

EXHIBIT TO THE TESTIMONY OF

C. L. NICHOLSON

IN FPSC DOCKET 20170001-EI

I. DETERMINATION OF HEAT RATE TARGETS

Target Heat Rate Equations

$$\text{Scherer 3 ANOHR} = 10^6 / \text{AKW} * [532.42 - 83.71 * \text{MAR} + 152.71 * \text{MAY}]$$

$$+ 9,692$$

$$\text{Crist 7 ANOHR} = 10^6 / \text{AKW} * [330.88 - 62.20 * \text{JAN} - 68.36 * \text{FEB} - 48.28 * \text{MAR} - 28.26 * \text{NOV}]$$

$$+ 9,711 - 0.00043 * \text{LSRF} / \text{AKW}$$

$$\text{Daniel 1 ANOHR} = 10^6 / \text{AKW} * [481.17 + 92.71 * \text{JAN} + 85.98 * \text{MAY}]$$

$$+ 8,753 + 0.00100 * \text{LSRF} / \text{AKW}$$

$$\text{Daniel 2 ANOHR} = 10^6 / \text{AKW} * [606.70 + 74.51 * \text{JAN} - 120.51 * \text{FEB} + 58.65 * \text{MAY} + 44.01 * \text{JUN} - 44.62 * \text{SEP} - 81.23 * \text{OCT} - 185.41 * \text{NOV}]$$

$$+ 8,600$$

$$\text{Smith 3 ANOHR} = 10^6 / \text{AKW} * [144.47 + 12.50 * \text{APR} - 81.62 * \text{OCT}]$$

$$+ 6,675$$

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 SCHERER 3 Target Heat Rate Equation

HtRt	HR	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR
11140	168	615.27	434428	0	0	0	0	0	0	1	0	0	0	0	0	2014 JUL
10885	165	624.32	442508	0	0	0	0	0	0	1	0	0	0	0	0	2014
10771	168	481.25	276606	0	0	0	0	0	0	1	0	0	0	0	0	2014
10448	168	629.71	453293	0	0	0	0	0	0	1	0	0	0	0	0	2014
10500	168	578.29	394099	0	0	0	0	0	0	0	1	0	0	0	0	2014
10739	168	538.54	341290	0	0	0	0	0	0	0	1	0	0	0	0	2014
11042	168	514.49	310081	0	0	0	0	0	0	0	1	0	0	0	0	2014
10984	168	566.71	378203	0	0	0	0	0	0	0	1	0	0	0	0	2014
10774	168	556.72	370409	0	0	0	0	0	0	0	1	0	0	0	0	2014
10638	168	587.61	404528	0	0	0	0	0	0	0	0	1	0	0	0	2014
10584	168	532.53	332214	0	0	0	0	0	0	0	0	1	0	0	0	2014
11029	168	482.73	264704	0	0	0	0	0	0	0	0	1	0	0	0	2014
10848	145	449.57	200778	0	0	0	0	0	0	0	0	1	0	0	0	2014
10959	165	533.24	322211	0	0	0	0	0	0	0	0	1	0	0	0	2014
10529	168	603.48	398486	0	0	0	0	0	0	0	0	0	1	0	0	2014
11178	168	407.32	184539	0	0	0	0	0	0	0	0	0	1	0	0	2014
11101	168	402.63	179660	0	0	0	0	0	0	0	0	0	1	0	0	2014
11048	168	396.23	173427	0	0	0	0	0	0	0	0	0	1	0	0	2014
11284	168	405.97	180430	0	0	0	0	0	0	0	0	0	0	1	0	2014
10797	168	647.46	469412	0	0	0	0	0	0	0	0	0	0	0	1	2014
10815	168	617.15	428615	0	0	0	0	0	0	0	0	0	0	1	0	2014
11116	168	437.03	227924	0	0	0	0	0	0	0	0	0	0	1	0	2014
10939	70	421.84	90993	0	0	0	0	0	0	0	0	0	0	0	0	2014 DEC
10721	31	716.55	125714	0	0	0	0	0	0	0	0	0	0	0	1	2014
10657	168	489.26	274234	0	0	0	0	0	0	0	0	0	0	0	0	2014
11480	168	334.02	118203	0	0	0	0	0	0	0	0	0	0	0	0	2014
11016	168	378.18	163220	1	0	0	0	0	0	0	0	0	0	0	0	2015 JAN
10995	168	461.85	255166	1	0	0	0	0	0	0	0	0	0	0	0	2015
10843	168	486.92	292172	1	0	0	0	0	0	0	0	0	0	0	0	2015
11175	168	431.68	224295	1	0	0	0	0	0	0	0	0	0	0	0	2015
11067	168	440.23	230647	0	1	0	0	0	0	0	0	0	0	0	0	2015
11287	168	401.79	192336	0	1	0	0	0	0	0	0	0	0	0	0	2015
10870	168	536.42	344942	0	1	0	0	0	0	0	0	0	0	0	0	2015
10457	168	797.71	657144	0	1	0	0	0	0	0	0	0	0	0	0	2015
10416	144	753.37	516953	0	0	1	0	0	0	0	0	0	0	0	0	2015
10180	71	710.41	236391	0	0	1	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2015
*18180	9	186.33	5855	0	0	0	0	1	0	0	0	0	0	0	1	2015
11313	168	625.54	441802	0	0	0	0	1	0	0	0	0	0	0	0	2015
11625	168	499.21	294687	0	0	0	0	1	0	0	0	0	0	0	0	2015
11124	168	521.91	330569	0	0	0	0	1	0	0	0	0	0	0	0	2015
10748	168	564.07	376848	0	0	0	0	0	1	0	0	0	0	0	0	2015
10647	168	589.92	412245	0	0	0	0	0	1	0	0	0	0	0	0	2015
10530	168	643.70	475057	0	0	0	0	0	1	0	0	0	0	0	0	2015
10837	168	563.89	379004	0	0	0	0	0	1	0	0	0	0	0	0	2015
*12341	168	491.64	291905	0	0	0	0	0	0	1	0	0	0	0	0	2015 JUL

Data Base for SCHERER 3 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR
10205	168	643.59	474928	0	0	0	0	0	0	1	0	0	0	0	0	2015
10225	168	619.36	447746	0	0	0	0	0	0	1	0	0	0	0	0	2015
9935	168	622.98	451472	0	0	0	0	0	0	1	0	0	0	0	0	2015
10377	168	612.35	437624	0	0	0	0	0	0	0	1	0	0	0	0	2015
10393	168	627.54	454636	0	0	0	0	0	0	0	1	0	0	0	0	2015
10574	168	584.23	400959	0	0	0	0	0	0	0	1	0	0	0	0	2015
10790	168	569.36	386842	0	0	0	0	0	0	0	1	0	0	0	0	2015
10753	168	491.89	293031	0	0	0	0	0	0	0	1	0	0	0	0	2015
*14164	168	567.29	376786	0	0	0	0	0	0	0	0	1	0	0	0	2015
* 9831	168	454.12	247242	0	0	0	0	0	0	0	0	1	0	0	0	2015
* 9460	168	493.68	281671	0	0	0	0	0	0	0	0	1	0	0	0	2015
* 9561	168	508.58	303489	0	0	0	0	0	0	0	0	1	0	0	0	2015
10523	168	490.82	287487	0	0	0	0	0	0	0	0	0	1	0	0	2015
10810	168	480.65	269091	0	0	0	0	0	0	0	0	0	1	0	0	2015
11558	168	317.83	102882	0	0	0	0	0	0	0	0	0	0	1	0	2015
11352	168	327.78	109800	0	0	0	0	0	0	0	0	0	0	1	0	2015
11032	168	343.42	124242	0	0	0	0	0	0	0	0	0	0	1	0	2015
10505	168	351.90	134131	0	0	0	0	0	0	0	0	0	0	0	1	2015
11719	168	359.02	141144	0	0	0	0	0	0	0	0	0	0	0	1	2015
10430	50	425.34	73757	0	0	0	0	0	0	0	0	0	0	0	1	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	1	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2015 DEC
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2015
10856	124	390.94	134389	1	0	0	0	0	0	0	0	0	0	0	1	2016 JAN
10632	168	441.46	227514	1	0	0	0	0	0	0	0	0	0	0	0	2016
10750	168	465.69	265121	1	0	0	0	0	0	0	0	0	0	0	0	2016
10679	168	481.56	289377	1	0	0	0	0	0	0	0	0	0	0	0	2016
11534	168	322.86	108959	0	1	0	0	0	0	0	0	0	0	0	0	2016
11052	168	430.00	229469	0	1	0	0	0	0	0	0	0	0	0	0	2016
11421	168	351.31	136441	0	1	0	0	0	0	0	0	0	0	0	0	2016
11570	167	326.07	113501	0	1	0	0	0	0	0	0	0	0	0	0	2016
11180	168	361.80	143758	0	0	1	0	0	0	0	0	0	0	0	0	2016
10767	168	420.57	211190	0	0	1	0	0	0	0	0	0	0	0	0	2016
10309	167	543.48	345347	0	0	1	0	0	0	0	0	0	0	0	0	2016
10582	168	469.82	251158	0	0	1	0	0	0	0	0	0	0	0	0	2016
11325	168	318.38	103285	0	0	1	0	0	0	0	0	0	0	0	0	2016
11487	168	334.78	116735	0	0	0	1	0	0	0	0	0	0	0	0	2016
11235	18	434.56	31452	0	0	0	1	0	0	0	0	0	0	0	0	2016
11312	77	342.06	66773	0	0	0	1	0	0	0	0	0	0	0	1	2016
10766	168	505.95	307986	0	0	0	1	0	0	0	0	0	0	0	0	2016
11198	168	435.45	226593	0	0	0	0	1	0	0	0	0	0	0	0	2016
11111	168	474.64	259397	0	0	0	0	1	0	0	0	0	0	0	0	2016
11122	168	424.15	207820	0	0	0	0	1	0	0	0	0	0	0	0	2016
11211	168	386.43	170904	0	0	0	0	1	0	0	0	0	0	0	0	2016
11125	168	454.01	244602	0	0	0	0	1	0	0	0	0	0	0	0	2016
10937	168	471.55	268839	0	0	0	0	0	1	0	0	0	0	0	0	2016
10536	168	598.57	418263	0	0	0	0	0	1	0	0	0	0	0	0	2016
10779	168	521.56	332243	0	0	0	0	0	1	0	0	0	0	0	0	2016
10660	168	599.39	423335	0	0	0	0	0	1	0	0	0	0	0	0	2016
10464	168	622.70	452004	0	0	0	0	0	0	1	0	0	0	0	0	2016 JUL
10463	168	649.67	481799	0	0	0	0	0	0	1	0	0	0	0	0	2016

