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GULF POWER
A SOUTHERN COMPANY

January 9, 1998

Ms. Blanca S. Bayo, Director
Division of Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee FL 32399-0871

Dear Ms. Bayo:

Enclosed for official filing in Docket No. 980001-EI are an original and ten copies of the following:

1. Petition of Gulf Power Company for Approval of Final Fuel Cost True-up Amounts and GPIF Adjustment for April 1997 through September 1997; Estimated Fuel Cost True-up Amounts for October 1997 through March 1998; Projected Fuel Cost Recovery Amounts for April 1998 through September 1998; GPIF Targets and Ranges for April 1998 through September 1998; Estimated As-available Avoided Energy Costs and Fuel Cost Recovery Factors to be applied beginning with the period April 1998 through September 1998.
2. Prepared direct testimony and exhibit of M. F. Oaks.
3. Prepared direct testimony and exhibit of G. D. Fontaine.
4. Prepared direct testimony and exhibit of M. W. Howell.
5. Prepared direct testimony and exhibit of S. D. Cranmer.

ACK ____
AFA Vandiver
APP ____
CAF ____
CMU ____
CTR ____
EAG ____
LEG 1
LIN 3 + orig ltr
OPC ____
RCH ____
SEC 1
WAS ____
OTH Petition

DOCUMENT NUMBER-DATE
00569 JAN 12 98
FPSC RECORDS/REPORTING

Oaks
DOCUMENT NUMBER-DATE
00570 JAN 12 98
FPSC RECORDS/REPORTING

Fontaine
DOCUMENT NUMBER-DATE
00571 JAN 12 98
FPSC RECORDS/REPORTING

Cranmer
DOCUMENT NUMBER-DATE
00572 JAN 12 98

Howell
DOCUMENT NUMBER-DATE
00573 JAN 12 98

98 JAN 12 AM 7:51
MAIL ROOM

Also enclosed is a 3.5 inch double sided, double density diskette containing the Petition in WordPerfect for Windows 6.1 format as prepared on a MS-DOS based computer.

Sincerely,

Susan D. Cranmer

Susan D. Cranmer
Assistant Secretary and Assistant Treasurer

lw

Enclosures

cc: Beggs and Lane
Jeffrey A. Stone, Esquire

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

IN RE: Fuel and Purchased Power Cost Recovery Clause with Generating Performance Incentive Factor	))))	Docket No. 980001-EI

Certificate of Service

I HEREBY CERTIFY that a true copy of the foregoing was furnished by hand delivery or the U. S. Mail this 9th day of January 1998 on the following:

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GULF POWER COMPANY
TESTIMONY AND EXHIBITS OF
G. D. FONTAINE

GENERATING PERFORMANCE INCENTIVE FACTOR

TARGETS FOR

APRIL 1998 - SEPTEMBER 1998

Before

THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NO. 980001-EI

GULF POWER COMPANY
Before the Florida Public Service Commission
Direct Testimony of
G. D. Fontaine
Docket No. 980001-EI
Date of Filing January 12, 1998

Q. Please state your name, address and occupation.

A. My name is George D. Fontaine, my business address is One Energy Place, Pensacola, Florida 32520-0335, and my position is Performance Test Specialist for Gulf Power Company.

Q. Please describe your educational and business background.

A. I received my Bachelor of Mechanical Engineering Degree from Auburn University in 1980. Following graduation, I joined Gulf Power Company as an Associate Engineer at the Scholz Electric Generating Plant, and as I previously stated, my current position is Performance Test Specialist. I am also a registered Professional Engineer in the State of Florida.

Q. Have you previously testified in this Docket?

A. Yes. I have presented testimony regarding the Generating Performance Incentive Factor (GPIF) periodically for the past several years.

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

A. The purpose of my testimony today is to present GPIF targets for Gulf Power Company for the period of April 1, 1998 through September 30, 1998.

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

A. Yes, I have prepared an 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 Mr. Fontaine's exhibit be marked for identification as exhibit _____(GDF-2).

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

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

Q. What are the target heat rates Gulf proposes to use in the GPIF for these units for the performance period April 1, 1998 through September 30, 1998?

A. I would like to refer you to Page 32 of Schedule 1 of my exhibit where these targets are listed.

Q. How were these proposed target heat rates determined?

A. In every case they were determined according to the GPIF implementation manual procedures for Gulf. Page 2 of Schedule 1 shows the target average net operating heat rate equations for the proposed GPIF units, and pages 4 through 29 of Schedule 1 contain the weekly historical data used for the statistical development of these equations.

Pages 30 and 31 of Schedule 1 present the calculations which 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 32 of Schedule 1, calculated according to the appropriate GPIF implementation manual procedures?

A. Yes.

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

A. The target equivalent availabilities and their ranges are listed on page 4 of Schedule 2.

Q. How are these 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.

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, were determined per GPIF manual procedures for Gulf.

Q. Mr. Fontaine, has Gulf completed the GPIF minimum filing requirements data package?

A. Yes, we have completed the required data. Schedule 3 of my exhibit contains this information.

Q. Mr. Fontaine, would you please summarize your testimony?

A. Yes. Gulf asks that the Commission accept:

1. Crist Units 6 and 7, Smith Units 1 and 2 and Daniel Units 1 and 2, for inclusion under the GPIF for the period of April 1, 1998 through September 30, 1998.

2. The target, maximum attainable, and minimum attainable average net operating heat rates, as proposed by the Company and as shown on page 32 of Schedule 1 and also page 5 of Schedule 3 of my exhibit.

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

4. The weekly average net operating heat rate least squares regression equations, shown on page 2 of Schedule 1 and also pages 18 through 23 of Schedule 3 of my exhibit, for use in adjusting the six-month actual unit heat rates to target conditions.

Q. Mr. Fontaine, does this conclude your testimony?

A. Yes, Sir.

Florida Public Service Commission
Docket No. 980001-EI
Gulf Power Company
Witness: G. D. Fontaine
Exhibit No. ___ (GDF-2)

EXHIBIT TO THE TESTIMONY OF

G. D. FONTAINE

IN FPSC DOCKET 980001-EI

I. DETERMINATION OF HEAT RATE TARGETS

Target Heat Rate Equations

Crist 6 ANOHR = 10^6 / AKW * [593.85 - 27.74 * JAN - 40.10 * MAR + 30.09 * JUL + 26.73 * AUG - 25.29 * OCT]

+ 5,067 + 0.01123 * LSRF / AKW

Crist 7 ANOHR = 10^6 / AKW * [276.36 + 63.12 * MAY + 69.54 * JUL]

+ 9,621

Smith 1 ANOHR = 10^6 / AKW * [69.20 + 18.16 * JAN + 12.44 * FEB + 15.12 * MAR - 8.67 * MAY + 10.92 * JUL]

+ 9,744

Smith 2 ANOHR = 10^6 / AKW * [-18.22 + 16.52 * MAR - 13.41 * MAY - 22.56 * SEP - 13.92 * NOV]

+ 10,446

Daniel 1 ANOHR = 10^6 / AKW * [-103.81 - 44.15 * MAR - 40.19 * NOV]

+ 12,196 - 0.00343 * LSRF / AKW

Daniel 2 ANOHR = 10^6 / AKW * [218.47 + 30.22 * MAY + 42.12 * SEP]

+ 9,738

Where:

ANOHR =	Average Net Operating Heat Rate, BTU/KWH
AKW =	Average Kilowatt Load, KW
LSRF =	Load Square Range Factor, KW^2
JAN =	January, 0 if not January, 1 if January
FEB =	February, 0 if not February, 1 if February
MAR =	March, 0 if not March, 1 if March
APR =	April, 0 if not April, 1 if April
MAY =	May, 0 if not May, 1 if May
JUN =	June, 0 if not June, 1 if June
JUL =	July, 0 if not July, 1 if July
AUG =	August, 0 if not August, 1 if August
SEP =	September, 0 if not September, 1 if September
OCT =	October, 0 if not October, 1 if October
NOV =	November, 0 if not November, 1 if November

WEEKLY UNIT OPERATING

DATA USED TO DEVELOP

TARGET HEAT RATE EQUATIONS

Data Base for CRIST 6 Target Heat Rate Equation

HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10892	168	161.9	30394	0	0	0	0	0	0	0	0	0	1	0	0	1994
10723	168	170.3	32759	0	0	0	0	0	0	0	0	0	1	0	0	1994
10729	168	162.7	30658	0	0	0	0	0	0	0	0	0	1	0	0	1994
10935	35	134.7	20990	0	0	0	0	0	0	0	0	0	1	0	0	1994
10465	118	200.1	44824	0	0	0	0	0	0	0	0	0	0	1	1	1994
10693	168	160.2	30716	0	0	0	0	0	0	0	0	0	0	1	0	1994
10719	167	164.7	33123	0	0	0	0	0	0	0	0	0	0	1	0	1994
10667	168	165.4	32855	0	0	0	0	0	0	0	0	0	0	1	0	1994
11130	156	139.5	21148	0	0	0	0	0	0	0	0	0	0	0	1	1994
11224	168	126.3	16962	0	0	0	0	0	0	0	0	0	0	0	0	1994
10911	155	135.9	19918	1	0	0	0	0	0	0	0	0	0	0	0	1995
12476	43	122.3	15915	1	0	0	0	0	0	0	0	0	0	0	2	1995
11037	161	146.8	23697	0	1	0	0	0	0	0	0	0	0	0	0	1995
11265	134	127.7	17434	0	1	0	0	0	0	0	0	0	0	0	1	1995
11471	168	126.8	16967	0	1	0	0	0	0	0	0	0	0	0	0	1995
11212	19	126.0	16086	0	1	0	0	0	0	0	0	0	0	0	0	1995
11661	28	145.5	22787	0	0	1	0	0	0	0	0	0	0	0	1	1995
11506	106	124.9	16409	0	0	1	0	0	0	0	0	0	0	0	0	1995
12227	16	121.2	15206	0	0	1	0	0	0	0	0	0	0	0	1	1995
11168	168	133.1	18696	0	0	1	0	0	0	0	0	0	0	0	0	1995
11023	167	160.6	31249	0	0	0	1	0	0	0	0	0	0	0	0	1995
11259	143	139.9	22998	0	0	0	1	0	0	0	0	0	0	0	0	1995
11199	154	172.5	35840	0	0	0	1	0	0	0	0	0	0	0	1	1995
12451	11	107.4	12726	0	0	0	1	0	0	0	0	0	0	0	0	1995
11490	107	138.7	22485	0	0	0	0	1	0	0	0	0	0	0	1	1995
11286	168	148.2	25839	0	0	0	0	1	0	0	0	0	0	0	0	1995
11169	168	180.9	38194	0	0	0	0	1	0	0	0	0	0	0	0	1995
11121	168	176.0	38226	0	0	0	0	1	0	0	0	0	0	0	0	1995
11501	168	138.4	21466	0	0	0	0	1	0	0	0	0	0	0	0	1995
10949	168	195.4	44859	0	0	0	0	0	1	0	0	0	0	0	0	1995
11345	104	155.7	29441	0	0	0	0	0	1	0	0	0	0	0	0	1995
11218	76	159.0	29713	0	0	0	0	0	1	0	0	0	0	0	2	1995
10640	168	210.3	50639	0	0	0	0	0	1	0	0	0	0	0	0	1995
11418	108	150.1	26757	0	0	0	0	0	0	1	0	0	0	0	1	1995
11025	168	184.4	40441	0	0	0	0	0	0	1	0	0	0	0	0	1995
10903	168	192.9	43860	0	0	0	0	0	0	1	0	0	0	0	0	1995
10916	168	184.3	38638	0	0	0	0	0	0	1	0	0	0	0	0	1995
11159	168	176.6	36791	0	0	0	0	0	0	0	1	0	0	0	0	1995
11188	168	178.2	36748	0	0	0	0	0	0	0	1	0	0	0	0	1995
11109	168	230.1	60291	0	0	0	0	0	0	0	1	0	0	0	0	1995
10928	168	210.7	50719	0	0	0	0	0	0	0	1	0	0	0	0	1995
11305	168	188.4	40732	0	0	0	0	0	0	0	1	0	0	0	0	1995
12225	108	119.8	15657	0	0	0	0	0	0	0	0	1	0	0	0	1995
11991	116	155.8	26778	0	0	0	0	0	0	0	0	1	0	0	1	1995
11784	76	162.9	30184	0	0	0	0	0	0	0	0	1	0	0	1	1995
10808	132	170.8	34980	0	0	0	0	0	0	0	0	0	1	0	1	1995
10662	168	171.6	35309	0	0	0	0	0	0	0	0	0	1	0	0	1995

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
	10953	169	163.4	32659	0	0	0	0	0	0	0	0	0	0	1	0	1995
	11235	168	179.6	39233	0	0	0	0	0	0	0	0	0	0	1	0	1995
	11656	168	128.3	17397	0	0	0	0	0	0	0	0	0	0	1	0	1995
	11883	16	108.2	12082	0	0	0	0	0	0	0	0	0	0	1	0	1995
	11055	95	161.3	38710	0	0	0	0	0	0	0	0	0	0	0	1	1995
	10716	88	166.7	31221	0	0	0	0	0	0	0	0	0	0	0	0	1995
	10828	159	144.8	23548	1	0	0	0	0	0	0	0	0	0	0	1	1996
	10832	168	149.5	26310	1	0	0	0	0	0	0	0	0	0	0	0	1996
	10875	168	131.2	17895	1	0	0	0	0	0	0	0	0	0	0	0	1996
	10852	168	164.9	31223	1	0	0	0	0	0	0	0	0	0	0	0	1996
	10431	168	238.0	60081	0	1	0	0	0	0	0	0	0	0	0	0	1996
	10299	168	192.6	39064	0	1	0	0	0	0	0	0	0	0	0	0	1996
	10463	168	178.3	33845	0	1	0	0	0	0	0	0	0	0	0	0	1996
	10882	168	167.9	31291	0	1	0	0	0	0	0	0	0	0	0	0	1996
	10528	168	206.2	49907	0	0	1	0	0	0	0	0	0	0	0	0	1996
	10872	150	158.4	29348	0	0	1	0	0	0	0	0	0	0	0	0	1996
	10677	168	155.0	26646	0	0	1	0	0	0	0	0	0	0	0	0	1996
	10809	168	139.1	20373	0	0	1	0	0	0	0	0	0	0	0	0	1996
	11129	24	130.0	16928	0	0	1	0	0	0	0	0	0	0	0	0	1996
	10918	167	160.1	29483	0	0	0	1	0	0	0	0	0	0	0	0	1996
	10897	168	144.1	22781	0	0	0	1	0	0	0	0	0	0	0	0	1996
	11024	159	160.2	29526	0	0	0	1	0	0	0	0	0	0	0	0	1996
	10954	168	150.2	25419	0	0	0	1	0	0	0	0	0	0	0	0	1996
	10561	168	179.0	36527	0	0	0	0	1	0	0	0	0	0	0	0	1996
	10827	168	160.7	28941	0	0	0	0	1	0	0	0	0	0	0	0	1996
*	7815	7	98.9	10077	0	0	0	0	1	0	0	0	0	0	0	0	1996
	11704	77	119.2	14516	0	0	0	0	1	0	0	0	0	0	0	1	1996
	10771	168	150.6	24664	0	0	0	0	0	1	0	0	0	0	0	0	1996
	10497	168	165.5	31083	0	0	0	0	0	1	0	0	0	0	0	0	1996
	10510	155	182.1	38418	0	0	0	0	0	1	0	0	0	0	0	0	1996
	10433	168	188.3	39686	0	0	0	0	0	1	0	0	0	0	0	0	1996
	10554	168	166.0	32167	0	0	0	0	0	0	1	0	0	0	0	0	1996
	10506	168	189.1	40435	0	0	0	0	0	0	1	0	0	0	0	0	1996
	10437	168	208.4	48527	0	0	0	0	0	0	1	0	0	0	0	0	1996
	10660	168	174.1	34747	0	0	0	0	0	0	1	0	0	0	0	0	1996
	10594	168	179.8	37388	0	0	0	0	0	0	0	1	0	0	0	0	1996
	10555	168	185.8	40687	0	0	0	0	0	0	0	1	0	0	0	0	1996
	10635	168	177.1	36296	0	0	0	0	0	0	0	1	0	0	0	0	1996
	10574	168	166.9	30468	0	0	0	0	0	0	0	1	0	0	0	0	1996
	10800	168	143.3	23026	0	0	0	0	0	0	0	1	0	0	0	0	1996
	10577	168	170.0	32930	0	0	0	0	0	0	0	0	1	0	0	0	1996
	10559	168	164.6	32612	0	0	0	0	0	0	0	0	1	0	0	0	1996
	10645	168	186.3	42682	0	0	0	0	0	0	0	0	1	0	0	0	1996
	10544	168	185.4	41787	0	0	0	0	0	0	0	0	1	0	0	0	1996
	10660	24	150.4	27195	0	0	0	0	0	0	0	0	1	0	0	0	1996
	10934	168	137.4	20296	0	0	0	0	0	0	0	0	0	1	0	0	1996
	10769	168	139.4	20831	0	0	0	0	0	0	0	0	0	1	0	0	1996

