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

GENERATING PERFORMANCE INCENTIVE FACTOR

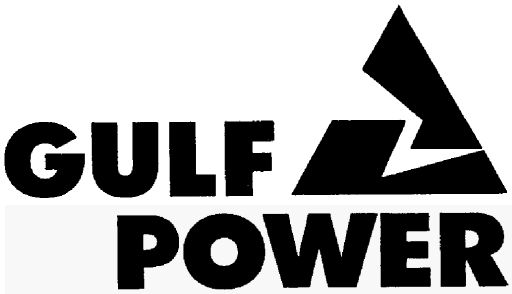
TARGETS FOR

JANUARY 2005 - DECEMBER 2005

Before

THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 040001-EI



A SOUTHERN COMPANY

GULF POWER COMPANY
Before the Florida Public Service Commission
Direct Testimony of
L. S. Noack
Docket No. 040001-EI
Date of Filing September 9, 2004

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, 2005 through December 31, 2005.

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, which represent all of Gulf's qualifying base and intermediate load units for GPIF, is approximately 79% of Gulf's projected net generation for 2005.

Q. What are the target heat rates Gulf proposes to use in the GPIF for these units for the performance period January 1, 2005 through December 31, 2005?

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. Are there any current or projected changes in the fuel mix for any of the proposed GPIF units that that may affect the applicability of these heat rate targets?

A. Yes. Plant Daniel Units 1 and 2, which for the past few years have been burning a high-Btu bituminous coal, have recently switched to a blend of approximately 60% high-Btu bituminous coal and 40% low-Btu sub-bituminous coal. This change in fuel is due to current economics and results in lower costs to customers than if the units continued to burn the high-Btu coal only.

However, this change in fuel is also expected to increase the heat rates of these units above the targets set in this filing. **This expected increase is** not an indication of a change in unit efficiency but is more a reflection of the change in heat content and properties of the fuel being burned.

Because the heat rate targets in this filing were set according to the GPIF implementation manual, which required the targets to be set based on the recent historical high-Btu coal burn for Daniel Units 1 and 2, the heat rate targets in this filing are only applicable to these units when burning high-Btu coal. Consequently, there is no reasonable way to determine what portion of the projected heat rates will be due to actual unit performance and what portion will be due to the lower-Btu fuel mix. **The GPIF process was not** established to reward or penalize units for fuel switching. **Therefore, the heat rate targets set in** this filing for Daniel Units 1 and 2 will not be applicable for 2005 if the units continue to burn this new projected fuel mix.

Q. Please describe how the company proposes to address this change in fuel in future GPIF filings.

A. Since there is no historical data on which to set

reasonable targets for the projected change in fuel for Daniel Units 1 and 2, Gulf proposes to exclude Plant Daniel Units 1 and 2 from the GPIF heat rate calculations for the year 2005 time period and for the months in 2004 when these units burn this same fuel mix. In accordance with past commission orders, this exclusion will be accomplished by setting the units' ANOHRs (Average Net Operating Heat Rates) equal to their respective target ANOHRs at Actual Conditions. This will be indicated in the 2005 GPIF Results Filing submitted in the spring of 2006 and in the 2004 GPIF Results Filing that will be submitted in the spring of 2005. This procedure results in producing neither a reward nor a penalty for ANOHR for these two units.

If adequate data is available, the Btu/lb independent variable that was stipulated and approved in Commission Order PSC-99-2512-FOF-EI will be added to the target heat rate equations for Daniel Units 1 and 2 beginning with the 2006 GPIF Target Filing submitted in the fall of 2005. This process should account for the change in fuel for these units at that time. This Btu/lb variable could not be added to this year's target filing because there was not adequate data representing the lower-Btu fuel burn. **Without** adequate data, the Btu/lb variable is not significant or

meaningful in the heat rate target equations.

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 were 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, 2005 through December 31, 2005.

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 on Page 5 of Schedule 3 of my Exhibit_(LSN-2).

3. The proposal to exclude Daniel Units 1 and 2 from the GPIF heat rate calculations for the year 2005 time period and for the affected months in 2004 when these units burn a significantly lower-Btu coal mix than they have historically. If adequate data is available, this change in fuel mix will be accounted for by adding a Btu/lb independent variable to the target heat rate equations

beginning with the 2006 Target Filing that will be submitted in the fall of 2005.

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

5. The weekly average net operating heat rate least squares regression equations, shown on Page 2 of Schedule 1 and also on Pages 20 through 35 of Schedule 3 of my Exhibit_(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. 040001-EI
Gulf Power Company
Witness: L. S. Noack
Exhibit No.___(LSN-2)

EXHIBIT TO THE TESTIMONY OF

L. S. NOACK

IN FPSC DOCKET 040001-EI

I. DETERMINATION OF HEAT RATE TARGETS

Target Heat Rate Equations

Crist 4 ANOHR = 10^6 / AKW * [604.51 + 16.03 * JAN + 10.26 * MAR + 8.72 * APR]

- 7798 + 0.13404 * LSRF / AKW

Crist 5 ANOHR = 10^6 / AKW * [160.95 - 14.39 * JUL - 17.85 * AUG - 13.91 * SEP - 18.50 * OCT - 35.97 * NOV]

+ 8,240

Crist 6 ANOHR = 10^6 / AKW * [1533.78 + 120.92 * JAN + 64.73 * JUL + 71.04 * AUG + 66.84 * OCT]

- 3884 + 0.02998 * LSRF / AKW

Crist 7 ANOHR = 10^6 / AKW * [1414.12 - 52.99 * JAN - 235.50 * MAR + 42.16 * JUL + 51.30 * SEP - 45.57 * OCT]

+ 2,568 + 0.00993 * LSRF / AKW

Smith 1 ANOHR = 10^6 / AKW * [334.98 - 12.87 * JAN]

+ 4,856 + 0.02059 * LSRF / AKW

Smith 2 ANOHR = 10^6 / AKW * [-318.85 - 47.20 * JAN - 23.05 * FEB - 61.42 * MAR + 62.94 * APR + 16.98 * MAY + 24.15 * JUN]

+ 15,607 - 0.02010 * LSRF / AKW

Daniel 1 ANOHR = 10^6 / AKW * [382.13 + 83.86 * JAN - 72.84 * OCT]

+ 9,183

Daniel 2 ANOHR = 10^6 / AKW * [1305.50 - 156.38 * JAN - 119.09 * FEB - 75.83 * MAR + 57.36 * APR]

+ 3,696 + 0.00694 * LSRF / AKW

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
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
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

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
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
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
10494	168	60.7	3867	0	0	0	0	0	0	1	0	0	0	0	0	2003
10482	168	66.2	4554	0	0	0	0	0	0	1	0	0	0	0	0	2003
10398	168	66.7	4633	0	0	0	0	0	0	1	0	0	0	0	0	2003
10553	168	64.0	4271	0	0	0	0	0	0	1	0	0	0	0	0	2003
10357	168	64.9	4392	0	0	0	0	0	0	0	1	0	0	0	0	2003
10197	168	66.1	4549	0	0	0	0	0	0	0	1	0	0	0	0	2003

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
10258	168	68.3	4804	0	0	0	0	0	0	0	1	0	0	0	0	2003
10234	168	68.1	4801	0	0	0	0	0	0	0	1	0	0	0	0	2003
10429	168	67.2	4701	0	0	0	0	0	0	0	1	0	0	0	0	2003
10996	139	60.0	3860	0	0	0	0	0	0	0	0	1	0	0	1	2003
10595	168	63.9	4295	0	0	0	0	0	0	0	0	1	0	0	0	2003
10581	168	62.5	4109	0	0	0	0	0	0	0	0	1	0	0	0	2003
10503	135	65.9	4509	0	0	0	0	0	0	0	0	1	0	0	0	2003
10572	159	63.4	4243	0	0	0	0	0	0	0	0	0	1	0	1	2003
10434	168	68.7	4867	0	0	0	0	0	0	0	0	0	1	0	0	2003
10545	168	69.4	4969	0	0	0	0	0	0	0	0	0	1	0	0	2003
10402	94	69.5	4976	0	0	0	0	0	0	0	0	0	1	0	0	2003
11270	54	66.8	4740	0	0	0	0	0	0	0	0	0	0	1	1	2003
10622	168	73.1	5383	0	0	0	0	0	0	0	0	0	0	1	0	2003
10695	168	70.1	5038	0	0	0	0	0	0	0	0	0	0	1	0	2003
10621	115	70.8	5182	0	0	0	0	0	0	0	0	0	0	0	1	2003
10471	168	69.6	4975	0	0	0	0	0	0	0	0	0	0	0	0	2003
10427	168	68.2	4774	0	0	0	0	0	0	0	0	0	0	0	0	2003
10649	168	54.9	3142	0	0	0	0	0	0	0	0	0	0	0	0	2003
10637	24	61.3	3929	0	0	0	0	0	0	0	0	0	0	0	0	2003
10531	168	58.1	3557	1	0	0	0	0	0	0	0	0	0	0	0	2004
10364	168	72.8	5372	1	0	0	0	0	0	0	0	0	0	0	0	2004
10454	168	67.7	4691	1	0	0	0	0	0	0	0	0	0	0	0	2004
10438	168	68.4	4787	1	0	0	0	0	0	0	0	0	0	0	0	2004
10468	168	68.9	4848	0	1	0	0	0	0	0	0	0	0	0	0	2004
10540	168	68.2	4743	0	1	0	0	0	0	0	0	0	0	0	0	2004
10366	168	73.3	5422	0	1	0	0	0	0	0	0	0	0	0	0	2004
10228	168	73.2	5397	0	1	0	0	0	0	0	0	0	0	0	0	2004
10282	168	72.7	5342	0	1	0	0	0	0	0	0	0	0	0	0	2004
10406	168	71.8	5237	0	0	1	0	0	0	0	0	0	0	0	0	2004
10227	168	76.6	5887	0	0	1	0	0	0	0	0	0	0	0	0	2004
10325	168	76.3	5848	0	0	1	0	0	0	0	0	0	0	0	0	2004
10402	168	72.5	5340	0	0	1	0	0	0	0	0	0	0	0	0	2004
10372	167	75.7	5759	0	0	0	1	0	0	0	0	0	0	0	0	2004
10474	168	70.0	5027	0	0	0	1	0	0	0	0	0	0	0	0	2004
10431	168	71.3	5188	0	0	0	1	0	0	0	0	0	0	0	0	2004
10505	168	71.8	5259	0	0	0	1	0	0	0	0	0	0	0	0	2004
10564	168	61.5	3947	0	0	0	0	1	0	0	0	0	0	0	0	2004
10529	168	65.7	4461	0	0	0	0	1	0	0	0	0	0	0	0	2004
10520	168	68.0	4776	0	0	0	0	1	0	0	0	0	0	0	0	2004
10513	168	66.3	4556	0	0	0	0	1	0	0	0	0	0	0	0	2004
10590	168	64.5	4350	0	0	0	0	1	0	0	0	0	0	0	0	2004
10499	168	65.3	4428	0	0	0	0	0	1	0	0	0	0	0	0	2004
10568	168	68.0	4760	0	0	0	0	0	1	0	0	0	0	0	0	2004
10748	168	65.5	4449	0	0	0	0	0	1	0	0	0	0	0	0	2004
10785	142	63.0	4179	0	0	0	0	0	1	0	0	0	0	0	1	2004

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
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
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

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
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
10498	168	60.0	3760	0	0	0	0	0	0	1	0	0	0	0	0	2003
10487	168	65.6	4482	0	0	0	0	0	0	1	0	0	0	0	0	2003
10401	168	66.0	4540	0	0	0	0	0	0	1	0	0	0	0	0	2003
10444	168	64.8	4377	0	0	0	0	0	0	1	0	0	0	0	0	2003
10137	168	65.0	4404	0	0	0	0	0	0	0	1	0	0	0	0	2003

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
9962	168	65.4	4473	0	0	0	0	0	0	0	1	0	0	0	0	2003
10035	168	65.9	4494	0	0	0	0	0	0	0	1	0	0	0	0	2003
10064	168	65.9	4536	0	0	0	0	0	0	0	1	0	0	0	0	2003
10362	168	65.2	4444	0	0	0	0	0	0	0	1	0	0	0	0	2003
10814	168	62.0	4037	0	0	0	0	0	0	0	0	1	0	0	0	2003
10379	168	62.1	4058	0	0	0	0	0	0	0	0	1	0	0	0	2003
10239	168	61.3	3969	0	0	0	0	0	0	0	0	1	0	0	0	2003
10466	135	63.0	4223	0	0	0	0	0	0	0	0	1	0	0	1	2003
10321	168	63.1	4164	0	0	0	0	0	0	0	0	0	1	0	0	2003
10392	168	66.9	4653	0	0	0	0	0	0	0	0	0	1	0	0	2003
10436	168	69.0	4915	0	0	0	0	0	0	0	0	0	1	0	0	2003
10337	169	68.6	4882	0	0	0	0	0	0	0	0	0	1	0	0	2003
10318	93	55.5	3178	0	0	0	0	0	0	0	0	0	1	0	0	2003
10520	55	53.2	3090	0	0	0	0	0	0	0	0	0	0	1	2	2003
10802	123	63.6	4324	0	0	0	0	0	0	0	0	0	0	1	1	2003
10480	168	70.0	4975	0	0	0	0	0	0	0	0	0	0	0	0	2003
10346	165	67.4	4698	0	0	0	0	0	0	0	0	0	0	0	0	2003
11024	99	63.0	4181	0	0	0	0	0	0	0	0	0	0	0	2	2003
10714	168	52.9	2922	0	0	0	0	0	0	0	0	0	0	0	0	2003
10711	24	58.8	3615	0	0	0	0	0	0	0	0	0	0	0	0	2003
10567	168	57.3	3464	1	0	0	0	0	0	0	0	0	0	0	0	2004
10347	168	71.7	5225	1	0	0	0	0	0	0	0	0	0	0	0	2004
10391	168	66.6	4565	1	0	0	0	0	0	0	0	0	0	0	0	2004
10428	168	68.5	4819	1	0	0	0	0	0	0	0	0	0	0	0	2004
10531	168	64.9	4364	0	1	0	0	0	0	0	0	0	0	0	0	2004
10492	168	66.6	4569	0	1	0	0	0	0	0	0	0	0	0	0	2004
10490	164	70.1	5003	0	1	0	0	0	0	0	0	0	0	0	0	2004
10634	147	69.5	4903	0	1	0	0	0	0	0	0	0	0	0	1	2004
10495	168	70.6	5029	0	1	0	0	0	0	0	0	0	0	0	0	2004
10440	168	71.6	5225	0	0	1	0	0	0	0	0	0	0	0	0	2004
10316	168	77.1	5953	0	0	1	0	0	0	0	0	0	0	0	0	2004
10333	168	77.2	5968	0	0	1	0	0	0	0	0	0	0	0	0	2004
10359	168	72.1	5291	0	0	1	0	0	0	0	0	0	0	0	0	2004
10463	167	75.3	5692	0	0	0	1	0	0	0	0	0	0	0	0	2004
10445	168	69.9	5031	0	0	0	1	0	0	0	0	0	0	0	0	2004
10492	168	71.3	5192	0	0	0	1	0	0	0	0	0	0	0	0	2004
10574	168	72.3	5332	0	0	0	1	0	0	0	0	0	0	0	0	2004
10616	168	60.7	3869	0	0	0	0	1	0	0	0	0	0	0	0	2004
10596	168	66.8	4631	0	0	0	0	1	0	0	0	0	0	0	0	2004
10615	168	67.8	4754	0	0	0	0	1	0	0	0	0	0	0	0	2004
10630	168	66.3	4568	0	0	0	0	1	0	0	0	0	0	0	0	2004
10784	168	64.6	4358	0	0	0	0	1	0	0	0	0	0	0	0	2004
10506	168	65.0	4400	0	0	0	0	0	1	0	0	0	0	0	0	2004
10538	168	68.7	4855	0	0	0	0	0	1	0	0	0	0	0	0	2004
10642	168	67.1	4675	0	0	0	0	0	1	0	0	0	0	0	0	2004
10749	168	66.3	4573	0	0	0	0	0	1	0	0	0	0	0	0	2004

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
11034	168	179.7	36387	0	0	0	0	0	0	1	0	0	0	0	0	2001
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

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
11059	168	193.0	42028	0	0	0	0	0	0	1	0	0	0	0	0	2002
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