Data Base for SCHERER 3 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR
10510	168	688.96	527888	0	0	0	0	0	0	1	0	0	0	0	0	2016
10569	168	645.39	477569	0	0	0	0	0	0	1	0	0	0	0	0	2016
10467	168	594.55	418359	0	0	0	0	0	0	0	1	0	0	0	0	2016
10397	168	630.88	455151	0	0	0	0	0	0	0	1	0	0	0	0	2016
10943	168	611.38	434091	0	0	0	0	0	0	0	1	0	0	0	0	2016
10404	168	589.31	410942	0	0	0	0	0	0	0	1	0	0	0	0	2016
10481	168	596.20	420400	0	0	0	0	0	0	0	1	0	0	0	0	2016
10858	168	499.38	299985	0	0	0	0	0	0	0	0	1	0	0	0	2016
10903	168	564.77	373119	0	0	0	0	0	0	0	0	1	0	0	0	2016
10668	168	605.58	425357	0	0	0	0	0	0	0	0	1	0	0	0	2016
10724	168	553.11	361242	0	0	0	0	0	0	0	0	1	0	0	0	2016
10607	168	481.00	275758	0	0	0	0	0	0	0	0	0	1	0	0	2016
10986	168	439.63	225362	0	0	0	0	0	0	0	0	0	1	0	0	2016
10473	168	550.80	353989	0	0	0	0	0	0	0	0	0	1	0	0	2016
10891	168	432.07	215026	0	0	0	0	0	0	0	0	0	0	1	0	2016
10630	168	520.23	311013	0	0	0	0	0	0	0	0	0	1	0	0	2016
11091	168	374.44	163179	0	0	0	0	0	0	0	0	0	0	1	0	2016
11178	24	372.50	20952	0	0	0	0	0	0	0	0	0	0	1	0	2016
	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2016
10869	99	385.20	104700	0	0	0	0	0	0	0	0	0	0	1	1	2016
10293	168	498.59	289485	0	0	0	0	0	0	0	0	0	0	0	0	2016
10024	168	668.42	496633	0	0	0	0	0	0	0	0	0	0	0	0	2016
10208	168	557.81	353398	0	0	0	0	0	0	0	0	0	0	0	0	2016
11030	168	324.56	108963	0	0	0	0	0	0	0	0	0	0	0	0	2016
10810	168	502.96	294419	1	0	0	0	0	0	0	0	0	0	0	0	2017 JAN
10692	61	633.20	183594	1	0	0	0	0	0	0	0	0	0	0	0	2017
	0	0.00	0	1	0	0	0	0	0	0	0	0	0	0	0	2017
12011	61	310.93	47121	1	0	0	0	0	0	0	0	0	0	0	1	2017
11005	168	327.92	112314	0	1	0	0	0	0	0	0	0	0	0	0	2017
10640	168	367.57	148123	0	1	0	0	0	0	0	0	0	0	0	0	2017
10399	135	438.64	200293	0	1	0	0	0	0	0	0	0	0	0	0	2017
	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2017
	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2017
11207	88	369.89	85109	0	0	1	0	0	0	0	0	0	0	0	1	2017
10422	167	575.50	382039	0	0	1	0	0	0	0	0	0	0	0	0	2017
10518	143	500.85	243957	0	0	1	0	0	0	0	0	0	0	0	0	2017
	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2017
	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2017
	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2017
	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2017
	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017
	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017
10752	54	598.91	181046	0	0	0	0	1	0	0	0	0	0	0	2	2017
11086	168	458.18	260051	0	0	0	0	1	0	0	0	0	0	0	0	2017
10725	168	546.34	356999	0	0	0	0	1	0	0	0	0	0	0	0	2017
10835	158	473.81	267075	0	0	0	0	0	1	0	0	0	0	0	0	2017
10461	168	591.22	414059	0	0	0	0	0	1	0	0	0	0	0	0	2017
10722	168	497.67	303975	0	0	0	0	0	1	0	0	0	0	0	0	2017
10825	144	483.65	291900	0	0	0	0	0	1	0	0	0	0	0	0	2017

HtRt Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shut down 24 hours or more, in BTU/Kwh.

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

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

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

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

YR 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

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR
10561	168	256.70	66808	0	0	0	0	0	0	1	0	0	0	0	0	2014 JUL
10636	165	275.62	82271	0	0	0	0	0	0	1	0	0	0	0	0	2014
10854	168	248.65	61851	0	0	0	0	0	0	1	0	0	0	0	0	2014
10961	168	255.07	65867	0	0	0	0	0	0	1	0	0	0	0	0	2014
10878	168	249.34	62253	0	0	0	0	0	0	0	1	0	0	0	0	2014
10915	166	253.90	65981	0	0	0	0	0	0	0	1	0	0	0	0	2014
10362	168	249.24	62190	0	0	0	0	0	0	0	1	0	0	0	0	2014
11026	166	247.96	62469	0	0	0	0	0	0	0	1	0	0	0	0	2014
10703	168	255.89	66014	0	0	0	0	0	0	0	1	0	0	0	0	2014
11420	97	256.58	39197	0	0	0	0	0	0	0	0	1	0	0	0	2014
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2014
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2014
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2014
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2014
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2014
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2014
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2014
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2014
*10266	68	179.28	17439	0	0	0	0	0	0	0	0	0	0	1	2	2014
10825	168	254.73	65439	0	0	0	0	0	0	0	0	0	0	1	0	2014
10700	168	255.58	66138	0	0	0	0	0	0	0	0	0	0	1	0	2014
10800	168	246.17	60606	0	0	0	0	0	0	0	0	0	0	1	0	2014
10612	168	288.99	90335	0	0	0	0	0	0	0	0	0	0	0	0	2014
10414	168	274.17	79443	0	0	0	0	0	0	0	0	0	0	0	0	2014
10735	168	245.76	60405	0	0	0	0	0	0	0	0	0	0	0	0	2014
10749	168	244.04	59598	0	0	0	0	0	0	0	0	0	0	0	0	2014
10938	121	253.98	56519	1	0	0	0	0	0	0	0	0	0	0	1	2015 JAN
10164	168	273.85	78353	1	0	0	0	0	0	0	0	0	0	0	0	2015
9892	168	258.67	68748	1	0	0	0	0	0	0	0	0	0	0	0	2015
10459	168	246.16	60681	1	0	0	0	0	0	0	0	0	0	0	0	2015
10389	168	251.76	64318	0	1	0	0	0	0	0	0	0	0	0	0	2015
10662	168	249.07	62491	0	1	0	0	0	0	0	0	0	0	0	0	2015
10293	168	269.35	75510	0	1	0	0	0	0	0	0	0	0	0	0	2015
10408	100	306.82	75512	0	1	0	0	0	0	0	0	0	0	0	1	2015
10942	168	250.01	62755	0	0	1	0	0	0	0	0	0	0	0	0	2015
10755	167	248.93	62257	0	0	1	0	0	0	0	0	0	0	0	0	2015
10902	168	245.01	60090	0	0	1	0	0	0	0	0	0	0	0	0	2015
10926	168	261.46	69897	0	0	1	0	0	0	0	0	0	0	0	0	2015
10895	168	253.82	65244	0	0	1	0	0	0	0	0	0	0	0	0	2015
10962	59	241.00	24655	0	0	0	1	0	0	0	0	0	0	0	0	2015
10853	70	237.49	24915	0	0	0	1	0	0	0	0	0	0	0	1	2015
11175	142	238.76	49831	0	0	0	1	0	0	0	0	0	0	0	0	2015
11732	20	152.35	3868	0	0	0	1	0	0	0	0	0	0	0	1	2015
10451	168	291.70	89577	0	0	0	0	1	0	0	0	0	0	0	0	2015
10250	168	317.21	107828	0	0	0	0	1	0	0	0	0	0	0	0	2015
10401	168	318.08	108912	0	0	0	0	1	0	0	0	0	0	0	0	2015
10703	168	262.51	70754	0	0	0	0	1	0	0	0	0	0	0	0	2015
10741	168	252.79	64348	0	0	0	0	1	0	0	0	0	0	0	0	2015
10782	168	286.85	86891	0	0	0	0	0	1	0	0	0	0	0	0	2015 JUN
10776	165	315.11	109613	0	0	0	0	0	1	0	0	0	0	0	0	2015
10608	168	336.38	122808	0	0	0	0	0	1	0	0	0	0	0	0	2015
10833	144	300.44	97284	0	0	0	0	0	1	0	0	0	0	0	0	2015
11116	168	278.23	81731	0	0	0	0	0	0	1	0	0	0	0	0	2015 JUL

Data Base for CRIST 7 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR
10822	168	345.26	128535	0	0	0	0	0	0	1	0	0	0	0	0	2015
10779	168	341.33	126788	0	0	0	0	0	0	1	0	0	0	0	0	2015
10633	168	345.46	129800	0	0	0	0	0	0	1	0	0	0	0	0	2015
10699	168	333.22	120976	0	0	0	0	0	0	0	1	0	0	0	0	2015
10743	168	330.73	119044	0	0	0	0	0	0	0	1	0	0	0	0	2015
10752	168	290.93	90426	0	0	0	0	0	0	0	1	0	0	0	0	2015
10850	165	306.02	100184	0	0	0	0	0	0	0	1	0	0	0	0	2015
* 9608	88	277.31	46148	0	0	0	0	0	0	0	1	0	0	0	1	2015
10661	168	272.33	76499	0	0	0	0	0	0	0	0	1	0	0	0	2015
10285	168	273.32	79342	0	0	0	0	0	0	0	0	1	0	0	0	2015
10841	168	262.12	71026	0	0	0	0	0	0	0	0	1	0	0	0	2015
10608	168	256.48	67205	0	0	0	0	0	0	0	0	1	0	0	0	2015
10719	168	251.94	63867	0	0	0	0	0	0	0	0	0	1	0	0	2015
11293	168	250.49	62992	0	0	0	0	0	0	0	0	0	1	0	0	2015
10575	76	241.80	28184	0	0	0	0	0	0	0	0	0	1	0	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2015
10761	129	240.70	52333	0	0	0	0	0	0	0	0	0	0	1	1	2015
11263	40	233.65	16029	0	0	0	0	0	0	0	0	0	0	1	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	1	0	0	0	0	0	0	0	0	0	0	0	2016 JAN
11155	103	254.30	43182	1	0	0	0	0	0	0	0	0	0	0	1	2016
10858	143	271.46	66947	1	0	0	0	0	0	0	0	0	0	0	0	2016
10646	164	308.09	104531	1	0	0	0	0	0	0	0	0	0	0	1	2016
10923	168	245.01	60076	0	1	0	0	0	0	0	0	0	0	0	0	2016
10722	165	261.27	70881	0	1	0	0	0	0	0	0	0	0	0	0	2016
10671	106	243.09	41988	0	1	0	0	0	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2016
* 0	2	1.00	0	0	0	1	0	0	0	0	0	0	0	0	1	2016
*13283	25	194.60	6618	0	0	1	0	0	0	0	0	0	0	0	1	2016
10727	168	250.29	62816	0	0	0	1	0	0	0	0	0	0	0	0	2016
11297	131	269.24	71569	0	0	0	1	0	0	0	0	0	0	0	1	2016
12037	66	218.53	22829	0	0	0	1	0	0	0	0	0	0	0	1	2016
11125	168	255.12	67545	0	0	0	1	0	0	0	0	0	0	0	0	2016
11039	168	270.23	76955	0	0	0	0	1	0	0	0	0	0	0	0	2016
11137	164	258.70	71911	0	0	0	0	1	0	0	0	0	0	0	0	2016
11481	144	213.61	40027	0	0	0	0	1	0	0	0	0	0	0	0	2016
11156	110	238.62	43431	0	0	0	0	1	0	0	0	0	0	0	1	2016
11261	145	258.72	65241	0	0	0	0	1	0	0	0	0	0	0	1	2016
11057	168	276.80	86987	0	0	0	0	0	1	0	0	0	0	0	0	2016
10978	168	309.55	108372	0	0	0	0	0	1	0	0	0	0	0	0	2016
10618	168	291.18	97068	0	0	0	0	0	1	0	0	0	0	0	0	2016
10862	168	302.46	104990	0	0	0	0	0	1	0	0	0	0	0	0	2016
10471	168	347.30	135997	0	0	0	0	0	0	1	0	0	0	0	0	2016 JUL
10579	168	323.51	118984	0	0	0	0	0	0	1	0	0	0	0	0	2016