Data Base for CRIST 6 Target Heat Rate Equation

HR	HOUR	ANN	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10484	168	156.3	27865	0	0	0	0	0	0	0	0	0	1	0	0	1996
10613	169	162.6	30049	0	0	0	0	0	0	0	0	0	1	0	0	1996
10882	168	141.1	21315	0	0	0	0	0	0	0	0	0	0	1	0	1996
11015	168	142.8	22265	0	0	0	0	0	0	0	0	0	0	1	0	1996
10666	168	171.6	32771	0	0	0	0	0	0	0	0	0	0	1	0	1996
10652	152	160.2	27575	0	0	0	0	0	0	0	0	0	0	1	0	1996
11712	20	145.9	23325	0	0	0	0	0	0	0	0	0	0	0	1	1996
10980	168	142.8	21954	0	0	0	0	0	0	0	0	0	0	0	0	1996
10660	160	169.5	33373	0	0	0	0	0	0	0	0	0	0	0	0	1996
11318	158	120.6	14901	0	0	0	0	0	0	0	0	0	0	0	0	1996
11191	168	125.7	17423	1	0	0	0	0	0	0	0	0	0	0	0	1997
10847	168	147.7	24075	1	0	0	0	0	0	0	0	0	0	0	0	1997
10676	168	167.5	31788	1	0	0	0	0	0	0	0	0	0	0	0	1997
10711	168	140.5	20753	1	0	0	0	0	0	0	0	0	0	0	0	1997
10626	133	177.7	36651	1	0	0	0	0	0	0	0	0	0	0	0	1997
12327	22	122.4	15294	0	1	0	0	0	0	0	0	0	0	0	1	1997
10918	93	144.1	22329	0	1	0	0	0	0	0	0	0	0	0	1	1997
10948	46	135.4	18587	0	0	1	0	0	0	0	0	0	0	0	0	1997
11479	26	123.3	15940	0	0	1	0	0	0	0	0	0	0	0	1	1997
11031	91	126.4	16459	0	0	1	0	0	0	0	0	0	0	0	0	1997
11614	25	124.6	16021	0	0	1	0	0	0	0	0	0	0	0	1	1997
10807	167	149.0	23780	0	0	0	1	0	0	0	0	0	0	0	0	1997
10694	168	148.4	23603	0	0	0	1	0	0	0	0	0	0	0	0	1997
10617	168	172.8	33320	0	0	0	1	0	0	0	0	0	0	0	0	1997
10511	168	202.4	46310	0	0	0	1	0	0	0	0	0	0	0	0	1997
10724	99	170.2	33466	0	0	0	0	1	0	0	0	0	0	0	0	1997
11029	141	149.7	27563	0	0	0	0	1	0	0	0	0	0	0	1	1997
10403	168	198.0	42852	0	0	0	0	1	0	0	0	0	0	0	0	1997
10866	168	157.9	32869	0	0	0	0	1	0	0	0	0	0	0	0	1997
10818	167	162.4	30606	0	0	0	0	1	0	0	0	0	0	0	0	1997
11330	168	133.0	20826	0	0	0	0	0	1	0	0	0	0	0	0	1997
11102	168	174.3	35632	0	0	0	0	0	1	0	0	0	0	0	0	1997
10818	168	187.2	40880	0	0	0	0	0	1	0	0	0	0	0	0	1997
10943	169	179.6	37652	0	0	0	0	0	1	0	0	0	0	0	0	1997
10883	168	208.7	50498	0	0	0	0	0	0	1	0	0	0	0	0	1997
11483	168	155.8	27723	0	0	0	0	0	0	1	0	0	0	0	0	1997
11234	168	162.4	30227	0	0	0	0	0	0	1	0	0	0	0	0	1997
10901	168	213.4	50938	0	0	0	0	0	0	1	0	0	0	0	0	1997
10871	168	178.9	37117	0	0	0	0	0	0	0	1	0	0	0	0	1997
11006	168	173.3	34804	0	0	0	0	0	0	0	1	0	0	0	0	1997
10539	168	222.2	54505	0	0	0	0	0	0	0	1	0	0	0	0	1997
10554	168	208.3	49645	0	0	0	0	0	0	0	1	0	0	0	0	1997
10616	168	201.2	48706	0	0	0	0	0	0	0	1	0	0	0	0	1997
10560	168	212.0	52281	0	0	0	0	0	0	0	0	1	0	0	0	1997
10516	117	213.7	53660	0	0	0	0	0	0	0	0	1	0	0	1	1997
10373	165	228.3	58801	0	0	0	0	0	0	0	0	1	0	0	0	1997
10831	168	179.8	37447	0	0	0	0	0	0	0	0	1	0	0	0	1997
10574	18	195.0	45296	0	0	0	0	0	0	0	0	1	0	0	0	1997

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
10729	79	271.9	84610	0	0	0	0	0	0	0	0	0	1	0	0	1994
10359	102	349.0	139017	0	0	0	0	0	0	0	0	0	1	0	1	1994
10326	168	330.3	125548	0	0	0	0	0	0	0	0	0	1	0	0	1994
10180	169	363.6	147970	0	0	0	0	0	0	0	0	0	0	1	0	1994
10348	47	322.1	112739	0	0	0	0	0	0	0	0	0	0	1	0	1994
10923	68	295.6	105226	0	0	0	0	0	0	0	0	0	0	1	1	1994
10601	166	300.1	104849	0	0	0	0	0	0	0	0	0	0	0	0	1994
10556	158	296.8	100241	0	0	0	0	0	0	0	0	0	0	0	0	1994
10495	15	205.8	42470	0	0	0	0	0	0	0	0	0	0	0	0	1994
11063	91	241.4	64833	1	0	0	0	0	0	0	0	0	0	0	1	1995
11144	168	205.8	44161	1	0	0	0	0	0	0	0	0	0	0	0	1995
10772	168	242.8	67240	1	0	0	0	0	0	0	0	0	0	0	0	1995
10876	168	243.0	66794	1	0	0	0	0	0	0	0	0	0	0	0	1995
10936	168	230.0	57242	1	0	0	0	0	0	0	0	0	0	0	0	1995
10934	168	254.9	73444	0	1	0	0	0	0	0	0	0	0	0	0	1995
11275	81	193.2	40317	0	1	0	0	0	0	0	0	0	0	0	0	1995
11017	148	248.3	68699	0	1	0	0	0	0	0	0	0	0	0	1	1995
10906	168	258.3	77339	0	0	1	0	0	0	0	0	0	0	0	0	1995
11078	100	214.4	48212	0	0	1	0	0	0	0	0	0	0	0	1	1995
10784	168	264.9	82110	0	0	1	0	0	0	0	0	0	0	0	0	1995
10956	168	240.3	63954	0	0	1	0	0	0	0	0	0	0	0	0	1995
11139	167	198.8	39985	0	0	0	1	0	0	0	0	0	0	0	0	1995
10817	168	243.3	68305	0	0	0	1	0	0	0	0	0	0	0	0	1995
10857	168	294.5	104401	0	0	0	1	0	0	0	0	0	0	0	0	1995
11092	168	226.9	55323	0	0	0	1	0	0	0	0	0	0	0	0	1995
11156	168	220.1	53031	0	0	0	0	1	0	0	0	0	0	0	0	1995
10844	168	288.2	98355	0	0	0	0	1	0	0	0	0	0	0	0	1995
10719	163	430.2	189076	0	0	0	0	1	0	0	0	0	0	0	0	1995
13009	13	160.7	29024	0	0	0	0	1	0	0	0	0	0	0	1	1995
10873	147	246.7	70268	0	0	0	0	1	0	0	0	0	0	0	0	1995
10854	142	348.1	138690	0	0	0	0	0	1	0	0	0	0	0	1	1995
10770	168	303.1	108842	0	0	0	0	0	1	0	0	0	0	0	0	1995
10442	168	327.0	120485	0	0	0	0	0	1	0	0	0	0	0	0	1995
10567	164	362.1	144713	0	0	0	0	0	1	0	0	0	0	0	0	1995
11142	44	299.2	102050	0	0	0	0	0	0	1	0	0	0	0	1	1995
10519	168	344.2	134198	0	0	0	0	0	0	1	0	0	0	0	0	1995
10925	168	339.1	131113	0	0	0	0	0	0	1	0	0	0	0	0	1995
10982	168	364.3	149818	0	0	0	0	0	0	1	0	0	0	0	0	1995
11032	168	323.6	119955	0	0	0	0	0	0	0	1	0	0	0	0	1995
11119	168	287.2	88123	0	0	0	0	0	0	0	1	0	0	0	0	1995
10711	168	374.6	154031	0	0	0	0	0	0	0	1	0	0	0	0	1995
10809	95	338.2	134595	0	0	0	0	0	0	0	1	0	0	0	1	1995
10543	168	344.1	136056	0	0	0	0	0	0	0	1	0	0	0	0	1995
10733	168	282.8	91224	0	0	0	0	0	0	0	0	1	0	0	0	1995
10679	168	312.5	110739	0	0	0	0	0	0	0	0	1	0	0	0	1995
10885	168	308.9	108831	0	0	0	0	0	0	0	0	1	0	0	0	1995
10635	168	301.5	103574	0	0	0	0	0	0	0	0	1	0	0	0	1995

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
11215	142	273.8	87823	0	0	0	0	0	0	0	0	0	1	0	1	1995
10941	168	266.8	79461	0	0	0	0	0	0	0	0	0	1	0	0	1995
10959	81	234.4	61078	0	0	0	0	0	0	0	0	0	1	0	0	1995
11121	130	217.9	49689	0	0	0	0	0	0	0	0	0	0	1	1	1995
11028	168	212.7	45428	0	0	0	0	0	0	0	0	0	0	1	0	1995
10574	168	288.4	91484	0	0	0	0	0	0	0	0	0	0	1	0	1995
10507	168	276.9	84402	0	0	0	0	0	0	0	0	0	0	0	0	1995
10432	168	285.2	90178	0	0	0	0	0	0	0	0	0	0	0	0	1995
10715	168	263.4	76353	0	0	0	0	0	0	0	0	0	0	0	0	1995
10802	168	232.0	56361	0	0	0	0	0	0	0	0	0	0	0	0	1995
10792	168	225.7	53489	1	0	0	0	0	0	0	0	0	0	0	0	1996
10625	168	271.8	82007	1	0	0	0	0	0	0	0	0	0	0	0	1996
10782	168	236.6	59917	1	0	0	0	0	0	0	0	0	0	0	0	1996
10801	168	222.1	50497	1	0	0	0	0	0	0	0	0	0	0	0	1996
10936	109	249.6	68586	1	0	0	0	0	0	0	0	0	0	0	0	1996
14771	6	136.2	22160	0	1	0	0	0	0	0	0	0	0	0	1	1996
10176	90	224.2	57425	0	0	0	0	1	0	0	0	0	0	0	2	1996
10672	165	326.8	121362	0	0	0	0	1	0	0	0	0	0	0	0	1996
10533	149	209.7	47211	0	0	0	0	1	0	0	0	0	0	0	0	1996
10433	166	259.4	76354	0	0	0	0	0	1	0	0	0	0	0	0	1996
10316	168	310.1	110729	0	0	0	0	0	1	0	0	0	0	0	0	1996
10509	124	293.7	100919	0	0	0	0	0	1	0	0	0	0	0	1	1996
10183	168	346.1	135604	0	0	0	0	0	1	0	0	0	0	0	0	1996
10307	168	314.1	114054	0	0	0	0	0	0	1	0	0	0	0	0	1996
10406	98	340.2	130649	0	0	0	0	0	0	1	0	0	0	0	0	1996
10610	126	351.9	141120	0	0	0	0	0	0	1	0	0	0	0	1	1996
10340	168	317.9	115896	0	0	0	0	0	0	1	0	0	0	0	0	1996
10427	163	335.5	130760	0	0	0	0	0	0	0	1	0	0	0	0	1996
10393	165	323.7	122079	0	0	0	0	0	0	0	1	0	0	0	0	1996
10449	163	319.1	119372	0	0	0	0	0	0	0	1	0	0	0	0	1996
10300	168	323.3	120367	0	0	0	0	0	0	0	1	0	0	0	0	1996
10532	168	261.3	79233	0	0	0	0	0	0	0	1	0	0	0	0	1996
10428	168	356.4	146668	0	0	0	0	0	0	0	0	1	0	0	0	1996
10693	123	254.1	78190	0	0	0	0	0	0	0	0	1	0	0	1	1996
10392	163	309.4	113465	0	0	0	0	0	0	0	0	1	0	0	0	1996
10341	168	311.0	114394	0	0	0	0	0	0	0	0	1	0	0	0	1996
10781	24	199.5	40331	0	0	0	0	0	0	0	0	1	0	0	0	1996
10638	167	243.2	66326	0	0	0	0	0	0	0	0	0	1	0	0	1996
10660	168	235.0	60222	0	0	0	0	0	0	0	0	0	1	0	0	1996
10408	168	290.0	97416	0	0	0	0	0	0	0	0	0	1	0	0	1996
10266	169	310.8	107010	0	0	0	0	0	0	0	0	0	1	0	0	1996
10396	168	263.2	77262	0	0	0	0	0	0	0	0	0	0	1	0	1996
10515	168	274.9	85513	0	0	0	0	0	0	0	0	0	0	1	0	1996
10539	163	269.2	80429	0	0	0	0	0	0	0	0	0	0	1	0	1996
10504	95	332.6	121814	0	0	0	0	0	0	0	0	0	0	1	0	1996
10448	168	285.2	91265	0	0	0	0	0	0	0	0	0	0	0	1	1996
10660	106	231.0	60278	0	0	0	0	0	0	0	0	0	0	0	0	1996

Data Base for CRIST 7 Target Heat Rate Equation

NR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10088	38	280.7	93284	1	0	0	0	0	0	0	0	0	0	0	1	1997
10332	166	309.0	108716	1	0	0	0	0	0	0	0	0	0	0	0	1997
10378	159	387.8	163663	1	0	0	0	0	0	0	0	0	0	0	0	1997
10455	97	267.8	79059	1	0	0	0	0	0	0	0	0	0	0	1	1997
10497	135	311.1	114813	1	0	0	0	0	0	0	0	0	0	0	1	1997
10267	165	301.8	102582	0	1	0	0	0	0	0	0	0	0	0	0	1997
10430	133	341.3	133210	0	1	0	0	0	0	0	0	0	0	0	1	1997
10556	168	284.9	92189	0	1	0	0	0	0	0	0	0	0	0	0	1997
10443	102	277.4	88087	0	1	0	0	0	0	0	0	0	0	0	0	1997
10627	104	259.7	74032	0	0	1	0	0	0	0	0	0	0	0	2	1997
10636	140	221.6	54325	0	0	1	0	0	0	0	0	0	0	0	0	1997
10624	131	247.2	66973	0	0	1	0	0	0	0	0	0	0	0	2	1997
10558	168	278.4	83495	0	0	1	0	0	0	0	0	0	0	0	0	1997
10358	167	343.1	131827	0	0	0	1	0	0	0	0	0	0	0	0	1997
10304	166	357.9	143356	0	0	0	1	0	0	0	0	0	0	0	0	1997
10558	142	352.2	137891	0	0	0	1	0	0	0	0	0	0	0	1	1997
10192	63	373.8	155010	0	0	0	1	0	0	0	0	0	0	0	0	1997
* 20529	7	140.3	22105	0	0	0	0	1	0	0	0	0	0	0	1	1997
11310	48	210.2	50548	0	0	0	0	0	1	0	0	0	0	0	1	1997
10768	101	288.6	105293	0	0	0	0	0	1	0	0	0	0	0	2	1997
10553	128	335.9	133952	0	0	0	0	0	1	0	0	0	0	0	1	1997
10672	168	351.3	142934	0	0	0	0	0	1	0	0	0	0	0	0	1997
10735	166	358.9	149824	0	0	0	0	0	0	1	0	0	0	0	0	1997
10429	168	369.2	156851	0	0	0	0	0	0	1	0	0	0	0	0	1997
10577	168	355.0	145792	0	0	0	0	0	0	1	0	0	0	0	0	1997
10732	168	380.6	162265	0	0	0	0	0	0	1	0	0	0	0	0	1997
10625	122	320.7	126085	0	0	0	0	0	0	0	1	0	0	0	1	1997
10620	122	330.2	131125	0	0	0	0	0	0	0	1	0	0	0	1	1997
10238	168	415.8	185966	0	0	0	0	0	0	0	1	0	0	0	0	1997
9999	168	397.6	175594	0	0	0	0	0	0	0	1	0	0	0	0	1997
10221	168	379.3	163604	0	0	0	0	0	0	0	1	0	0	0	0	1997
10206	168	401.5	179966	0	0	0	0	0	0	0	0	1	0	0	0	1997
10357	150	390.5	173153	0	0	0	0	0	0	0	0	1	0	0	0	1997
9976	163	430.0	197475	0	0	0	0	0	0	0	0	1	0	0	0	1997
10263	168	374.6	156330	0	0	0	0	0	0	0	0	1	0	0	0	1997
10417	24	334.4	123221	0	0	0	0	0	0	0	0	1	0	0	0	1997

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	LSRP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10262	168	138.4	20164	0	0	0	0	0	0	0	0	0	1	0	0	1994
10282	168	140.2	20519	0	0	0	0	0	0	0	0	0	1	0	0	1994
10140	168	132.6	18755	0	0	0	0	0	0	0	0	0	1	0	0	1994
10369	168	134.1	19048	0	0	0	0	0	0	0	0	0	1	0	0	1994
10291	169	139.2	20262	0	0	0	0	0	0	0	0	0	0	1	0	1994
10271	168	142.8	20709	0	0	0	0	0	0	0	0	0	0	1	0	1994
10185	168	136.0	19670	0	0	0	0	0	0	0	0	0	0	1	0	1994
10224	141	128.5	17951	0	0	0	0	0	0	0	0	0	0	1	0	1994
10299	115	137.6	20146	0	0	0	0	0	0	0	0	0	0	1	1	1994
10481	168	128.9	18412	0	0	0	0	0	0	0	0	0	0	0	0	1994
10419	168	136.7	19814	0	0	0	0	0	0	0	0	0	0	0	0	1994
10301	168	135.6	19512	0	0	0	0	0	0	0	0	0	0	0	0	1994
10329	168	126.0	17079	0	0	0	0	0	0	0	0	0	0	0	0	1994
10310	168	155.2	24312	1	0	0	0	0	0	0	0	0	0	0	0	1995
10387	168	154.6	24256	1	0	0	0	0	0	0	0	0	0	0	0	1995
10300	168	158.4	25108	1	0	0	0	0	0	0	0	0	0	0	0	1995
10342	168	157.8	24903	1	0	0	0	0	0	0	0	0	0	0	0	1995
10471	151	143.8	21707	1	0	0	0	0	0	0	0	0	0	0	0	1995
10373	168	157.2	24878	0	1	0	0	0	0	0	0	0	0	0	0	1995
10107	168	149.9	22965	0	1	0	0	0	0	0	0	0	0	0	0	1995
10245	168	141.6	21182	0	1	0	0	0	0	0	0	0	0	0	0	1995
10138	168	150.2	22814	0	1	0	0	0	0	0	0	0	0	0	0	1995
10174	168	151.8	23319	0	0	1	0	0	0	0	0	0	0	0	0	1995
10200	168	158.0	25021	0	0	1	0	0	0	0	0	0	0	0	0	1995
10650	168	158.5	25157	0	0	1	0	0	0	0	0	0	0	0	0	1995
10225	168	158.3	25074	0	0	1	0	0	0	0	0	0	0	0	0	1995
10446	167	155.0	24160	0	0	0	1	0	0	0	0	0	0	0	0	1995
10356	163	149.8	22784	0	0	0	1	0	0	0	0	0	0	0	0	1995
10263	149	151.2	23218	0	0	0	0	1	0	0	0	0	0	0	1	1995
10064	168	153.0	23719	0	0	0	0	1	0	0	0	0	0	0	0	1995
10047	168	158.4	25176	0	0	0	0	1	0	0	0	0	0	0	0	1995
10051	168	152.1	23491	0	0	0	0	1	0	0	0	0	0	0	0	1995
10161	168	155.2	24284	0	0	0	0	1	0	0	0	0	0	0	0	1995
10109	168	159.1	25336	0	0	0	0	0	1	0	0	0	0	0	0	1995
10245	168	158.8	25210	0	0	0	0	0	1	0	0	0	0	0	0	1995
10226	111	151.1	23355	0	0	0	0	0	1	0	0	0	0	0	1	1995
10092	168	159.9	25581	0	0	0	0	0	1	0	0	0	0	0	0	1995
10199	168	146.8	22043	0	0	0	0	0	0	1	0	0	0	0	0	1995
10386	168	147.5	22268	0	0	0	0	0	0	1	0	0	0	0	0	1995
10285	168	153.1	23555	0	0	0	0	0	0	1	0	0	0	0	0	1995
10292	168	152.2	23542	0	0	0	0	0	0	1	0	0	0	0	0	1995
10224	168	150.4	22894	0	0	0	0	0	0	0	1	0	0	0	0	1995
10291	168	150.4	22925	0	0	0	0	0	0	0	1	0	0	0	0	1995
10221	168	156.9	24671	0	0	0	0	0	0	0	1	0	0	0	0	1995
10116	168	155.1	24130	0	0	0	0	0	0	0	1	0	0	0	0	1995
10209	168	150.3	22844	0	0	0	0	0	0	0	1	0	0	0	0	1995
10191	168	135.9	19605	0	0	0	0	0	0	0	0	1	0	0	0	1995