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
10178	168	243.0	64410	0	0	0	0	0	1	0	0	0	0	0	0	2003
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
10703	168	228.4	57836	0	0	0	0	0	0	1	0	0	0	0	0	2003
10665	89	234.6	59513	0	0	0	0	0	0	1	0	0	0	0	1	2003
10345	168	264.3	7560	0	0	0	0	0	0	1	0	0	0	0	0	2003
10507	161	246.7	65509	0	0	0	0	0	0	1	0	0	0	0	0	2003
10476	168	254.2	3333	0	0	0	0	0	0	0	1	0	0	0	0	2003
10293	168	255.0	3336	0	0	0	0	0	0	0	1	0	0	0	0	2003
10291	168	264.2	7434	0	0	0	0	0	0	0	1	0	0	0	0	2003
10305	168	262.6	6902	0	0	0	0	0	0	0	1	0	0	0	0	2003
10184	168	276.1	12335	0	0	0	0	0	0	0	1	0	0	0	0	2003
10301	168	257.7	4516	0	0	0	0	0	0	0	0	1	0	0	0	2003
10359	168	254.8	2714	0	0	0	0	0	0	0	0	1	0	0	0	2003
10373	168	246.1	64750	0	0	0	0	0	0	0	0	1	0	0	0	2003
10288	168	251.2	1812	0	0	0	0	0	0	0	0	1	0	0	0	2003
*11512	168	251.2	1856	0	0	0	0	0	0	0	0	0	1	0	0	2003
*11675	168	260.0	5340	0	0	0	0	0	0	0	0	0	1	0	0	2003
11590	168	230.4	59733	0	0	0	0	0	0	0	0	0	1	0	0	2003
* 8778	169	252.9	2755	0	0	0	0	0	0	0	0	0	1	0	0	2003
• 9357	168	239.2	63040	0	0	0	0	0	0	0	0	0	1	0	0	2003
10417	168	277.2	13593	0	0	0	0	0	0	0	0	0	0	1	0	2003
10608	168	276.1	13453	0	0	0	0	0	0	0	0	0	0	1	0	2003
10423	168	258.8	4323	0	0	0	0	0	0	0	0	0	0	1	0	2003
10363	168	263.8	7551	0	0	0	0	0	0	0	0	0	0	1	0	2003
10385	168	276.6	13273	0	0	0	0	0	0	0	0	0	0	0	0	2003
10220	168	272.2	11323	0	0	0	0	0	0	0	0	0	0	0	0	2003
10145	168	266.9	8326	0	0	0	0	0	0	0	0	0	0	0	0	2003
9887	168	208.3	47580	0	0	0	0	0	0	0	0	0	0	0	0	2003
10276	24	245.9	65409	0	0	0	0	0	0	0	0	0	0	0	0	2003
*175492	7	48.0	3497	1	0	0	0	0	0	0	0	0	0	0	1	2004
* 9669	91	271.9	11916	0	1	0	0	0	0	0	0	0	0	0	0	2004
9610	168	264.7	7535	0	1	0	0	0	0	0	0	0	0	0	0	2004
9644	168	288.9	18821	0	1	0	0	0	0	0	0	0	0	0	0	2004
* 9504	145	280.0	15581	0	1	0	0	0	0	0	0	0	0	0	0	2004
9547	168	278.6	14018	0	1	0	0	0	0	0	0	0	0	0	0	2004
9934	152	280.0	14942	0	0	1	0	0	0	0	0	0	0	0	0	2004
9798	167	262.7	6575	0	0	1	0	0	0	0	0	0	0	0	0	2004
9790	167	278.7	13646	0	0	1	0	0	0	0	0	0	0	0	0	2004
9852	168	283.4	16255	0	0	1	0	0	0	0	0	0	0	0	0	2004
* 9057	4	171.3	29362	0	0	0	1	0	0	0	0	0	0	0	0	2004
10406	115	257.0	5430	0	0	0	1	0	0	0	0	0	0	0	1	2004
*10389	168	221.3	53157	0	0	0	0	1	0	0	0	0	0	0	0	2004
10694	168	239.1	62131	0	0	0	0	1	0	0	0	0	0	0	0	2004
10710	138	251.0	2485	0	0	0	0	1	0	0	0	0	0	0	1	2004
10623	168	240.7	63153	0	0	0	0	1	0	0	0	0	0	0	0	2004
10581	140	245.1	271	0	0	0	0	1	0	0	0	0	0	0	1	2004

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
10054	163	241.2	63766	0	0	0	0	0	1	0	0	0	0	0	0	2004
10532	132	259.3	5984	0	0	0	0	0	1	0	0	0	0	0	1	2004
10203	168	251.5	2491	0	0	0	0	0	1	0	0	0	0	0	0	2004
10157	168	247.6	1262	0	0	0	0	0	1	0	0	0	0	0	0	2004

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
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
10674	168	384.0	28887	0	0	0	0	0	0	1	0	0	0	0	0	2003
10212	168	429.4	60300	0	0	0	0	0	0	1	0	0	0	0	0	2003
10204	168	435.2	64104	0	0	0	0	0	0	1	0	0	0	0	0	2003
10120	168	444.6	5142	0	0	0	0	0	0	1	0	0	0	0	0	2003
10126	168	430.0	59749	0	0	0	0	0	0	0	1	0	0	0	0	2003
10130	168	432.6	62919	0	0	0	0	0	0	0	1	0	0	0	0	2003

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
10143	168	443.6	4851	0	0	0	0	0	0	0	1	0	0	0	0	2003
10219	168	446.9	7051	0	0	0	0	0	0	0	1	0	0	0	0	2003
10189	168	454.0	11316	0	0	0	0	0	0	0	1	0	0	0	0	2003
10451	168	428.1	58284	0	0	0	0	0	0	0	0	1	0	0	0	2003
10424	168	432.5	62176	0	0	0	0	0	0	0	0	1	0	0	0	2003
10392	168	419.9	53764	0	0	0	0	0	0	0	0	1	0	0	0	2003
10564	113	402.7	43099	0	0	0	0	0	0	0	0	1	0	0	1	2003
10176	168	427.2	58354	0	0	0	0	0	0	0	0	0	1	0	0	2003
10402	167	437.1	810	0	0	0	0	0	0	0	0	0	1	0	0	2003
10320	143	303.0	42635	0	0	0	0	0	0	0	0	0	1	0	1	2003
10372	169	378.3	27275	0	0	0	0	0	0	0	0	0	1	0	0	2003
10339	168	401.3	41290	0	0	0	0	0	0	0	0	0	1	0	0	2003
10136	168	457.5	15522	0	0	0	0	0	0	0	0	0	0	1	0	2003
10328	168	454.5	13568	0	0	0	0	0	0	0	0	0	0	1	0	2003
10285	168	457.3	15421	0	0	0	0	0	0	0	0	0	0	1	0	2003
10314	168	442.7	5822	0	0	0	0	0	0	0	0	0	0	1	0	2003
10270	168	448.1	8110	0	0	0	0	0	0	0	0	0	0	0	0	2003
10183	168	440.3	2412	0	0	0	0	0	0	0	0	0	0	0	0	2003
10184	168	447.6	8590	0	0	0	0	0	0	0	0	0	0	0	0	2003
10349	168	393.1	34928	0	0	0	0	0	0	0	0	0	0	0	0	2003
10476	24	411.4	50446	0	0	0	0	0	0	0	0	0	0	0	0	2003
10362	168	351.6	5197	1	0	0	0	0	0	0	0	0	0	0	0	2004
10105	168	465.8	21599	1	0	0	0	0	0	0	0	0	0	0	0	2004
10211	168	431.5	61561	1	0	0	0	0	0	0	0	0	0	0	0	2004
10218	168	435.1	64899	1	0	0	0	0	0	0	0	0	0	0	0	2004
10133	94	437.9	2135	0	1	0	0	0	0	0	0	0	0	0	0	2004
11789	25	288.6	34975	0	0	0	1	0	0	0	0	0	0	0	1	2004
10895	37	336.6	4192	0	0	0	1	0	0	0	0	0	0	0	1	2004
10496	166	343.9	1556	0	0	0	0	1	0	0	0	0	0	0	0	2004
10588	168	393.2	36388	0	0	0	0	1	0	0	0	0	0	0	0	2004
10511	121	394.6	37010	0	0	0	0	1	0	0	0	0	0	0	1	2004
10335	168	408.0	46083	0	0	0	0	1	0	0	0	0	0	0	0	2004
10432	168	370.9	20023	0	0	0	0	1	0	0	0	0	0	0	0	2004
10313	168	383.7	29981	0	0	0	0	0	1	0	0	0	0	0	0	2004
10407	130	375.1	23331	0	0	0	0	0	1	0	0	0	0	0	1	2004
10327	168	395.8	37430	0	0	0	0	0	1	0	0	0	0	0	0	2004
10434	124	362.7	16316	0	0	0	0	0	1	0	0	0	0	0	1	2004

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
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
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

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
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
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

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
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
10464	168	123.6	17078	0	0	0	0	0	0	1	0	0	0	0	0	2003
10438	168	133.9	19483	0	0	0	0	0	0	1	0	0	0	0	0	2003
10332	168	138.4	20548	0	0	0	0	0	0	1	0	0	0	0	0	2003
10487	168	140.3	20842	0	0	0	0	0	0	1	0	0	0	0	0	2003
10406	168	133.1	19278	0	0	0	0	0	0	0	1	0	0	0	0	2003
10449	44	134.8	19678	0	0	0	0	0	0	0	1	0	0	0	0	2003
10682	112	125.8	17663	0	0	0	0	0	0	0	1	0	0	0	1	2003
10422	168	133.0	19083	0	0	0	0	0	0	0	1	0	0	0	0	2003
10404	168	131.5	18786	0	0	0	0	0	0	0	0	1	0	0	0	2003
10358	168	133.3	19256	0	0	0	0	0	0	0	0	1	0	0	0	2003
10386	168	125.8	17462	0	0	0	0	0	0	0	0	1	0	0	0	2003
10393	168	133.8	19337	0	0	0	0	0	0	0	0	1	0	0	0	2003
10296	168	135.0	19621	0	0	0	0	0	0	0	0	0	1	0	0	2003
10350	168	135.8	19681	0	0	0	0	0	0	0	0	0	1	0	0	2003
10366	168	135.6	19731	0	0	0	0	0	0	0	0	0	1	0	0	2003
10303	169	138.2	20438	0	0	0	0	0	0	0	0	0	1	0	0	2003
10436	168	126.1	17681	0	0	0	0	0	0	0	0	0	1	0	0	2003
9972	168	146.3	22331	0	0	0	0	0	0	0	0	0	0	1	0	2003
10126	168	142.0	21320	0	0	0	0	0	0	0	0	0	0	1	0	2003
10176	168	138.4	20354	0	0	0	0	0	0	0	0	0	0	1	0	2003
10127	101	128.2	18390	0	0	0	0	0	0	0	0	0	0	1	0	2003
*12509	47	98.4	12272	0	0	0	0	0	0	0	0	0	0	0	2	2003
*63726	1	19.0	361	0	0	0	0	0	0	0	0	0	0	0	1	2003
10428	168	109.9	13662	1	0	0	0	0	0	0	0	0	0	0	0	2004
10177	168	149.5	22911	1	0	0	0	0	0	0	0	0	0	0	0	2004
10208	168	132.3	18602	1	0	0	0	0	0	0	0	0	0	0	0	2004
10173	168	136.2	19626	1	0	0	0	0	0	0	0	0	0	0	0	2004
10298	168	143.3	21374	0	1	0	0	0	0	0	0	0	0	0	0	2004
10227	168	136.6	19592	0	1	0	0	0	0	0	0	0	0	0	0	2004
10380	168	155.9	24558	0	1	0	0	0	0	0	0	0	0	0	0	2004
10410	168	150.5	23143	0	1	0	0	0	0	0	0	0	0	0	0	2004
10450	168	149.5	22876	0	1	0	0	0	0	0	0	0	0	0	0	2004
10197	168	147.9	22658	0	0	1	0	0	0	0	0	0	0	0	0	2004
10138	168	158.5	25347	0	0	1	0	0	0	0	0	0	0	0	0	2004
10146	168	159.1	25500	0	0	1	0	0	0	0	0	0	0	0	0	2004
10251	168	151.6	23573	0	0	1	0	0	0	0	0	0	0	0	0	2004
10137	167	155.4	24620	0	0	0	1	0	0	0	0	0	0	0	0	2004
10407	74	147.4	22584	0	0	0	1	0	0	0	0	0	0	0	1	2004
10161	168	143.6	21565	0	0	0	1	0	0	0	0	0	0	0	0	2004
10184	168	146.1	22236	0	0	0	1	0	0	0	0	0	0	0	0	2004
10356	168	121.1	16102	0	0	0	0	1	0	0	0	0	0	0	0	2004
10342	168	127.6	17900	0	0	0	0	1	0	0	0	0	0	0	0	2004

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
10171	168	135.8	19903	0	0	0	0	1	0	0	0	0	0	0	0	2004
10158	168	130.7	18761	0	0	0	0	1	0	0	0	0	0	0	0	2004
10219	168	133.6	19390	0	0	0	0	1	0	0	0	0	0	0	0	2004
10206	168	128.1	18154	0	0	0	0	0	1	0	0	0	0	0	0	2004
10254	168	139.1	20515	0	0	0	0	0	1	0	0	0	0	0	0	2004
10267	168	132.0	18849	0	0	0	0	0	1	0	0	0	0	0	0	2004
10313	168	130.4	18762	0	0	0	0	0	1	0	0	0	0	0	0	2004

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
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
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

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
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
10193	168	138.0	21844	0	0	0	0	0	0	1	0	0	0	0	0	2003
10233	168	149.5	24592	0	0	0	0	0	0	1	0	0	0	0	0	2003
10175	168	154.8	25836	0	0	0	0	0	0	1	0	0	0	0	0	2003
10308	168	156.7	26343	0	0	0	0	0	0	1	0	0	0	0	0	2003
10267	168	148.5	24173	0	0	0	0	0	0	0	1	0	0	0	0	2003
10147	168	143.0	22352	0	0	0	0	0	0	0	1	0	0	0	0	2003
10081	168	164.2	28299	0	0	0	0	0	0	0	1	0	0	0	0	2003
10174	168	154.1	25560	0	0	0	0	0	0	0	1	0	0	0	0	2003
10263	168	151.9	24799	0	0	0	0	0	0	0	1	0	0	0	0	2003
10135	168	153.9	25529	0	0	0	0	0	0	0	0	1	0	0	0	2003

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
10155	168	152.7	25208	0	0	0	0	0	0	0	0	1	0	0	0	2003
10113	168	146.7	23773	0	0	0	0	0	0	0	0	1	0	0	0	2003
10186	168	155.6	26152	0	0	0	0	0	0	0	0	1	0	0	0	2003
10282	168	154.5	25940	0	0	0	0	0	0	0	0	0	1	0	0	2003
10288	168	162.0	27483	0	0	0	0	0	0	0	0	0	1	0	0	2003
10263	71	164.5	28415	0	0	0	0	0	0	0	0	0	1	0	0	2003
10194	148	151.9	25281	0	0	0	0	0	0	0	0	0	1	0	1	2003
10201	168	142.5	22864	0	0	0	0	0	0	0	0	0	1	0	0	2003
10046	168	165.3	28559	0	0	0	0	0	0	0	0	0	0	1	0	2003
10051	168	164.0	28237	0	0	0	0	0	0	0	0	0	0	1	0	2003
10115	168	159.9	26916	0	0	0	0	0	0	0	0	0	0	1	0	2003
10185	168	162.6	27751	0	0	0	0	0	0	0	0	0	0	1	0	2003
10124	168	168.7	29540	0	0	0	0	0	0	0	0	0	0	0	0	2003
10135	168	167.6	29239	0	0	0	0	0	0	0	0	0	0	0	0	2003
10184	168	165.0	28147	0	0	0	0	0	0	0	0	0	0	0	0	2003
10187	168	158.9	26571	0	0	0	0	0	0	0	0	0	0	0	0	2003
10161	24	180.3	32702	0	0	0	0	0	0	0	0	0	0	0	0	2003
10242	168	131.7	19173	1	0	0	0	0	0	0	0	0	0	0	0	2004
10081	168	176.0	31323	1	0	0	0	0	0	0	0	0	0	0	0	2004
10074	168	153.6	24865	1	0	0	0	0	0	0	0	0	0	0	0	2004
10101	168	154.4	25325	1	0	0	0	0	0	0	0	0	0	0	0	2004
10169	168	156.2	25804	0	1	0	0	0	0	0	0	0	0	0	0	2004
10094	168	156.7	25888	0	1	0	0	0	0	0	0	0	0	0	0	2004
10281	130	173.2	30759	0	1	0	0	0	0	0	0	0	0	0	1	2004
10209	168	172.5	30336	0	1	0	0	0	0	0	0	0	0	0	0	2004
10294	168	173.6	30639	0	1	0	0	0	0	0	0	0	0	0	0	2004
10177	144	162.2	27795	0	0	1	0	0	0	0	0	0	0	0	1	2004
9939	168	179.4	32528	0	0	1	0	0	0	0	0	0	0	0	0	2004
9719	168	181.0	32939	0	0	1	0	0	0	0	0	0	0	0	0	2004
9595	168	171.2	30251	0	0	1	0	0	0	0	0	0	0	0	0	2004
11455	47	178.4	32423	0	0	0	1	0	0	0	0	0	0	0	0	2004
10497	115	161.0	27685	0	0	0	1	0	0	0	0	0	0	0	1	2004
10379	168	164.9	28583	0	0	0	1	0	0	0	0	0	0	0	0	2004
10524	168	134.1	20086	0	0	0	0	1	0	0	0	0	0	0	0	2004
10355	168	143.1	22824	0	0	0	0	1	0	0	0	0	0	0	0	2004
10297	168	151.8	25088	0	0	0	0	1	0	0	0	0	0	0	0	2004
10333	168	146.5	23896	0	0	0	0	1	0	0	0	0	0	0	0	2004
10520	137	136.2	21172	0	0	0	0	1	0	0	0	0	0	0	1	2004
10343	168	148.6	24372	0	0	0	0	0	1	0	0	0	0	0	0	2004
10370	168	156.5	26208	0	0	0	0	0	1	0	0	0	0	0	0	2004
10456	168	146.9	23730	0	0	0	0	0	1	0	0	0	0	0	0	2004
10397	168	143.9	23298	0	0	0	0	0	1	0	0	0	0	0	0	2004