Data Base for CRIST 7 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR
10512	168	324.61	119648	0	0	0	0	0	0	1	0	0	0	0	0	2016
10765	168	333.40	126683	0	0	0	0	0	0	1	0	0	0	0	0	2016
10703	168	329.18	122299	0	0	0	0	0	0	0	1	0	0	0	0	2016
10961	168	325.70	119952	0	0	0	0	0	0	0	1	0	0	0	0	2016
11380	117	295.50	71273	0	0	0	0	0	0	0	1	0	0	0	0	2016
* 8216	147	320.86	103532	0	0	0	0	0	0	0	1	0	0	0	1	2016
10015	168	328.77	121809	0	0	0	0	0	0	0	1	0	0	0	0	2016
10269	168	271.63	82270	0	0	0	0	0	0	0	0	1	0	0	0	2016
10981	168	315.61	111387	0	0	0	0	0	0	0	0	1	0	0	0	2016
10890	168	319.58	114900	0	0	0	0	0	0	0	0	1	0	0	0	2016
10818	168	333.62	125227	0	0	0	0	0	0	0	0	1	0	0	0	2016
10585	168	292.44	95407	0	0	0	0	0	0	0	0	0	1	0	0	2016
10927	96	292.41	52056	0	0	0	0	0	0	0	0	0	1	0	0	2016
10715	152	329.32	124293	0	0	0	0	0	0	0	0	0	1	0	1	2016
10993	168	276.01	83774	0	0	0	0	0	0	0	0	0	1	0	0	2016
10640	26	298.27	17035	0	0	0	0	0	0	0	0	0	1	0	0	2016
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2016
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2016
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2016
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2016
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2016
*21012	9	72.44	1001	0	0	0	0	0	0	0	0	0	0	0	1	2016
11101	117	247.28	49809	0	0	0	0	0	0	0	0	0	0	0	2	2016
11161	168	263.46	70885	0	0	0	0	0	0	0	0	0	0	0	0	2016
10593	168	348.84	130020	1	0	0	0	0	0	0	0	0	0	0	0	2017 JAN
10381	168	320.61	114972	1	0	0	0	0	0	0	0	0	0	0	0	2017
10543	168	287.96	91765	1	0	0	0	0	0	0	0	0	0	0	0	2017
10798	131	241.39	53791	1	0	0	0	0	0	0	0	0	0	0	1	2017
10741	168	251.79	66146	0	1	0	0	0	0	0	0	0	0	0	0	2017
10770	168	251.11	66653	0	1	0	0	0	0	0	0	0	0	0	0	2017
10869	168	236.88	59526	0	1	0	0	0	0	0	0	0	0	0	0	2017
10713	71	251.96	29434	0	1	0	0	0	0	0	0	0	0	0	0	2017
11050	127	240.87	49970	0	0	1	0	0	0	0	0	0	0	0	1	2017
10493	168	277.47	84728	0	0	1	0	0	0	0	0	0	0	0	0	2017
10076	167	350.53	134495	0	0	1	0	0	0	0	0	0	0	0	0	2017
10304	168	311.79	107130	0	0	1	0	0	0	0	0	0	0	0	0	2017
10271	168	308.10	106746	0	0	1	0	0	0	0	0	0	0	0	0	2017
10257	168	284.86	90636	0	0	0	1	0	0	0	0	0	0	0	0	2017
10265	168	333.67	123795	0	0	0	1	0	0	0	0	0	0	0	0	2017
9746	168	429.11	186150	0	0	0	1	0	0	0	0	0	0	0	0	2017
10406	59	334.17	45730	0	0	0	1	0	0	0	0	0	0	0	0	2017
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017
11507	29	232.83	11701	0	0	0	0	0	1	0	0	0	0	0	1	2017
10605	168	323.51	113774	0	0	0	0	0	1	0	0	0	0	0	0	2017
10706	49	323.06	37514	0	0	0	0	0	1	0	0	0	0	0	0	2017
10374	92	290.28	75113	0	0	0	0	0	1	0	0	0	0	0	2	2017

Data Base for CRIST 7 Target Heat Rate Equation

HtRt Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shut down 24 hours or more, in BTU/Kwh.

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

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

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

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

YR 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

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR		
10563	168	318.29	116122	0	0	0	0	0	0	1	0	0	0	0	0	2014		
10700	136	323.44	103470	0	0	0	0	0	0	1	0	0	0	0	1	2014		
10961	168	246.95	70000	0	0	0	0	0	0	1	0	0	0	0	0	2014		
10714	168	306.08	105461	0	0	0	0	0	0	1	0	0	0	0	0	2014		
10443	168	275.49	84998	0	0	0	0	0	0	0	1	0	0	0	0	2014		
10573	168	292.71	96302	0	0	0	0	0	0	0	1	0	0	0	0	2014		
10520	168	264.27	77270	0	0	0	0	0	0	0	1	0	0	0	0	2014		
10581	168	280.46	86451	0	0	0	0	0	0	0	1	0	0	0	0	2014		
10769	168	267.57	78704	0	0	0	0	0	0	0	1	0	0	0	0	2014		
10668	168	318.95	113814	0	0	0	0	0	0	0	0	1	0	0	0	2014		
10309	168	338.33	131388	0	0	0	0	0	0	0	0	1	0	0	0	2014		
10398	168	291.12	93572	0	0	0	0	0	0	0	0	1	0	0	0	2014		
10657	168	259.99	74327	0	0	0	0	0	0	0	0	1	0	0	0	2014		
11477	168	285.53	88874	0	0	0	0	0	0	0	0	0	1	0	0	2014		
10843	98	251.01	41025	0	0	0	0	0	0	0	0	0	1	0	0	2014		
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2014		
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2014		
* 9853	116	206.66	35758	0	0	0	0	0	0	0	0	0	0	1	0	1	2014	
10604	164	202.65	42018	0	0	0	0	0	0	0	0	0	0	1	0	0	2014	
10712	168	255.86	70339	0	0	0	0	0	0	0	0	0	0	0	1	0	2014	
10618	98	284.10	55258	0	0	0	0	0	0	0	0	0	0	0	1	0	2014	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2014	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2014	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2014	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2014	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2014	
11249	22	231.18	10155	1	0	0	0	0	0	0	0	0	0	0	1	2015	JAN	
*10133	89	202.39	25113	1	0	0	0	0	0	0	0	0	0	0	0	0	2015	
0	0	0.00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2015	
0	0	0.00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2015	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2015	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2015	
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2015	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2015	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2015	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2015	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2015	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2015	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2015	
* 3896	21	228.05	14239	0	0	0	1	0	0	0	0	0	0	0	0	1	2015	
11544	156	278.90	88100	0	0	0	1	0	0	0	0	0	0	0	0	0	2015	
*12665	123	230.80	45761	0	0	0	1	0	0	0	0	0	0	0	0	0	2015	
*13445	71	234.77	29060	0	0	0	1	0	0	0	0	0	0	0	0	1	2015	
11859	168	291.73	94797	0	0	0	0	1	0	0	0	0	0	0	0	0	2015	
11569	167	313.34	113075	0	0	0	0	1	0	0	0	0	0	0	0	0	2015	
10416	168	332.51	120951	0	0	0	0	1	0	0	0	0	0	0	0	0	2015	
11390	168	238.67	62425	0	0	0	0	1	0	0	0	0	0	0	0	0	2015	
11434	168	227.94	56847	0	0	0	0	1	0	0	0	0	0	0	0	0	2015	
10758	168	263.98	78226	0	0	0	0	0	1	0	0	0	0	0	0	0	2015	
10084	164	287.55	94195	0	0	0	0	0	1	0	0	0	0	0	0	0	2015	
* 9371	116	309.97	80047	0	0	0	0	0	1	0	0	0	0	0	0	1	2015	
*12577	144	274.44	86810	0	0	0	0	0	1	0	0	0	0	0	0	0	2015	END OF JUN
* 9793	168	261.24	80467	0	0	0	0	0	0	1	0	0	0	0	0	0	2015	JUL