Data Base for SMITH 1 Target Heat Rate Equation

MR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10361	168	149.0	22638	0	0	0	0	0	0	0	0	1	0	0	0	1995
10186	168	148.8	22572	0	0	0	0	0	0	0	0	1	0	0	0	1995
10140	168	153.0	23696	0	0	0	0	0	0	0	0	1	0	0	0	1995
9991	24	157.0	24689	0	0	0	0	0	0	0	0	1	0	0	0	1995
10209	168	147.6	22723	0	0	0	0	0	0	0	0	0	1	0	1	1995
10275	168	151.0	23377	0	0	0	0	0	0	0	0	0	1	0	0	1995
10299	168	145.7	21664	0	0	0	0	0	0	0	0	0	1	0	0	1995
10273	168	155.1	24156	0	0	0	0	0	0	0	0	0	1	0	0	1995
10303	135	154.6	24576	0	0	0	0	0	0	0	0	0	0	1	1	1995
10305	168	157.8	24968	0	0	0	0	0	0	0	0	0	0	1	0	1995
10266	168	153.2	23708	0	0	0	0	0	0	0	0	0	0	1	0	1995
10478	141	141.0	20822	0	0	0	0	0	0	0	0	0	0	1	0	1995
12129	21	66.5	4725	0	0	0	0	0	0	0	0	0	0	1	1	1995
10292	168	139.5	20477	0	0	0	0	0	0	0	0	0	0	0	0	1995
10243	168	145.9	21997	0	0	0	0	0	0	0	0	0	0	0	0	1995
10381	168	140.1	20763	0	0	0	0	0	0	0	0	0	0	0	0	1995
10338	168	153.0	23685	0	0	0	0	0	0	0	0	0	0	0	0	1995
10403	168	139.2	20712	1	0	0	0	0	0	0	0	0	0	0	0	1996
10383	168	156.8	24669	1	0	0	0	0	0	0	0	0	0	0	0	1996
10301	168	148.9	22482	1	0	0	0	0	0	0	0	0	0	0	0	1996
10363	168	150.8	23205	1	0	0	0	0	0	0	0	0	0	0	0	1996
10393	168	148.5	22737	1	0	0	0	0	0	0	0	0	0	0	0	1996
10683	168	148.1	22373	0	1	0	0	0	0	0	0	0	0	0	0	1996
10575	168	137.1	19965	0	1	0	0	0	0	0	0	0	0	0	0	1996
10298	168	141.5	20761	0	1	0	0	0	0	0	0	0	0	0	0	1996
10378	168	142.3	20901	0	1	0	0	0	0	0	0	0	0	0	0	1996
10262	168	147.6	22211	0	0	1	0	0	0	0	0	0	0	0	0	1996
10241	168	148.9	22801	0	0	1	0	0	0	0	0	0	0	0	0	1996
10299	168	150.3	23124	0	0	1	0	0	0	0	0	0	0	0	0	1996
10264	168	144.0	21376	0	0	1	0	0	0	0	0	0	0	0	0	1996
10507	24	132.1	18885	0	0	1	0	0	0	0	0	0	0	0	0	1996
10473	108	143.5	21488	0	0	0	1	0	0	0	0	0	0	0	0	1996
10363	41	138.8	20634	0	0	0	1	0	0	0	0	0	0	0	1	1996
10348	168	145.8	22030	0	0	0	1	0	0	0	0	0	0	0	0	1996
10077	168	154.6	24137	0	0	0	0	1	0	0	0	0	0	0	0	1996
10182	168	150.8	23193	0	0	0	0	1	0	0	0	0	0	0	0	1996
10333	168	143.5	21399	0	0	0	0	1	0	0	0	0	0	0	0	1996
10255	168	152.1	23338	0	0	0	0	1	0	0	0	0	0	0	0	1996
10349	168	142.8	21393	0	0	0	0	1	0	0	0	0	0	0	0	1996
10212	168	151.0	23239	0	0	0	0	0	1	0	0	0	0	0	0	1996
10215	160	149.4	22942	0	0	0	0	0	1	0	0	0	0	0	0	1996
10236	168	153.1	23634	0	0	0	0	0	1	0	0	0	0	0	0	1996
10249	168	152.7	23633	0	0	0	0	0	1	0	0	0	0	0	0	1996
10238	168	151.6	23243	0	0	0	0	0	0	1	0	0	0	0	0	1996
10224	168	157.4	24844	0	0	0	0	0	0	1	0	0	0	0	0	1996
10184	168	158.3	25073	0	0	0	0	0	0	1	0	0	0	0	0	1996
10135	168	156.6	24665	0	0	0	0	0	0	1	0	0	0	0	0	1996

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
10222	168	155.3	24349	0	0	0	0	0	0	0	1	0	0	0	0	1996
10192	168	155.7	24389	0	0	0	0	0	0	0	1	0	0	0	0	1996
10345	168	149.9	22838	0	0	0	0	0	0	0	1	0	0	0	0	1996
10259	168	148.6	22458	0	0	0	0	0	0	0	1	0	0	0	0	1996
10361	168	145.0	21700	0	0	0	0	0	0	0	1	0	0	0	0	1996
10504	168	141.6	20879	0	0	0	0	0	0	0	0	1	0	0	0	1996
10082	168	144.4	21494	0	0	0	0	0	0	0	0	1	0	0	0	1996
10148	168	144.1	21626	0	0	0	0	0	0	0	0	1	0	0	0	1996
10145	168	144.6	21786	0	0	0	0	0	0	0	0	1	0	0	0	1996
10286	24	144.4	21518	0	0	0	0	0	0	0	0	1	0	0	0	1996
10153	168	141.6	21123	0	0	0	0	0	0	0	0	0	1	0	0	1996
10248	168	137.4	19856	0	0	0	0	0	0	0	0	0	1	0	0	1996
10102	168	145.0	21646	0	0	0	0	0	0	0	0	0	1	0	0	1996
10061	169	147.9	22404	0	0	0	0	0	0	0	0	0	1	0	0	1996
9989	95	146.0	21881	0	0	0	0	0	0	0	0	0	0	1	0	1996
10096	62	151.9	23514	0	0	0	0	0	0	0	0	0	0	1	1	1996
10019	168	153.2	23688	0	0	0	0	0	0	0	0	0	0	1	0	1996
10017	168	144.9	21688	0	0	0	0	0	0	0	0	0	0	1	0	1996
10079	168	130.6	18405	0	0	0	0	0	0	0	0	0	0	1	0	1996
10110	168	134.4	19204	0	0	0	0	0	0	0	0	0	0	0	0	1996
10184	168	131.0	18364	0	0	0	0	0	0	0	0	0	0	0	0	1996
10142	168	135.2	19396	0	0	0	0	0	0	0	0	0	0	0	0	1996
10315	167	92.4	9657	0	0	0	0	0	0	0	0	0	0	0	0	1996
10947	25	104.5	12649	1	0	0	0	0	0	0	0	0	0	0	1	1997
10316	168	130.6	18238	1	0	0	0	0	0	0	0	0	0	0	0	1997
10210	168	145.7	22041	1	0	0	0	0	0	0	0	0	0	0	0	1997
10293	168	125.5	17385	1	0	0	0	0	0	0	0	0	0	0	0	1997
10313	168	129.4	18164	1	0	0	0	0	0	0	0	0	0	0	0	1997
10263	168	121.0	16213	0	1	0	0	0	0	0	0	0	0	0	0	1997
10380	168	130.3	18310	0	1	0	0	0	0	0	0	0	0	0	0	1997
10295	168	114.4	14483	0	1	0	0	0	0	0	0	0	0	0	0	1997
10339	168	111.8	14237	0	1	0	0	0	0	0	0	0	0	0	0	1997
10655	168	90.6	9470	0	0	1	0	0	0	0	0	0	0	0	0	1997
10450	58	86.6	8717	0	0	1	0	0	0	0	0	0	0	0	0	1997
11144	20	107.3	12534	0	0	1	0	0	0	0	0	0	0	0	1	1997
9994	167	156.3	24582	0	0	0	1	0	0	0	0	0	0	0	0	1997
10050	168	149.8	22865	0	0	0	1	0	0	0	0	0	0	0	0	1997
10019	168	149.0	22623	0	0	0	1	0	0	0	0	0	0	0	0	1997
10088	168	150.3	22982	0	0	0	1	0	0	0	0	0	0	0	0	1997
10090	168	138.2	20423	0	0	0	0	1	0	0	0	0	0	0	0	1997
10150	168	130.5	18329	0	0	0	0	1	0	0	0	0	0	0	0	1997
10190	116	139.8	20685	0	0	0	0	1	0	0	0	0	0	0	1	1997
10086	168	138.0	20104	0	0	0	0	1	0	0	0	0	0	0	0	1997
10292	168	135.7	19550	0	0	0	0	1	0	0	0	0	0	0	0	1997
10224	168	127.2	17639	0	0	0	0	0	1	0	0	0	0	0	0	1997
10191	168	130.7	18658	0	0	0	0	0	1	0	0	0	0	0	0	1997
10255	168	133.0	19105	0	0	0	0	0	1	0	0	0	0	0	0	1997

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
10221	168	137.8	20173	0	0	0	0	0	1	0	0	0	0	0	0	1997
10387	142	136.3	19820	0	0	0	0	0	0	1	0	0	0	0	1	1997
10361	168	141.5	20848	0	0	0	0	0	0	1	0	0	0	0	0	1997
10397	168	141.0	20741	0	0	0	0	0	0	1	0	0	0	0	0	1997
10358	168	151.0	21090	0	0	0	0	0	0	1	0	0	0	0	0	1997
10238	168	138.6	20323	0	0	0	0	0	0	0	1	0	0	0	0	1997
10255	168	138.5	20207	0	0	0	0	0	0	0	1	0	0	0	0	1997
10138	100	152.2	23372	0	0	0	0	0	0	0	1	0	0	0	0	1997
10577	78	120.5	16586	0	0	0	0	0	0	0	1	0	0	0	1	1997
10229	168	140.6	20642	0	0	0	0	0	0	0	1	0	0	0	0	1997
10196	168	139.8	20585	0	0	0	0	0	0	0	0	1	0	0	0	1997
10153	168	147.3	22330	0	0	0	0	0	0	0	0	1	0	0	0	1997
10130	168	156.6	24597	0	0	0	0	0	0	0	0	1	0	0	0	1997
10235	168	146.3	22121	0	0	0	0	0	0	0	0	1	0	0	0	1997
10272	24	142.3	21214	0	0	0	0	0	0	0	0	1	0	0	0	1997

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
10514	168	144.6	22915	0	0	0	0	0	0	0	0	0	1	0	0	1994
10573	168	144.9	22992	0	0	0	0	0	0	0	0	0	1	0	0	1994
10464	168	136.1	20768	0	0	0	0	0	0	0	0	0	1	0	0	1994
10487	168	132.2	19351	0	0	0	0	0	0	0	0	0	1	0	0	1994
10424	169	144.0	23109	0	0	0	0	0	0	0	0	0	0	1	0	1994
10311	168	151.7	25340	0	0	0	0	0	0	0	0	0	0	1	0	1994
10253	168	142.6	22710	0	0	0	0	0	0	0	0	0	0	1	0	1994
10232	168	129.8	19059	0	0	0	0	0	0	0	0	0	0	1	0	1994
10346	133	127.2	18706	0	0	0	0	0	0	0	0	0	0	1	0	1994
10504	118	136.6	21154	0	0	0	0	0	0	0	0	0	0	0	1	1994
10409	132	132.2	19823	0	0	0	0	0	0	0	0	0	0	0	0	1994
10299	116	180.2	33326	1	0	0	0	0	0	0	0	0	0	0	1	1995
10205	168	174.0	31197	1	0	0	0	0	0	0	0	0	0	0	0	1995
10420	168	182.4	33444	1	0	0	0	0	0	0	0	0	0	0	0	1995
10520	168	183.8	34015	1	0	0	0	0	0	0	0	0	0	0	0	1995
10407	168	168.3	29343	1	0	0	0	0	0	0	0	0	0	0	0	1995
10427	168	178.4	32422	0	1	0	0	0	0	0	0	0	0	0	0	1995
10216	167	162.5	27914	0	1	0	0	0	0	0	0	0	0	0	0	1995
10492	115	156.0	26398	0	1	0	0	0	0	0	0	0	0	0	1	1995
10134	168	162.1	27418	0	1	0	0	0	0	0	0	0	0	0	0	1995
10165	168	171.3	30367	0	0	1	0	0	0	0	0	0	0	0	0	1995
10356	168	174.9	31060	0	0	1	0	0	0	0	0	0	0	0	0	1995
10363	168	174.5	31111	0	0	1	0	0	0	0	0	0	0	0	0	1995
10573	140	165.8	28879	0	0	0	1	0	0	0	0	0	0	0	1	1995
10363	168	169.8	29964	0	0	0	1	0	0	0	0	0	0	0	0	1995
10313	168	170.9	30102	0	0	0	1	0	0	0	0	0	0	0	0	1995
10368	168	165.8	28951	0	0	0	0	1	0	0	0	0	0	0	0	1995
10314	168	170.6	30259	0	0	0	0	1	0	0	0	0	0	0	0	1995
10251	168	178.4	32396	0	0	0	0	1	0	0	0	0	0	0	0	1995
10308	168	167.3	29330	0	0	0	0	1	0	0	0	0	0	0	0	1995
10458	168	173.8	31175	0	0	0	0	1	0	0	0	0	0	0	0	1995
10377	168	186.7	34930	0	0	0	0	0	1	0	0	0	0	0	0	1995
10420	168	187.8	35296	0	0	0	0	0	1	0	0	0	0	0	0	1995
10296	168	183.2	33885	0	0	0	0	0	1	0	0	0	0	0	0	1995
10194	168	188.8	35638	0	0	0	0	0	1	0	0	0	0	0	0	1995
10343	168	165.3	28604	0	0	0	0	0	0	1	0	0	0	0	0	1995
10505	168	170.1	29969	0	0	0	0	0	0	1	0	0	0	0	0	1995
10466	168	178.9	32481	0	0	0	0	0	0	1	0	0	0	0	0	1995
10551	167	176.7	32050	0	0	0	0	0	0	1	0	0	0	0	0	1995
10614	78	159.6	27520	0	0	0	0	0	0	0	1	0	0	0	2	1995
10624	145	160.0	27267	0	0	0	0	0	0	0	1	0	0	0	0	1995
10533	141	178.4	32615	0	0	0	0	0	0	0	1	0	0	0	1	1995
10221	168	178.6	32247	0	0	0	0	0	0	0	1	0	0	0	0	1995
10293	168	174.2	31043	0	0	0	0	0	0	0	1	0	0	0	0	1995
10293	165	149.2	24927	0	0	0	0	0	0	0	0	1	0	0	0	1995
10223	142	171.2	30647	0	0	0	0	0	0	0	0	1	0	0	1	1995
10171	168	169.5	29989	0	0	0	0	0	0	0	0	1	0	0	0	1995