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
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
10310	168	351.8	13111	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
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
9768	168	408.7	56475	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
9969	101	454.8	22500	0	0	0	0	0	1	0	0	0	0	0	1	2003
10548	168	388.0	43399	0	0	0	0	0	0	1	0	0	0	0	0	2003
9997	168	473.2	32967	0	0	0	0	0	0	1	0	0	0	0	0	2003
9931	168	473.8	35796	0	0	0	0	0	0	1	0	0	0	0	0	2003
10157	168	490.7	47861	0	0	0	0	0	0	1	0	0	0	0	0	2003
9763	168	448.7	18702	0	0	0	0	0	0	0	1	0	0	0	0	2003
9658	168	438.8	9314	0	0	0	0	0	0	0	1	0	0	0	0	2003
9584	168	462.5	27452	0	0	0	0	0	0	0	1	0	0	0	0	2003
9632	168	463.4	27179	0	0	0	0	0	0	0	1	0	0	0	0	2003
9773	168	474.2	33098	0	0	0	0	0	0	0	1	0	0	0	0	2003
9707	168	452.1	19005	0	0	0	0	0	0	0	0	1	0	0	0	2003
9658	168	443.5	13033	0	0	0	0	0	0	0	0	1	0	0	0	2003
9761	167	412.1	58780	0	0	0	0	0	0	0	0	1	0	0	0	2003
9918	168	431.4	4095	0	0	0	0	0	0	0	0	1	0	0	0	2003
9611	168	418.0	55966	0	0	0	0	0	0	0	0	0	1	0	0	2003
9482	168	425.8	3365	0	0	0	0	0	0	0	0	0	1	0	0	2003
11158	168	209.2	56037	0	0	0	0	0	0	0	0	0	1	0	0	2003
9755	169	489.2	46207	0	0	0	0	0	0	0	0	0	1	0	0	2003
10040	117	429.2	5008	0	0	0	0	0	0	0	0	0	1	0	1	2003
10021	168	494.1	51167	0	0	0	0	0	0	0	0	0	0	1	0	2003
9915	168	501.3	56097	0	0	0	0	0	0	0	0	0	0	1	0	2003
10159	60	457.5	29819	0	0	0	0	0	0	0	0	0	0	1	0	2003
*11362	46	456.8	25862	0	0	0	0	0	0	0	0	0	0	0	1	2003
9729	168	505.6	60046	0	0	0	0	0	0	0	0	0	0	0	0	2003
10144	168	509.9	63559	0	0	0	0	0	0	0	0	0	0	0	0	2003
9796	168	453.9	21142	0	0	0	0	0	0	0	0	0	0	0	0	2003
9956	24	434.0	10156	0	0	0	0	0	0	0	0	0	0	0	0	2003
10339	168	430.0	6332	1	0	0	0	0	0	0	0	0	0	0	0	2004
10323	168	512.1	79	1	0	0	0	0	0	0	0	0	0	0	0	2004
10285	168	503.2	57982	1	0	0	0	0	0	0	0	0	0	0	0	2004
10215	168	502.4	58072	1	0	0	0	0	0	0	0	0	0	0	0	2004
10196	168	487.5	46948	0	1	0	0	0	0	0	0	0	0	0	0	2004
10179	168	469.0	32251	0	1	0	0	0	0	0	0	0	0	0	0	2004
10209	168	497.7	52844	0	1	0	0	0	0	0	0	0	0	0	0	2004
10004	168	504.1	57864	0	1	0	0	0	0	0	0	0	0	0	0	2004
10083	162	487.2	44710	0	1	0	0	0	0	0	0	0	0	0	0	2004
10185	45	441.4	10792	0	0	1	0	0	0	0	0	0	0	0	0	2004
10095	141	476.0	38323	0	0	1	0	0	0	0	0	0	0	0	1	2004
10086	168	485.8	42692	0	0	1	0	0	0	0	0	0	0	0	0	2004
10254	167	473.8	32895	0	0	0	1	0	0	0	0	0	0	0	0	2004
10166	168	473.8	35524	0	0	0	1	0	0	0	0	0	0	0	0	2004
10412	144	455.5	24068	0	0	0	1	0	0	0	0	0	0	0	0	2004
10519	119	468.7	30504	0	0	0	1	0	0	0	0	0	0	0	0	2004
10709	142	408.9	55451	0	0	0	0	1	0	0	0	0	0	0	1	2004
10434	168	429.9	4199	0	0	0	0	1	0	0	0	0	0	0	0	2004
10300	168	437.4	9870	0	0	0	0	1	0	0	0	0	0	0	0	2004
10661	168	421.8	64869	0	0	0	0	1	0	0	0	0	0	0	0	2004

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
10382	119	384.5	40950	0	0	0	0	1	0	0	0	0	0	0	1	2004
10396	144	447.6	16441	0	0	0	0	0	1	0	0	0	0	0	0	2004
10402	167	481.7	40448	0	0	0	0	0	1	0	0	0	0	0	1	2004
10503	168	470.8	31681	0	0	0	0	0	1	0	0	0	0	0	0	2004
10288	116	468.6	33638	0	0	0	0	0	1	0	0	0	0	0	1	2004

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
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
10265	168	373.5	30987	0	0	0	0	0	0	0	1	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
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
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	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10388	168	410.2	57816	0	0	0	0	0	0	1	0	0	0	0	0	2003
9811	168	470.3	30759	0	0	0	0	0	0	1	0	0	0	0	0	2003
10026	168	442.2	15238	0	0	0	0	0	0	1	0	0	0	0	0	2003
10077	168	464.6	29989	0	0	0	0	0	0	1	0	0	0	0	0	2003
9633	168	449.3	18993	0	0	0	0	0	0	0	1	0	0	0	0	2003
9637	168	438.0	8489	0	0	0	0	0	0	0	1	0	0	0	0	2003
9690	168	451.6	19773	0	0	0	0	0	0	0	1	0	0	0	0	2003
9648	168	433.0	6059	0	0	0	0	0	0	0	1	0	0	0	0	2003
9505	168	471.4	30750	0	0	0	0	0	0	0	1	0	0	0	0	2003
9574	168	448.8	16562	0	0	0	0	0	0	0	0	1	0	0	0	2003
9570	161	433.5	6487	0	0	0	0	0	0	0	0	1	0	0	0	2003
9541	161	419.0	62176	0	0	0	0	0	0	0	0	1	0	0	0	2003
9800	125	389.9	43337	0	0	0	0	0	0	0	0	1	0	0	1	2003
9770	168	432.5	5361	0	0	0	0	0	0	0	0	0	1	0	0	2003
9804	168	486.7	42033	0	0	0	0	0	0	0	0	0	1	0	0	2003
10197	168	473.7	33572	0	0	0	0	0	0	0	0	0	1	0	0	2003
9746	169	489.9	45541	0	0	0	0	0	0	0	0	0	1	0	0	2003
9736	168	468.7	31017	0	0	0	0	0	0	0	0	0	1	0	0	2003
9745	97	482.7	41436	0	0	0	0	0	0	0	0	0	0	1	0	2003
12438	75	196.4	52119	0	0	0	0	0	0	0	0	0	0	0	1	2003
10054	168	453.3	19480	0	0	0	0	0	0	0	0	0	0	0	0	2003
10264	24	437.9	11898	0	0	0	0	0	0	0	0	0	0	0	0	2003
9583	168	425.1	2813	1	0	0	0	0	0	0	0	0	0	0	0	2004
*26101	4	104.0	15667	1	0	0	0	0	0	0	0	0	0	0	1	2004
9461	168	491.4	47786	1	0	0	0	0	0	0	0	0	0	0	0	2004
9432	139	483.8	45067	1	0	0	0	0	0	0	0	0	0	0	1	2004
9614	141	470.9	34310	0	1	0	0	0	0	0	0	0	0	0	1	2004
9551	168	488.0	45364	0	1	0	0	0	0	0	0	0	0	0	0	2004
9536	168	498.5	53668	0	1	0	0	0	0	0	0	0	0	0	0	2004
9513	168	505.0	58863	0	1	0	0	0	0	0	0	0	0	0	0	2004
9536	168	499.4	53309	0	1	0	0	0	0	0	0	0	0	0	0	2004
9604	168	482.9	41789	0	0	1	0	0	0	0	0	0	0	0	0	2004
10090	125	461.5	28009	0	0	1	0	0	0	0	0	0	0	0	1	2004
9960	168	486.9	42549	0	0	1	0	0	0	0	0	0	0	0	0	2004
9791	168	487.2	43639	0	0	1	0	0	0	0	0	0	0	0	0	2004
9629	167	502.2	56029	0	0	0	1	0	0	0	0	0	0	0	0	2004
9922	168	464.5	30817	0	0	0	1	0	0	0	0	0	0	0	0	2004
10002	168	482.1	38366	0	0	0	1	0	0	0	0	0	0	0	0	2004
9812	168	474.9	35008	0	0	0	1	0	0	0	0	0	0	0	0	2004
9847	168	433.3	4703	0	0	0	0	1	0	0	0	0	0	0	0	2004
9823	168	444.9	11873	0	0	0	0	1	0	0	0	0	0	0	0	2004
9903	168	438.7	9012	0	0	0	0	1	0	0	0	0	0	0	0	2004
9997	168	432.2	4178	0	0	0	0	1	0	0	0	0	0	0	0	2004
9726	168	443.2	10986	0	0	0	0	1	0	0	0	0	0	0	0	2004
9946	168	453.1	19429	0	0	0	0	0	1	0	0	0	0	0	0	2004
9856	168	494.6	48761	0	0	0	0	0	1	0	0	0	0	0	0	2004
10094	168	469.5	30646	0	0	0	0	0	1	0	0	0	0	0	0	2004

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
9990	168	441.0	11011	0	0	0	0	0	1	0	0	0	0	0	0	2004

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 2005 - December 2005

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 '05	64.3	4,318	10,855	47,556	
	Feb '05	69.4	4,952	10,477	46,354	
	Mar '05	68.6	4,852	10,643	50,738	
	Apr '05	66.1	4,540	10,685	47,234	
	May '05	63.3	4,196	10,638	46,874	
	Jun '05	64.6	4,355	10,596	46,287	
	Jul '05	67.4	4,701	10,521	49,894	
	Aug '05	67.9	4,764	10,509	50,222	
	Sep '05	65.9	4,515	10,559	47,152	
	Oct '05	66.5	4,589	10,543	49,283	
	Nov '05	65.6	4,478	10,567	46,960	
	Dec '05	60.3	3,835	10,751	41,749	10,610
CRIST 5	Jan '05	63.6	4,218	10,771	42,082	
	Feb '05	69.9	5,021	10,543	41,321	
	Mar '05	69.2	4,929	10,566	50,722	
	Apr '05	66.5	4,581	10,660	47,170	
	May '05	63.4	4,194	10,779	46,470	
	Jun '05	65.2	4,417	10,709	46,274	
	Jul '05	68.2	4,799	10,389	49,967	
	Aug '05	68.5	4,838	10,329	50,240	
	Sep '05	66.7	4,606	10,444	47,337	
	Oct '05	67.2	4,670	10,360	49,350	
	Nov '05	65.9	4,505	10,137	46,769	
	Dec '05	58.6	3,620	10,987	42,987	10,548
CRIST 6	Jan '05	247.9	66,140	10,790	179,724	
	Feb '05	267.1	74,413	10,211	174,932	
	Mar '05	264.0	73,075	10,224	123,533	
	Apr '05	252.1	67,946	10,280	141,431	
	May '05	234.7	60,476	10,376	170,127	
	Jun '05	241.0	63,177	10,339	169,166	
	Jul '05	256.9	70,013	10,509	186,289	
	Aug '05	259.1	70,961	10,521	187,833	
	Sep '05	245.0	64,894	10,317	51,704	
	Oct '05	0.0	0		0	
	Nov '05	231.5	59,106	10,396	54,179	
	Dec '05	228.3	57,737	10,416	149,507	10,416

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 2005 - December 2005

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 '05	417.2	182,789	10,181	266,595	
	Feb '05	0.0	0		0	
	Mar '05	0.0	0		0	
	Apr '05	392.9	165,738	10,356	116,679	
	May '05	385.1	160,299	10,373	272,660	
	Jun '05	393.0	165,808	10,356	269,201	
	Jul '05	416.9	182,578	10,410	295,163	
	Aug '05	419.8	184,623	10,304	297,222	
	Sep '05	398.5	169,654	10,473	272,949	
	Oct '05	401.8	171,965	10,224	239,043	
	Nov '05	402.1	172,175	10,337	192,617	
	Dec '05	383.5	159,185	10,377	271,526	10,340
SMITH 1	Jan '05	135.9	19,515	10,183	99,732	
	Feb '05	144.9	21,761	10,260	96,052	
	Mar '05	141.5	20,907	10,266	103,883	
	Apr '05	134.3	19,120	10,282	95,371	
	May '05	127.0	17,336	10,304	93,221	
	Jun '05	129.2	17,871	10,297	91,832	
	Jul '05	137.9	20,010	10,273	101,250	
	Aug '05	139.5	20,408	10,269	102,379	
	Sep '05	132.1	18,580	10,288	93,929	
	Oct '05	134.0	19,046	10,282	66,614	
	Nov '05	134.8	19,243	10,280	25,613	
	Dec '05	124.6	16,756	10,313	91,470	10,273
SMITH 2	Jan '05	161.9	27,685	9,909	80,776	
	Feb '05	166.7	29,057	10,052	68,025	
	Mar '05	0.0	0		0	
	Apr '05	0.0	0		0	
	May '05	145.5	22,947	10,362	98,965	
	Jun '05	149.5	24,110	10,394	101,629	
	Jul '05	160.5	27,283	10,204	112,797	
	Aug '05	162.1	27,742	10,200	113,984	
	Sep '05	154.0	25,412	10,220	104,700	
	Oct '05	155.9	25,960	10,215	102,565	
	Nov '05	154.8	25,643	10,218	105,253	
	Dec '05	145.7	23,005	10,245	92,514	10,213

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 2005 - December 2005

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 '05	512.6	260,792	10,092	370,630	
	Feb '05	510.3	259,021	9,932	273,499	
	Mar '05	512.8	260,946	9,928	370,784	
	Apr '05	508.4	257,561	9,935	354,891	
	May '05	482.5	237,871	9,975	348,825	
	Jun '05	506.0	255,719	9,938	353,726	
	Jul '05	512.7	260,869	9,928	370,711	
	Aug '05	512.4	260,638	9,929	370,464	
	Sep '05	510.0	258,790	9,932	273,355	
	Oct '05	0.0	0		0	
	Nov '05	491.6	244,743	9,960	57,514	
	Dec '05	511.8	260,175	9,930	370,024	9,953
DANIEL 2	Jan '05	512.8	261,162	9,471	371,261	
	Feb '05	512.0	260,539	9,545	310,784	
	Mar '05	511.1	259,839	9,630	47,535	
	Apr '05	508.8	258,052	9,894	320,044	
	May '05	488.7	242,618	9,813	353,827	
	Jun '05	509.1	258,284	9,781	356,383	
	Jul '05	512.9	261,240	9,776	371,345	
	Aug '05	512.6	261,006	9,777	371,155	
	Sep '05	511.9	260,461	9,777	358,333	
	Oct '05	510.3	259,216	9,780	345,999	
	Nov '05	510.2	259,139	9,780	357,140	
	Dec '05	512.6	261,006	9,777	371,135	9,742

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 2005 - December 2005

Unit	Target Heat Rate BTU/KWH (0 Points)	Minimum Attainable Heat Rate (+ 10 Points)	Maximum Attainable Heat Rate (- 10 Points)
CRIST 4	10,610	10,292	10,928
CRIST 5	10,548	10,232	10,864
CRIST 6	10,416	10,104	10,728
CRIST 7	10,340	10,030	10,650
SMITH 1	10,273	9,965	10,581
SMITH 2	10,213	9,907	10,519
DANIEL 1	9,953	9,654	10,252
DANIEL 2	9,742	9,450	10,034

II. DETERMINATION OF EQUIVALENT AVAILABILITY TARGETS

Calculation of
Target Equivalent Availabilities
for January 2005 - December 2005

Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR *	Planned Outage Hours for Jan '05 - Dec '05	Reserve Shutdown Hours for Jan '05 - Dec '05	Target Equivalent Availability **
Crist 4	0.0115	0	0	98.8
Crist 5	0.0311	0	0	96.9
Crist 6	0.0924	1,729	0	72.9
Crist 7	0.0960	1,895	0	70.9
Smith 1	0.0194	721	0	90.0
Smith 2	0.1011	1,727	0	72.2
Daniel 1	0.0454	1,513	0	79.0
Daniel 2	0.0394	720	0	88.2

* For Period July 1999 Through June 2004.