Data Base for DANIEL 1 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR
11868	168	235.20	74390	0	0	0	0	0	0	1	0	0	0	0	0	2016
11828	168	252.13	81555	0	0	0	0	0	0	1	0	0	0	0	0	2016
11988	168	193.86	46292	0	0	0	0	0	0	0	1	0	0	0	0	2016
11725	168	197.71	49002	0	0	0	0	0	0	0	1	0	0	0	0	2016
12544	168	184.10	39730	0	0	0	0	0	0	0	1	0	0	0	0	2016
11862	168	187.92	42721	0	0	0	0	0	0	0	1	0	0	0	0	2016
11050	168	221.76	63070	0	0	0	0	0	0	0	1	0	0	0	0	2016
12552	167	140.69	20218	0	0	0	0	0	0	0	0	1	0	0	0	2016
11535	139	170.55	28662	0	0	0	0	0	0	0	0	1	0	0	0	2016
11100	87	303.95	68414	0	0	0	0	0	0	0	0	1	0	0	1	2016
11740	168	203.36	54407	0	0	0	0	0	0	0	0	1	0	0	0	2016
11009	168	199.39	52731	0	0	0	0	0	0	0	0	0	1	0	0	2016
10979	47	202.53	14558	0	0	0	0	0	0	0	0	0	1	0	0	2016
* 9539	87	206.17	28581	0	0	0	0	0	0	0	0	0	1	0	1	2016
*10338	22	164.95	4234	0	0	0	0	0	0	0	0	0	1	0	0	2016
10635	96	257.39	49683	0	0	0	0	0	0	0	0	0	1	0	1	2016
11451	168	194.70	51799	0	0	0	0	0	0	0	0	0	0	1	0	2016
12148	168	145.23	22445	0	0	0	0	0	0	0	0	0	0	1	0	2016
11752	168	149.13	24946	0	0	0	0	0	0	0	0	0	0	1	0	2016
11537	168	160.46	30721	0	0	0	0	0	0	0	0	0	0	1	0	2016
12354	168	143.68	21303	0	0	0	0	0	0	0	0	0	0	0	0	2016
11937	92	170.41	18056	0	0	0	0	0	0	0	0	0	0	0	1	2016
12661	168	154.15	26947	0	0	0	0	0	0	0	0	0	0	0	0	2016
12360	168	141.19	20107	0	0	0	0	0	0	0	0	0	0	0	0	2016
11160	168	367.01	154806	1	0	0	0	0	0	0	0	0	0	0	0	2017 JAN
11062	168	367.61	146031	1	0	0	0	0	0	0	0	0	0	0	0	2017
10468	168	397.02	160489	1	0	0	0	0	0	0	0	0	0	0	0	2017
11538	168	263.78	73013	1	0	0	0	0	0	0	0	0	0	0	0	2017
10899	48	298.48	27018	0	1	0	0	0	0	0	0	0	0	0	0	2017
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2017
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2017
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2017
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2017
*13506	77	164.48	15861	0	0	1	0	0	0	0	0	0	0	0	0	2017
12837	162	152.48	24431	0	0	1	0	0	0	0	0	0	0	0	0	2017
12832	168	136.79	18729	0	0	1	0	0	0	0	0	0	0	0	0	2017
12334	168	150.46	24577	0	0	1	0	0	0	0	0	0	0	0	0	2017
12150	168	154.29	26763	0	0	0	1	0	0	0	0	0	0	0	0	2017
11964	168	158.79	28947	0	0	0	1	0	0	0	0	0	0	0	0	2017
*13052	168	172.48	36308	0	0	0	1	0	0	0	0	0	0	0	0	2017
*10067	168	205.71	55701	0	0	0	1	0	0	0	0	0	0	0	0	2017
12252	24	136.17	2657	0	0	0	0	1	0	0	0	0	0	0	0	2017
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2017
10653	154	284.44	92805	0	0	0	0	1	0	0	0	0	0	0	1	2017
11081	168	323.01	129162	0	0	0	0	1	0	0	0	0	0	0	0	2017
12748	168	143.83	21859	0	0	0	0	1	0	0	0	0	0	0	0	2017
12034	168	157.98	30523	0	0	0	0	0	1	0	0	0	0	0	0	2017
11778	164	138.94	19839	0	0	0	0	0	1	0	0	0	0	0	0	2017
12779	168	152.42	26296	0	0	0	0	0	1	0	0	0	0	0	0	2017
12068	144	152.44	28764	0	0	0	0	0	1	0	0	0	0	0	0	2017

HtRt Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shut down 24 hours or more, in BTU/Kwh.

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

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

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

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

YR 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

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR
10456	168	315.75	114209	0	0	0	0	0	0	1	0	0	0	0	0	2014
10446	168	324.14	120074	0	0	0	0	0	0	1	0	0	0	0	0	2014
10635	168	239.73	64877	0	0	0	0	0	0	1	0	0	0	0	0	2014
10368	168	318.35	114321	0	0	0	0	0	0	1	0	0	0	0	0	2014
10518	168	286.69	92404	0	0	0	0	0	0	1	0	0	0	0	0	2014
10591	168	303.54	103671	0	0	0	0	0	0	1	0	0	0	0	0	2014
10502	168	275.55	84407	0	0	0	0	0	0	1	0	0	0	0	0	2014
10418	168	306.35	105599	0	0	0	0	0	0	1	0	0	0	0	0	2014
10410	168	306.24	107509	0	0	0	0	0	0	1	0	0	0	0	0	2014
10067	162	339.51	130020	0	0	0	0	0	0	0	1	0	0	0	0	2014
10202	164	337.30	131513	0	0	0	0	0	0	0	1	0	0	0	0	2014
9866	168	302.36	101055	0	0	0	0	0	0	0	1	0	0	0	0	2014
10020	168	265.65	76887	0	0	0	0	0	0	0	1	0	0	0	0	2014
10236	168	297.59	96732	0	0	0	0	0	0	0	1	0	0	0	0	2014
10405	168	277.45	82436	0	0	0	0	0	0	0	0	1	0	0	0	2014
10289	168	339.15	133746	0	0	0	0	0	0	0	0	1	0	0	0	2014
10344	168	252.56	73887	0	0	0	0	0	0	0	0	1	0	0	0	2014
*10103	168	229.70	55363	0	0	0	0	0	0	0	0	1	0	0	0	2014
10853	106	201.06	28392	0	0	0	0	0	0	0	0	0	1	0	0	2014
9942	124	291.68	70935	0	0	0	0	0	0	0	0	0	0	1	1	2014
10004	168	269.21	80973	0	0	0	0	0	0	0	0	0	1	0	0	2014
10849	51	214.39	16346	0	0	0	0	0	0	0	0	0	0	1	0	2014
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2014
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2014
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2014
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2014
*12565	49	238.80	20526	1	0	0	0	0	0	0	0	0	0	0	1	2015 JAN
12530	95	211.53	30794	1	0	0	0	0	0	0	0	0	0	0	1	2015
0	0	0.00	0	1	0	0	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	1	0	0	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2015
11075	154	210.81	46581	0	1	0	0	0	0	0	0	0	0	0	1	2015
10951	161	223.34	56071	0	1	0	0	0	0	0	0	0	0	0	0	2015
*10608	168	184.39	34902	0	0	1	0	0	0	0	0	0	0	0	0	2015
*10221	64	192.03	16326	0	0	1	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2015
11741	28	231.39	13153	0	0	0	1	0	0	0	0	0	0	0	1	2015
10146	166	269.87	82719	0	0	0	1	0	0	0	0	0	0	0	0	2015
10989	168	224.85	53849	0	0	0	1	0	0	0	0	0	0	0	0	2015
10612	24	254.38	10650	0	0	0	1	0	0	0	0	0	0	0	0	2015
11470	21	305.10	15435	0	0	0	0	1	0	0	0	0	0	0	1	2015
*12317	168	310.23	110771	0	0	0	0	1	0	0	0	0	0	0	0	2015
10833	167	325.46	120017	0	0	0	0	1	0	0	0	0	0	0	0	2015
*12486	168	235.88	61746	0	0	0	0	1	0	0	0	0	0	0	0	2015
11398	168	231.23	59103	0	0	0	0	1	0	0	0	0	0	0	0	2015
11434	168	274.93	85278	0	0	0	0	0	1	0	0	0	0	0	0	2015
11152	168	293.64	100222	0	0	0	0	0	1	0	0	0	0	0	0	2015
*11867	167	319.70	118064	0	0	0	0	0	1	0	0	0	0	0	0	2015
*12580	133	267.75	86481	0	0	0	0	0	1	0	0	0	0	0	0	2015 END OF JUN
10668	168	255.46	77756	0	0	0	0	0	0	1	0	0	0	0	0	2015 JUL

Data Base for DANIEL 2 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR
10603	165	317.47	120332	0	0	0	0	0	0	1	0	0	0	0	0	2015
10246	168	344.95	137685	0	0	0	0	0	0	1	0	0	0	0	0	2015
10077	165	386.71	159903	0	0	0	0	0	0	1	0	0	0	0	0	2015
10191	168	401.17	167864	0	0	0	0	0	0	0	1	0	0	0	0	2015
10089	168	414.90	175080	0	0	0	0	0	0	0	1	0	0	0	0	2015
10129	168	395.92	158537	0	0	0	0	0	0	0	1	0	0	0	0	2015
10264	168	389.34	154394	0	0	0	0	0	0	0	1	0	0	0	0	2015
10068	168	370.46	140364	0	0	0	0	0	0	0	1	0	0	0	0	2015
10164	167	382.12	147637	0	0	0	0	0	0	0	0	1	0	0	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2015
10514	87	299.00	58670	0	0	0	0	0	0	0	0	1	0	0	1	2015
10591	168	280.43	96938	0	0	0	0	0	0	0	0	1	0	0	0	2015
11061	168	210.22	49006	0	0	0	0	0	0	0	0	0	1	0	0	2015
* 8154	71	223.04	23409	0	0	0	0	0	0	0	0	0	1	0	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2015
*11130	114	161.77	21470	0	0	0	0	0	0	0	0	0	0	1	1	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2015
*13207	49	322.78	38512	0	0	0	0	0	0	0	0	0	0	0	1	2015
11232	85	251.26	46386	0	0	0	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2015
0	0	0.00	0	1	0	0	0	0	0	0	0	0	0	0	0	2016 JAN
12641	105	155.97	19321	1	0	0	0	0	0	0	0	0	0	0	1	2016
12259	168	154.75	25692	1	0	0	0	0	0	0	0	0	0	0	0	2016
11407	168	256.81	76125	1	0	0	0	0	0	0	0	0	0	0	0	2016
11072	168	216.86	57172	0	1	0	0	0	0	0	0	0	0	0	0	2016
10472	168	245.95	70420	0	1	0	0	0	0	0	0	0	0	0	0	2016
* 9846	135	196.21	38742	0	1	0	0	0	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	1	0	0	0	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	0	0	1	0	0	0	0	0	0	0	0	2016
13054	65	177.20	16488	0	0	0	1	0	0	0	0	0	0	0	1	2016
12157	168	147.01	22941	0	0	0	0	1	0	0	0	0	0	0	0	2016
13720	168	146.17	22195	0	0	0	0	1	0	0	0	0	0	0	0	2016
13151	94	142.07	11722	0	0	0	0	1	0	0	0	0	0	0	0	2016
0	0	0.00	0	0	0	0	0	1	0	0	0	0	0	0	0	2016
12709	64	156.13	12719	0	0	0	0	1	0	0	0	0	0	0	1	2016
12953	168	161.96	29770	0	0	0	0	0	1	0	0	0	0	0	0	2016
11726	168	209.00	51646	0	0	0	0	0	1	0	0	0	0	0	0	2016
11949	167	208.34	54897	0	0	0	0	0	1	0	0	0	0	0	0	2016
11688	166	232.04	66655	0	0	0	0	0	1	0	0	0	0	0	0	2016
11403	168	242.36	77372	0	0	0	0	0	0	1	0	0	0	0	0	2016 JUL
11409	163	271.05	97614	0	0	0	0	0	0	1	0	0	0	0	0	2016

HtRt Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shut down 24 hours or more, in BTU/Kwh.