Data Base for SMITH 2 Target Heat Rate Equation

MH	HOUR	AMH	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10608	77	158.8	27608	0	0	0	0	0	0	0	0	0	1	0	1	1995
10320	168	172.9	31063	0	0	0	0	0	0	0	0	0	1	0	0	1995
10281	168	170.6	29973	0	0	0	0	0	0	0	0	0	1	0	0	1995
10240	145	172.8	30948	0	0	0	0	0	0	0	0	0	1	0	0	1995
10236	146	135.6	19238	0	0	0	0	0	0	0	0	0	0	1	0	1995
10027	23	125.5	16417	0	0	0	0	0	0	0	0	0	0	1	0	1995
10234	167	171.5	30477	0	0	0	0	0	0	0	0	0	0	1	1	1995
10398	168	155.4	26034	0	0	0	0	0	0	0	0	0	0	1	0	1995
10251	168	181.4	33257	0	0	0	0	0	0	0	0	0	0	1	0	1995
10347	168	158.7	27170	0	0	0	0	0	0	0	0	0	0	0	0	1995
10369	148	166.0	29046	0	0	0	0	0	0	0	0	0	0	0	0	1995
10398	139	163.5	28542	0	0	0	0	0	0	0	0	0	0	0	1	1995
10298	168	171.8	30253	0	0	0	0	0	0	0	0	0	0	0	0	1995
10361	168	155.4	26356	1	0	.	0	0	0	0	0	0	0	0	0	1996
10631	168	182.5	33556	1	0	0	0	0	0	0	0	0	0	0	0	1996
10586	168	168.2	29153	1	0	0	0	0	0	0	0	0	0	0	0	1996
10544	168	172.6	30801	1	0	0	0	0	0	0	0	0	0	0	0	1996
10315	168	169.2	29964	1	0	0	0	0	0	0	0	0	0	0	0	1996
10389	168	167.4	29119	0	1	0	0	0	0	0	0	0	0	0	0	1996
10440	131	143.1	23005	0	1	0	0	0	0	0	0	0	0	0	1	1996
10350	168	159.2	27076	0	1	0	0	0	0	0	0	0	0	0	0	1996
10289	168	158.6	26722	0	1	0	0	0	0	0	0	0	0	0	0	1996
10286	168	171.7	30339	0	0	1	0	0	0	0	0	0	0	0	0	1996
10476	15	161.2	28329	0	0	1	0	0	0	0	0	0	0	0	0	1996
11576	16	135.8	20555	0	0	1	0	0	0	0	0	0	0	0	1	1996
10616	168	157.5	26608	0	0	1	0	0	0	0	0	0	0	0	0	1996
10789	24	141.4	22272	0	0	1	0	0	0	0	0	0	0	0	0	1996
10562	167	173.4	30874	0	0	0	1	0	0	0	0	0	0	0	0	1996
10306	168	181.8	33373	0	0	0	1	0	0	0	0	0	0	0	0	1996
10288	168	180.7	33053	0	0	0	1	0	0	0	0	0	0	0	0	1996
10407	155	158.7	27174	0	0	0	1	0	0	0	0	0	0	0	0	1996
10144	154	171.7	30455	0	0	0	0	1	0	0	0	0	0	0	1	1996
10244	168	171.5	30410	0	0	0	0	1	0	0	0	0	0	0	0	1996
10275	168	163.2	28344	0	0	0	0	1	0	0	0	0	0	0	0	1996
10265	168	174.1	30924	0	0	0	0	1	0	0	0	0	0	0	0	1996
10321	168	159.6	27350	0	0	0	0	1	0	0	0	0	0	0	0	1996
10258	168	169.2	29701	0	0	0	0	0	1	0	0	0	0	0	0	1996
10331	139	164.4	28561	0	0	0	0	0	1	0	0	0	0	0	1	1996
10274	168	174.4	31058	0	0	0	0	0	1	0	0	0	0	0	0	1996
10258	168	175.7	31593	0	0	0	0	0	1	0	0	0	0	0	0	1996
10308	168	172.4	30540	0	0	0	0	0	0	1	0	0	0	0	0	1996
10407	168	180.9	33028	0	0	0	0	0	0	1	0	0	0	0	0	1996
10474	148	179.9	32962	0	0	0	0	0	0	1	0	0	0	0	0	1996
10418	155	175.9	31924	0	0	0	0	0	0	1	0	0	0	0	0	1996
10478	168	177.3	32099	0	0	0	0	0	0	0	1	0	0	0	0	1996
10413	168	177.6	32033	0	0	0	0	0	0	0	1	0	0	0	0	1996
10523	168	171.0	30187	0	0	0	0	0	0	0	1	0	0	0	0	1996

Data Base for SMITH 2 Target Heat Rate Equation

NR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10543	168	169.9	29848	0	0	0	0	0	0	0	1	0	0	0	0	1996
10568	168	161.8	28367	0	0	0	0	0	0	0	1	0	0	0	0	1996
10638	154	156.0	26482	0	0	0	0	0	0	0	0	1	0	0	0	1996
10357	158	157.2	26715	0	0	0	0	0	0	0	0	1	0	0	1	1996
10278	168	163.0	28333	0	0	0	0	0	0	0	0	1	0	0	0	1996
10352	168	161.5	27869	0	0	0	0	0	0	0	0	1	0	0	0	1996
10428	24	163.0	28271	0	0	0	0	0	0	0	0	1	0	0	0	1996
10305	168	156.9	26609	0	0	0	0	0	0	0	0	0	1	0	0	1996
10221	168	151.6	24906	0	0	0	0	0	0	0	0	0	1	0	0	1996
10132	164	156.8	26268	0	0	0	0	0	0	0	0	0	1	0	0	1996
10239	143	164.5	28949	0	0	0	0	0	0	0	0	0	1	0	1	1996
10140	168	171.2	30246	0	0	0	0	0	0	0	0	0	0	1	0	1996
10080	168	177.0	31769	0	0	0	0	0	0	0	0	0	0	1	0	1996
10290	73	178.5	32575	0	0	0	0	0	0	0	0	0	0	1	0	1996
10410	61	147.7	23811	0	0	0	0	0	0	0	0	0	0	1	1	1996
10068	168	141.4	22187	0	0	0	0	0	0	0	0	0	0	1	0	1996
9917	168	148.9	24054	0	0	0	0	0	0	0	0	0	0	0	0	1996
10103	168	147.4	23656	0	0	0	0	0	0	0	0	0	0	0	0	1996
10224	140	142.1	22919	0	0	0	0	0	0	0	0	0	0	0	1	1996
10418	124	89.1	9030	0	0	0	0	0	0	0	0	0	0	0	1	1996
10233	168	115.3	15541	1	0	0	0	0	0	0	0	0	0	0	0	1997
10224	168	136.7	20724	1	0	0	0	0	0	0	0	0	0	0	0	1997
10038	168	162.6	27939	1	0	0	0	0	0	0	0	0	0	0	0	1997
10280	168	132.0	19932	1	0	0	0	0	0	0	0	0	0	0	0	1997
10372	168	131.0	19863	1	0	0	0	0	0	0	0	0	0	0	0	1997
10178	168	129.0	18776	0	1	0	0	0	0	0	0	0	0	0	0	1997
10281	168	134.4	20432	0	1	0	0	0	0	0	0	0	0	0	0	1997
10519	60	114.1	15578	0	1	0	0	0	0	0	0	0	0	0	1	1997
10219	168	113.3	15116	0	1	0	0	0	0	0	0	0	0	0	0	1997
10315	168	91.0	9700	0	0	1	0	0	0	0	0	0	0	0	0	1997
10398	168	85.7	8514	0	0	1	0	0	0	0	0	0	0	0	0	1997
10271	168	99.0	11206	0	0	1	0	0	0	0	0	0	0	0	0	1997
10126	24	126.6	18440	0	0	1	0	0	0	0	0	0	0	0	0	1997
10285	95	162.5	27958	0	0	0	1	0	0	0	0	0	0	0	1	1997
10098	168	165.3	28668	0	0	0	1	0	0	0	0	0	0	0	0	1997
10044	168	170.5	30248	0	0	0	1	0	0	0	0	0	0	0	0	1997
10132	168	149.4	24726	0	0	0	0	1	0	0	0	0	0	0	0	1997
10256	168	139.8	22011	0	0	0	0	1	0	0	0	0	0	0	0	1997
10166	168	153.4	25791	0	0	0	0	1	0	0	0	0	0	0	0	1997
9933	168	152.8	25617	0	0	0	0	1	0	0	0	0	0	0	0	1997
10344	168	146.9	24070	0	0	0	0	1	0	0	0	0	0	0	0	1997
10266	168	131.9	19901	0	0	0	0	0	1	0	0	0	0	0	0	1997
10210	168	143.5	23380	0	0	0	0	0	1	0	0	0	0	0	0	1997
10349	168	147.5	24373	0	0	0	0	0	1	0	0	0	0	0	0	1997
10340	146	151.1	25219	0	0	0	0	0	1	0	0	0	0	0	0	1997
10354	168	155.2	26245	0	0	0	0	0	0	1	0	0	0	0	0	1997
10237	168	156.6	26434	0	0	0	0	0	0	1	0	0	0	0	0	1997

Data Base for SMITH 2 Target Heat Rate Equation

HR	HOUR	AMW	LERP	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10255	168	155.5	26141	0	0	0	0	0	0	1	0	0	0	0	0	1997
10200	168	168.9	29484	0	0	0	0	0	0	1	0	0	0	0	0	1997
10125	168	154.5	25964	0	0	0	0	0	0	0	1	0	0	0	0	1997
10151	168	152.3	25448	0	0	0	0	0	0	0	1	0	0	0	0	1997
10116	145	168.6	29387	0	0	0	0	0	0	0	1	0	0	0	0	1997
10164	168	155.8	29050	0	0	0	0	0	0	0	1	0	0	0	0	1997
10103	168	156.9	26971	0	0	0	0	0	0	0	1	0	0	0	0	1997
10020	168	156.1	26573	0	0	0	0	0	0	0	0	1	0	0	0	1997
10067	96	160.7	27555	0	0	0	0	0	0	0	0	1	0	0	0	1997
10085	92	176.8	31862	0	0	0	0	0	0	0	0	1	0	0	1	1997
9996	168	166.0	28953	0	0	0	0	0	0	0	0	1	0	0	0	1997
9842	24	163.4	28585	0	0	0	0	0	0	0	0	1	0	0	0	1997

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
10439	168	361.3	136823	0	0	0	0	0	0	0	0	0	1	0	0	1994
10432	168	360.0	136510	0	0	0	0	0	0	0	0	0	1	0	0	1994
10432	168	376.4	146110	0	0	0	0	0	0	0	0	0	1	0	0	1994
10591	47	346.3	127218	0	0	0	0	0	0	0	0	0	1	0	0	1994
10395	114	383.6	152056	0	0	0	0	0	0	0	0	0	0	1	1	1994
10249	168	379.0	147266	0	0	0	0	0	0	0	0	0	0	1	0	1994
10381	168	381.0	149407	0	0	0	0	0	0	0	0	0	0	1	0	1994
10402	168	394.1	158400	0	0	0	0	0	0	0	0	0	0	0	0	1994
10354	87	408.9	170396	0	0	0	0	0	0	0	0	0	0	0	0	1994
10733	116	299.3	100057	1	0	0	0	0	0	0	0	0	0	0	1	1995
10631	168	268.9	81034	1	0	0	0	0	0	0	0	0	0	0	0	1995
10393	168	381.9	149822	1	0	0	0	0	0	0	0	0	0	0	0	1995
10499	168	354.3	130013	1	0	0	0	0	0	0	0	0	0	0	0	1995
10551	168	324.7	114119	1	0	0	0	0	0	0	0	0	0	0	0	1995
10857	117	382.5	152144	0	1	0	0	0	0	0	0	0	0	0	1	1995
10574	168	351.8	129906	0	1	0	0	0	0	0	0	0	0	0	0	1995
10516	168	330.0	115432	0	1	0	0	0	0	0	0	0	0	0	0	1995
10497	168	346.2	122924	0	1	0	0	0	0	0	0	0	0	0	0	1995
10479	121	369.7	142764	0	0	1	0	0	0	0	0	0	0	0	0	1995
10898	64	315.8	102049	0	0	1	0	0	0	0	0	0	0	0	1	1995
10695	83	332.5	114012	0	0	1	0	0	0	0	0	0	0	0	1	1995
10491	168	352.8	128577	0	0	1	0	0	0	0	0	0	0	0	0	1995
10490	167	344.3	125972	0	0	0	1	0	0	0	0	0	0	0	0	1995
10709	124	354.6	135572	0	0	0	1	0	0	0	0	0	0	0	1	1995
10481	168	367.1	147493	0	0	0	1	0	0	0	0	0	0	0	0	1995
10760	168	376.0	151333	0	0	0	1	0	0	0	0	0	0	0	0	1995
10717	169	287.3	95512	0	0	0	0	1	0	0	0	0	0	0	0	1995
10501	72	233.1	61578	0	0	0	0	1	0	0	0	0	0	0	0	1995
10501	112	312.9	118164	0	0	0	0	1	0	0	.	0	0	0	1	1995
11013	168	200.0	50198	0	0	0	0	1	0	0	0	0	0	0	0	1995
10876	168	354.0	137119	0	0	0	0	1	0	0	0	0	0	0	0	1995
10642	168	266.5	86931	0	0	0	0	0	1	0	0	0	0	0	0	1995
11099	111	210.2	56650	0	0	0	0	0	1	0	0	0	0	0	0	1995
10855	137	242.1	73812	0	0	0	0	0	1	0	0	0	0	0	1	1995
10842	168	251.5	79744	0	0	0	0	0	1	0	0	0	0	0	0	1995
11199	104	228.5	66236	0	0	0	0	0	0	1	0	0	0	0	1	1995
.0476	168	331.6	135731	0	0	0	0	0	0	1	0	0	0	0	0	1995
10493	168	324.8	125628	0	0	0	0	0	0	1	0	0	0	0	0	1995
10571	168	350.8	143158	0	0	0	0	0	0	1	0	0	0	0	0	1995
10328	142	404.6	175558	0	0	0	0	0	0	0	1	0	0	0	0	1995
11109	93	284.0	102242	0	0	0	0	0	0	0	1	0	0	0	2	1995
10367	168	365.4	155265	0	0	0	0	0	0	0	1	0	0	0	0	1995
10450	168	345.3	144231	0	0	0	0	0	0	0	1	0	0	0	0	1995
10515	163	318.5	127649	0	0	0	0	0	0	0	1	0	0	0	0	1995
10795	110	257.2	83804	0	0	0	0	0	0	0	0	1	0	0	1	1995
10543	168	288.1	101394	0	0	0	0	0	0	0	0	1	0	0	0	1995
10630	144	278.1	95227	0	0	0	0	0	0	0	0	1	0	0	0	1995

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
11177	127	317.0	114051	0	0	0	0	0	0	0	0	0	0	0	1	1995
10388	168	343.4	124341	0	0	0	0	0	0	0	0	0	0	0	0	1995
11074	168	269.8	82535	1	0	0	0	0	0	0	0	0	0	0	0	1996
10518	166	370.8	145008	1	0	0	0	0	0	0	0	0	0	0	0	1996
10350	64	300.8	101753	1	0	0	0	0	0	0	0	0	0	0	0	1996
10671	105	331.8	125509	1	0	0	0	0	0	0	0	0	0	0	1	1996
10342	168	396.1	166850	1	0	0	0	0	0	0	0	0	0	0	0	1996
10415	167	330.6	119361	0	1	0	0	0	0	0	0	0	0	0	0	1996
10503	142	357.6	143590	0	1	0	0	0	0	0	0	0	0	0	1	1996
10399	168	349.1	136493	0	1	0	0	0	0	0	0	0	0	0	0	1996
10251	168	366.1	148093	0	1	0	0	0	0	0	0	0	0	0	0	1996
10324	168	408.9	174215	0	0	1	0	0	0	0	0	0	0	0	0	1996
10392	153	426.0	189758	0	0	1	0	0	0	0	0	0	0	0	0	1996
10283	168	423.3	186093	0	0	1	0	0	0	0	0	0	0	0	0	1996
10329	168	393.2	156573	0	0	1	0	0	0	0	0	0	0	0	0	1996
10191	24	388.5	151716	0	0	1	0	0	0	0	0	0	0	0	0	1996
10228	92	414.7	174316	0	0	0	1	0	0	0	0	0	0	0	0	1996
10547	100	405.2	171374	0	0	0	1	0	0	0	0	0	0	0	1	1996
10477	168	395.8	161269	0	0	0	1	0	0	0	0	0	0	0	0	1996
10634	168	294.1	95104	0	0	0	1	0	0	0	0	0	0	0	0	1996
10325	168	360.2	132130	0	0	0	0	1	0	0	0	0	0	0	0	1996
10388	168	401.3	167524	0	0	0	0	1	0	0	0	0	0	0	0	1996
10559	168	362.2	147236	0	0	0	0	1	0	0	0	0	0	0	0	1996
10552	168	391.4	164906	0	0	0	0	1	0	0	0	0	0	0	0	1996
10618	168	349.1	137431	0	0	0	0	1	0	0	0	0	0	0	0	1996
10292	168	314.9	120960	0	0	0	0	0	1	0	0	0	0	0	0	1996
10639	168	387.4	159682	0	0	0	0	0	1	0	0	0	0	0	0	1996
10645	168	383.7	156545	0	0	0	0	0	1	0	0	0	0	0	0	1996
10204	132	386.0	159559	0	0	0	0	0	1	0	0	0	0	0	0	1996
10394	153	333.2	135606	0	0	0	0	0	0	1	0	0	0	0	1	1996
10247	168	365.6	156769	0	0	0	0	0	0	1	0	0	0	0	0	1996
10242	138	397.7	177299	0	0	0	0	0	0	1	0	0	0	0	1	1996
9961	168	371.8	161217	0	0	0	0	0	0	1	0	0	0	0	0	1996
10138	168	368.4	159178	0	0	0	0	0	0	0	1	0	0	0	0	1996
10217	168	364.0	157202	0	0	0	0	0	0	0	1	0	0	0	0	1996
10410	168	360.3	156432	0	0	0	0	0	0	0	1	0	0	0	0	1996
10309	168	337.6	140366	0	0	0	0	0	0	0	1	0	0	0	0	1996
10813	168	284.6	105093	0	0	0	0	0	0	0	1	0	0	0	0	1996
10520	168	331.3	132807	0	0	0	0	0	0	0	0	1	0	0	0	1996
10819	168	361.1	133300	0	0	0	0	0	0	0	0	1	0	0	0	1996
10768	168	347.5	121243	0	0	0	0	0	0	0	0	1	0	0	0	1996
10480	119	356.3	128460	0	0	0	0	0	0	0	0	1	0	0	0	1996
* 13434	19	186.9	38605	0	0	0	0	0	0	0	0	0	1	0	1	1996
10994	168	313.4	102118	0	0	0	0	0	0	0	0	0	1	0	0	1996
10607	98	423.4	184613	0	0	0	0	0	0	0	0	0	1	0	1	1996
10564	169	441.8	196945	0	0	0	0	0	0	0	0	0	1	0	0	1996
10623	168	419.7	179445	0	0	0	0	0	0	0	0	0	0	1	0	1996