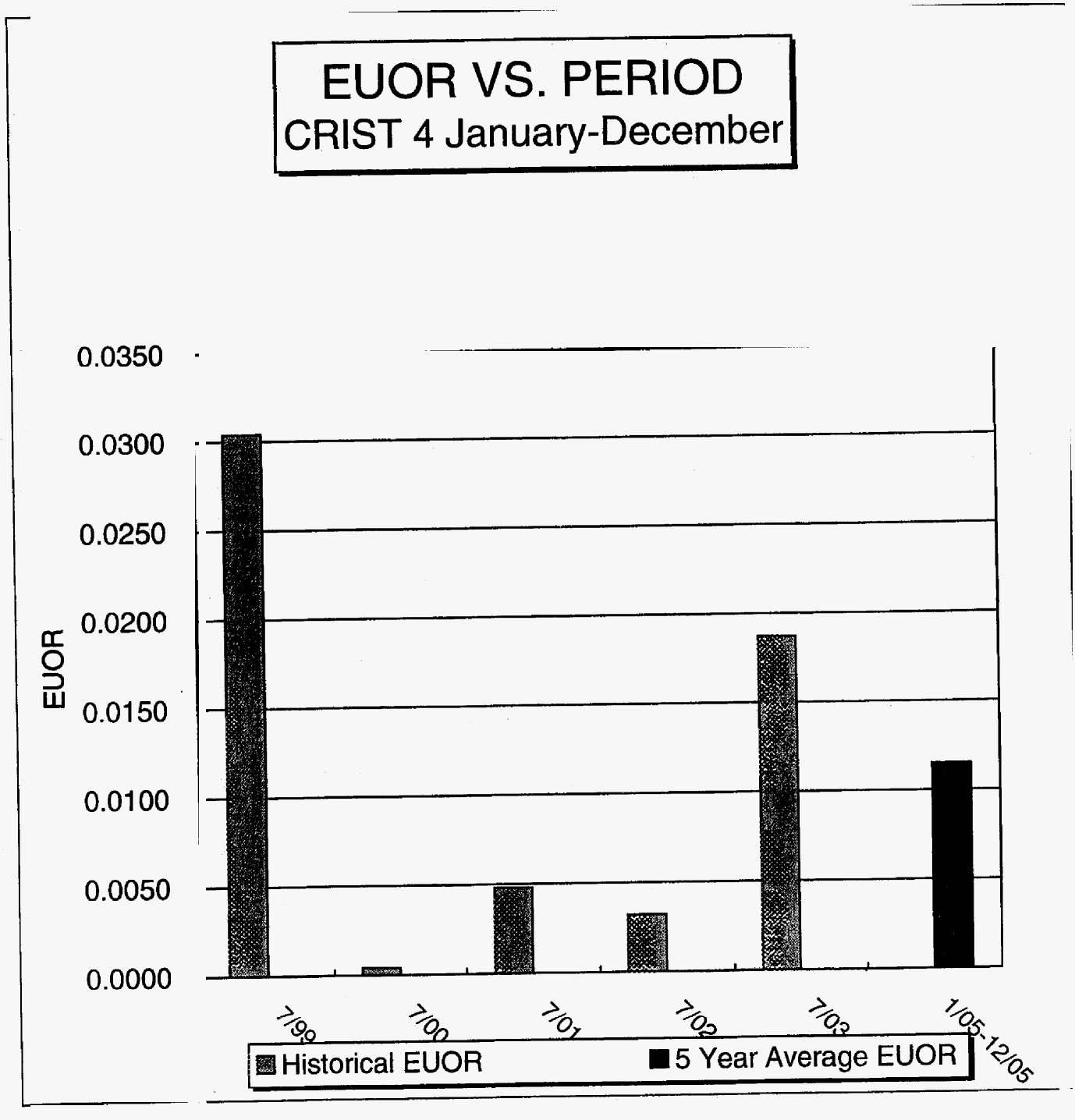
** EA = [1 - (POH + EUOR * (PH - POH - RSH)) / PH] * 100

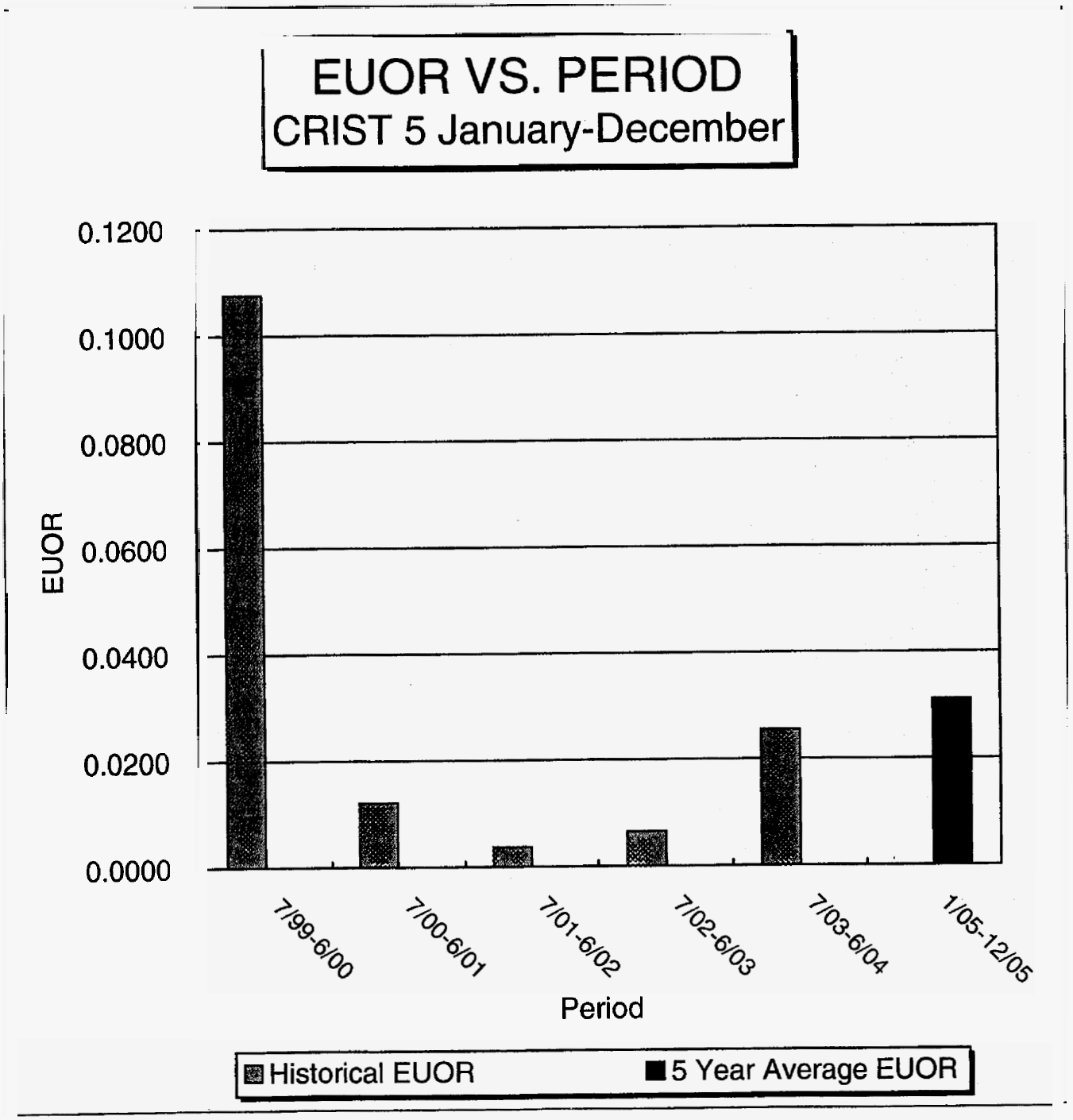
Calculation of Maximum and Minimum
Attainable Equivalent Availabilities
for January 2005 - December 2005

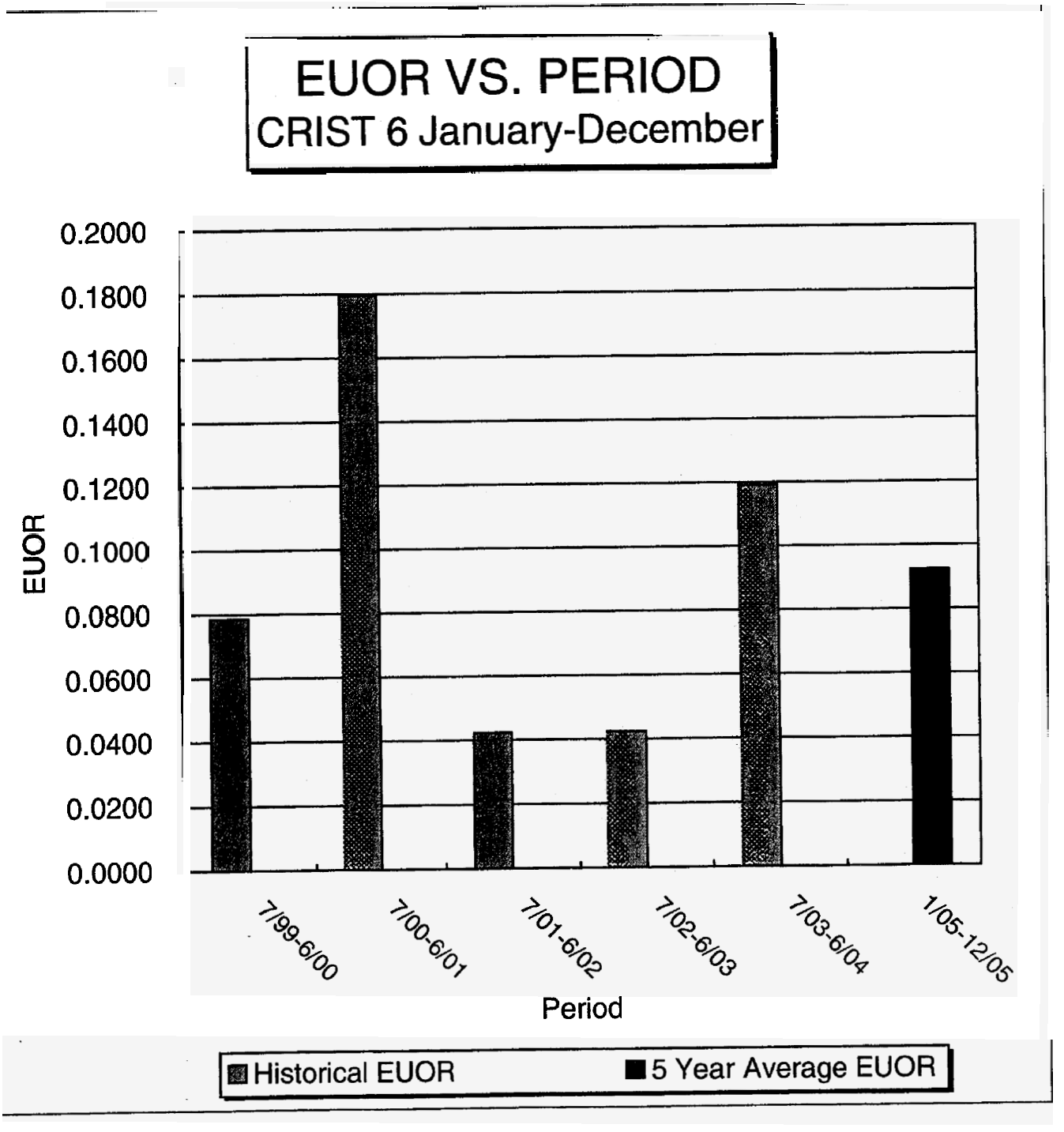
Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR (TARGET EUOR)	Minimum Attainable EUOR 70% of Target EUOR	Maximum Attainable Equivalent Availability	Maximum Attainable EUOR 145% of Target EUOR	Minimum Attainable Equivalent Availability
Crist 4	0.0115	0.0081	99.2	0.0167	98.3
Crist 5	0.0311	0.0218	97.8	0.0451	95.5
Crist 6	0.0924	0.0647	75.1	0.1340	69.5
Crist 7	0.0960	0.0672	73.1	0.1392	67.5
Smith 1	0.0194	0.0136	90.5	0.0281	89.2
Smith 2	0.1011	0.0708	74.6	0.1466	68.5
Daniel 1	0.0454	0.0318	80.1	0.0658	77.3
Daniel 2	0.0394	0.0276	89.2	0.0571	86.5

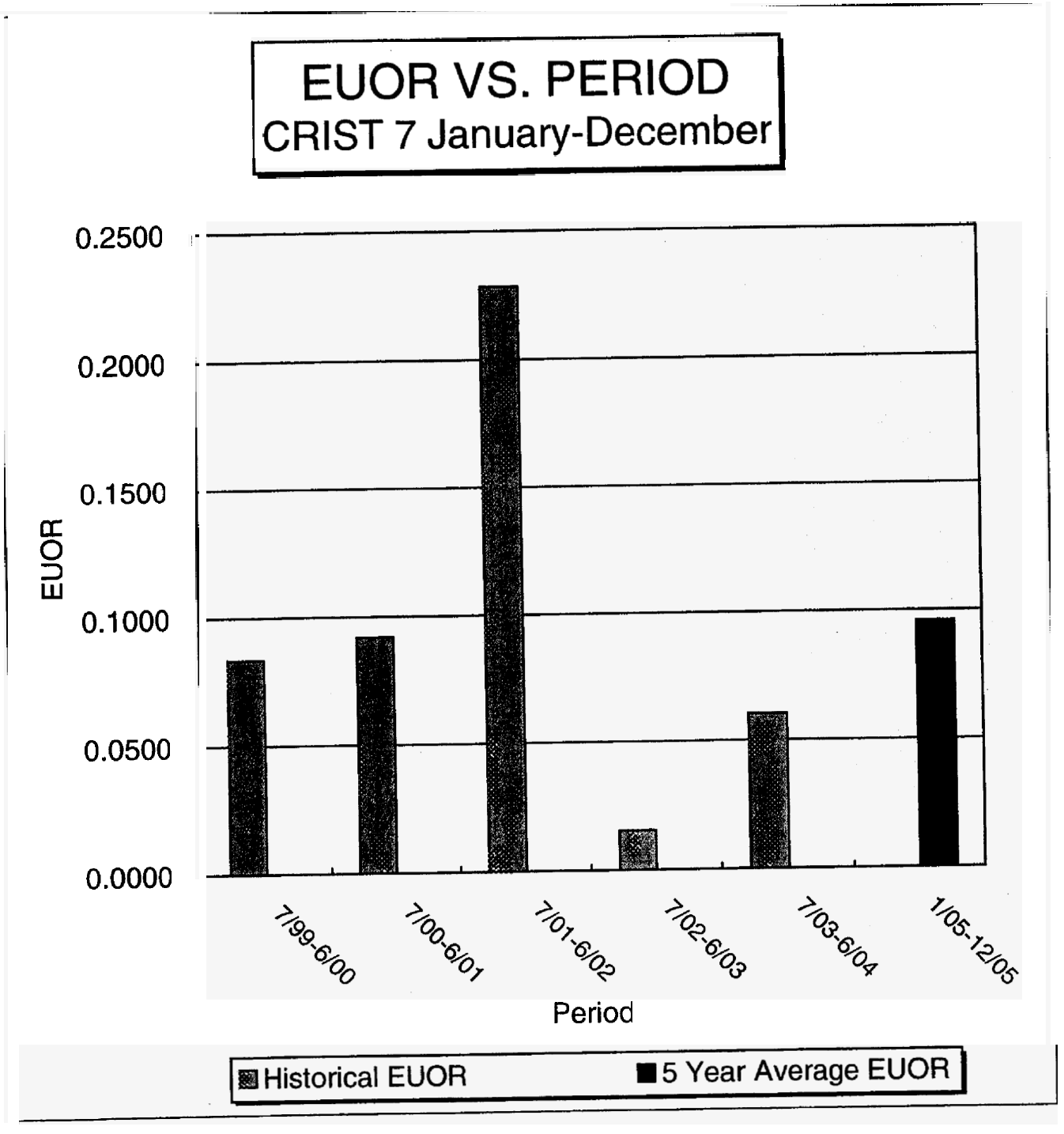
Summary of Target, Maximum, and Minimum
Equivalent Availabilities
for January 2005 - December 2005