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

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

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

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

YR 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 3 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR	
6960	168	420.15	194871	0	0	0	0	0	0	1	0	0	0	0	0	2014	JUL
6958	168	465.01	227581	0	0	0	0	0	0	1	0	0	0	0	0	2014	
6944	168	409.55	180885	0	0	0	0	0	0	1	0	0	0	0	0	2014	
6896	168	482.99	238117	0	0	0	0	0	0	1	0	0	0	0	0	2014	
6888	168	468.53	225781	0	0	0	0	0	0	0	1	0	0	0	0	2014	
7062	148	451.68	194049	0	0	0	0	0	0	0	1	0	0	0	0	2014	
6937	168	471.30	227700	0	0	0	0	0	0	0	1	0	0	0	0	2014	
6919	168	473.87	229774	0	0	0	0	0	0	0	1	0	0	0	0	2014	
6880	168	466.18	223512	0	0	0	0	0	0	0	1	0	0	0	0	2014	
6996	168	480.90	235845	0	0	0	0	0	0	0	0	1	0	0	0	2014	
6947	168	476.05	231782	0	0	0	0	0	0	0	0	1	0	0	0	2014	
6892	168	472.52	228638	0	0	0	0	0	0	0	0	1	0	0	0	2014	
6807	168	458.46	214796	0	0	0	0	0	0	0	0	1	0	0	0	2014	
6904	159	492.65	247620	0	0	0	0	0	0	0	0	0	1	0	0	2014	
6914	168	513.79	266408	0	0	0	0	0	0	0	0	0	1	0	0	2014	
6956	168	479.18	235480	0	0	0	0	0	0	0	0	0	1	0	0	2014	
6632	168	505.96	259897	0	0	0	0	0	0	0	0	0	1	0	0	2014	
6696	168	535.39	290471	0	0	0	0	0	0	0	0	0	1	0	0	2014	
6897	168	519.82	274633	0	0	0	0	0	0	0	0	0	1	0	0	2014	
6868	96	498.13	146626	0	0	0	0	0	0	0	0	0	0	1	0	2014	
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2014	
7013	90	394.04	100199	0	0	0	0	0	0	0	0	0	0	1	1	2014	
6901	168	465.71	222761	0	0	0	0	0	0	0	0	0	0	0	0	2014	
6776	168	557.50	312323	0	0	0	0	0	0	0	0	0	0	0	0	2014	
6788	168	504.01	258176	0	0	0	0	0	0	0	0	0	0	0	0	2014	
6732	168	414.02	186353	0	0	0	0	0	0	0	0	0	0	0	0	2014	
6895	168	458.07	221039	1	0	0	0	0	0	0	0	0	0	0	0	2015	JAN
6892	168	510.02	267073	1	0	0	0	0	0	0	0	0	0	0	0	2015	
6806	168	486.45	244422	1	0	0	0	0	0	0	0	0	0	0	0	2015	
6900	168	469.45	227907	1	0	0	0	0	0	0	0	0	0	0	0	2015	
6893	168	501.78	261060	0	1	0	0	0	0	0	0	0	0	0	0	2015	
6880	155	468.53	222735	0	1	0	0	0	0	0	0	0	0	0	0	2015	
6851	168	505.13	263335	0	1	0	0	0	0	0	0	0	0	0	0	2015	
6831	168	458.88	235141	0	1	0	0	0	0	0	0	0	0	0	0	2015	
7092	168	421.52	195720	0	0	1	0	0	0	0	0	0	0	0	0	2015	
6985	167	426.67	201001	0	0	1	0	0	0	0	0	0	0	0	0	2015	
6647	166	464.40	222599	0	0	1	0	0	0	0	0	0	0	0	0	2015	
0	0	0.00	0	0	0	1	0	0	0	0	0	0	0	0	0	2015	
7301	117	445.56	146907	0	0	1	0	0	0	0	0	0	0	0	1	2015	
6942	168	444.36	202714	0	0	0	1	0	0	0	0	0	0	0	0	2015	
6952	168	460.02	221225	0	0	0	1	0	0	0	0	0	0	0	0	2015	
6919	149	462.46	226358	0	0	0	1	0	0	0	0	0	0	0	0	2015	
6758	156	452.56	219284	0	0	0	1	0	0	0	0	0	0	0	0	2015	
6890	162	479.56	239965	0	0	0	0	1	0	0	0	0	0	0	0	2015	
6912	168	488.24	243593	0	0	0	0	1	0	0	0	0	0	0	0	2015	
6937	125	481.78	188001	0	0	0	0	1	0	0	0	0	0	0	1	2015	
6876	137	434.56	205680	0	0	0	0	1	0	0	0	0	0	0	0	2015	
6971	127	433.98	205598	0	0	0	0	1	0	0	0	0	0	0	0	2015	
6980	106	472.05	167891	0	0	0	0	0	1	0	0	0	0	0	1	2015	
6930	162	471.19	231896	0	0	0	0	0	1	0	0	0	0	0	0	2015	
6866	168	480.51	237072	0	0	0	0	0	1	0	0	0	0	0	0	2015	
6925	129	468.42	229246	0	0	0	0	0	1	0	0	0	0	0	0	2015	
6959	168	431.82	201517	0	0	0	0	0	0	1	0	0	0	0	0	2015	JUL

Data Base for SMITH 3 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR
6986	168	485.68	241335	0	0	0	0	0	0	1	0	0	0	0	0	2015
6967	168	418.64	191199	0	0	0	0	0	0	1	0	0	0	0	0	2015
6886	168	458.16	218834	0	0	0	0	0	0	1	0	0	0	0	0	2015
6906	160	472.86	230617	0	0	0	0	0	0	0	1	0	0	0	0	2015
6988	168	480.10	235762	0	0	0	0	0	0	0	1	0	0	0	0	2015
6952	168	474.35	231401	0	0	0	0	0	0	0	1	0	0	0	0	2015
6947	168	470.18	227103	0	0	0	0	0	0	0	1	0	0	0	0	2015
6775	168	422.46	195125	0	0	0	0	0	0	0	1	0	0	0	0	2015
6985	161	469.52	232050	0	0	0	0	0	0	0	0	1	0	0	0	2015
7060	148	438.91	211420	0	0	0	0	0	0	0	0	1	0	0	0	2015
6908	162	451.41	217884	0	0	0	0	0	0	0	0	1	0	0	0	2015
6795	156	487.11	245275	0	0	0	0	0	0	0	0	1	0	0	0	2015
6822	168	460.46	224494	0	0	0	0	0	0	0	0	0	1	0	0	2015
6847	168	500.87	255269	0	0	0	0	0	0	0	0	0	1	0	0	2015
6853	168	494.39	249931	0	0	0	0	0	0	0	0	0	1	0	0	2015
6681	168	521.24	273351	0	0	0	0	0	0	0	0	0	1	0	0	2015
6720	168	522.97	275549	0	0	0	0	0	0	0	0	0	1	0	0	2015
6889	71	512.65	113773	0	0	0	0	0	0	0	0	0	0	1	0	2015
0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	1	0	2015
6909	141	453.48	185505	0	0	0	0	0	0	0	0	0	0	1	1	2015
6979	94	433.07	113680	0	0	0	0	0	0	0	0	0	0	1	1	2015
6868	163	486.61	245635	0	0	0	0	0	0	0	0	0	0	0	0	2015
6988	148	448.75	209220	0	0	0	0	0	0	0	0	0	0	0	0	2015
6870	163	484.80	243967	0	0	0	0	0	0	0	0	0	0	0	0	2015
6957	126	435.36	174088	0	0	0	0	0	0	0	0	0	0	0	1	2015
6891	168	496.32	254350	1	0	0	0	0	0	0	0	0	0	0	0	2016
6859	153	519.68	277779	1	0	0	0	0	0	0	0	0	0	0	0	2016
6894	130	515.44	229112	1	0	0	0	0	0	0	0	0	0	0	1	2016
6991	168	485.60	246903	1	0	0	0	0	0	0	0	0	0	0	0	2016
7228	110	403.59	155457	0	1	0	0	0	0	0	0	0	0	0	1	2016
7054	168	500.17	257028	0	1	0	0	0	0	0	0	0	0	0	0	2016
7072	165	473.68	231559	0	1	0	0	0	0	0	0	0	0	0	0	2016
7054	161	417.71	192705	0	1	0	0	0	0	0	0	0	0	0	0	2016
7105	168	498.90	257037	0	0	1	0	0	0	0	0	0	0	0	0	2016
7041	168	535.48	288616	0	0	1	0	0	0	0	0	0	0	0	0	2016
7045	167	529.81	282229	0	0	1	0	0	0	0	0	0	0	0	0	2016
6972	168	548.54	302169	0	0	1	0	0	0	0	0	0	0	0	0	2016
6874	168	503.14	258650	0	0	1	0	0	0	0	0	0	0	0	0	2016
7059	168	500.83	258691	0	0	0	1	0	0	0	0	0	0	0	0	2016
7111	168	509.75	262778	0	0	0	1	0	0	0	0	0	0	0	0	2016
7077	168	526.90	279997	0	0	0	1	0	0	0	0	0	0	0	0	2016
6925	168	498.74	252475	0	0	0	1	0	0	0	0	0	0	0	0	2016
6978	24	506.42	37133	0	0	0	0	1	0	0	0	0	0	0	0	2016
7263	92	467.24	132714	0	0	0	0	1	0	0	0	0	0	0	1	2016
7145	131	458.56	189336	0	0	0	0	1	0	0	0	0	0	0	0	2016
7291	146	469.58	236852	0	0	0	0	1	0	0	0	0	0	0	1	2016
7106	168	496.28	249225	0	0	0	0	1	0	0	0	0	0	0	0	2016
7200	168	490.28	243735	0	0	0	0	0	1	0	0	0	0	0	0	2016
7159	168	498.89	251531	0	0	0	0	0	1	0	0	0	0	0	0	2016
7083	168	470.33	227543	0	0	0	0	0	1	0	0	0	0	0	0	2016
7102	168	472.74	229004	0	0	0	0	0	1	0	0	0	0	0	0	2016
7281	168	477.57	233355	0	0	0	0	0	0	1	0	0	0	0	0	2016
7337	168	482.67	238080	0	0	0	0	0	0	1	0	0	0	0	0	2016