Data Base for DANIEL 1 Target Heat Rate Equation

NR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
10656	168	400.6	162702	0	0	0	0	0	0	0	0	0	0	1	0	1996
10395	168	427.5	183049	0	0	0	0	0	0	0	0	0	0	1	0	1996
10255	76	367.3	136582	0	0	0	0	0	0	0	0	0	0	1	0	1996
10661	144	396.5	163244	0	0	0	0	0	0	0	0	0	0	1	1	1996
10595	168	451.8	205622	0	0	0	0	0	0	0	0	0	0	0	0	1996
10556	168	427.0	187822	0	0	0	0	0	0	0	0	0	0	0	0	1996
10447	168	441.7	198347	0	0	0	0	0	0	0	0	0	0	0	0	1996
10457	168	393.6	163969	0	0	0	0	0	0	0	0	0	0	0	0	1996
10779	168	401.5	165761	1	0	0	0	0	0	0	0	0	0	0	0	1997
10835	95	349.3	124956	1	0	0	0	0	0	0	0	0	0	0	0	1997
10905	152	320.1	107643	0	1	0	0	0	0	0	0	0	0	0	1	1997
10571	167	383.5	150753	0	1	0	0	0	0	0	0	0	0	0	0	1997
10777	97	377.7	155150	0	1	0	0	0	0	0	0	0	0	0	1	1997
10514	138	381.1	158484	0	1	0	0	0	0	0	0	0	0	0	1	1997
10561	130	361.5	145363	0	0	1	0	0	0	0	0	0	0	0	1	1997
10528	168	389.9	163244	0	0	1	0	0	0	0	0	0	0	0	0	1997
10401	168	408.4	174168	0	0	1	0	0	0	0	0	0	0	0	0	1997
10362	168	425.7	185977	0	0	1	0	0	0	0	0	0	0	0	0	1997
10574	89	406.4	173770	0	0	0	1	0	0	0	0	0	0	0	1	1997
10590	168	428.0	185933	0	0	0	1	0	0	0	0	0	0	0	0	1997
10352	168	449.3	202671	0	0	0	1	0	0	0	0	0	0	0	0	1997
10699	168	443.9	197621	0	0	0	1	0	0	0	0	0	0	0	0	1997
10404	93	408.0	169639	0	0	0	0	1	0	0	0	0	0	0	0	1997
10946	67	340.3	128531	0	0	0	0	1	0	0	0	0	0	0	1	1997
10367	168	424.3	184712	0	0	0	0	1	0	0	0	0	0	0	0	1997
10513	168	418.2	178740	0	0	0	0	1	0	0	0	0	0	0	0	1997
10499	168	349.5	125242	0	0	0	0	1	0	0	0	0	0	0	0	1997
10609	168	374.0	150054	0	0	0	0	0	1	0	0	0	0	0	0	1997
10614	168	395.9	163115	0	0	0	0	0	1	0	0	0	0	0	0	1997
10637	168	397.3	165198	0	0	0	0	0	1	0	0	0	0	0	0	1997
10600	168	386.2	154992	0	0	0	0	0	1	0	0	0	0	0	0	1997
10645	168	399.0	164401	0	0	0	0	0	0	1	0	0	0	0	0	1997
10789	86	377.8	151678	0	0	0	0	0	0	1	0	0	0	0	1	1997
10640	168	369.9	140828	0	0	0	0	0	0	1	0	0	0	0	0	1997
10793	168	392.2	155125	0	0	0	0	0	0	1	0	0	0	0	0	1997
10790	168	362.9	137430	0	0	0	0	0	0	0	1	0	0	0	0	1997
10776	135	379.1	148806	0	0	0	0	0	0	0	1	0	0	0	1	1997
10639	168	413.0	170854	0	0	0	0	0	0	0	1	0	0	0	0	1997
10793	123	372.2	148539	0	0	0	0	0	0	0	1	0	0	0	1	1997
10553	168	383.2	152292	0	0	0	0	0	0	0	1	0	0	0	0	1997
10792	131	355.6	137302	0	0	0	0	0	0	0	0	1	0	0	1	1997
10597	168	368.0	142684	0	0	0	0	0	0	0	0	1	0	0	0	1997
10713	139	377.5	148203	0	0	0	0	0	0	0	0	1	0	0	1	1997
10696	168	363.3	138521	0	0	0	0	0	0	0	0	1	0	0	0	1997
10736	24	353.8	133462	0	0	0	0	0	0	0	0	1	0	0	0	1997

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
10228	168	357.3	133663	0	0	0	0	0	0	0	0	0	1	0	0	1994
10273	146	341.4	124803	0	0	0	0	0	0	0	0	0	1	0	0	1994
10245	130	385.5	153999	0	0	0	0	0	0	0	0	0	0	1	1	1994
10011	168	398.9	161501	0	0	0	0	0	0	0	0	0	0	1	0	1994
10086	168	393.3	157758	0	0	0	0	0	0	0	0	0	0	1	0	1994
10159	168	399.6	161996	0	0	0	0	0	0	0	0	0	0	0	0	1994
10053	168	418.7	175[illegible]	0	0	0	0	0	0	0	0	0	0	0	0	1994
10073	168	419.9	176741	0	0	0	0	0	0	0	0	0	0	0	0	1994
10106	168	402.5	164397	0	0	0	0	0	0	0	0	0	0	0	0	1994
10204	168	336.3	121187	1	0	0	0	0	0	0	0	0	0	0	0	1995
10563	85	252.3	69985	1	0	0	0	0	0	0	0	0	0	0	0	1995
10362	116	342.6	123305	1	0	0	0	0	0	0	0	0	0	0	1	1995
10235	168	360.3	137601	1	0	0	0	0	0	0	0	0	0	0	0	1995
9599	168	393.0	162575	0	1	0	0	0	0	0	0	0	0	0	0	1995
10389	168	377.9	148025	0	1	0	0	0	0	0	0	0	0	0	0	1995
10346	168	350.8	129436	0	1	0	0	0	0	0	0	0	0	0	0	1995
10420	168	362.4	133587	0	1	0	0	0	0	0	0	0	0	0	0	1995
10350	113	390.0	155398	0	0	1	0	0	0	0	0	0	0	0	0	1995
* 13189	13	196.5	41243	0	0	1	0	0	0	0	0	0	0	0	1	1995
10338	168	356.7	128281	0	0	1	0	0	0	0	0	0	0	0	0	1995
10326	168	350.0	127395	0	0	1	0	0	0	0	0	0	0	0	0	1995
10275	167	356.0	131239	0	0	0	1	0	0	0	0	0	0	0	0	1995
10341	168	366.4	138261	0	0	0	1	0	0	0	0	0	0	0	0	1995
9930	168	372.1	152985	0	0	0	1	0	0	0	0	0	0	0	0	1995
10383	168	378.7	148296	0	0	0	1	0	0	0	0	0	0	0	0	1995
10335	168	320.9	115784	0	0	0	0	1	0	0	0	0	0	0	0	1995
10316	168	314.6	114466	0	0	0	0	1	0	0	0	0	0	0	0	1995
10245	168	343.2	141604	0	0	0	0	1	0	0	0	0	0	0	0	1995
11003	114	209.0	56761	0	0	0	0	1	0	0	0	0	0	0	1	1995
10591	168	366.0	140614	0	0	0	0	1	0	0	0	0	0	0	0	1995
10309	168	305.4	113248	0	0	0	0	0	1	0	0	0	0	0	0	1995
10664	111	237.6	73445	0	0	0	0	0	1	0	0	0	0	0	0	1995
10897	70	250.2	78758	0	0	0	0	0	1	0	0	0	0	0	2	1995
10464	168	275.9	94821	0	0	0	0	0	1	0	0	0	0	0	0	1995
10944	102	231.2	68264	0	0	0	0	0	0	1	0	0	0	0	1	1995
10235	168	346.5	147412	0	0	0	0	0	0	1	0	0	0	0	0	1995
10202	168	344.6	140726	0	0	0	0	0	0	1	0	0	0	0	0	1995
10192	168	359.6	153115	0	0	0	0	0	0	1	0	0	0	0	0	1995
10445	168	291.4	107731	0	0	0	0	0	0	0	1	0	0	0	0	1995
10536	168	299.6	110824	0	0	0	0	0	0	0	1	0	0	0	0	1995
10155	168	388.2	173186	0	0	0	0	0	0	0	1	0	0	0	0	1995
10321	168	354.3	151498	0	0	0	0	0	0	0	1	0	0	0	0	1995
10305	168	330.4	135270	0	0	0	0	0	0	0	1	0	0	0	0	1995
10693	168	267.4	89350	0	0	0	0	0	0	0	0	1	0	0	0	1995
10361	167	294.6	106082	0	0	0	0	0	0	0	0	1	0	0	0	1995
10415	168	280.9	95840	0	0	0	0	0	0	0	0	1	0	0	0	1995
10840	128	202.1	50229	0	0	0	0	0	0	0	0	1	0	0	0	1995

Data Base for DANIEL 2 Target Heat Rate Equation

	HR	HOUR	AMW	LERF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	BS	YEAR
	10479	54	358.0	134863	0	0	0	0	0	0	0	0	0	1	0	1	1995
	10642	168	335.2	122735	0	0	0	0	0	0	0	0	0	1	0	0	1995
	10302	168	377.2	147787	0	0	0	0	0	0	0	0	0	1	0	0	1995
	10695	169	286.2	94553	0	0	0	0	0	0	0	0	0	0	1	0	1995
	11227	168	204.1	47484	0	0	0	0	0	0	0	0	0	0	1	0	1995
	10828	168	242.2	68355	0	0	0	0	0	0	0	0	0	0	1	0	1995
	10458	168	307.4	105084	0	0	0	0	0	0	0	0	0	0	1	0	1995
	10366	168	367.5	141022	0	0	0	0	0	0	0	0	0	0	1	0	1995
	10703	109	349.8	134300	0	0	0	0	0	0	0	0	0	0	0	1	1995
	10298	168	398.6	163507	0	0	0	0	0	0	0	0	0	0	0	0	1995
	10260	168	367.6	143481	0	0	0	0	0	0	0	0	0	0	0	0	1995
	10361	168	369.7	141518	0	0	0	0	0	0	0	0	0	0	0	0	1995
	11156	144	240.6	66072	1	0	0	0	0	0	0	0	0	0	0	0	1996
*	45511	12	33.5	1183	0	0	1	0	0	0	0	0	0	0	0	1	1996
	10228	92	414.7	174316	0	0	0	1	0	0	0	0	0	0	0	0	1996
	10547	100	405.2	171374	0	0	0	1	0	0	0	0	0	0	0	1	1996
	10477	168	395.8	161269	0	0	0	1	0	0	0	0	0	0	0	0	1996
	10634	168	294.1	95104	0	0	0	1	0	0	0	0	0	0	0	0	1996
	10325	168	360.2	132130	0	0	0	0	1	0	0	0	0	0	0	0	1996
	10388	168	401.3	167524	0	0	0	0	1	0	0	0	0	0	0	0	1996
	10559	168	362.2	147236	0	0	0	0	1	0	0	0	0	0	0	0	1996
	10552	168	391.4	164906	0	0	0	0	1	0	0	0	0	0	0	0	1996
	10618	168	349.1	137431	0	0	0	0	1	0	0	0	0	0	0	0	1996
	10292	168	314.9	120960	0	0	0	0	0	1	0	0	0	0	0	0	1996
	10639	168	387.4	159682	0	0	0	0	0	1	0	0	0	0	0	0	1996
	10645	168	383.7	156545	0	0	0	0	0	1	0	0	0	0	0	0	1996
	10204	132	386.0	159559	0	0	0	0	0	1	0	0	0	0	0	0	1996
	10394	153	333.2	135606	0	0	0	0	0	0	1	0	0	0	0	1	1996
	10247	168	365.6	156769	0	0	0	0	0	0	1	0	0	0	0	0	1996
	10242	138	397.7	177299	0	0	0	0	0	0	1	0	0	0	0	1	1996
	9961	168	371.8	161217	0	0	0	0	0	0	1	0	0	0	0	0	1996
	10138	168	368.4	159178	0	0	0	0	0	0	1	0	0	0	0	0	1996
	10217	168	364.0	157202	0	0	0	0	0	0	0	1	0	0	0	0	1996
	10410	168	360.3	156432	0	0	0	0	0	0	0	1	0	0	0	0	1996
	10309	168	337.6	140366	0	0	0	0	0	0	0	1	0	0	0	0	1996
	10813	168	284.6	105093	0	0	0	0	0	0	0	1	0	0	0	0	1996
	10520	168	331.3	132807	0	0	0	0	0	0	0	0	1	0	0	0	1996
	10819	168	361.1	133300	0	0	0	0	0	0	0	0	1	0	0	0	1996
	10768	168	347.5	121243	0	0	0	0	0	0	0	0	1	0	0	0	1996
	10480	119	356.3	128460	0	0	0	0	0	0	0	0	1	0	0	0	1996
	10131	168	422.2	183607	0	0	0	0	0	0	0	0	0	1	0	0	1996
	10387	168	398.5	169036	0	0	0	0	0	0	0	0	0	1	0	0	1996
	10451	168	421.1	184735	0	0	0	0	0	0	0	0	0	1	0	0	1996
	10395	169	424.7	187212	0	0	0	0	0	0	0	0	0	1	0	0	1996
	10499	168	406.6	173305	0	0	0	0	0	0	0	0	0	0	1	0	1996
	10636	168	384.5	152482	0	0	0	0	0	0	0	0	0	0	1	0	1996
	10243	74	413.9	179535	0	0	0	0	0	0	0	0	0	0	1	0	1996

Data Base for DANIEL 3 Target Heat Rate Equation

	HR	HOUR	AMW	LSRF	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	NS	YEAR
	10253	106	385.8	160769	0	0	0	0	0	0	0	0	0	0	1	1	1996
	10340	168	401.2	168261	0	0	0	0	0	0	0	0	0	0	1	0	1996
	10345	168	460.7	215927	0	0	0	0	0	0	0	0	0	0	0	0	1996
	10367	168	415.4	180617	0	0	0	0	0	0	0	0	0	0	0	0	1996
	10178	168	442.9	201239	0	0	0	0	0	0	0	0	0	0	0	0	1996
	10338	168	375.5	152267	0	0	0	0	0	0	0	0	0	0	0	0	1996
	10324	168	411.2	175882	1	0	0	0	0	0	0	0	0	0	0	0	1997
	10322	168	457.6	209533	1	0	0	0	0	0	0	0	0	0	0	0	1997
	9840	120	435.2	194714	1	0	0	0	0	0	0	0	0	0	0	0	1997
*	13137	59	189.0	49912	0	1	0	0	0	0	0	0	0	0	0	2	1997
	10459	166	387.2	160496	0	1	0	0	0	0	0	0	0	0	0	0	1997
	10134	168	405.1	173947	0	1	0	0	0	0	0	0	0	0	0	0	1997
	10109	168	398.7	170639	0	0	1	0	0	0	0	0	0	0	0	0	1997
	10212	168	411.3	179282	0	0	1	0	0	0	0	0	0	0	0	0	1997
	10125	168	432.4	192365	0	0	1	0	0	0	0	0	0	0	0	0	1997
	10257	168	451.0	205440	0	0	1	0	0	0	0	0	0	0	0	0	1997
	10211	167	460.7	214256	0	0	0	1	0	0	0	0	0	0	0	0	1997
	10513	167	377.6	160881	0	0	0	1	0	0	0	0	0	0	0	0	1997
	10163	168	459.4	211500	0	0	0	1	0	0	0	0	0	0	0	0	1997
	10215	96	425.5	183397	0	0	0	1	0	0	0	0	0	0	0	0	1997
	10736	29	317.5	116301	0	0	0	0	1	0	0	0	0	0	0	1	1997
	10397	157	400.3	168885	0	0	0	0	1	0	0	0	0	0	0	0	1997
	10384	110	418.3	181814	0	0	0	0	1	0	0	0	0	0	0	1	1997
	10406	157	441.3	200684	0	0	0	0	1	0	0	0	0	0	0	0	1997
	10293	165	422.5	188920	0	0	0	0	1	0	0	0	0	0	0	0	1997
	10239	168	403.6	172114	0	0	0	0	0	1	0	0	0	0	0	0	1997
	10346	168	425.3	187103	0	0	0	0	0	1	0	0	0	0	0	0	1997
	10367	168	430.0	190572	0	0	0	0	0	1	0	0	0	0	0	0	1997
	10365	168	421.7	181660	0	0	0	0	0	1	0	0	0	0	0	0	1997
	10349	91	420.8	183395	0	0	0	0	0	0	1	0	0	0	0	0	1997
	10312	166	434.5	194546	0	0	0	0	0	0	1	0	0	0	0	1	1997
	10313	168	411.7	172947	0	0	0	0	0	0	1	0	0	0	0	0	1997
	10480	168	424.5	181953	0	0	0	0	0	0	1	0	0	0	0	0	1997
	10453	168	411.2	176328	0	0	0	0	0	0	0	1	0	0	0	0	1997
	10361	168	427.4	186660	0	0	0	0	0	0	0	1	0	0	0	0	1997
	10399	168	463.1	214743	0	0	0	0	0	0	0	1	0	0	0	0	1997
	10363	168	440.8	199395	0	0	0	0	0	0	0	1	0	0	0	0	1997
	10373	168	426.4	187242	0	0	0	0	0	0	0	1	0	0	0	0	1997
	10397	168	400.8	170577	0	0	0	0	0	0	0	0	1	0	0	0	1997
	10345	168	421.1	183222	0	0	0	0	0	0	0	0	1	0	0	0	1997
	10359	168	450.0	203364	0	0	0	0	0	0	0	0	1	0	0	0	1997
	10315	168	429.3	188643	0	0	0	0	0	0	0	0	1	0	0	0	1997
	10263	24	417.8	180295	0	0	0	0	0	0	0	0	1	0	0	0	1997

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 April 1998 - September 1998

Unit	Month	(1) Forecast AXW * 10^3	(2) Forecast LSRF * 10^6	(3) Forecast Monthly ANOHR	(4) Forecast AXW * 10^3 Generation	(5) Weighted ANOHR Target
CRIST 6	Apr '98	241.0	64,441	10,534	76,410	
	May '98	221.3	55,326	10,558	155,790	
	Jun '98	240.6	64,252	10,534	163,820	
	Jul '98	244.0	65,863	10,655	171,810	
	Aug '98	242.7	65,246	10,643	170,870	
	Sep '98	231.7	60,089	10,542	147,360	10,584
CRIST 7	Apr '98	441.3	210,969	10,247	186,690	
	May '98	428.2	199,930	10,414	295,450	
	Jun '98	460.9	227,890	10,221	307,420	
	Jul '98	459.4	226,578	10,374	317,020	
	Aug '98	464.5	231,050	10,216	320,510	
	Sep '98	433.6	204,454	10,258	289,230	10,291
SMITH 1	Apr '98	153.7	23,887	10,194	108,170	
	May '98	152.6	23,618	10,141	46,700	
	Jun '98	157.9	24,919	10,182	111,290	
	Jul '98	157.3	24,771	10,253	114,650	
	Aug '98	158.3	25,018	10,181	115,400	
	Sep '98	152.4	23,570	10,198	75,270	10,197

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 April 1998 - September 1998

