	PH	744.0	696.0	744.0	719.0	744.0	720.0	
6.	SH	695.0	471.0	0.0	0.0	335.0	672.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	49.0	225.0	744.0	719.0	409.0	48.0	
9.	POH	0.0	48.0	744.0	719.0	385.0	0.0	
10.	FOH & EFOH	52.0	35.0	0.0	0.0	24.0	48.0	
11.	MOH & EMOH	0.0	144.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	3340043.0	2250580.0	0.0	0.0	1510822.0	3268337.0	
13.	Net Gen (MWH)	329913.4	222191.7	0.0	0.0	148454.6	318737.8	
14.	ANOHR (Btu/KWH)	10124.0	10129.0	-	-	10177.0	10254.0	
15.	NOF %	99.5	98.9	0.0	0.0	92.9	99.4	
16.	NPC (MW)	477.0	477.0	477.0	477.0	477.0	477.0	

19.	ANOHR Equation	10^6 / AKW * [349.83 - 96 07 * MAR + 61 52 * JUN + 115 03 * JUL + 78.38 * AUG + 90.36 * SEP + 64 01 * NOV] + 9,387

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PERIOD OF: January 2004 - December 2004

	CRIST 7	Jul '04	Aug '04	Sep '04	Oct '04	Nov '04	Dec '04	Total
1.	EAF (%)	93.4	93.4	93.3	84.0	93.1	84.4	70.1
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	21.6
3.	EUOF (%)	6.6	6.6	6.7	16.0	6.9	15.6	8.3
4.	EUOR (%)	6.6	6.6	6.7	16.0	6.9	15.6	10.7
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8784.0
6.	SH	695.0	695.0	672.0	629.0	672.0	628.0	6164.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	49.0	49.0	48.0	116.0	48.0	116.0	2620.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	1896.0
10.	FOH & EFOH	49.0	49.0	48.0	47.0	50.0	44.0	446.0
11.	MOH & EMOH	0.0	0.0	0.0	72.0	0.0	72.0	288.0
12.	Oper MBtu	3427414.0	3401024.0	3298075.0	3005352.0	3267772.0	3009101.0	29778520.0
13.	Net Gen (MWH)	330703.8	330613.8	319828.8	296707.7	318496.3	297165.8	2912813.7
14.	ANOHR (Btu/KWH)	10364.0	10287.0	10312.0	10129.0	10260.0	10126.0	10223.0
15.	NOF %	99.8	99.7	99.8	98.9	99.4	99.2	99.1
16.	NPC (MW)	477.0	477.0	477.0	477.0	477.0	477.0	477.0

19.	ANOHR Equation	10^6 / AKW * [349.83 - 96.07 * MAR + 61.52 * JUN + 115 03 * JUL + 78 38 * AUG + 90 36 * SEP + 64 01 * NOV] + 9,387

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	SMITH 1	Jan '04	Feb '04	Mar '04	Apr '04	May '04	Jun '04	
1.	EAF (%)	98.5	67.8	32.0	92 2	98.8	98.9	
2.	POF (%)	0.0	31.0	67.7	0.0	0.0	0.0	
3.	EUOF (%)	1.5	1.2	0.3	7.8	1.2	1.1	
4.	EUOR (%)	1.5	1.7	0.8	7.8	1.2	1.1	
5.	PH	744.0	696.0	744.0	719.0	744.0	720.0	
6.	SH	735.0	475.0	238.0	663.0	735.0	712.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8	UH	9.0	221.0	506.0	56.0	9.0	8.0	
9.	POH	0.0	216.0	504.0	0.0	0.0	0.0	
10.	FOH & EFOH	11.0	8.0	2.0	8.0	9.0	8.0	
11.	MOH & EMOH	0.0	0.0	0.0	48.0	0.0	0.0	
12.	Oper MBtu	1159333.0	743840.0	381829.0	1044563.0	1021843.0	1133851.0	
13.	Net Gen (MWH)	116282.1	74810.4	37760.0	101888.7	99886.9	112062.8	
14.	ANOHR (Btu/KWH)	9970.0	9943.0	10112.0	10252.0	10230.0	10118.0	
15.	NOF %	97.7	97.2	97.9	94.9	83.9	97.2	
16.	NPC (MW)	162.0	162.0	162.0	162.0	162.0	162.0	