DEC

JAN

JUL

Data Base for SMITH 3 Target Heat Rate Equation

HtRt	Hr	AMW	LSRF	J	F	M	A	M	J	J	A	S	O	N	NS	YR
7243	168	480.15	235872	0	0	0	0	0	0	1	0	0	0	0	0	2016
7104	168	491.04	245364	0	0	0	0	0	0	1	0	0	0	0	0	2016
7126	168	482.27	236875	0	0	0	0	0	0	0	1	0	0	0	0	2016
7224	168	493.19	246969	0	0	0	0	0	0	0	1	0	0	0	0	2016
7173	168	486.73	239691	0	0	0	0	0	0	0	1	0	0	0	0	2016
7143	168	477.67	232997	0	0	0	0	0	0	0	1	0	0	0	0	2016
7157	168	402.43	178526	0	0	0	0	0	0	0	1	0	0	0	0	2016
7337	162	456.25	218248	0	0	0	0	0	0	0	0	1	0	0	0	2016
7351	143	478.22	200584	0	0	0	0	0	0	0	0	1	0	0	0	2016
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2016
0	0	0.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2016
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2016
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2016
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2016
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2016
0	0	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	2016
7263	117	413.13	163041	0	0	0	0	0	0	0	0	0	0	1	1	2016
6923	168	570.43	328652	0	0	0	0	0	0	0	0	0	0	1	0	2016
6918	168	538.77	296105	0	0	0	0	0	0	0	0	0	0	1	0	2016
7353	112	446.53	164893	0	0	0	0	0	0	0	0	0	0	1	1	2016
6916	168	516.12	272191	0	0	0	0	0	0	0	0	0	0	0	0	2016
6934	168	494.47	256605	0	0	0	0	0	0	0	0	0	0	0	0	2016
7054	168	518.71	280205	0	0	0	0	0	0	0	0	0	0	0	0	2016
6983	168	425.23	185778	0	0	0	0	0	0	0	0	0	0	0	0	2016
6977	168	507.30	265571	1	0	0	0	0	0	0	0	0	0	0	0	2017
6976	168	510.79	270023	1	0	0	0	0	0	0	0	0	0	0	0	2017
7097	168	463.55	222166	1	0	0	0	0	0	0	0	0	0	0	0	2017
7139	168	433.92	195223	1	0	0	0	0	0	0	0	0	0	0	0	2017
6795	168	481.38	239890	0	1	0	0	0	0	0	0	0	0	0	0	2017
6936	168	522.33	277466	0	1	0	0	0	0	0	0	0	0	0	0	2017
7022	168	488.73	245354	0	1	0	0	0	0	0	0	0	0	0	0	2017
6849	168	484.58	240357	0	1	0	0	0	0	0	0	0	0	0	0	2017
6959	168	539.85	294577	0	0	1	0	0	0	0	0	0	0	0	0	2017
6997	142	518.54	234823	0	0	1	0	0	0	0	0	0	0	0	0	2017
7003	147	550.03	276337	0	0	1	0	0	0	0	0	0	0	0	1	2017
6885	168	512.31	268050	0	0	1	0	0	0	0	0	0	0	0	0	2017
6852	168	492.54	250287	0	0	1	0	0	0	0	0	0	0	0	0	2017
7001	168	494.70	251649	0	0	0	1	0	0	0	0	0	0	0	0	2017
7065	168	470.69	235044	0	0	0	1	0	0	0	0	0	0	0	0	2017
7201	73	444.75	95800	0	0	0	1	0	0	0	0	0	0	0	0	2017
*34460	9	33.11	193	0	0	0	1	0	0	0	0	0	0	0	1	2017
7037	168	451.72	218624	0	0	0	0	1	0	0	0	0	0	0	0	2017
7004	168	530.70	287312	0	0	0	0	1	0	0	0	0	0	0	0	2017
7021	168	517.13	272276	0	0	0	0	1	0	0	0	0	0	0	0	2017
6924	168	440.05	205067	0	0	0	0	1	0	0	0	0	0	0	0	2017
6798	168	490.24	246730	0	0	0	0	1	0	0	0	0	0	0	0	2017
6890	168	482.38	243505	0	0	0	0	0	1	0	0	0	0	0	0	2017
6914	168	493.60	254407	0	0	0	0	0	1	0	0	0	0	0	0	2017
6802	168	503.36	258691	0	0	0	0	0	1	0	0	0	0	0	0	2017
6752	144	486.81	243441	0	0	0	0	0	1	0	0	0	0	0	0	2017

Data Base for SMITH 3 Target Heat Rate Equation

HtRt Average net operating heat rate based on unadjusted measured fuel consumption, before adjustment for unit start ups after shut down 24 hours or more, in BTU/Kwh.

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

AMW Average load on the unit, in MW.

LSRF Load square range factor, in MW².

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

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

YR 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 2018 - December 2018

Unit	Month	(1)	(2)	(3)	(4)	(5)
		Forecast AKW * 10 ³	Forecast LSRF * 10 ⁶	Forecast Monthly ANOHR	Forecast AKWH * 10 ³ Generation	Weighted ANOHR Target
SCHERER 3	Jan '18	698.5	504,560	10,455	511,997	
	Feb '18	694.8	499,679	10,459	430,805	
	Mar '18	678.9	478,969	10,353	471,855	
	Apr '18	641.0	431,324	10,523	412,826	
	May '18	639.3	429,244	10,764	437,949	
	Jun '18	662.8	458,433	10,496	469,895	
	Jul '18	693.9	498,496	10,460	508,620	
	Aug '18	699.5	505,883	10,454	510,615	
	Sep '18	675.3	474,339	10,481	465,967	
	Oct '18	667.1	463,875	10,491	262,837	
	Nov '18	639.6	429,611	10,525	450,267	
	Dec '18	655.6	449,391	10,505	480,520	10,495
CRIST 7	Jan '18	339.3	121,517	10,351	92,956	
	Feb '18	250.8	58,444	10,659	16,303	
	Mar '18	0.0	0	-	0	
	Apr '18	0.0	0	-	0	
	May '18	324.1	109,114	10,589	202,915	
	Jun '18	359.7	139,187	10,466	191,362	
	Jul '18	375.5	153,679	10,418	275,245	
	Aug '18	373.2	151,526	10,425	273,534	
	Sep '18	354.1	134,220	10,484	202,916	
	Oct '18	297.0	88,616	10,698	157,704	
	Nov '18	303.3	93,196	10,578	156,518	
	Dec '18	328.7	112,799	10,572	94,663	10,503

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

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

Calculation of
 Target Average Net Operating Heat Rates
 for January 2018 - December 2018

Unit	Month	(1)	(2)	(3)	(4)	(5)
		Forecast AKW * 10 ³	Forecast LSRF * 10 ⁶	Forecast Monthly ANOHR	Forecast AKWH * 10 ³ Generation	Weighted ANOHR Target
DANIEL 1	Jan '18	145.9	21,394	12,833	75,845	
	Feb '18	141.5	20,042	12,295	51,646	
	Mar '18	0.0	0	-	0	
	Apr '18	0.0	0	-	0	
	May '18	140.0	19,591	12,944	6,718	
	Jun '18	143.8	20,743	12,243	28,909	
	Jul '18	148.6	22,245	12,140	77,730	
	Aug '18	172.8	30,618	11,714	125,287	
	Sep '18	145.5	21,269	12,206	101,251	
	Oct '18	146.7	21,644	12,180	103,122	
	Nov '18	143.6	20,682	12,248	79,385	
	Dec '18	141.7	20,102	12,290	81,631	12,205
DANIEL 2	Jan '18	151.4	23,260	13,100	72,536	
	Feb '18	142.7	20,657	12,007	69,205	
	Mar '18	147.2	21,984	12,722	78,760	
	Apr '18	140.2	19,938	12,928	91,986	
	May '18	143.9	21,007	13,224	100,730	
	Jun '18	153.4	23,880	12,842	98,809	
	Jul '18	167.8	28,586	12,216	117,272	
	Aug '18	199.0	40,234	11,649	117,013	
	Sep '18	0.0	0	-	0	
	Oct '18	150.3	22,922	12,096	101,034	
	Nov '18	147.1	21,954	11,464	102,950	
	Dec '18	143.7	20,949	12,822	102,745	12,429
SMITH 3	Jan '18	556.5	303,302	6,935	338,908	
	Feb '18	556.3	303,094	6,935	320,440	
	Mar '18	539.8	286,224	6,943	331,451	
	Apr '18	552.1	298,754	6,959	366,626	
	May '18	542.8	289,255	6,941	232,335	
	Jun '18	527.7	274,158	6,949	357,756	
	Jul '18	539.3	285,720	6,943	381,829	
	Aug '18	532.9	279,312	6,946	375,179	
	Sep '18	532.7	279,112	6,946	350,543	
	Oct '18	550.2	296,801	6,789	260,250	
	Nov '18	552.8	299,475	6,936	308,991	
	Dec '18	569.9	317,362	6,928	407,501	6,932

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

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

Summary of Target, Maximum, and Minimum
Average Net Operating Heat Rates
for January 2018 - December 2018

Unit	Target Heat Rate BTU/KWH (0 Points)	Minimum Attainable Heat Rate (+ 10 Points)	Maximum Attainable Heat Rate (- 10 Points)
SCHERER 3	10,495	10,180	10,810
CRIST 7	10,503	10,188	10,818
DANIEL 1	12,205	11,839	12,571
DANIEL 2	12,429	12,056	12,802
SMITH 3	6,932	6,724	7,140

II. DETERMINATION OF EQUIVALENT AVAILABILITY TARGETS

Calculation of
 Target Equivalent Availabilities
 for January 2018 - December 2018

Unit	5 Year Historical Average of Equivalent Unplanned Outage Rate, EUOR *	Planned Outage Hours for Jan '18 - Dec '18	Reserve Shutdown Hours for Jan '18 - Dec '18	Target Equivalent Availability **
Scherer 3	0.0288	0	441	97.2
Crist 7	0.0627	1,223	2,322	82.1
Daniel 1	0.0614	1,127	2,293	82.2
Daniel 2	0.0774	216	1,070	90.7
Smith 3	0.0219	432	777	93.2

* For Period July 2012 through June 2017.