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
SMITH 2	Apr '98	0.0	0	-	0	
	May '98	178.4	32,428	10,269	84,400	
	Jun '98	186.2	34,639	10,348	125,900	
	Jul '98	185.7	34,497	10,348	129,790	
	Aug '98	187.0	34,868	10,349	130,680	
	Sep '98	178.2	32,371	10,217	116,570	10,311
DANIEL 1	Apr '98	397.2	164,868	10,511	54,420	
	May '98	374.9	149,982	10,547	188,210	
	Jun '98	403.8	169,380	10,500	276,230	
	Jul '98	403.7	169,311	10,500	285,420	
	Aug '98	409.8	173,522	10,490	289,740	
	Sep '98	382.5	154,994	10,535	96,000	10,508
DANIEL 2	Apr '98	418.2	181,114	10,260	293,550	
	May '98	412.9	177,443	10,340	183,740	
	Jun '98	443.2	198,773	10,231	311,600	
	Jul '98	441.9	197,841	10,232	320,810	
	Aug '98	448.2	202,373	10,225	325,390	
	Sep '98	411.7	176,615	10,371	289,460	10,270

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

Summary of Target, Maximum, and Minimum
Average Net Operating Heat Rates
for April 1998 - September 1998

Unit	Target Heat Rate BTU/KWH (0 Points)	Minimum Attainable Heat Rate (+ 10 Points)	Maximum Attainable Heat Rate (- 10 Points)
CRIST 6	10,284	10,266	10,902
CRIST 7	10,291	9,982	10,600
SMITH 1	10,197	9,891	10,503
SMITH 2	10,311	10,002	10,620
DANIEL 1	10,508	10,193	10,823
DANIEL 2	10,270	9,962	10,578

II. DETERMINATION OF EQUIVALENT AVAILABILITY TARGETS

Calculation of
Target Equivalent Availabilities
for April 1998 - September 1998

Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR	Planned Outage Hours for Apr '98 - Sep '98	Reserve Shutdown Hours for Apr '98 - Sep '98	Target Equivalent Availability *
Crist 6	0.0660	384	0	85.2
Crist 7	0.1057	119	0	87.0
Smith 1	0.0346	600	0	83.4
Smith 2	0.0689	959	0	72.8
Daniel 1	0.0862	1,127	0	67.9
Daniel 2	0.0421	216	0	91.1

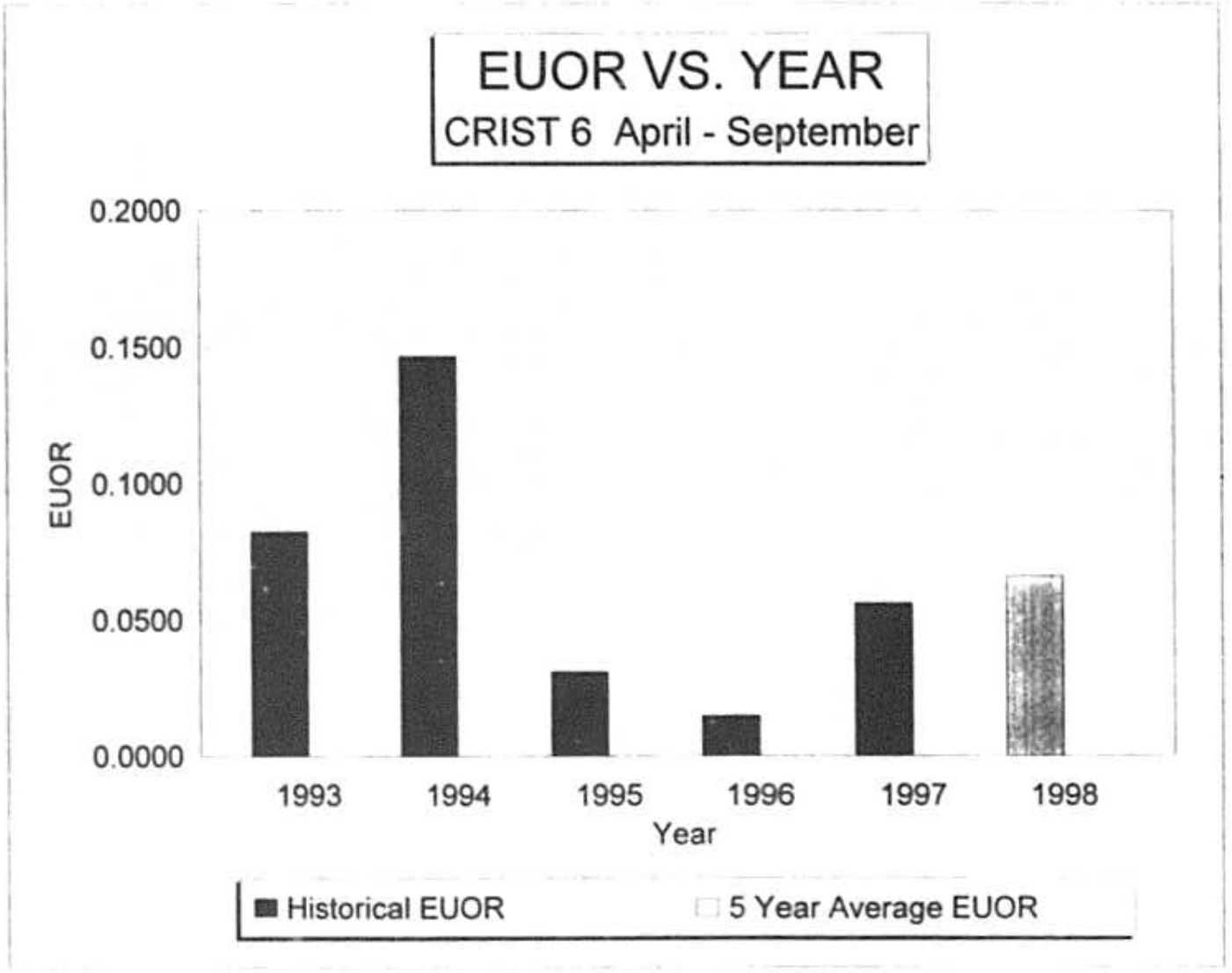
* EA = [1 - (POH * EUOR * (PH - POH - RSH)) / PH] * 100

Calculation of Maximum and Minimum
Attainable Equivalent Availabilities
for April 1998 - September 1998

Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR (TARGET EUOR)	Minimum Attainable EUOR 70% of Target EUOR	Maximum Attainable Equivalent Availability	Maximum Attainable EUOR 145% of Target EUOR	Minimum Attainable Equivalent Availability
Crist 6	0.0660	0.0462	87.0	0.0957	82.5
Crist 7	0.1057	0.0740	90.1	0.1533	82.4
Smith 1	0.0346	0.0242	84.2	0.0502	82.0
Smith 2	0.0689	0.0482	74.4	0.0999	70.4
Daniel 1	0.0862	0 0603	69.9	0.1250	65.0
Daniel 2	0.0421	0.0295	92.3	0.0610	89.3

Summary of Target, Maximum, and Minimum
Equivalent Availabilities
for April 1998 - September 1998

Unit	Target Equivalent Availability (0 Points)	Maximum Attainable Equivalent Availability (+10 Points)	Minimum Attainable Equivalent Availability (-10 Points)
Crist 6	85.2	87.0	82.5
Crist 7	87.0	90.1	82.4
Smith 1	83.4	84.2	82.0
Smith 2	72.8	74.4	70.4
Daniel 1	67.9	69.9	65.0
Daniel 2	91.1	92.3	89.3



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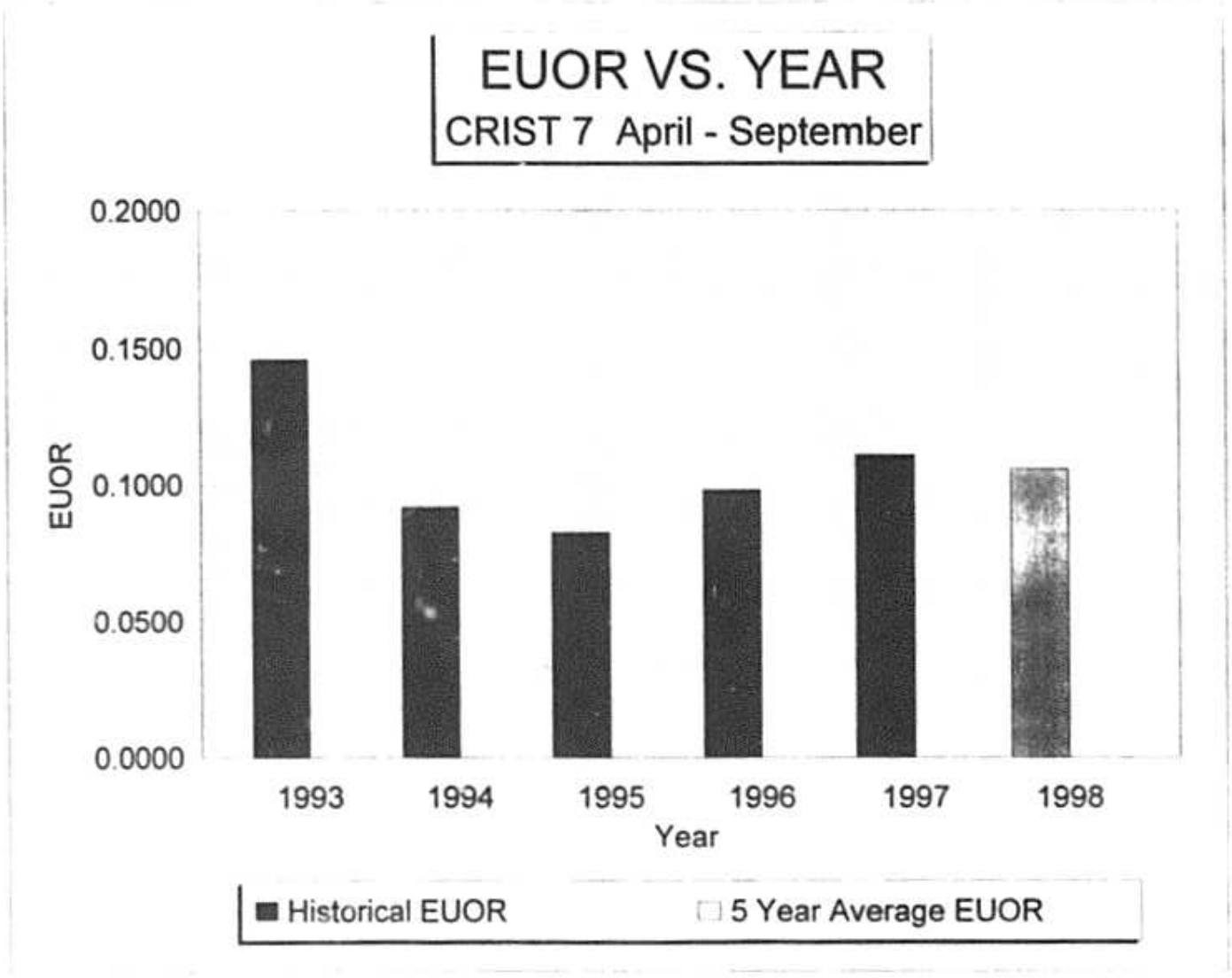

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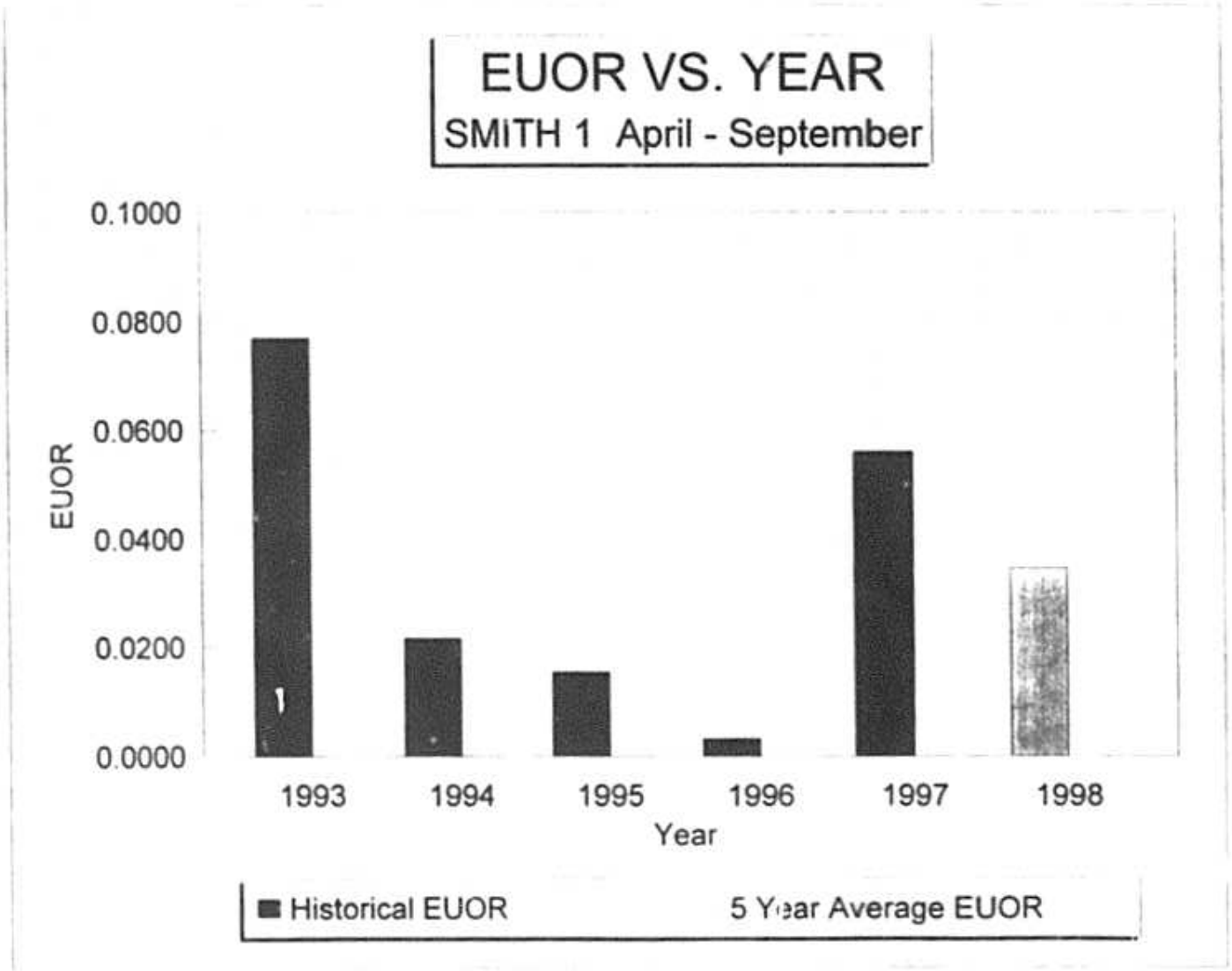

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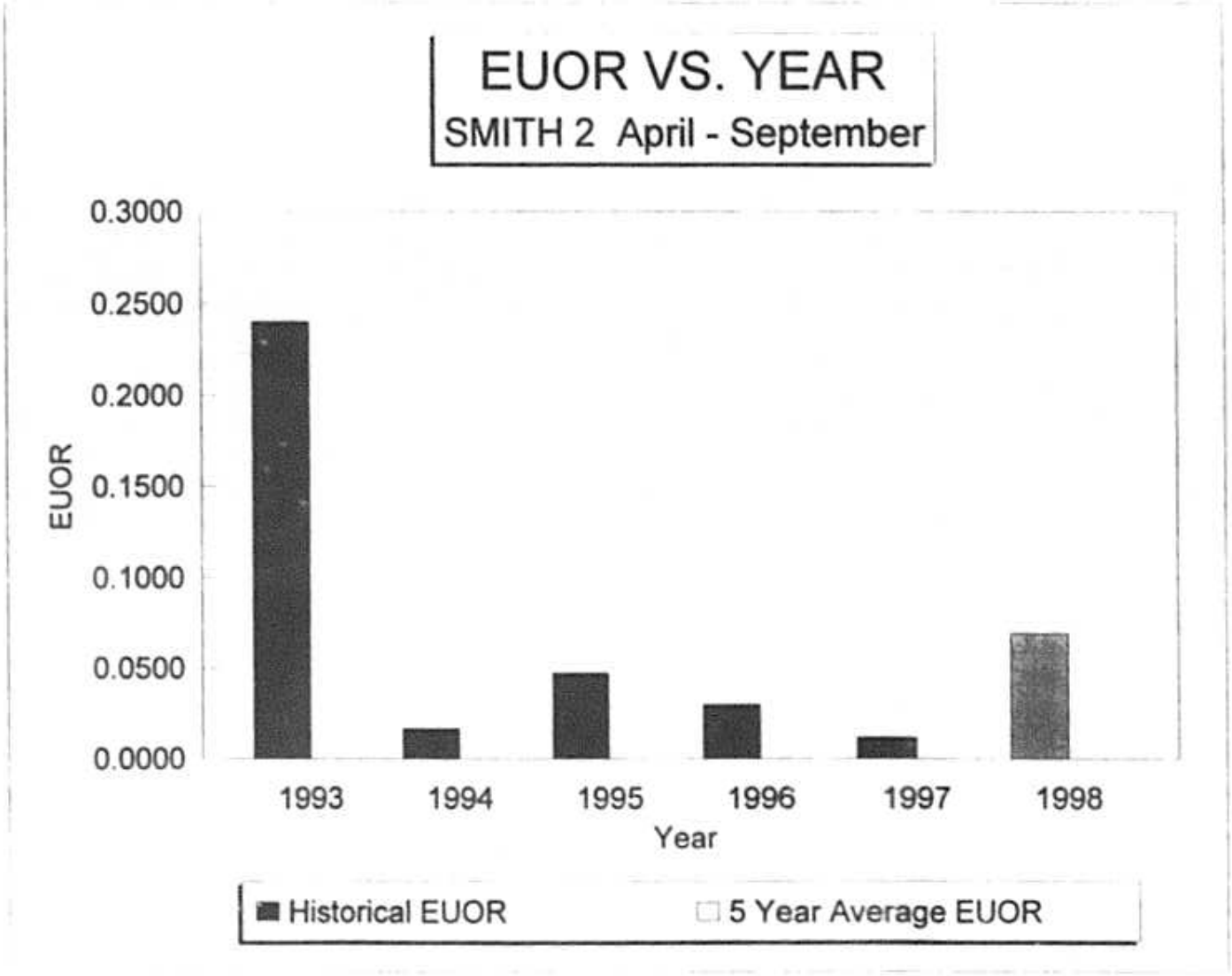