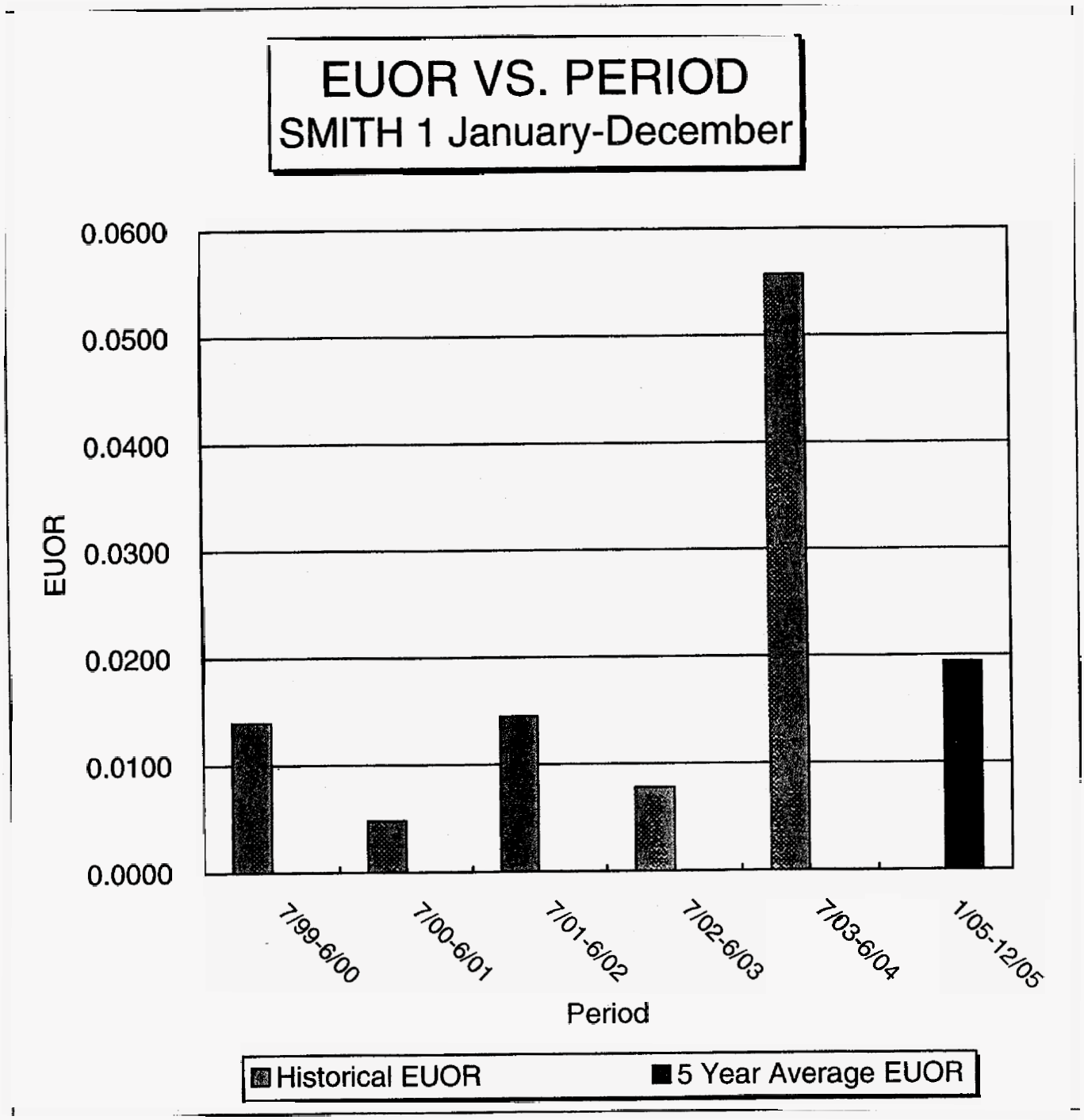
Unit	Target Equivalent Availability (0 Points)	Maximum Attainable Equivalent Availability (+10 Points)	Minimum Attainable Equivalent Availability (-10 Points)
Crist 4	98.8	99.2	98.3
Crist 5	96.9	97.8	95.5
Crist 6	72.9	75.1	69.5
Crist 7	70.9	73.1	67.5
Smith 1	90.0	90.5	89.2
Smith 2	72.2	74.6	68.5
Daniel 1	79.0	80.1	77.3
Daniel 2	88.2	89.2	86.5

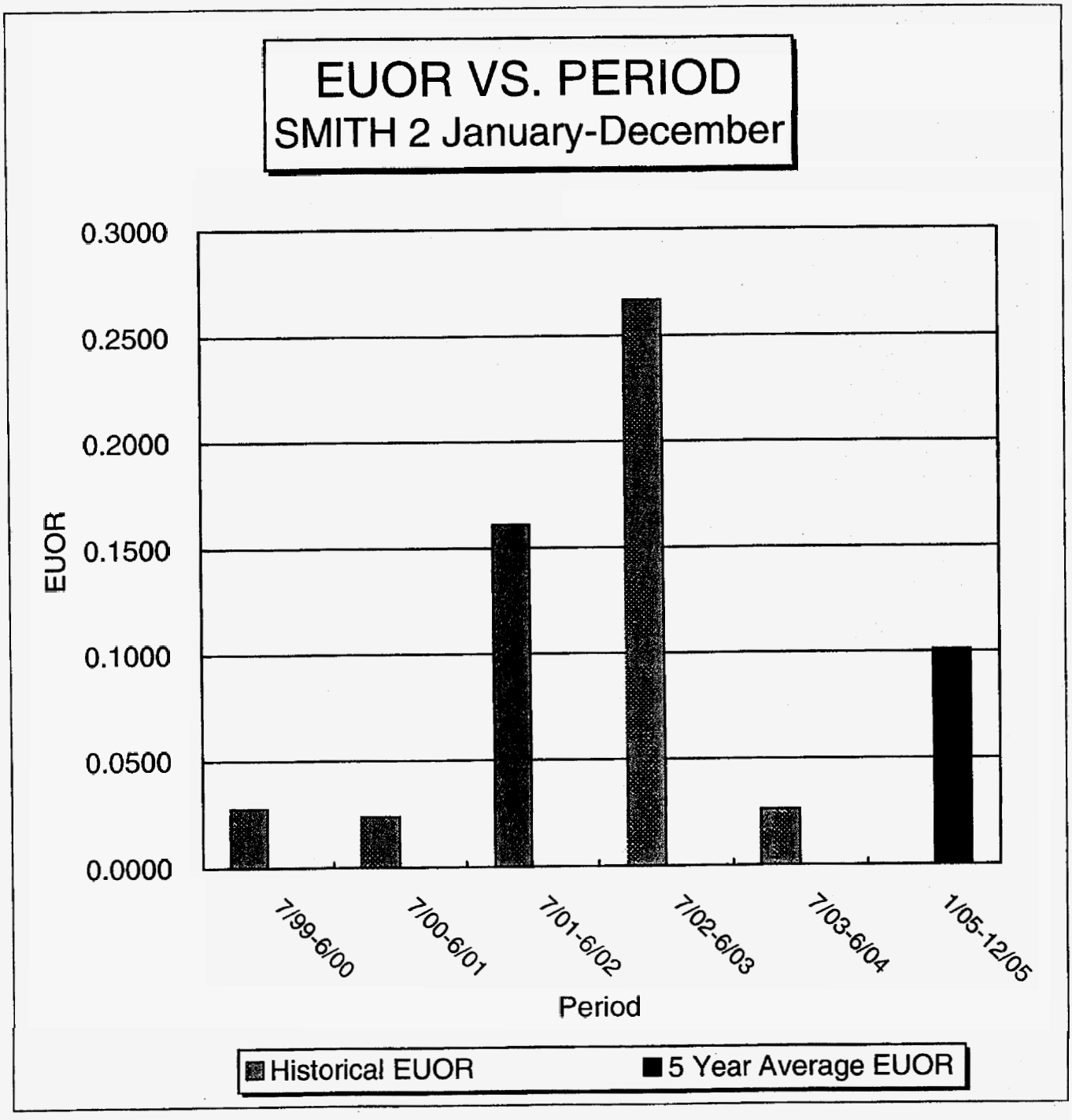

EUOR VS. PERIOD
CRIST 4 January-December
EUOR
0.0350
0.0300
0.0250
0.0200
0.0150
0.0100
0.0050
0.0000
7/99
7/00
7/01
7/02
7/03
1/05-12/05
Historical EUOR
5 Year Average EUOR


EUOR VS. PERIOD
CRIST 5 January-December
0.1200
0.1000
0.0800
0.0600
0.0400
0.0200
0.0000
EUOR
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
7/03-6/04
1/05-12/05
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
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
7/03-6/04
1/05-12/05
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
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
7/03-6/04
1/05-12/05
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
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
7/03-6/04
1/05-12/05
Period
Historical EUOR
5 Year Average EUOR


EUOR VS. PERIOD
SMITH 2 January-December
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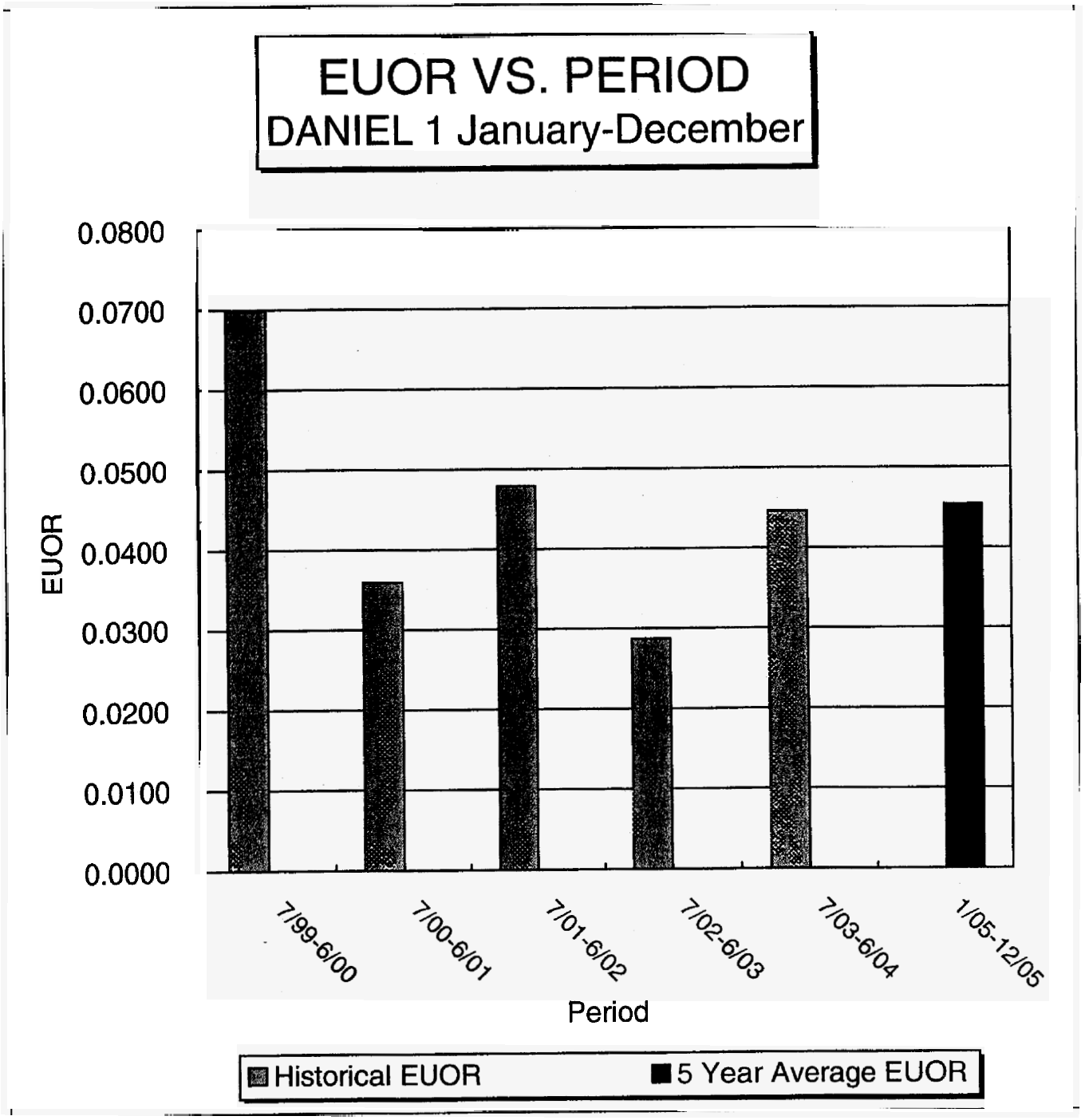
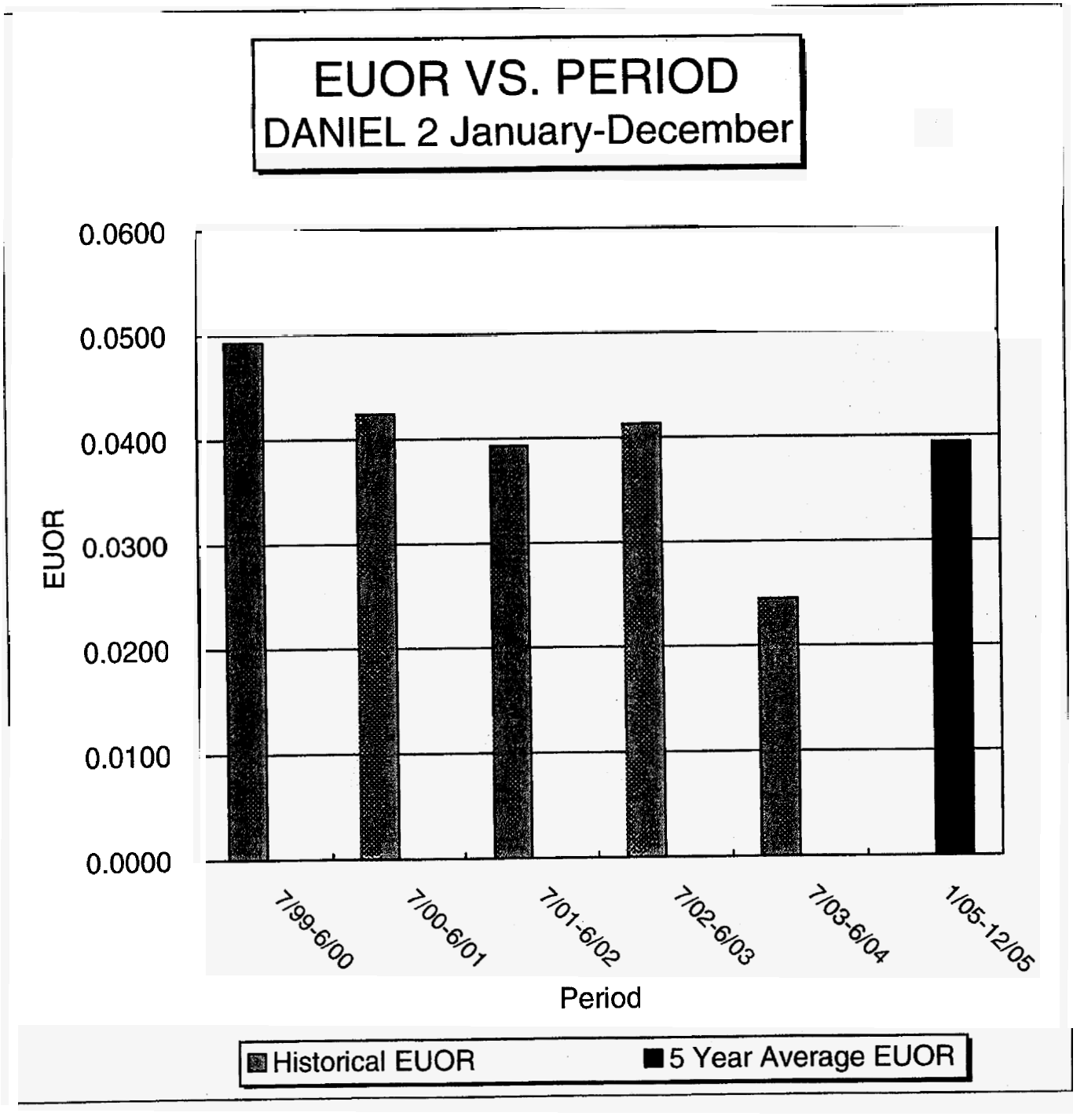
0.2500
0.2000
0.1500
0.1000
0.0500
0.0000
EUOR
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
7/03-6/04
1/05-12/05
Period
Historical EUOR
5 Year Average EUOR