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

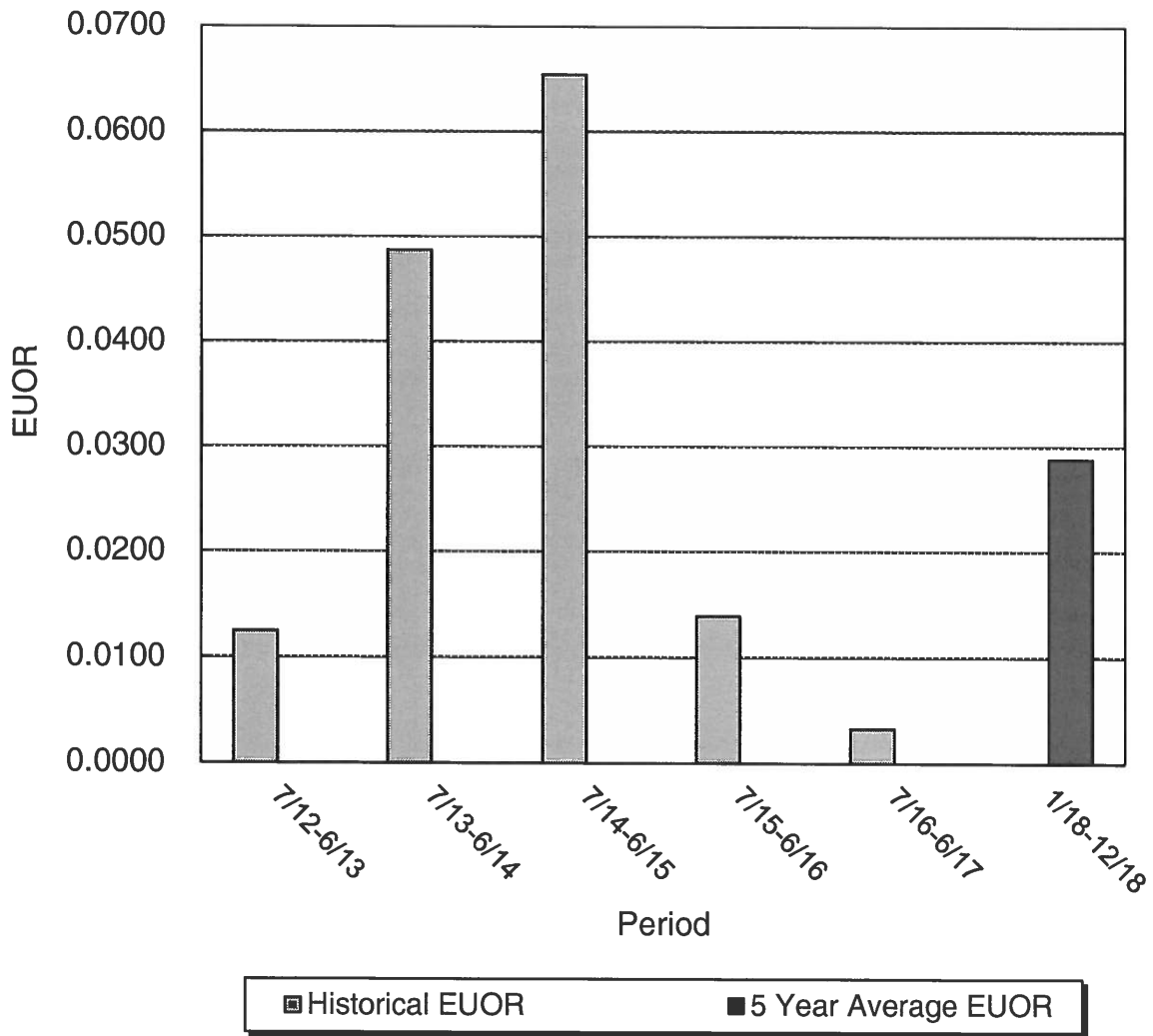
Calculation of Maximum and Minimum
 Attainable Equivalent Availabilities
 for January 2018 - December 2018

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
Scherer 3	0.0288	0.0202	98.1	0.0418	96.0
Crist 7	0.0627	0.0439	83.4	0.0909	80.6
Daniel 1	0.0614	0.0430	84.5	0.0890	81.7
Daniel 2	0.0774	0.0542	92.9	0.1122	88.0
Smith 3	0.0219	0.0153	93.7	0.0318	92.3

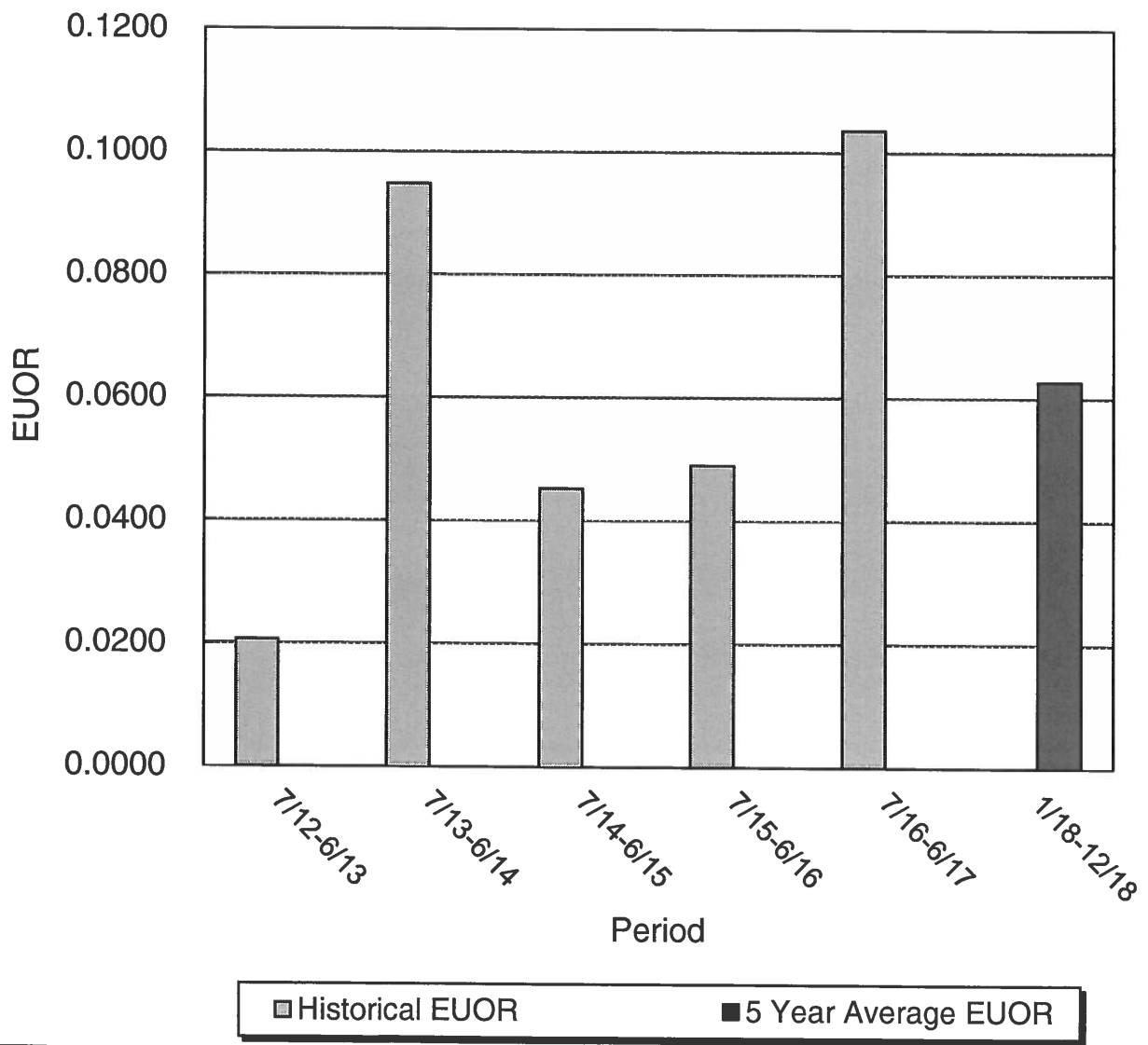
Summary of Target, Maximum, and Minimum
Equivalent Availabilities
for January 2018 - December 2018

Unit	Target Equivalent Availability (0 Points)	Maximum Attainable Equivalent Availability (+10 Points)	Minimum Attainable Equivalent Availability (-10 Points)
Scherer 3	97.2	98.1	96.0
Crist 7	82.1	83.4	80.6
Daniel 1	82.2	84.5	81.7
Daniel 2	90.7	92.9	88.0
Smith 3	93.2	93.7	92.3

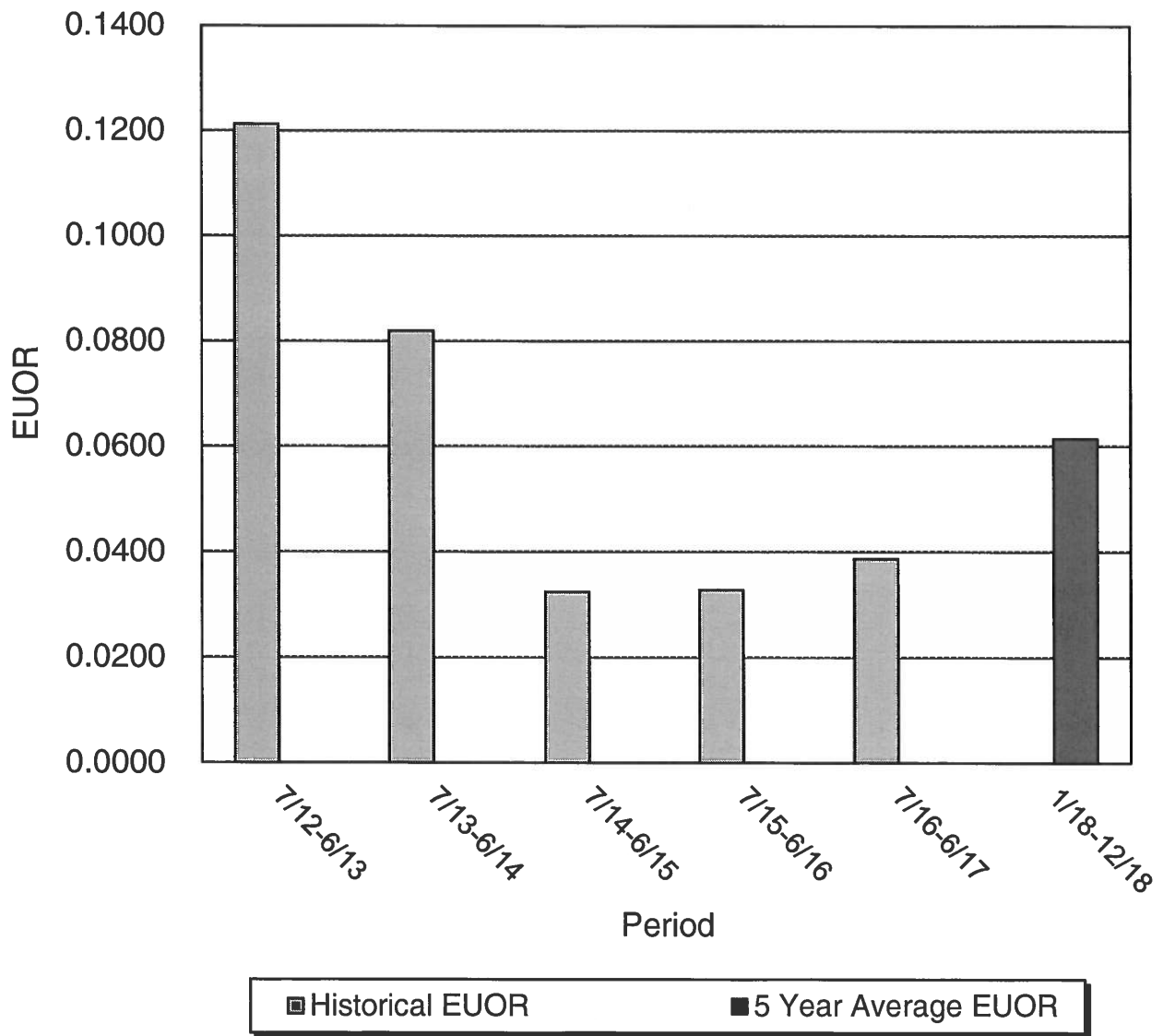
EUOR VS. PERIOD SCHERER 3 January-December