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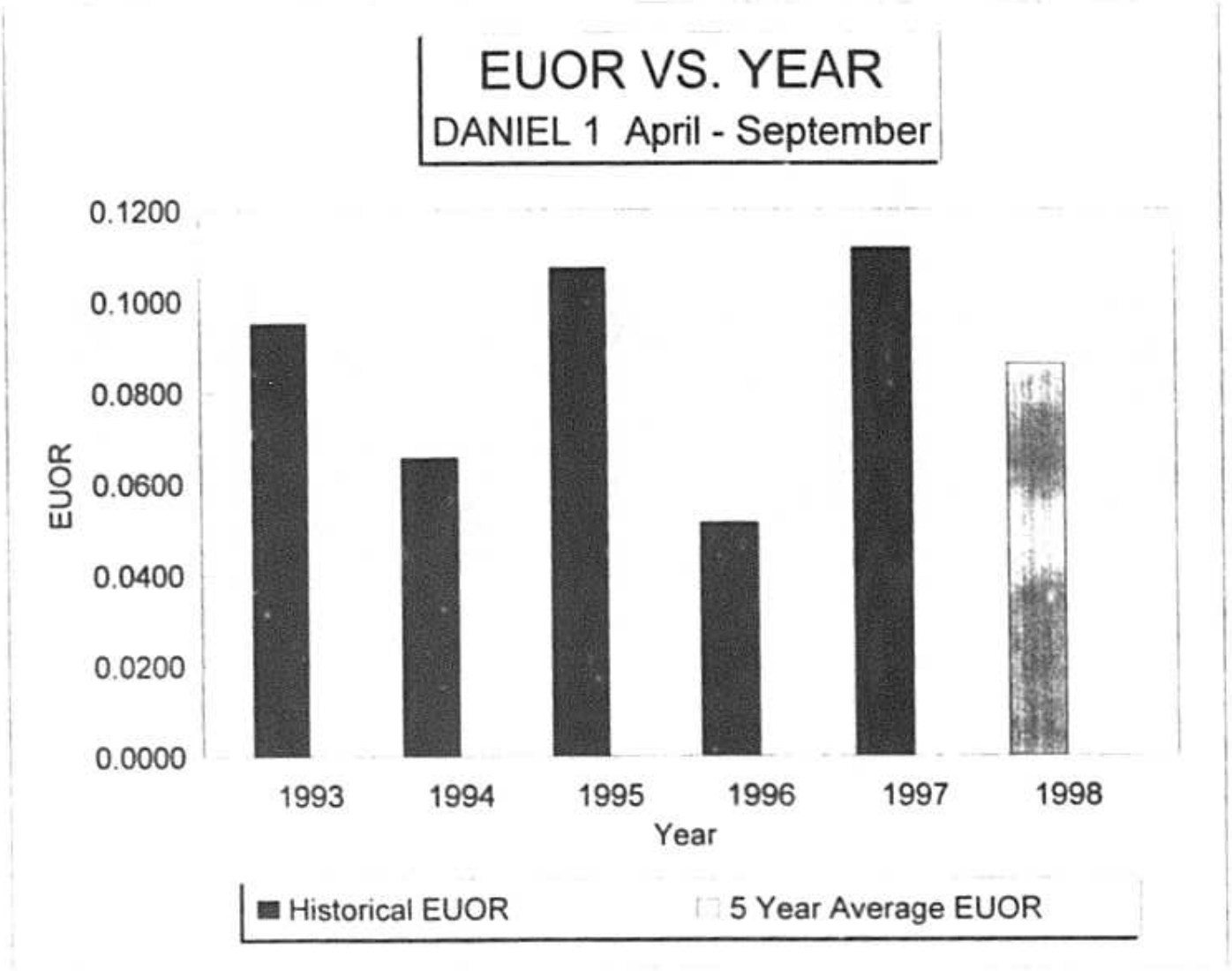

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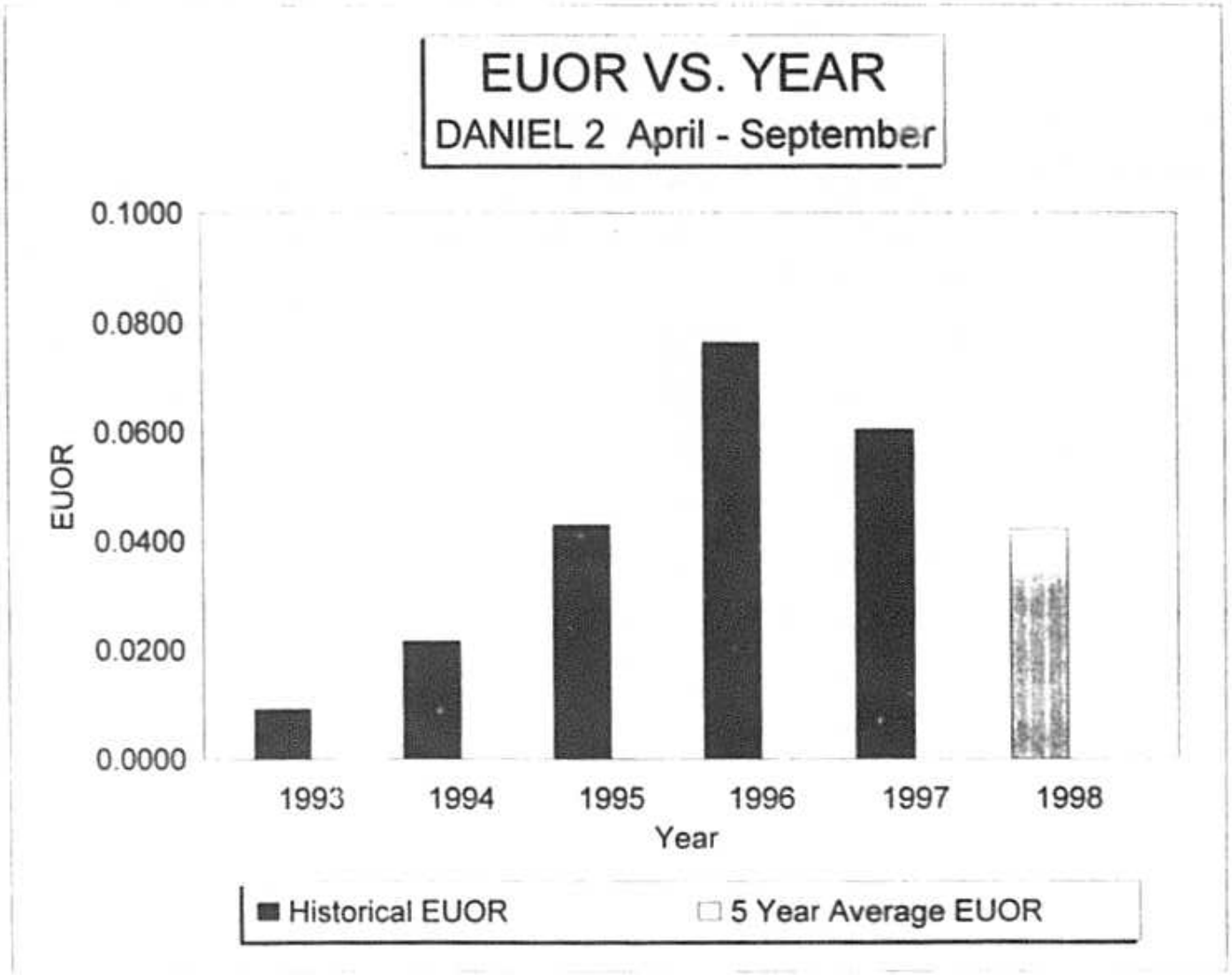

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III. GPIF MINIMUM FILING REQUIREMENTS FOR THE PERIOD APRIL 1998 - SEPTEMBER 1998

CONTENTS

Generating Performance Incentive Factor

Estimated Reward/Penalty Table

Gulf Power Company

Period of: April 1998 - September 1998

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	4073	843
+ 9	3666	759
+ 8	3258	674
+ 7	2851	590
+ 6	2444	506
+ 5	2037	421
+ 4	1629	337
+ 3	1222	253
+ 2	815	169
+ 1	407	84
0	0	0
- 1	-523	-84
- 2	-1047	-169
- 3	-1570	-253
- 4	-2093	-337
- 5	-2617	421
- 6	-3140	-506
- 7	-3663	-590
- 8	-4186	-674
- 9	-4710	-759
- 10	-5233	-843
	Minimum Attainable Fuel Loss	Maximum Incentive Dollars Allowed by Commission During Period (Penalty)

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Generating Performance Incentive Factor

Calculation of Maximum Allowed Incentive Dollars

Estimated

Gulf Power Company

Period of: April 1998 - September 1998

Line 1	Beginning of Period Balance of Common Equity	$423,694,000
	End of Month Balance of Common Equity:	
Line 2	Month of Apr '98	$410,725,000
Line 3	Month of May '98	$415,156,000
Line 4	Month of Jun '98	$423,643,000
Line 5	Month of Jul '98	$418,964,000
Line 6	Month of Aug '98	$428,519,000
Line 7	Month of Sep '98	$434,709,000
Line 8	Average Common Equity for the Period (sum of line 1 through line 7 divided by 7)	$422,201,429
Line 9	25 Basis Points	0.0025
Line 10	Revenue Expansion Factor	60.4524%
Line 11	Maximum Allowed Incentive Dollars (line 8 multiplied by line 9 divided by line 10 multiplied by 0.5)	$873,004
Line 12	Jurisdictional Sales (KWH)	5,126,248,000
Line 13	Total Territorial Sales (KWH)	5,309,710,000
Line 14	Jurisdictional Separation Factor (line 12 divided by line 13)	96.5448%
Line 15	Maximum Allowed Jurisdictional Incentive Dollars (line 11 multiplied by line 14)	$842,840

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GPIF Unit Performance Summary

Gulf Power Company

Period of: April 1998 - September 1998

Plant & Unit	Weighting Factor %	EAF Target %	EAF Range Max %	EAF Range Min %	Max Fuel Savings ($000)	Max Fuel Loss ($000)
Crist 6	2.5%	85.2	87.0	82.5	$102	($172)
Crist 7	13.2%	87.0	90.1	82.4	$549	($989)
Smith 1	3.4%	83.4	84.2	82.0	$137	($524)
Smith 2	0.8%	72.8	74.4	70.4	$31	($38)
Daniel 1	3.9%	67.9	69.9	65.0	$157	($151)
Daniel 2	7.2%	91.7	92.3	89.3	$295	($557)

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 6	10.5%	10,584	74.6	10,266	10,902	$428	($428)
Crist 7	19.8%	10,291	89.0	9,982	10,600	$806	($806)
Smith 1	3.7%	10,197	96.8	9,891	10,503	$150	($150)
Smith 2	3.7%	10,311	96.1	10,002	10,620	$149	($149)
Daniel 1	12.1%	10,508	83.5	10,193	10,823	$493	($493)
Daniel 2	19.1%	10,270	90.3	9,962	10,578	$776	($776)

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: April 1998 - September 1998

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Target			Actual Performance 1st Prior Period Apr '97 - Sep '97			Actual Performance 2nd Prior Period Apr '96 - Sep '96		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Crist 6	2.5%	8.0%	0.0875	0.0604	0.0660	0.0000	0.0549	0.0559	0.0957	0.0132	0.0146
Crist 7	13.5%	43.2%	0.0271	0.1027	0.1057	0.2200	0.0860	0.1107	0.2341	0.0750	0.0979
Smith 1	3.4%	10.8%	0.1366	0.0298	0.0346	0.0000	0.0560	0.0560	0.0807	0.0030	0.0032
Smith 2	0.8%	2.4%	0.2184	0.0537	0.0689	0.0884	0.0107	0.0117	0.0000	0.0296	0.0296
Daniel 1	3.9%	12.4%	0.2567	0.0640	0.086.	0.0400	0.1073	0.1117	0.0192	0.0490	0.0513
Daniel 2	7.2%	23.2%	0.0492	0.0401	0.0421	0.0480	0.0575	0.0604	0.0000	0.0764	0.0764
Weighted GPIF System Average:			0.0819	0.0709	0.0768	0.1133	0.0745	0.0864	0.1199	0.0583	0.0686

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: April 1998 - September 1998

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Actual Performance 3rd Prior Period Apr '95 - Sep '95			Actual Performance 4th Prior Period Apr '94 - Sep '94			Actual Performance 5th Prior Period Apr '93 - Sep '93		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Crist 6	2.5%	8.0%	0.0563	0.0249	0.0308	0.2866	0.0951	0.1464	0.0000	0.0798	0.0823
Crist 7	13.5%	43.2%	0.0000	0.0791	0.0824	0.0000	0.0849	0.0917	0.3007	0.1020	0.1459
Smith 1	3.4%	10.8%	0.0819	0.0142	0.0154	0.2646	0.0159	0.0216	0.0000	0.0770	0.0770
Smith 2	0.8%	2.4%	0.0882	0.0428	0.0469	0.0000	0.0164	0.0164	0.1834	0.1959	0.2400
Daniel 1	3.9%	12.4%	0.0494	0.0983	0.1073	0.0201	0.0642	0.0656	0.0000	0.0807	0.0952
Daniel 2	7.2%	23.2%	0.0109	0.0402	0.0428	0.0000	0.0205	0.0216	0.0000	0.0086	0.0091
Weighted GPIF System Average:			0.0241	0.0602	0.0641	0.0540	0.0591	0.0672	0.1344	0.0755	0.0977

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Average Net Operating Heat Rate

Gulf Power Company

Period of: April 1998 - September 1998

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Heat Rate Target	1st Prior Period Heat Rate Apr '97 - Sep '97	2nd Prior Period Heat Rate Apr '96 - Sep '96	3rd Prior Period Heat Rate Apr '95 - Sep '95
Crist 6	10.5%	15.3%	10,584	10,592	10,391	10,898
Crist 7	19.8%	28.8%	10,291	10,287	10,104	10,506
Smith 1	3.7%	5.4%	10,197	10,161	10,233	10,226
Smith 2	3.7%	5.3%	10,311	10,197	10,385	10,360
Daniel 1	12.1%	17.6%	10,508	10,587	10,401	10,559
Daniel 2	19.1%	27.7%	10,270	10,336	10,377	10,174
Weighted GPIF System Average:			10,364	10,388	10,298	10,461

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Example Calculation of Prior Season

Average Net Operating Heat Rate

Adjusted to Target Basis

Crist 6 Apr '96 - Sep '96

	Apr	May	Jun	Jul	Aug	Sep	
1. Target Heat Rate*	10534	10558	10534	10655	10643	10542	
2. Target Heat Rate at Actual Conditions**	10857	10826	10742	10824	10908	10837	
3. Adjustments to Actual Heat Rate (1-2)	-323	-268	-208	-169	-265	-295	
4. Actual Heat Rate for Prior Period	10898	10735	10584	10527	10629	10598	
5. Adjusted actual Heat Rate (4+3)	10575	10467	10376	10358	10364	10303	
6. Forecast Net MWH Generation*	76410	155790	163820	171810	170870	147360	
7. Adjusted Actual Heat Rate for Apr '96 - Sep '96 = (Σ ((5)*(6)))/(Σ (6))							10,391

* For the April 1998 - September 1998 time period.

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

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Derivation of Weighting Factors

Gulf Power Company

Period of: April 1998 - September 1998

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 6	EA-1	$94,875	$94,773	$102	2.5%
Crist 6	ANOHR-1	$94,875	$94,447	$428	10.5%
Crist 7	EA-2	$94,875	$94,326	$549	13.5%
Crist 7	ANOHR-2	$94,875	$94,069	$806	19.8%
Smith 1	EA-3	$94,875	$94,738	$137	3.4%
Smith 1	ANOHR-3	$94,875	$94,725	$150	3.7%
Smith 2	EA-4	$94,87	$94,844	$31	0.8%
Smith 2	ANOHR-4	$94,875	$94,726	$149	3.7%
Daniel 1	EA-5	$94,875	$94,718	$157	3.9%
Daniel 1	ANOHR-5	$94,875	$94,382	$493	12.1%
Daniel 2	EA-6	$94,875	$94,580	$295	7.2%
Daniel 2	ANOHR-6	$94,875	$94,099	$776	19.1%

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

(2) All other unit performance indicators at target.