19.	ANOHR Equation	10^6 / AKW * [111 12 - 22.83 * JAN - 27.46 * FEB + 17.98 * APR] + 9,412

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	SMITH 1	Jul '04	Aug '04	Sep '04	Oct '04	Nov '04	Dec '04	Total
1.	EAF (%)	98.8	98.8	98.5	98 8	98.5	98.8	90.1
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	8.2
3.	EUOF (%)	1.2	1.2	1.5	1.2	1.5	1.2	1.7
4.	EUOR (%)	1.2	1.2	1.5	1.2	1.5	1.2	1.9
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8784.0
6.	SH	735.0	735.0	712.0	736.0	712.0	735.0	7923.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	9.0	9.0	8.0	9.0	8.0	9.0	861.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	720.0
10.	FOH & EFOH	9.0	9.0	11.0	9.0	11.0	9.0	104.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	48.0
12.	Oper MBtu	1197830.0	1193018.0	1157951.0	1133856.0	1105477.0	1145279.0	12418670.0
13.	Net Gen (MWH)	118597.0	118073.8	114625.9	111776.0	109053.7	113013.5	1227830.8
14.	ANOHR (Btu/KWH)	10100.0	10104.0	10102.0	10144.0	10137.0	10134.0	10114.0
15.	NOF %	99.6	99.2	99.4	93.7	94.5	94.9	95.7
16.	NPC (MW)	162.0	162.0	162.0	162.0	162.0	162.0	162.0

19.	ANOHR Equation	10^6 / AKW * [111.12 - 22.83 * JAN - 27.46 * FEB + 17 98 * APR] + 9,412

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	SMITH 2	Jan '04	Feb '04	Mar '04	Apr '04	May '04	Jun '04	
1.	EAF (%)	93.7	83.8	69.5	15.6	93.3	93.6	
2.	POF (%)	0.0	0.0	16.1	83.4	0.0	0.0	
3.	EUOF (%)	6.3	16.2	14.4	1.0	6.7	6.4	
4.	EUOR (%)	6.3	16.2	17.1	5.9	6.7	6.4	
5.	PH	744.0	696.0	744.0	719.0	744.0	720.0	
6.	SH	697.0	585.0	517.0	112.0	697.0	674.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	47.0	111.0	227.0	607.0	47.0	46.0	
9.	POH	0.0	0.0	120.0	600.0	0.0	0.0	
10.	FOH & EFOH	47.0	41.0	35.0	7.0	50.0	46.0	
11.	MOH & EMOH	0.0	72.0	72.0	0.0	0.0	0.0	
12.	Oper MBtu	1252926.0	1045472.0	939795.0	197300.0	1082162.0	1239550.0	
13.	Net Gen (MWH)	127316.9	106474.4	95770.4	19557.9	107240.3	123313.8	
14.	ANOHR (Btu/KWH)	9841.0	9819.0	9813.0	10088.0	10091.0	10052.0	
15.	NOF %	96.6	96.3	98.0	92.4	81.4	96.8	
16.	NPC (MW)	189.0	189.0	189.0	189.0	189.0	189.0	

19.	ANOHR Equation	10^6 / AKW * [139.59 - 38.77 * JAN - 43.18 * FEB - 42.50 * MAR - 16.17 * MAY + 27.46 * JUL + 19.26 * AUG] + 9,289

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	SMITH 2	Jul '04	Aug '04	Sep '04	Oct '04	Nov '04	Dec '04	Total
1.	EAF (%)	93.7	93.7	93.2	84.6	93.3	84.5	82.8
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	8.2
3.	EUOF (%)	6.3	6.3	6.8	15.4	6.7	15.5	9.0
4.	EUOR (%)	6.3	6.3	6.8	15.4	6.7	15.5	9.8
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8784.0
6.	SH	697.0	697.0	674.0	630.0	674.0	629.0	7283.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	47.0	47.0	46.0	115.0	46.0	115.0	1501.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	720.0
10.	FOH & EFOH	47.0	47.0	49.0	43.0	48.0	43.0	503.0
11.	MOH & EMOH	0.0	0.0	0.0	72.0	0.0	72.0	288.0
12.	Oper MBtu	1329849.0	1321533.0	1268272.0	1114266.0	1212589.0	1130891.0	13134605.0
13.	Net Gen (MWH)	130633.5	130354.4	126410 0	110487.5	120404.0	112291.8	1310254.9
14.	ANOHR (Btu/KWH)	10180.0	10138.0	10033.0	10085.0	10071.0	10071.0	10024.0
15.	NOF %	99.2	99.0	99.2	92.8	94.5	94.5	95.2
16.	NPC (MW)	189.0	189.0	189.0	189.0	189.0	189.0	189.0