EUOR VS. PERIOD
DANIEL 1 January-December
0.0800
0.0700
0.0600
0.0500
0.0400
0.0300
0.0200
0.0100
0.0000
EUOR
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
7/03-6/04
1/05-12/05
Period
Historical EUOR
5 Year Average EUOR


EUOR VS. PERIOD
DANIEL 2 January-December
0.0600
0.0500
0.0400
0.0300
0.0200
0.0100
0.0000
EUOR
7/99-6/00
7/00-6/01
7/01-6/02
7/02-6/03
7/03-6/04
1/05-12/05
Period
Historical EUOR
5 Year Average EUOR

III. GPIF MINIMUM FILING REQUIREMENTS FOR THE PERIOD JANUARY 2005 - DECEMBER 2005

CONTENTS

Generating Performance Incentive Factor

Estimated Reward/Penalty Table

Gulf Power Company

Period of: January 2005 - December 2005

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	6360	2342
+ 9	5724	2108
+ 8	5088	1873
+ 7	4452	1639
+ 6	3816	1405
+ 5	3180	1171
+ 4	2544	937
+ 3	1908	703
+ 2	1272	468
+ 1	636	234
0	0	0
- 1	-700	-234
- 2	-1400	-468
- 3	-2100	-703
- 4	-2800	-937
- 5	-3500	-1171
- 6	-4199	-1405
- 7	-4899	-1639
- 8	-5599	-1873
- 9	-6299	-2108
- 10	-6999	-2342
	Minimum Attainable Fuel Loss	Maximum Incentive Dollars Allowed by Commission During Period (Penalty)

Issued by: S. N. Story

Filed: September 09, 2004
Suspended:
Effective: January 1, 2005
Docket No.: 040001-EI
Order No.:

Generating Performance Incentive Factor

Calculation of Maximum Allowed Incentive Dollars

Estimated

Gulf Power Company

Period of: January 2005 - December 2005

Line 1	Beginning of Period Balance of Common Equity	$595,286,000
	End of Month Balance of Common Equity:	
Line 2	Month of Jan '05	$601,424,000
Line 3	Month of Feb '05	$588,659,000
Line 4	Month of Mar '05	$590,383,000
Line 5	Month of Apr '05	$575,263,000
Line 6	Month of May '05	$582,900,000
Line 7	Month of Jun '05	$593,586,000
Line 8	Month of Jul '05	$589,364,000
Line 9	Month of Aug '05	$601,648,000
Line 10	Month of Sep '05	$609,737,000
Line 11	Month of Oct '05	$597,781,000
Line 12	Month of Nov '05	$600,812,000
Line 13	Month of Dec '05	$609,932,000
Line 14	Average Common Equity for the Period (sum of line 1 through line 13 divided by 13)	$595,136,538
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)	$2,423,952
Line 18	Jurisdictional Sales (KWH)	10,851,023,000
Line 19	Total Territorial Sales (KWH)	11,231,382,000
Line 20	Jurisdictional Separation Factor (line 18 divided by line 19)	96.6134%
Line 21	Maximum Allowed Jurisdictional Incentive Dollars (line 17 multiplied by line 20)	$2,341,862

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GPIF Unit Performance Summary

Gulf Power Company

Period of: January 2005 - December 2005

Plant & Unit	Weighting Factor %	EAF Target %	EAF Range Max %	EAF Range Min %	Max Fuel Savings ($000)	Max Fuel Loss ($000)
Crist 4	0.3%	98.8	99.2	98.3	$17	($12)
Crist 5	0.3%	96.9	97.8	95.5	$20	($45)
Crist 6	2.1%	72.9	75.1	69.5	$132	($214)
Crist 7	7.3%	70.9	73.1	67.5	$465	($735)
Smith 1	0.5%	90.0	90.5	89.2	$34	($71)
Smith 2	3.6%	72.2	74.6	68.5	$231	($317)
Daniel 1	3.5%	79.0	80.1	77.3	$222	($305)
Daniel 2	2.8%	88.2	89.2	86.5	$178	($239)

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	4.5%	10,610	84.4	10,292	10,928	$289	($289)
Crist 5	4.3%	10,548	82.5	10,232	10,864	$276	($276)
Crist 6	11.2%	10,416	82.4	10,104	10,728	$710	($710)
Crist 7	19.0%	10,340	84.2	10,030	10,650	$1,206	($1,206)
Smith 1	6.5%	10,273	83.1	9,965	10,581	$414	($414)
Smith 2	5.9%	10,213	82.1	9,907	10,519	$375	($375)
Daniel 1	13.2%	9,953	98.7	9,654	10,252	$841	($841)
Daniel 2	14.9%	9,742	99.1	9,450	10,034	$950	($950)

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: January 2005 - December 2005

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Target			Actual Performance 1st Prior Period Jul '03 - Jun '04			Actual Performance 2nd Prior Period Jul '02 - Jun '03		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Crist 4	0.3%	1.3%	0.0000	0.0115	0.0115	0.0598	0.0176	0.0187	0.0581	0.0030	0.0032
Crist 5	0.3%	1.5%	0.0000	0.0311	0.0311	0.0571	0.0239	0.0254	0.0598	0.0061	0.0065
Crist 6	2.1%	10.2%	0.1974	0.0741	0.0924	0.0650	0.1112	0.1191	0.0589	0.0399	0.0424
Crist 7	7.3%	35.8%	0.2163	0.0751	0.0960	0.2192	0.0472	0.0604	0.1199	0.0136	0.0155
Smith 1	0.5%	2.6%	0.0823	0.0178	0.0194	0.0798	0.0512	0.0557	0.1019	0.0070	0.0078
Smith 2	3.6%	17.8%	0.1971	0.0812	0.1011	0.0388	0.0252	0.0262	0.3159	0.1825	0.2668
Daniel 1	3.5%	17.1%	0.1727	0.0376	0.0454	0.0870	0.0407	0.0446	0.2250	0.0222	0.0287
Daniel 2	2.8%	13.7%	0.0822	0.0362	0.0394	0.1328	0.0212	0.0245	0.0526	0.0391	0.0413
Weighted GPIF System Average			0.1755	0.0613	0.0760	0.1288	0.0445	0.0515	0.1551	0.0508	0.0682

Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: January 2005 - December 2005

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Actual Performance 3rd Prior Period Jul '01 - Jun '02			Actual Performance 4th Prior Period Jul '00 - Jun '01			Actual Performance 5th Prior Period Jul '99 - Jun '00		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Crist 4	0.3%	1.3%	0.1009	0.0032	0.0048	0.1868	0.0003	0.0004	0.0974	0.0266	0.0304
Crist 5	0.3%	1.5%	0.1123	0.0024	0.0037	0.0372	0.0106	0.0121	0.2874	0.0745	0.1076
Crist 6	2.1%	10.2%	0.1562	0.0356	0.0423	0.1102	0.1580	0.1795	0.0988	0.0708	0.0786
Crist 7	7.3%	35.8%	0.1454	0.1952	0.2284	0.1224	0.0808	0.0920	0.1589	0.0703	0.0835
Smith 1	0.5%	2.6%	0.1105	0.0128	0.0145	0.0759	0.0044	0.0048	0.0589	0.0132	0.0140
Smith 2	3.6%	17.8%	0.1490	0.1303	0.1610	0.0920	0.0216	0.0237	0.0590	0.0260	0.0276
Daniel 1	3.5%	17.1%	0.0224	0.0466	0.0479	0.1153	0.0318	0.0359	0.1396	0.0601	0.0698
Daniel 2	2.8%	13.7%	0.2329	0.0291	0.0393	0.1167	0.0374	0.0424	0.0396	0.0473	0.0493
Weighted GPIF System Average			0.1361	0.1090	0.1288	0.1121	0.0597	0.0677	0.1139	0.0556	0.0639

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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 2005 - December 2005

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Heat Rate Target	1st Prior Period Heat Rate Jul '03 - Jun '04	2nd Prior Period Heat Rate Jul '02 - Jun '03	3rd Prior Period Heat Rate Jul '01 - Jun '02
Crist 4	4.5%	5.7%	10,610	10,550	10,688	10,507
Crist 5	4.3%	5.5%	10,548	10,475	10,768	10,329
Crist 6	11.2%	14.0%	10,416	26,769	10,314	10,349
Crist 7	19.0%	23.8%	10,340	10,401	10,356	9,202
Smith 1	6.5%	8.2%	10,273	10,338	10,340	10,257
Smith 2	5.9%	7.4%	10,213	10,229	11,069	12,859
Daniel 1	13.2%	16.6%	9,953	10,070	9,765	9,978
Daniel 2	14.9%	18.8%	9,742	9,640	9,671	9,776
Weighted GPIF System Average:			10,186	12,494	10,216	10,093

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Example Calculation of Prior Season

Average Net Operating Heat Rate

Adjusted to Target Basis

Crist 6 Jul '02 - Jun '03

	Jul Jan	Aug Feb	Sep Mar	Oct Apr	Nov May	Dec Jun
1. Target Heat Rate*	10509.0 10790.0	10521.0 10211.0	10317.0 10224.0	 10280.0	10396.0 10376.0	10416.0 10339.0
2. Target Heat Rate at Actual Conditions**	10999.0 10696.0	11043.0 10162.0	10528.0 10149.0	10719.0 10380.0	10874.0 10391.0	10823.0 10418.0
3. Adjustments to Actual Heat Rate (1-2)	-490.0 94.0	-522.0 49.0	-211.0 75.0	0.0 -100.0	-478.0 -15.0	-407.0 -79.0
4. Actual Heat Rate for Prior Period	10890.0 10214.0	10808.0 10351.0	10700.0 10374.0	10721.0 9958.0	11096.0 10383.0	10686.0 10353.0
5. Adjusted actual Heat Rate (4+3)	10400.0 10308.0	10286.0 10400.0	10489.0 10449.0	10721.0 9858.0	10618.0 10368.0	10279.0 10274.0
6. Forecast Net MWH Generation*	186288.5 179724.3	187833.1 174932.0	51704.1 123533.1	0.0 141431.4	54179.3 170126.8	149507.0 169165.6

7. Adjusted Actual Heat Rate for Jul '02 - Jun '03 = (Σ ((5)*(6)))/(Σ (6)) 10,314

* For the January 2005 - December 2005 time period.

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

Derivation of Weighting Factors

Gulf Power Company

Period of: January 2005 - December 2005

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	$340,802	$340,785	$17	0.3%
Crist 4	ANOHR-1	$340,802	$340,513	$289	4.5%
Crist 5	EA-1	$340,802	$340,782	$20	0.3%
Crist 5	ANOHR-1	$340,802	$340,526	$276	4.3%
Crist 6	EA-1	$340,802	$340,670	$132	2.1%
Crist 6	ANOHR-1	$340,802	$340,092	$710	11.2%
Crist 7	EA-2	$340,802	$340,337	$465	7.3%
Crist 7	ANOHR-2	$340,802	$339,596	$1,206	19.0%
Smith 1	EA-3	$340,802	$340,768	$34	0.5%
Smith 1	ANOHR-3	$340,802	$340,388	$414	6.5%
Smith 2	EA-4	$340,802	$340,571	$231	3.6%
Smith 2	ANOHR-4	$340,802	$340,427	$375	5.9%
Daniel 1	EA-5	$340,802	$340,580	$222	3.5%
Daniel 1	ANOHR-5	$340,802	$339,961	$841	13.2%
Daniel 2	EA-6	$340,802	$340,624	$178	2.8%
Daniel 2	ANOHR-6	$340,802	$339,852	$950	14.9%

(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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Order No.:

Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2005 - December 2005

Crist 4

Equivalent Availability Points	Fuel Savings/ Loss ($000)	Adjusted Actual Equivalent Availability	Average Heat Rate Points	Fuel Savings/ Loss ($000)	Adjusted Actual Heat Rate
+ 10	17	99.20	+ 10	289	**10,292**
+ 9	15	99.16	+ 9	260	10,316
+ 8	14	99.12	+ 8	231	10,341
+ 7	12	99.08	+ 7	202	10,365
+ 6	10	99.04	+ 6	173	10,389
+ 5	9	99.00	+ 5	145	10,414
+ 4	7	98.96	+ 4	116	**10,438**
+ 3	5	98.92	+ 3	87	10,462
+ 2	3	98.88	+ 2	58	10,486
+ 1	2	98.84	+ 1	29	10,511
				0	10,535
0	0	98.80	0	0	10,610
				0	10,685
- 1	(1)	98.75	- 1	(29)	10,709
- 2	(2)	98.70	- 2	(58)	10,734
- 3	(4)	98.65	- 3	(87)	10,758
- 4	(5)	98.60	- 4	(116)	10,782
- 5	(6)	98.55	- 5	(145)	10,807
- 6	(7)	**98.50**	- 6	(173)	10,831
- 7	(8)	98.45	- 7	(202)	10,855
- 8	(10)	98.40	- 8	(231)	10,879
- 9	(11)	98.35	- 9	(260)	10,904
- 10	(12)	98.30	- 10	(289)	10,928
Weighting Factor:		0.003	Weighting Factor:		0.045

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Order No.:

Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2005 - December 2005

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	20	97.80	+ 10	276	10,232
+ 9	18	97.71	+ 9	248	10,256
+ 8	16	97.62	+ 8	221	10,280
+ 7	14	97.53	+ 7	193	10,304
+ 6	12	97.44	+ 6	166	10,328
+ 5	10	97.35	+ 5	138	10,353
+ 4	8	97.26	+ 4	110	10,377
+ 3	6	97.17	+ 3	83	10,401
+ 2	4	97.08	+ 2	55	10,425
+ 1	2	96.99	+ 1	28	10,449
				0	10,473
0	0	96.90	0	0	10,548
				0	10,623
- 1	(5)	96.76	- 1	(28)	10,647
- 2	(9)	96.62	- 2	(55)	10,671
- 3	(14)	96.48	- 3	(83)	10,695
- 4	(18)	96.34	- 4	(110)	10,719
- 5	(23)	96.20	- 5	(138)	10,744
- 6	(27)	96.06	- 6	(166)	10,768
- 7	(32)	95.92	- 7	(193)	10,792
- 8	(36)	95.78	- 8	(221)	10,816
- 9	(41)	95.64	- 9	(248)	10,840
- 10	(45)	95.50	- 10	(276)	10,864
Weighting Factor:		0.003	Weighting Factor:		0.043

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2005 - December 2005

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	132	75.10	+ 10	710	10,104
+ 9	119	74.88	+ 9	639	10,128
+ 8	106	74.66	+ 8	568	10,151
+ 7	92	74.44	+ 7	497	10,175
+ 6	79	74.22	+ 6	426	10,199
+ 5	66	74.00	+ 5	355	10,223
+ 4	53	73.78	+ 4	284	10,246
+ 3	40	73.56	+ 3	213	10,270
+ 2	26	73.34	+ 2	142	10,294
+ 1	13	73.12	+ 1	71	10,317
				0	10,341
0	0	72.90	0	0	10,416
				0	10,491
- 1	(21)	72.56	- 1	(71)	10,515
- 2	(43)	72.22	- 2	(142)	10,538
- 3	(64)	71.88	- 3	(213)	10,562
- 4	(86)	71.54	- 4	(284)	10,586
- 5	(107)	71.20	- 5	(355)	10,610
- 6	(128)	70.86	- 6	(426)	10,633
- 7	(150)	70.52	- 7	(497)	10,657
- 8	(171)	70.18	- 8	(568)	10,681
- 9	(193)	69.84	- 9	(639)	10,704
- 10	(214)	69.50	- 10	(710)	10,728
Weighting Factor:		0.021	Weighting Factor:		0.112

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Docket No.: 040001-EI
Order No.:

Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2005 - December 2005

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	465	73.10	+ 10	1,206	10,030
+ 9	419	72.88	+ 9	1,085	10,054
+ 8	**372**	**72.66**	**+ 8**	**965**	10,077
+ 7	326	72.44	+ 7	844	10,101
+ 6	279	72.22	+ 6	724	10,124
+ 5	233	72.00	+ 5	603	10,148
+ 4	**186**	**71.78**	**+ 4**	**482**	10,171
+ 3	140	71.56	+ 3	362	10,195
+ 2	93	71.34	+ 2	241	10,218
+ 1	47	71.12	+ 1	121	10,242
				0	10,265
0	**0**	**70.90**	**0**	**0**	10,340
				0	10,415
- 1	(74)	70.56	- 1	(121)	10,439
- 2	(147)	70.22	- 2	(241)	10,462
- 3	**(221)**	**69.88**	**- 3**	**(362)**	**10,486**
- 4	(294)	69.54	- 4	(482)	10,509
- 5	(368)	69.20	- 5	(603)	10,533
- 6	(441)	68.86	- 6	(724)	10,556
- 7	(515)	68.52	- 7	(844)	10,580
- 8	(588)	68.18	- 8	(965)	10,603
- 9	(662)	67.84	- 9	(1,085)	10,627
- 10	(735)	67.50	- 10	(1,206)	10,650
Weighting Factor:		0.073	Weighting Factor:		0.190

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2005 - December 2005

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	34	90.50	+ 10	414	9,965
+ 9	31	90.45	+ 9	373	9,988
+ 8	27	90.40	+ 8	331	10,012
+ 7	24	90.35	+ 7	290	10,035
+ 6	20	90.30	+ 6	248	10,058
+ 5	17	90.25	+ 5	207	10,082
+ 4	14	90.20	+ 4	166	10,105
+ 3	10	90.15	+ 3	124	10,128
+ 2	7	90.10	+ 2	83	10,151
+ 1	3	90.05	+ 1	41	10,175
				0	10,198
0	0	90.00	0	0	10,273
				0	10,348
- 1	(7)	89.92	- 1	(41)	10,371
- 2	(14)	89.84	- 2	(83)	10,395
- 3	(21)	89.76	- 3	(124)	10,418
- 4	(28)	89.68	- 4	(166)	10,441
- 5	(36)	89.60	- 5	(207)	10,465
- 6	(43)	89.52	- 6	(248)	10,488
- 7	(50)	89.44	- 7	(290)	10,511
- 8	(57)	89.36	- 8	(331)	10,534
- 9	(64)	89.28	- 9	(373)	10,558
- 10	(71)	89.20	- 10	(414)	10,581
Weighting Factor:		0.005	Weighting Factor:		0.065

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2005 - December 2005

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	231	74.60	+ 10	375	9,907
+ 9	208	74.36	+ 9	338	9,930
+ 8	185	74.12	+ 8	300	9,953
+ 7	162	73.88	+ 7	263	9,976
+ 6	139	73.64	+ 6	225	9,999
+ 5	116	73.40	+ 5	188	10,023
+ 4	92	73.16	+ 4	150	10,046
+ 3	69	72.92	+ 3	113	10,069
+ 2	46	72.68	+ 2	75	10,092
+ 1	23	72.44	+ 1	38	10,115
				0	10,138
0	0	72.20	0	0	10,213
				0	10,288
- 1	(32)	71.83	- 1	(38)	10,311
- 2	(63)	71.46	- 2	(75)	10,334
- 3	(95)	71.09	- 3	(113)	10,357
- 4	(127)	70.72	- 4	(150)	10,380
- 5	(159)	70.35	- 5	(188)	10,404
- 6	(190)	69.98	- 6	(225)	10,427
- 7	(222)	69.61	- 7	(263)	10,450
- 8	(254)	69.24	- 8	(300)	10,473
- 9	(285)	68.87	- 9	(338)	10,496
- 10	(317)	68.50	- 10	(375)	10,519
Weighting Factor:		0.036	Weighting Factor:		0.059

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2005 - December 2005

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	222	80.10	+ 10	841	9,654
+ 9	200	79.99	+ 9	757	9,676
+ 8	178	79.88	+ 8	673	9,699
+ 7	155	79.77	+ 7	589	9,721
+ 6	133	79.66	+ 6	505	9,744
+ 5	111	79.55	+ 5	421	9,766
+ 4	89	79.44	+ 4	336	9,788
+ 3	67	79.33	+ 3	252	9,811
+ 2	44	79.22	+ 2	168	9,833
+ 1	22	79.11	+ 1	84	9,856
				0	9,878
0	0	79.00	0	0	9,953
				0	**10,028**
- 1	(31)	78.83	- 1	(84)	10,050
- 2	(61)	78.66	- 2	(168)	10,073
- 3	(92)	78.49	- 3	(252)	10,095
- 4	**(122)**	**78.32**	**- 4**	**(336)**	**10,118**
- 5	(153)	78.15	- 5	(421)	10,140
- 6	(183)	77.98	- 6	(505)	10,162
- 7	(214)	77.81	- 7	(589)	10,185
- 8	(244)	77.64	- 8	(673)	10,207
- 9	(275)	77.47	- 9	(757)	10,230
- 10	**(305)**	**77.30**	**- 10**	**(841)**	10,252
Weighting Factor:		0.035	Weighting Factor:		0.132

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Order No.:

Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2005 - December 2005

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	178	89.20	+ 10	950	9,450
+ 9	160	89.10	+ 9	855	9,472
+ 8	142	89.00	+ 8	760	9,493
+ 7	125	88.90	+ 7	665	9,515
+ 6	107	88.80	+ 6	570	9,537
+ 5	89	88.70	+ 5	475	9,559
+ 4	71	88.60	+ 4	380	9,580
+ 3	53	88.50	+ 3	285	9,602
+ 2	36	88.40	+ 2	190	9,624
+ 1	18	88.30	+ 1	95	9,645
				0	9,667
0	0	88.20	0	0	9,742
				0	9,817
- 1	(24)	88.03	- 1	(95)	9,839
- 2	(48)	87.86	- 2	(190)	9,860
- 3	(72)	87.69	- 3	(285)	9,882
- 4	(96)	87.52	- 4	(380)	9,904
- 5	(120)	87.35	- 5	(475)	9,926
- 6	(143)	87.18	- 6	(570)	9,947
- 7	**(167)**	**87.01**	- 7	**(665)**	**9,969**
- 8	(191)	86.84	- 8	(760)	9,991
- 9	(215)	86.67	- 9	(855)	10,012
- 10	(239)	86.50	- 10	(950)	10,034
Weighting Factor:		0.028	Weighting Factor:		0.149

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Filed: September 09, 2004
Suspended:
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Docket No.: 040001-EI
Order No.:

ESTIMATED UNIT PERFORMANCE DATA

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2005 - December 2005

	CRIST 4	Jan '05	Feb '05	Mar '05	Apr '05	May '05	Jun '05	
1.	EAF (%)	99.5	99.3	99.3	99.4	99.5	99.4	
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3.	EUOF (%)	0.5	0.7	0.7	0.6	0.5	0.6	
4.	EUOR (%)	0.5	0.7	0.7	0.6	0.5	0.6	
5.								
6.	SH	740.0	668.0	740.0	715.0	740.0	716.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	4.0	4.0	4.0	4.0	4.0	4.0	
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	4.0	5.0	5.0	4.0	4.0	4.0	
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	516219.0	485654.0	539999.0	504695.0	498647.0	490455.0	
13.	Net Gen (MWH)	47555.9	46354.3	50737.5	47234.0	46874.1	46286.8	
14.	ANOHR (Btu/KWH)	10855.0	10477.0	10643.0	10685.0	10638.0	10596.0	
15.	NOF %	82.4	89.0	87.9	84.7	81.2	82.9	
16.	NPC (MW)	78.0	78.0	78.0	78.0	78.0	78.0	

19.	ANOHR Equation	10^6 / AKW * [604.51 + 16.03 * JAN + 10.26 * MAR + 8.72 * APR] - 7798 + 0.13404 * LSRF / AKW

Issued by: S. N. Story

Filed: September 09, 2004
Suspended:
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Docket No.: 040001-EI
Order No.:

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2005 - December 2005

		Jul '05	Aug '05	Sep '05	Oct '05	Nov '05	Dec '05	
1.	EAF (%)	99.5	99.5	99.4	99.2	99.3	93.0	98.8
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.	EUOF (%)	0.5	0.5	0.6	0.8	0.7	7.0	1.2
4.	EUOR (%)	0.5	0.5	0.6	0.8	0.7	7.0	1.2
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6.	SH	740.0	740.0	716.0	741.0	716.0	692.0	8664.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	4.0	4.0	4.0	4.0	4.0	52.0	96.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.	FOH & EFOH	4.0	4.0	4.0	6.0	5.0	4.0	53.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	48.0	48.0
12.	Oper MBtu	524933.0	527779.0	497877.0	519592.0	496226.0	448845.0	6050921.0
13.	Net Gen (MWH)	49893.8	50221.6	47151.9	49283.1	46960.0	41749.1	570302.1
14.	ANOHR (Btu/KWH)	10521.0	10509.0	10559.0	10543.0	10567.0	10751.0	10610.0
15.	NOF %	86.4	87.0	84.4	85.3	84.1	77.3	84.4
16.	NPC (MW)	78.0	78.0	78.0	78.0	78.0	78.0	78.0

19.	ANOHR Equation	10^6 / AKW * [604.51 + 16.03 * JAN + 10.26 * MAR + 8.72 * APR] - 7798 + 0.13404 * LSRF / AKW

Issued by: S. N. Story

Filed: September 09, 2004
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Docket No.: 040001-EI
Order No.:

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2005 - December 2005

	CRIST 5	Jan '05	Feb '05	Mar '05	Apr '05	May '05	Jun '05	
1.	EAF (%)	89.0	87.9	98.3	98.6	98.5	98.6	
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3.	EUOF (%)	11.0	12.1	1.7	1.4	1.5	1.4	
4.	EUOR (%)	11.0	12.1	1.7	1.4	1.5	1.4	
5.	PH	744.0	672.0	744.0	719.0	744.0	720.0	
6.	SH	662.0	591.0	733.0	709.0	733.0	710.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	82.0	81.0	11.0	10.0	11.0	10.0	
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	10.0	9.0	13.0	10.0	11.0	10.0	
11.	MOH & EMOH	72.0	72.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	453266.0	435642.0	535928.0	502833.0	500895.0	495551.0	
13.	Net Gen (MWH)	42082.1	41320.5	50721.9	47170.1	46469.5	46274.3	
14.	ANOHR (Btu/KWH)	10771.0	10543.0	10566.0	10660.0	10779.0	10709.0	
15.	NOF %	79.5	87.4	86.5	83.2	79.2	81.5	
16.	NPC (MW)	80.0	80.0	80.0	80.0	80.0	80.0	

	+ 8,240

Issued by: S. N. Story

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Docket No.: 040001-EI
Order No.:

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2005 - December 2005

	CRIST 5	Jul '05	Aug '05	Sep '05	Oct '05	Nov '05	Dec '05	Total
1.	EAF (%)	98.5	98.5	98.6	98.4	98.6	98.5	96.9
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.	EUOF (%)	1.5	1.5	1.4	1.6	1.4	1.5	3.1
4.	EUOR (%)	1.5	1.5	1.4	1.6	1.4	1.5	3.1
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6.	SH	733.0	733.0	710.0	734.0	710.0	733.0	8491.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	11.0	11.0	10.0	11.0	10.0	11.0	269.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.	FOH & EFOH	11.0	11.0	10.0	12.0	10.0	11.0	128.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	144.0
12.	Oper MBtu	519111.0	518932.0	494386.0	511265.0	474094.0	472296.0	5914199.0
13.	Net Gen (MWH)	49967.4	50240.3	47336.8	49349.9	46768.7	42986.8	560688.3
14.	ANOHR (Btu/KWH)	10389.0	10329.0	10444.0	10360.0	10137.0	10987.0	10548.0
15.	NOF %	85.2	85.7	83.3	84.0	82.3	73.3	82.5
16.	NPC (MW)	80.0	80.0	80.0	80.0	80.0	80.0	80.0
19.	ANOHR Equation	10^6 / AKW * [160.95 - 14.39 * JUL - 17.85 * AUG - 13.91 * SEP - 18.50 * OCT - 35.97 * NOV] + 8,240						

Issued by: S. N. Story

Filed: September 09, 2004
Suspended:
Effective: January 1, 2005
Docket No.: 040001-EI
Order No.:

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2005 - December 2005

	CRIST 6	Jan '05	Feb '05	Mar '05	Apr '05	May '05	Jun '05	
1.	EAF (%)	97.4	97.5	62.6	78.0	97.4	97.5	
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3.	EUOF (%)	2.6	2.5	37.4	22.0	2.6	2.5	
4.	EUOR (%)	2.6	2.5	37.4	22.0	2.6	2.5	
5.	PH	744.0	672.0	744.0	719.0	744.0	720.0	
6.	SH	725.0	655.0	468.0	561.0	725.0	702.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	...	19.0	17.0	276.0	158.0	19.0	18.0	
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	19.0	17.0	14.0	14.0	19.0	18.0	
11.	MOH & EMOH	0.0	0.0	264.0	144.0	0.0	0.0	
12.	Oper MBtu	1939225.0	1786231.0	1263002.0	1453915.0	1765236.0	1749003.0	
13.	Net Gen (MWH)	179724.3	174932.0	123533.1	141431.4	170126.8	169165.6	
14.	ANOHR (Btu/KWH)	10790.0	10211.0	10224.0	10280.0	10376.0	10339.0	
15.	NOF %	82.1	88.4	87.4	83.5	77.7	79.8	
16.	NPC (MW)	302.0	302.0	302.0	302.0	302.0	302.0	

19.	ANOHR Equation	10^6 / AKW * [1533.78 + 120.92 * JAN + 64.73 * JUL + 71.04 * AUG + 66.84 * OCT] - 3884 + 0.02998 * LSRF / AKW

Issued by: S. N. Story

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Suspended:
Effective: January 1, 2005
Docket No.: 040001-EI
Order No.:

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2005 - December 2005

	CRIST 6	Jul '05	Aug '05	Sep '05	Oct '05	Nov '05	Dec '05	Total
1.	EAF (%)	97.4	97.4	29.3	0.0	32.2	88.0	72.9
2.	POF (%)	0.0	0.0	70.0	100.0	66.7	0.0	19.7
3.	EUOF (%)	2.6	2.6	0.7	0.0	1.1	12.0	7.4
4.	EUOR (%)	2.6	2.6	2.3	0.0	3.3	12.0	9.2
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6.	SH	725.0	725.0	211.0	0.0	234.0	655.0	6386.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	19.0	19.0	509.0	745.0	486.0	89.0	2374.0
9.	POH	0.0	0.0	504.0	745.0	480.0	0.0	1729.0
10.	FOH & EFOH	19.0	19.0	5.0	0.0	8.0	17.0	169.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	72.0	480.0
12.	Oper MBtu	1957706.0	1976192.0	533431.0	0.0	563248.0	1557265.0	16544454.0
13.	Net Gen (MWH)	186288.5	187833.1	51704.1	0.0	54179.3	149507.0	1588425.2
14.	ANOHR (Btu/KWH)	10509.0	10521.0	10317.0	-	10396.0	10416.0	10416.0
15.	NOF %	85.1	85.8	81.1	0.0	76.7	75.6	82.4
16.	NPC (MW)	302.0	302.0	302.0	302.0	302.0	302.0	302.0

19.	ANOHR Equation	10^6 / AKW * [1533.78 + 120.92 * JAN + 64.73 * JUL + 71.04 * AUG + 66.84 * OCT] - 3884 + 0.02998 * LSRF / AKW

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Docket No.: 040001-EI
Order No.:

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2005 - December 2005

	CRIST 7	Jan '05	Feb '05	Mar '05	Apr '05	May '05	Jun '05	
1.	EAF (%)	85.9	0.0	0.0	41.3	95.2	95.1	
2.	POF (%)	9.7	100.0	100.0	56.6	0.0	0.0	
3.	EUOF (%)	4.4	0.0	0.0	2.1	4.8	4.9	
4.	EUOR (%)	4.9	0.0	0.0	4.8	4.8	4.9	
5.	PH	744.0	672.0	744.0	719.0	744.0	720.0	
6.	SH	639.0	0.0	0.0	297.0	708.0	685.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	105.0	672.0	744.0	422.0	36.0	35.0	
9.	POH	72.0	672.0	744.0	407.0	0.0	0.0	
10.	FOH & EFOH	33.0	0.0	0.0	15.0	36.0	35.0	
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
	Oper MBtu	2714207.0	0.0	0.0	1208323.0	2828301.0	2787843.0	
	Net Gen (MWH)	266595.3	0.0	0.0	116678.5	272659.9	269200.8	
	ANOHR (Btu/KWH)	10181.0	-	-	10356.0	10373.0	10356.0	
	NOF %	87.5	0.0	0.0	82.4	80.7	82.4	
	NPC (MW)	477.0	477.0	477.0	477.0	477.0	477.0	