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

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: April 1998 - September 1998

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	102	87.00	+ 10	428	10,266
+ 9	92	86.82	+ 9	385	10,290
+ 8	82	86.64	+ 8	342	10,315
+ 7	71	86.46	+ 7	300	10,339
+ 6	61	86.28	+ 6	257	10,363
+ 5	51	86.10	+ 5	214	10,388
+ 4	41	85.92	+ 4	171	10,412
+ 3	31	85.74	+ 3	128	10,436
+ 2	20	85.56	+ 2	86	10,460
+ 1	10	85.38	+ 1	43	10,485
				0	10,509
0	0	85.20	0	0	10,584
				0	10,659
- 1	(17)	84.93	- 1	(43)	10,683
- 2	(34)	84.66	- 2	(86)	10,708
- 3	(52)	84.39	- 3	(128)	10,732
- 4	(69)	84.12	- 4	(171)	10,756
- 5	(86)	83.85	- 5	(214)	10,781
- 6	(103)	83.58	- 6	(257)	10,805
- 7	(120)	83.31	- 7	(300)	10,829
- 8	(138)	83.04	- 8	(342)	10,853
- 9	(155)	82.77	- 9	(385)	10,878
- 10	(172)	82.50	- 10	(428)	10,902
Weighting Factor:		0.025	Weighting Factor:		0.105

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: April 1998 - September 1998

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	549	90.10	+ 10	806	9,982
+ 9	494	89.79	+ 9	725	10,005
+ 8	439	89.48	+ 8	645	10,029
+ 7	384	89.17	+ 7	564	10,052
+ 6	329	88.86	+ 6	484	10,076
+ 5	275	88.55	+ 5	403	10,099
+ 4	220	88.24	+ 4	322	10,122
+ 3	165	87.93	+ 3	242	10,146
+ 2	110	87.62	+ 2	161	10,169
+ 1	55	87.31	+ 1	81	10,193
				0	10,216
0	0	87.00	0	0	10,291
				0	10,366
- 1	(99)	86.54	- 1	(81)	10,389
- 2	(198)	86.08	- 2	(161)	10,413
- 3	(297)	85.62	- 3	(242)	10,436
- 4	(396)	85.16	- 4	(322)	10,460
- 5	(495)	84.70	- 5	(403)	10,483
- 6	(593)	84.24	- 6	(484)	10,506
- 7	(692)	83.78	- 7	(564)	10,530
- 8	(791)	83.32	- 8	(645)	10,553
- 9	(890)	82.86	- 9	(725)	10,577
- 10	(989)	82.40	- 10	(806)	10,600
Weighting Factor:		0.135	Weighting Factor:		0.198

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: April 1998 - September 1998

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	137	84.20	+ 10	150	9,891
+ 9	123	84.12	+ 9	135	9,914
+ 8	110	84.04	+ 8	120	9,937
+ 7	96	83.96	+ 7	105	9,960
+ 6	82	83.88	+ 6	90	9,983
+ 5	69	83.80	+ 5	75	10,007
+ 4	55	83.72	+ 4	60	10,030
+ 3	41	83.64	+ 3	45	10,053
+ 2	27	83.56	+ 2	30	10,076
+ 1	14	83.48	+ 1	15	10,099
				0	10,122
0	0	83.40	0	0	10,197
				0	10,272
- 1	(52)	83.26	- 1	(15)	10,295
- 2	(105)	83.12	- 2	(30)	10,318
- 3	(157)	82.98	- 3	(45)	10,341
- 4	(210)	82.84	- 4	(60)	10,364
- 5	(262)	82.70	- 5	(75)	10,388
- 6	(314)	82.56	- 6	(90)	10,411
- 7	(367)	82.42	- 7	(105)	10,434
- 8	(419)	82.28	- 8	(120)	10,457
- 9	(472)	82.14	- 9	(135)	10,480
- 10	(524)	82.00	- 10	(150)	10,503
Weighting Factor:		0.034	Weighting Factor:		0.037

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: April 1998 - September 1998

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	31	74.40	+ 10	149	10,002
+ 9	28	74.24	+ 9	134	10,025
+ 8	25	74.08	+ 8	119	10,049
+ 7	22	73.92	+ 7	104	10,072
+ 6	19	73.76	+ 6	89	10,096
+ 5	16	73.60	+ 5	75	10,119
+ 4	12	73.44	+ 4	60	10,142
+ 3	9	73.28	+ 3	45	10,166
+ 2	6	73.12	+ 2	30	10,189
+ 1	3	72.96	+ 1	15	10,213
				0	10,236
0	0	72.80	0	0	10,311
				0	10,386
- 1	(4)	72.56	- 1	(15)	10,409
- 2	(8)	72.32	- 2	(30)	10,433
- 3	(11)	72.08	- 3	(45)	10,456
- 4	(15)	71.84	- 4	(60)	10,480
- 5	(19)	71.60	- 5	(75)	10,503
- 6	(23)	71.36	- 6	(89)	10,526
- 7	(27)	71.12	- 7	(104)	10,550
- 8	(30)	70.88	- 8	(119)	10,573
- 9	(34)	70.64	- 9	(134)	10,597
- 10	(38)	70.40	- 10	(149)	10,620
Weighting Factor:		0.008	Weighting Factor:		0.037

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: April 1998 - September 1998

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	157	69.90	+ 10	493	10,193
+ 9	141	69.70	+ 9	444	10,217
+ 8	126	69.50	+ 8	394	10,241
+ 7	110	69.30	+ 7	345	10,265
+ 6	94	69.10	+ 6	296	10,289
+ 5	79	68.90	+ 5	247	10,313
+ 4	63	68.70	+ 4	197	10,337
+ 3	47	68.50	+ 3	148	10,361
+ 2	31	68.30	+ 2	99	10,385
+ 1	16	68.10	+ 1	49	10,409
				0	10,433
0	0	67.90	0	0	10,508
				0	10,583
- 1	(15)	67.61	- 1	(49)	10,607
- 2	(30)	67.32	- 2	(99)	10,631
- 3	(45)	67.03	- 3	(148)	10,655
- 4	(60)	66.74	- 4	(197)	10,679
- 5	(76)	66.45	- 5	(247)	10,703
- 6	(91)	66.16	- 6	(296)	10,727
- 7	(106)	65.87	- 7	(345)	10,751
- 8	(121)	65.58	- 8	(394)	10,775
- 9	(136)	65.29	- 9	(444)	10,799
- 10	(151)	65.00	- 10	(493)	10,823
Weighting Factor:		0.039	Weighting Factor:		0.121

Issued by: T. J. Bowden

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: April 1998 - September 1998

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	295	92.30	+ 10	776	9,962
+ 9	266	92.18	+ 9	698	9,985
+ 8	236	92.06	+ 8	621	10,009
+ 7	207	91.94	+ 7	543	10,032
+ 6	177	91.82	+ 6	466	10,055
+ 5	148	91.70	+ 5	388	10,079
+ 4	118	91.58	+ 4	310	10,102
+ 3	89	91.46	+ 3	233	10,125
+ 2	59	91.34	+ 2	155	10,148
+ 1	30	91.22	+ 1	78	10,172
				0	10,195
0	0	91.10	0	0	10,270
				0	10,345
- 1	(56)	90.92	- 1	(78)	10,368
- 2	(111)	90.74	- 2	(155)	10,392
- 3	(167)	90.56	- 3	(233)	10,415
- 4	(223)	90.38	- 4	(310)	10,438
- 5	(279)	90.20	- 5	(388)	10,462
- 6	(334)	90.02	- 6	(466)	10,485
- 7	(390)	89.84	- 7	(543)	10,508
- 8	(446)	89.66	- 8	(621)	10,531
- 9	(501)	89.48	- 9	(698)	10,555
- 10	(557)	89.30	- 10	(776)	10,578
Weighting Factor:		0.072	Weighting Factor:		0.191

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ESTIMATED UNIT PERFORMANCE DATA

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: April 1998 - September 1998

	CRIST 6	Apr '98	May '98	Jun '98	Jul '98	Aug '98	Sep '98	Total
1.	EAF (%)	43.5	94.6	94.6	94.6	94.6	88.3	85.2
2.	POF (%)	53.4	0.0	0.0	0.0	0.0	0.0	8.7
3.	EUOF (%)	3.1	5.4	5.4	5.4	5.4	11.7	6.1
4.	EUOR (%)	6.6	5.4	5.4	5.4	5.4	11.7	6.6
5.	PH	719.0	744.0	720.0	744.0	744.0	720.0	4391.0
6.	SH	317.0	704.0	681.0	704.0	704.0	636.0	3746.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	402.0	40.0	39.0	40.0	40.0	84.0	645.0
9.	POH	384.0	0.0	0.0	0.0	0.0	0.0	384.0
10.	FOH & EFOH	22.0	40.0	39.0	40.0	40.0	36.0	217.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	48.0	48.0
12.	Oper MBtu	804903.0	1644831.0	1725680.0	1830636.0	1818569.0	1553469.0	9378088.0
13.	Net Gen (MWH)	76410.0	155790.0	163820.0	171810.0	170870.0	147360.0	886060.0
14.	ANOHR (Btu/KWH)	10534.0	10558.0	10534.0	10655.0	10643.0	10542.0	10584.0
15.	NOF %	76.0	69.8	75.9	77.0	76.6	73.1	74.6
16.	NPC (MW)	317.0	317.0	317.0	317.0	317.0	317.0	317.0

19. ANOHR Equation: 10^6 / AKW * [593.85 - 27.74 * JAN - 40.10 * MAR + 30.09 * JUL + 26.73 * AUG - 25.29 * OCT]

+ 5.067 + 0.01123 * LSRF / AKW

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: April 1998 - September 1998

	CRIST 7	Apr '98	May '98	Jun '98	Jul '98	Aug '98	Sep '98	Total
1.	EAF (%)	58.0	92.7	92.6	92.7	92.7	92.6	87.0
2.	POF (%)	16.6	0.0	0.0	0.0	0.0	0.0	2.7
3.	EUOF (%)	25.4	7.3	7.4	7.3	7.3	7.4	10.3
4.	EUOR	30.5	7.3	7.4	7.3	7.3	7.4	10.6
5.	PH	719.0	744.0	720.0	744.0	744.0	720.0	4391.0
6.	SH	423.0	690.0	667.0	690.0	690.0	667.0	3827.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	296.0	54.0	53.0	54.0	54.0	53.0	564.0
9.	POH	119.0	0.0	0.0	0.0	0.0	0.0	119.0
10.	FOH & EFOH	39.0	54.0	53.0	54.0	54.0	53.0	307.0
11.	MOH & EMOH	144.0	0.0	0.0	0.0	0.0	0.0	144.0
12.	Oper MBtu	1913012.0	3076816.0	3142140.0	3288765.0	3274330.0	2966921.0	17661984.0
13.	Net Gen (MWH)	186690.0	295450.0	307420.0	317020.0	320510.0	289230.0	1716320.0
14.	ANOHR (Btu/KWH)	10247.0	10414.0	10221.0	10374.0	10216.0	10258.0	10291.0
15.	NOF %	87.6	85.0	91.4	91.2	92.2	86.0	89.0
16.	NPC (MW)	504.0	504.0	504.0	504.0	504.0	504.0	504.0

19. ANOHR Equation: 10^6 / AKW * [276.36 + 63.12 * MAY + 69.54 * JUL] + 9,621

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: April 1998 - September 1998

	SMITH 1	Apr '98	May '98	Jun '98	Jul '98	Aug '98	Sep '98	Total
1.	EAF (%)	97.9	41.1	97.9	98.0	98.0	67.6	83.4
2.	POF (%)	0.0	51.6	0.0	0.0	0.0	30.0	13.7
3.	EUOF (%)	2.1	7.3	2.1	2.0	2.0	2.4	2.9
4.	EUOR (%)	2.1	15.0	2.1	2.0	2.0	3.4	3.5
5.	PH	719.0	744.0	720.0	744.0	744.0	720.0	4391.0
6.	SH	705.0	306.0	705.0	729.0	729.0	494.0	3667.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	15.0	438.0	15.0	15.0	15.0	226.0	724.0
9.	POH	0.0	384.0	0.0	0.0	0.0	216.0	600.0
10.	FOH & EFOH	15.0	6.0	15.0	15.0	15.0	17.0	83.0
11.	MOH & EMOH	0.0	48.0	0.0	0.0	0.0	0.0	48.0
12.	Oper MBtu	1102685.0	473585.0	1133155.0	1175506.0	1174887.0	767603.0	5827421.0
13.	Net Gen (MWH)	108170.0	46700.0	111290.0	114650.0	115400.0	75270.0	571480.0
14.	ANOHR (Btu/KWH)	10194.0	10141.0	10182.0	10253.0	10181.0	10198.0	10197.0
15.	NOF %	95.4	94.8	98.0	97.7	98.3	94.6	96.8
16.	NPC (MW)	161.0	161.0	161.0	161.0	161.0	161.0	161.0
19.	ANOHR Equation	10^6 / AKW * [69.20 + 18.16 * JAN + 12.44 * FEB + 15.12 * MAR - 8.67 * MAY + 10.92 * JUL] + 9,744						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: April 1998 - September 1998

	SMITH 2	Apr '98	May '98	Jun '98	Jul '98	Aug '98	Sep '98	Total
1.	EAF (%)	0.0	62.9	93.9	94.0	94.0	90.8	72.8
2.	POF (%)	100.0	32.3	0.0	0.0	0.0	0.0	21.8
3.	EUOF (%)	0.0	4.8	6.1	6.0	6.0	9.2	5.4
4.	EUOR (%)	0.0	7.1	6.1	6.0	6.0	9.2	6.9
5.	PH	719.0	744.0	720.0	744.0	744.0	720.0	4391.0
6.	SH	0.0	473.0	676.0	699.0	699.0	654.0	3201.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	719.0	271.0	44.0	45.0	45.0	66.0	1190.0
9.	POH	719.0	240.0	0.0	0.0	0.0	0.0	959.0
10.	FOH & EFOH	0.0	36.0	44.0	45.0	45.0	42.0	212.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	24.0	24.0
12.	Oper MBtu	0.0	866704.0	1302813.0	1343067.0	1352407.0	1190996.0	6055987.0
13.	Net Gen (MWH)	0.0	84400.0	125900.0	129790.0	130680.0	116570.0	587340.0
14.	ANOHR (Btu/KWH)	-	10269.0	10348.0	10348.0	10349.0	10217.0	10311.0
15.	NOF %	0.0	93.4	97.5	97.2	97.9	93.3	96.1
16.	NPC (MW)	191.0	191.0	191.0	191.0	191.0	191.0	191.0
19.	ANOHR Equation	10^6 / AKW * [-18.22 + 16.52 * MAR - 13.41 * MAY - 22.58 * SEP - 13.92 * NOV]						
		+ 10,446						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: April 1998 - September 1998

	DANIEL 1	Apr '98	May '98	Jun '98	Jul '98	Aug '98	Sep '98	Total
1.	EAF (%)	18.4	67.5	95.0	95.0	95.0	34.9	67.9
2.	POF (%)	63.3	29.0	0.0	0.0	0.0	63.3	25.7
3.	EUOF (%)	18.3	3.5	5.0	5.0	5.0	1.8	6.4
4.	EUOR (%)	50.0	4.9	5.0	5.0	5.0	4.9	8.6
5.	PH	719.0	744.0	720.0	744.0	744.0	720.0	4391.0
6.	SH	137.0	502.0	684.0	707.0	707.0	251.0	2988.0
7.	RSH	3.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	582.0	242.0	36.0	37.0	37.0	469.0	1403.0
9.	POH	455.0	216.0	0.0	0.0	0.0	456.0	1127.0
10.	FOH & EFOH	12.0	26.0	36.0	37.0	37.0	13.0	161.0
11.	MOH & EMOH	120.0	0.0	0.0	0.0	0.0	0.0	120.0
12.	Oper MBtu	572009.0	1985051.0	2900415.0	2996910.0	3039373.0	1011360.0	12505118.0
13.	Net Gen (MWH)	54420.0	188210.0	276230.0	285420.0	289740.0	96000.0	1190020.0
14.	ANOHR (Btu/KWH)	10511.0	10547.0	10500.0	10500.0	10490.0	10535.0	10508.0
15.	NOF %	83.3	78.6	84.7	84.6	85.9	80.2	83.5
16.	NPC (MW)	477.0	477.0	477.0	477.0	477.0	477.0	477.0
19.	ANOHR Equation	10^6 / AKW * [-103.81 - 44.15 * MAR - 40.19 * NOV] + 12,196 - 0.00343 * LSRF / AKW						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: April 1998 - September 1998

	DANIEL 2	Apr '98	May '98	Jun '98	Jul '98	Aug '98	Sep '98	Total
1.	EAF (%)	97.6	59.0	97.6	97.6	97.6	97.6	91.1
2.	POF (%)	0.0	29.0	0.0	0.0	0.0	0.0	4.9
3.	EUOF (%)	2.4	12.0	2.4	2.4	2.4	2.4	4.0
4.	EUOR (%)	2.4	16.9	2.4	2.4	2.4	2.4	4.2
5.	PH	719.0	744.0	720.0	744.0	744.0	720.0	4391.0
6.	SH	702.0	445.0	703.0	726.0	726.0	703.0	4005.0
7.	RSH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8.	UH	17.0	299.0	17.0	18.0	18.0	17.0	386.0
9.	POH	0.0	216.0	0.0	0.0	0.0	0.0	216.0
10.	FOH & EFOH	17.0	17.0	17.0	18.0	18.0	17.0	104.0
11.	MOH & EMOH	0.0	72.0	0.0	0.0	0.0	0.0	72.0
12.	Oper MBtu	3011823.0	1899872.0	3187980.0	3282528.0	3327113.0	3001990.0	17711306.0
13.	Net Gen (MWH)	293550.0	183740.0	311600.0	320810.0	325390.0	289460.0	1724550.0
14.	ANOHR (Btu/KWH)	10260.0	10340.0	10231.0	10232.0	10225.0	10371.0	10270.0
15.	NOF %	87.7	86.6	92.9	92.6	94.0	86.3	90.3
16.	NPC (MW)	477.0	477.0	477.0	477.0	477.0	477.0	477.0
19.	ANOHR Equation	10^6 / AKW * [218.47 + 30.22 * MAY + 42.12 * SEP] + 9.738						

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Planned Outage Schedules (Estimated)

Gulf Power Company

Period of: April 1998 - September 1998

Plant & Unit	Planned Outage Dates	Reason for Outage
Crist 6	04/11/98 - 04/26/98	Semi-annual general boiler maintenance and inspection.
Crist 7	03/21/98 - 04/05/98	Semi-annual general boiler maintenance and inspection.
Smith 1	05/16/98 - 05/31/98	Semi-annual general boiler maintenance and inspection.
Smith 1	09/19/98 - 09/27/98	Semi-annual general boiler maintenance and inspection.
Smith 2	02/28/98 - 05/10/98	General turbine & boiler maintenance and inspection.
Daniel 1	03/07/98 - 04/19/98	Semi-annual general boiler maintenance and inspection.
Daniel 1	05/23/98 - 05/31/98	Precipitator wash, maintenance and inspection.
Daniel 1	09/12/98 - 12/13/98	General turbine & boiler maintenance and inspection.
Daniel 2	05/02/98 - 05/10/98	Precipitator wash, maintenance and inspection.

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Notes Regarding Estimated Planned Outage Schedules

Gulf Power Company

Period of: April 1998 - September 1998

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 April 1998 - September 1998, the outages shown below are currently planned and could be rescheduled for the target period.

Plant & Unit	Planned Outage Dates	Reason for Outage
Crist 6	10/17/98 - 10/25/98	Semi-annual general boiler maintenance and inspection.
Crist 7	10/31/98 - 11/08/98	Semi-annual general boiler maintenance and inspection.
Smith 2	12/12/98 - 12/20/98	Semi-annual general boiler maintenance and inspection.
Daniel 2	10/10/98 - 10/18/98	Semi-annual general boiler maintenance and inspection.

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AFFIDAVIT

STATE OF FLORIDA)
)
COUNTY OF ESCAMBIA)

Docket No. 980001-EI

Before me the undersigned authority, personally appeared George D. Fontaine, who being first duly sworn, deposes, and says that he is the Performance Test Specialist for Gulf Power Company, a Maine Corporation, and that the foregoing is true and correct to the best of his knowledge, information, and belief. He is personally known to me.

George D. Fontaine
Performance Test Specialist

Sworn to and subscribed before me this 9th day of January, 1998.

Rollanda R. Cothran
Notary Public, State of Florida at Large

ROLLANDA R. COTHRAN
MY COMMISSION # CC 607388
EXPIRES: February 28, 2002
Bonded Thru Notary Public Underwriters