19.	ANOHR Equation	10^6 / AKW * [139.59 - 38.77 * JAN - 43 18 * FEB - 42 50 * MAR - 16 17 * MAY + 27 46 * JUL + 19.26 * AUG] + 9,289

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2004 - December 2004

	DANIEL 1	Jan '04	Feb '04	Mar '04	Apr '04	May '04	Jun '04	
1.	EAF (%)	48.8	91.5	94.8	85.5	94.8	95.1	
2.	POF (%)	45.2	0.0	0.0	0.0	0.0	0.0	
3.	EUOF (%)	6.0	8.5	5.2	14.5	5.2	4.9	
4.	EUOR (%)	11.0	8.5	5.2	14.5	5.2	4.9	
5.	PH	744.0	696.0	744.0	719.0	744.0	720.0	
6.	SH	365.0	639.0	708.0	615 0	708.0	685.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	379.0	57.0	36.0	104.0	36.0	35.0	
9.	POH	336.0	0.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	21.0	35.0	39.0	32.0	39.0	35.0	
11.	MOH & EMOH	24.0	24.0	0.0	72.0	0.0	0.0	
12.	Oper MBtu	1711433.0	3084692.0	3457717.0	2874351.0	2854035.0	3306686.0	
13.	Net Gen (MWH)	171417.6	310237.6	348384.6	287751.6	285175.4	332564.2	
14.	ANOHR (Btu/KWH)	9984.0	9943.0	9925.0	9989.0	10008.0	9943.0	
15.	NOF %	92.6	95.8	97.1	92.3	79.4	95.8	
16.	NPC (MW)	507.0	507.0	507.0	507.0	507.0	507.0	

19.	ANOHR Equation	10^6 / AKW * [-528.45 - 59.78 * MAY + 139.64 * JUL + 75 47 * AUG] + 15,490 - 0 00906 * LSRF / AKW

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2004 - December 2004

	DANIEL 1	Jul '04	Aug '04	Sep '04	Oct '04	Nov '04	Dec '04	Total
1.	EAF (%)	95.2	95.2	95.1	18.5	0.0	21.5	69.6
2.	POF (%)	0.0	0.0	0.0	74.1	100.0	77.4	24.9
3.	EUOF (%)	4.8	4.8	4.9	7.4	0.0	1.1	5.5
4.	EUOR (%)	4.8	4.8	4.9	28.5	0.0	4.8	7.4
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8784.0
6.	SH	708.0	708.0	685.0	138.0	0.0	160.0	6119.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	36.0	36.0	35.0	607.0	720.0	584.0	2665.0
9.	POH	0.0	0.0	0.0	552.0	720.0	576.0	2184.0
10.	FOH & EFOH	36.0	36.0	35.0	7.0	0.0	8.0	323.0
11.	MOH & EMOH	0.0	0.0	0.0	48.0	0.0	0.0	168.0
12.	Oper MBtu	3619726.0	3561609.0	3395661.0	635806.0	0.0	727477.0	29229193.0
13.	Net Gen (MWH)	355747.0	354248.0	342926.8	63529.8	0.0	72559.0	2924541.6
14.	ANOHR (Btu/KWH)	10175.0	10054.0	9902.0	10008.0	-	10026.0	9994.0
15.	NOF %	99.1	98.7	98.7	90.8	0.0	89.4	94.3
16.	NPC (MW)	507.0	507.0	507.0	507.0	507.0	507.0	507.0