19.	ANOHR Equation	10^6 / AKW * [1414.12 - 52.99 * JAN - 235.50 * MAR + 42.16 * JUL + 51.30 * SEP - 45.57 * OCT] + 2,568 + 0.00993 * LSRF / AKW

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Order No.:

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2005 - December 2005

	CRIST 7	Jul '05	Aug '05	Sep '05	Oct '05	Nov '05	Dec '05	Total
1.	EAF (%)	95.2	95.2	95.1	79.5	66.3	95.2	70.9
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	21.6
3.	EUOF (%)	4.8	4.8	4.9	20.5	33.7	4.8	7.5
4.	EUOR (%)	4.8	4.8	4.9	20.5	33.8	4.8	9.6
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6.	SH	708.0	708.0	685.0	595.0	479.0	708.0	6212.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	36.0	36.0	35.0	150.0	241.0	36.0	2548.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	1895.0
10.	FOH & EFOH	36.0	36.0	35.0	33.0	27.0	36.0	322.0
11.	MOH & EMOH	0.0	0.0	0.0	120.0	216.0	0.0	336.0
12.	Oper MBtu	3072650.0	3062575.0	2858596.0	2443978.0	1991085.0	2817620.0	25785178.0
13.	Net Gen (MWH)	295163.3	297222.0	272949.1	239043.2	192617.3	271525.5	2493654.9
14.	ANOHR (Btu/KWH)	10410.0	10304.0	10473.0	10224.0	10337.0	10377.0	10340.0
15.	NOF %	87.4	88.0	83.5	84.2	84.3	80.4	84.2
16.	NPC (MW)	477.0	477.0	477.0	477.0	477.0	477.0	477.0

19. ANOHR Equation

$$10^{6} / AKW * [\,1414.12 - 52.99 * JAN - 235.50 * MAR + 42.16 * JUL + 51.30 * SEP - 45.57 * OCT\,] + 2{,}568 + 0.00993 * LSRF / AKW$$

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Order No.:

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2005 - December 2005

	SMITH 1	Jan '05	Feb '05	Mar '05	Apr '05	May '05	Jun '05	
1.	EAF (%)	98.4	98.5	98.7	98.7	98.7	98.8	
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3.	EUOF (%)	1.6	1.5	1.3	1.3	1.3	1.2	
4.	EUOR (%)	1.6	1.5	1.3	1.3	1.3	1.3	
5.	PH	744.0	672.0	744.0	719.0	744.0	720.0	
6.	SH	734.0	663.0	734.0	710.0	734.0	711.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	10.0	9.0	10.0	9.0	10.0	9.0	
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	12.0	10.0	10.0	9.0	10.0	9.0	
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	1015574.0	985494.0	1066465.0	980601.0	960544.0	945597.0	
13.	Net Gen (MWH)	99732.3	96052.0	103883.2	95370.6	93220.5	91832.3	
14.	ANOHR (Btu/KWH)	10183.0	10260.0	10266.0	10282.0	10304.0	10297.0	
15.	NOF %	83.9	89.4	87.4	82.9	78.4	79.7	
16.	NPC (MW)	162.0	162.0	162.0	162.0	162.0	162.0	

19.	ANOHR Equation	10^6 / AKW * [334.98 - 12.87 * JAN] + 4,856 + 0.02059 * LSRF / AKW

Issued by: S. N. Story

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Docket No.: 040001-EI
Order No.:

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

	SMITH 1	Jul '05	Aug '05	Sep '05	Oct '05	Nov '05	Dec '05	Total
1.	EAF (%)	98.7	98.7	98.8	66.7	26.4	98.7	90.0
2.	POF (%)	0.0	0.0	0.0	32.3	66.7	0.0	8.2
3.	EUOF (%)	1.3	1.3	1.2	1.0	6.9	1.3	1.8
4.	EUOR (%)	1.3	1.3	1.3	1.4	20.8	1.3	1.9
	PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
	SH	734.0	734.0	711.0	497.0	190.0	734.0	7886.0
	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	UH	10.0	10.0	9.0	248.0	530.0	10.0	874.0
	POH	0.0	0.0	0.0	241.0	[illegible]	[illegible]	[illegible]
	FOH & EFOH	10.0	10.0	9.0	7.0	2.0	10.0	108.0
	MOH & EMOH	0.0	0.0	0.0	0.0	[illegible]	[illegible]	[illegible]
12.	Oper MBtu	1040142.0	1051331.0	966345.0	684928.0	263304.0	943332.0	10903657.0
13.	Net Gen (MWH)	101250.1	102379.1	93929.3	66614.3	25613.2	91470.2	1061347.1
14.	ANOHR (Btu/KWH)	10273.0	10269.0	10288.0	10282.0	10280.0	10313.0	10273.0
15.	NOF %	85.1	86.1	81.5	82.7	83.2	76.9	83.1
16.	NPC (MW)	162.0	162.0	162.0	162.0	162.0	162.0	162.0

19.	ANOHR Equation	10^6 / AKW * [334.98 - 12.87 * JAN] + 4,856 + 0.02059 * LSRF / AKW

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Order No.:

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2005 - December 2005

	SMITH 2	Jan '05	Feb '05	Mar '05	Apr '05	May '05	Jun '05	
1.	EAF (%)	67.1	60.4	0.0	0.0	91.4	94.4	
2.	POF (%)	0.0	35.7	100.0	100.0	3.2	0.0	
3.	EUOF (%)	32.9	3.9	0.0	0.0	5.4	5.6	
4.	EUOR (%)	32.9	6.0	0.0	0.0	5.6	5.6	
5.	PH	744.0	672.0	744.0	719.0	744.0	720.0	
6.	SH	499.0	408.0	0.0	0.0	680.0	680.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	245.0	264.0	744.0	719.0	64.0	40.0	
9.	POH	0.0	240.0	744.0	719.0	24.0	0.0	
10.	FOH & EFOH	29.0	26.0	0.0	0.0	40.0	40.0	
11.	MOH & EMOH	216.0	0.0	0.0	0.0	0.0	0.0	
	Oper MBtu	800407.0	683786.0	0.0	0.0	1025476.0	1056329.0	
	Net Gen (MWH)	80775.8	68024.9	0.0	0.0	98965.1	101628.7	
	ANOHR (Btu/KWH)	9909.0	10052.0	-	-	10362.0	10394.0	
	NOF %	85.6	88.2	0.0	0.0	77.0	79.1	
		189.0	189.0	189.0	189.0	189.0	189.0	

19.	ANOHR Equation	10^6 / AKW * [-318.85 - 47.20 * JAN - 23.05 * FEB - 61.42 * MAR + 62.94 * APR + 16.98 * MAY + 24.15 * JUN] + 15,607 - 0.02010 * LSRF / AKW

Issued by: S. N. Story

Filed: September 09, 2004
Suspended:
Effective: January 1, 2005
Docket No.: 040001-EI
Order No.:

	SMITH 2	Jul '05	Aug '05	Sep '05	Oct '05	Nov '05	Dec '05	Total
1.	EAF (%)	94.5	94.5	94.4	88.3	94.2	85.3	72.2
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	19.7
3.	EUOF (%)	5.5	5.5	5.6	11.7	5.8	14.7	8.1
4.	EUOR (%)	5.5	5.5	5.6	11.7	5.8	14.7	10.1
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6.	SH	703.0	703.0	680.0	658.0	680.0	635.0	6326.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	41.0	41.0	40.0	87.0	40.0	109.0	2434.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	1727.0
10.	FOH & EFOH	41.0	41.0	40.0	39.0	42.0	37.0	375.0
11.	MOH & EMOH	0.0	0.0	0.0	48.0	0.0	72.0	336.0
12.	Oper MBtu	1150979.0	1162641.0	1070030.0	1047696.0	1075474.0	947804.0	10020622.0
13.	Net Gen (MWH)	112796.8	113984.4	104699.6	102564.5	105252.9	92513.8	981206.5
14.	ANOHR (Btu/KWH)	10204.0	10200.0	10220.0	10215.0	10218.0	10245.0	10213.0
15.	NOF %	84.9	85.8	81.5	82.5	81.9	77.1	82.1
16.	NPC (MW)	189.0	189.0	189.0	189.0	189.0	189.0	189.0

19.	ANOHR Equation	10^6 / AKW * [-318.85 - 47.20 * JAN - 23.05 * FEB - 61.42 * MAR + 62.94 * APR + 16.98 * MAY + 24.15 * JUN] + 15,607 - 0.02010 * LSRF / AKW

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2005 - December 2005

	DANIEL 1	Jan '05	Feb '05	Mar '05	Apr '05	May '05	Jun '05	
1.	EAF (%)	96.9	79.5	96.9	97.1	97.2	97.1	
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3.	EUOF (%)	3.1	20.5	3.1	2.9	2.8	2.9	
4.	EUOR (%)	3.1	20.5	3.1	2.9	2.8	2.9	
5.	PH	744.0	672.0	744.0	719.0	744.0	720.0	
6.	SH	723.0	536.0	723.0	698.0	723.0	699.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	21.0	136.0	21.0	21.0	21.0	21.0	
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	
10.	FOH & EFOH	23.0	18.0	23.0	21.0	21.0	21.0	
11.	MOH & EMOH	0.0	120.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	3740398.0	2716392.0	3681146.0	3525840.0	3479527.0	3515333.0	
13.	Net Gen (MWH)	370630.0	273499.0	370784.2	354890.8	348824.8	353726.4	
14.	ANOHR (Btu/KWH)	10092.0	9932.0	9928.0	9935.0	9975.0	9938.0	
15.	NOF %	99.7	99.3	99.8	98.9	93.9	98.5	
16.	NPC (MW)	514.0	514.0	514.0	514.0	514.0	514.0	
19.	ANOHR Equation	10^6 / AKW * [382.13 + 83.86 * JAN - 72.84 * OCT] + 9,183						

Issued by: S. N. Story

Filed: September 09, 2004
Suspended:
Effective: January 1, 2005
Docket No.: 040001-EI
Order No.:

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

	DANIEL 1	Jul '05	Aug '05	Sep '05	Oct '05	Nov '05	Dec '05	Total
1.	EAF (%)	97.2	97.2	74.4	0.0	16.3	97.2	79.0
2.	POF (%)	0.0	0.0	23.3	100.0	83.3	0.0	17.3
3.	EUOF (%)	2.8	2.8	2.3	0.0	0.4	2.8	3.7
4.	EUOR (%)	2.8	2.8	2.9	0.0	2.5	2.8	4.5
5.	PH	744.0	744.0	720.0	745.0	720.0	744.0	8760.0
6.	SH	723.0	723.0	536.0	0.0	117.0	723.0	6924.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	21.0	21.0	184.0	745.0	603.0	21.0	1836.0
9.	POH	0.0	0.0	168.0	745.0	600.0	0.0	1513.0
10.	FOH & EFOH	21.0	21.0	16.0	0.0	3.0	21.0	209.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	120.0
12.	Oper MBtu	3680417.0	3678337.0	2714966.0	0.0	572843.0	3674340.0	34979539.0
13.	Net Gen (MWH)	370710.8	370464.0	273355.4	0.0	57514.4	370024.2	3514424.0
14.	ANOHR (Btu/KWH)	9928.0	9929.0	9932.0	-	9960.0	9930.0	9953.0
15.	NOF %	99.8	99.7	99.2	0.0	95.6	99.6	98.7
16.	NPC (MW)	514.0	514.0	514.0	514.0	514.0	514.0	514.0

19.	ANOHR Equation	10^6 / AKW * [382.13 + 83.86 * JAN - 72.84 * OCT] + 9,183

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Order No.:

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2005 - December 2005

	DANIEL 2	Jan '05	Feb '05	Mar '05	Apr '05	May '05	Jun '05	
1.	EAF (%)	97.3	90.3	12.5	87.5	97.3	97.2	
2.	POF (%)	0.0	0.0	87.1	10.0	0.0	0.0	
3.	EUOF (%)	2.7	9.7	0.4	2.5	2.7	2.8	
4.	EUOR (%)	2.7	9.7	3.1	2.8	2.7	2.8	
5.	PH	744.0	672.0	744.0	719.0	744.0	720.0	
6.	SH	724.0	607.0	93.0	629.0	724.0	700.0	
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	
8.	UH	20.0	65.0	651.0	90.0	20.0	20.0	
9.	POH	0.0	0.0	648.0	72.0	0.0	0.0	
10.	FOH & EFOH	20.0	17.0	3.0	18.0	20.0	20.0	
11.	MOH & EMOH	0.0	48.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	3516213.0	2966433.0	457762.0	3166515.0	3472108.0	3485778.0	
13.	Net Gen (MWH)	371261.0	310784.0	47535.0	320044.0	353827.4	356382.6	
14.	ANOHR (Btu/KWH)	9471.0	9545.0	9630.0	9894.0	9813.0	9781.0	
15.	NOF %	99.8	99.6	99.4	99.0	95.1	99.1	
16.	NPC (MW)	514.0	514.0	514.0	514.0	514.0	514.0	

19.	ANOHR Equation	10^6 / AKW * [1305.50 - 156.38 * JAN - 119.09 * FEB - 75.83 * MAR + 57.36 * APR] + 3,696 + 0.00694 * LSRF / AKW

Issued by: S. N. Story

Filed: September 09, 2004
Suspended:
Effective: January 1, 2005
Docket No.: 040001-EI
Order No.:

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2005 - December 2005

	DANIEL 2	Jul '05	Aug '05	Sep '05	Oct '05	Nov '05	Dec '05	Total
1.	EAF (%)	97.3	97.3	97.2	91.0	96.9	97.0	88.2
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	8.2
3.	EUOF (%)	2.7	2.7	2.8	9.0	3.1	3.0	3.6
4.	EUOR (%)	2.7	2.7	2.8	9.0	3.1	3.0	3.9

7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	20.0	20.0	20.0	67.0	20.0	20.0	1033.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	720.0
10.	FOH & EFOH	20.0	20.0	20.0	19.0	22.0	22.0	221.0
11.	MOH & EMOH	0.0	0.0	0.0	48.0	0.0	0.0	96.0
12.	Oper MBtu	3630269.0	3628782.0	3503422.0	3383866.0	3492833.0	3628587.0	38332568.0
13.	Net Gen (MWH)	371345.0	371155.0	358333.0	345998.6	357140.4	371135.0	3934941.0
14.	ANOHR (Btu/KWH)	9776.0	9777.0	9777.0	9780.0	9780.0	9777.0	9742.0
15.	NOF %	99.8	99.7	99.6	99.3	99.3	99.7	99.1
16.	NPC (MW)	514.0	514.0	514.0	514.0	514.0	514.0	514.0

19.	ANOHR Equation	10^6 / AKW * [1305.50 - 156.38 * JAN - 119.09 * FEB - 75.83 * MAR + 57.36 * APR] + 3,696 + 0.00694 * LSRF / AKW

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Docket No.: 040001-EI
Order No.:

Planned Outage Schedules (Estimated)

Gulf Power Company

Period of: January 2005 - December 2005

Plant & Unit	Planned Outage Dates			Reason for Outage
Crist 6	09/10/05	-	11/20/05	SNCR installation and general boiler maintenance and inspection.
Crist 7	01/29/05	-	04/17/05	SCR tie-in and general boiler maintenance and inspection.
Smith 1	10/22/05	-	11/20/05	General boiler maintenance and inspection.
Smith 2	02/19/05	-	05/01/05	Major turbine outage and boiler inspection.
Daniel 1	09/24/05	-	11/25/05	General boiler maintenance and inspection.
Daniel 2	03/05/05	-	04/03/05	General boiler maintenance and inspection.

Notes Regarding Estimated Planned Outage Schedules

Gulf Power Company

Period of: January 2005 - December 2005

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 2005 - December 2005, the outages shown below are currently planned and could be rescheduled for the target period.

Plant & Unit	**Planned Outage** Dates	Reason for Outage

None

Filed: September 09, 2004
Suspended:
Effective: January 1, 2005
Docket No.: 040001-EI
Order No.:

AFFIDAVIT

STATE OF FLORIDA)
)
COUNTY OF ESCAMBIA)

Docket No. 040001-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 7th day of September, 2004.

Linda C. Webb
Notary Public, State of Florida at Large

Commission Number: 110088

Commission Expires: May 31, 2006

LINDA C. WEBB
Notary Public-State of FL
Comm. Exp: May 31, 2006
Comm. No: DD 110088