19.	ANOHR Equation	10^6 / AKW * [-528.45 - 59.78 * MAY + 139 64 * JUL + 75 47 * AUG] + 15,490 - 0.00906 * LSRF / AKW

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2004 - December 2004

	DANIEL 2	Jan '04	Feb '04	Mar '04	Apr '04	May '04	Jun '04	
1.	EAF (%)	27.3	22.7	84.1	93.7	93.4	93.8	
2.	POF (%)	71.0	75.9	0.0	0 0	0.0	0.0	
3.	EUOF (%)	1.7	1.4	15.9	6.3	6.6	6.2	
4.	EUOR (%)	6.0	6.0	15.9	6.3	6.6	6.3	
5.	PH	744.0	696.0	744.0	719.0	744.0	720.0	
6.	SH	203.0	158.0	630.0	674.0	698.0	675.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	541.0	538.0	114.0	45.0	46.0	45.0	
9.	POH	528.0	528.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	13.0	10.0	46.0	45.0	49.0	45.0	
11.	MOH & EMOH	0.0	0.0	72.0	0.0	0.0	0.0	
12.	Oper MBtu	928792.0	748299.0	3055868.0	3225952.0	2920922.0	3302115.0	
13.	Net Gen (MWH)	96218.0	77247.8	316342.4	326645.6	290004.2	335342.2	
14.	ANOHR (Btu/KWH)	9653.0	9687.0	9660.0	9876.0	10072.0	9847.0	
15.	NOF %	92.2	95.1	97.7	94.3	80.8	96.7	
16.	NPC (MW)	514.0	514.0	514.0	514.0	514.0	514.0	

19.	ANOHR Equation	10^6 / AKW * [571.00 - 118.56 * JAN - 87 31 * FEB - 88 00 * MAR - 88.36 * NOV] + 8,698

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2004 - December 2004

	DANIEL 2	Jul '04	Aug '04	Sep '04	Oct '04	Nov '04	Dec '04	Total
1.	EAF (%)	93.8	93.8	93.8	93.8	87.1	93.4	81.1
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	12.0
3.	EUOF (%)	6.2	6.2	6.2	6.2	12.9	6.6	6.9
4.	EUOR (%)	6.2	6.2	6.3	6.2	12.9	6.6	7.8
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8784.0
6.	SH	698.0	698.0	675.0	699.0	630.0	698.0	7136.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	46.0	46.0	45.0	46.0	90.0	46.0	1648.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	1056.0
10.	FOH & EFOH	46.0	46.0	45.0	46.0	45.0	49.0	485.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	48.0	0.0	120.0
12.	Oper MBtu	3503209.0	3487881.0	3382070.0	3301483.0	2938297.0	3353737.0	34148625.0
13.	Net Gen (MWH)	356924.0	355181.4	344511.6	333685.4	302854.8	339756.6	3474714.0
14.	ANOHR (Btu/KWH)	9815.0	9820.0	9817.0	9894.0	9702.0	9871.0	9828.0
15.	NOF %	99.5	99.0	99.3	92.9	93.5	94.7	94.7
16.	NPC (MW)	514.0	514.0	514.0	514.0	514.0	514.0	514.0

19.	ANOHR Equation	10^6 / AKW * [571.00 - 118.56 * JAN - 87 31 * FEB - 88.00 * MAR - 88 36 * NOV] + 8,698

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Planned Outage Schedules (Estimated)

Gulf Power Company

Period of: January 2004 - December 2004

Plant & Unit	Planned Outage Dates			Reason for Outage
Crist 6	01/31/04	-	02/22/04	General boiler maintenance and inspection.
Crist 7	02/28/04	-	05/16/04	Turbine and general boiler maintenance and inspection.
Smith 1	02/21/04	-	03/21/04	Turbine valve outage and boiler inspection.
Smith 2	03/27/04	-	04/25/04	General boiler maintenance and inspection.
Daniel 1	01/17/04	-	01/30/04	Semi-annual maintenance and inspection
Daniel 1	10/09/04	-	12/24/04	General boiler maintenance and inspection.
Daniel 2	01/10/04	-	02/22/04	General boiler maintenance and inspection.

Notes Regarding Estimated Planned Outage Schedules

Gulf Power Company

Period of: January 2004 - December 2004

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 2004 - December 2004, the outages shown below are currently planned and could be rescheduled for the target period.

Plant & Unit	Planned Outage Dates	Reason for Outage

None

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AFFIDAVIT

STATE OF FLORIDA)
)
COUNTY OF ESCAMBIA)

Docket No. 030001-EI

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

Lonzelle S. Noack
Power Generation Specialist, Senior

Sworn to and subscribed before me this 8th day of September, 2003.

Notary Public, State of Florida at Large

Commission Number:

Commission Expires:

ROLLANDA R. COTHRAN
MY COMMISSION # DD 068475
EXPIRES: February 26, 2006
Bonded Thru Notary Public Underwriters