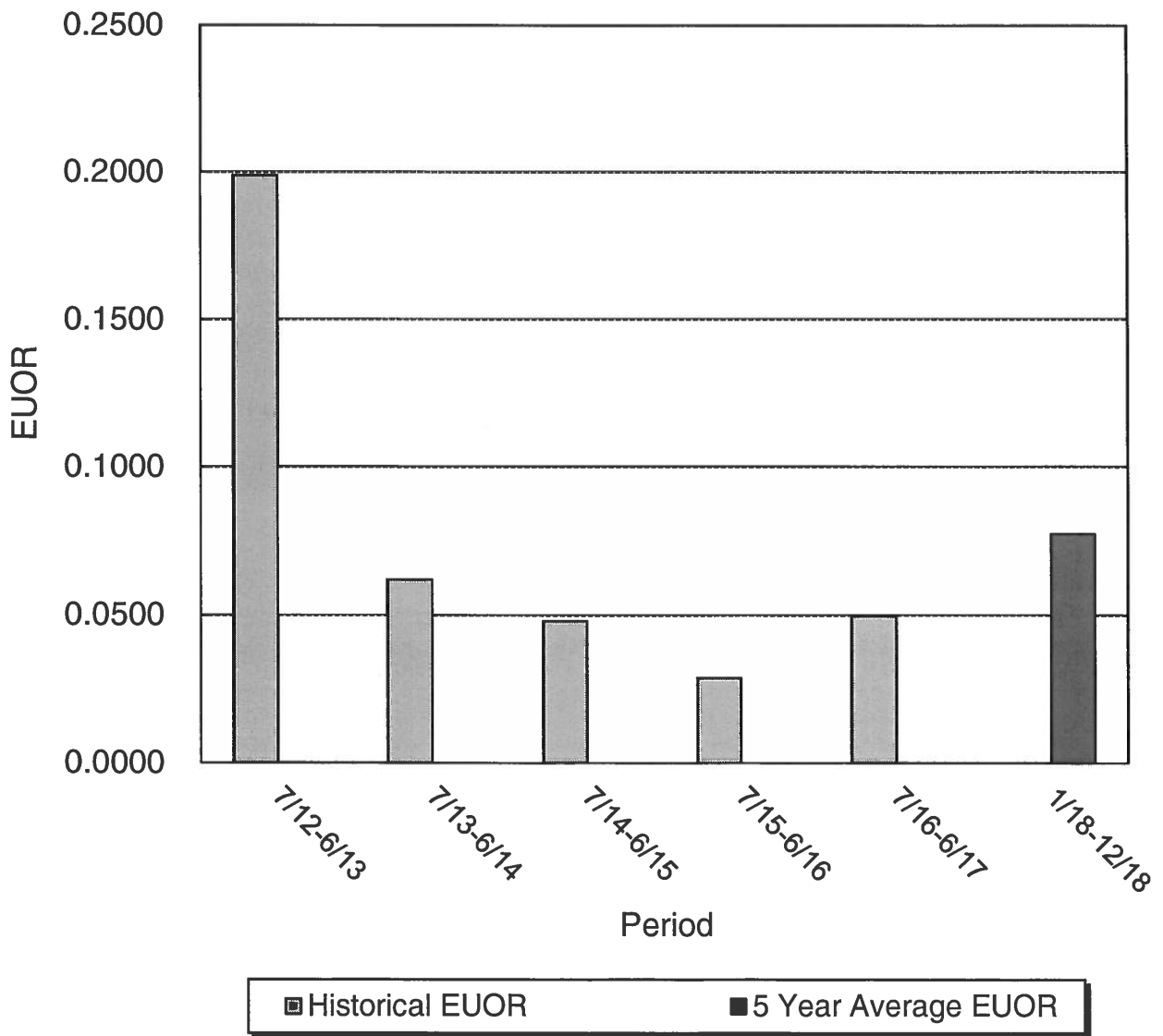
EUOR VS. PERIOD CRIST 7 January-December



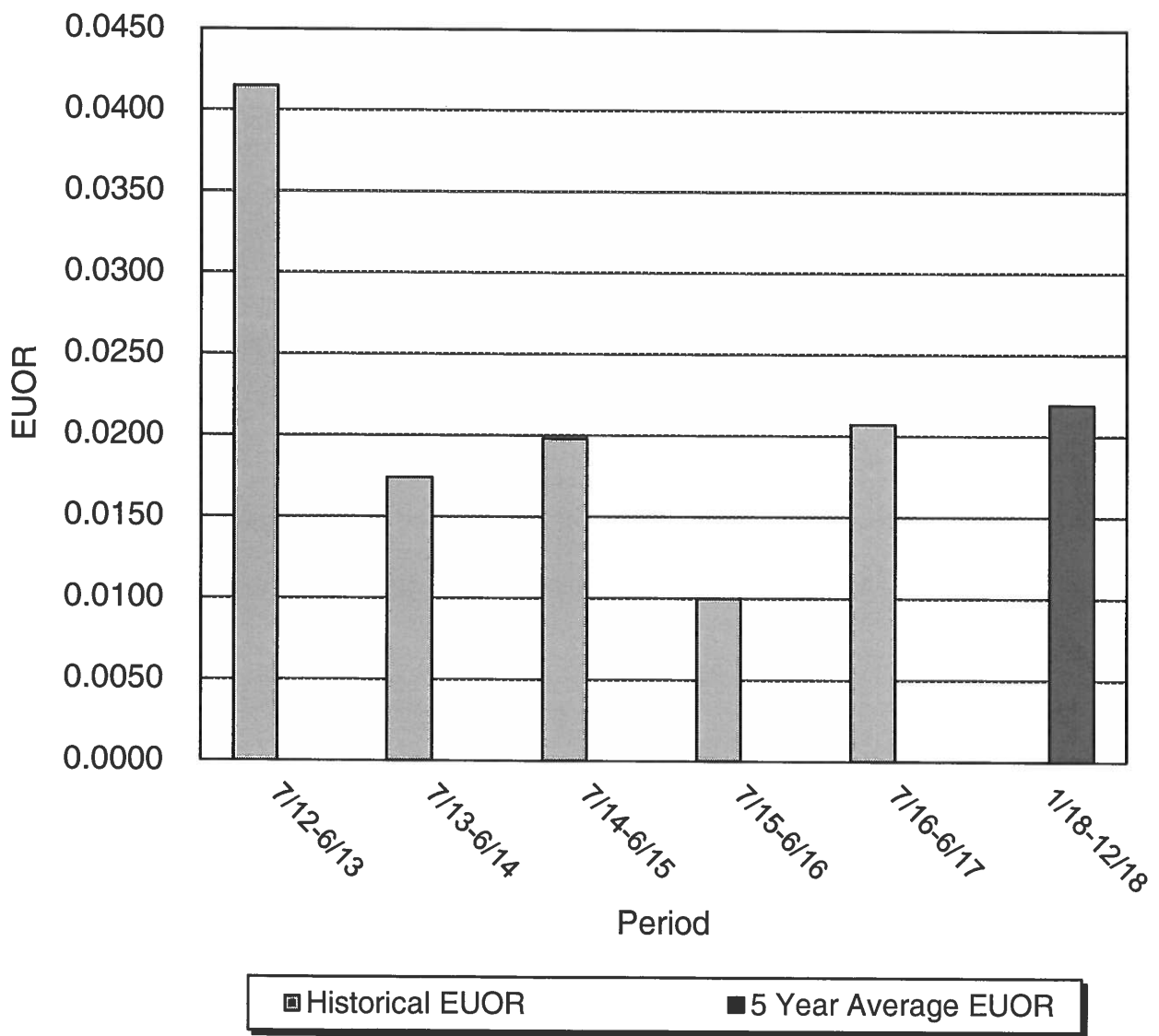
EUOR VS. PERIOD DANIEL 1 January-December



EUOR VS. PERIOD DANIEL 2 January-December



EUOR VS. PERIOD Smith 3 January-December



III. GPIF MINIMUM FILING REQUIREMENTS FOR THE
PERIOD JANUARY 2018 - DECEMBER 2018

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Generating Performance Incentive Factor

Estimated Reward/Penalty Table

Gulf Power Company

Period of: January 2018 - December 2018

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	5995	2998
+ 9	5396	2698
+ 8	4796	2398
+ 7	4197	2098
+ 6	3597	1799
+ 5	2998	1499
+ 4	2398	1199
+ 3	1799	899
+ 2	1199	600
+ 1	600	300
0	0	0
- 1	-593	-300
- 2	-1187	-600
- 3	-1780	-899
- 4	-2373	-1199
- 5	-2967	-1499
- 6	-3560	-1799
- 7	-4153	-2098
- 8	-4746	-2398
- 9	-5340	-2698
- 10	-5933	-2998
	Minimum Attainable Fuel Loss	Maximum Incentive Dollars Allowed by Commission During Period (Penalty)

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Generating Performance Incentive Factor
 Calculation of Maximum Allowed Incentive Dollars

Estimated

Gulf Power Company

Period of: January 2018 - December 2018

Line 1	Beginning of Period Balance of Common Equity	\$1,569,708,352
	End of Month Balance of Common Equity:	
Line 2	Month of Jan '18	\$1,549,439,751
Line 3	Month of Feb '18	\$1,559,514,026
Line 4	Month of Mar '18	\$1,568,342,919
Line 5	Month of Apr '18	\$1,540,624,076
Line 6	Month of May '18	\$1,555,878,718
Line 7	Month of Jun '18	\$1,578,832,100
Line 8	Month of Jul '18	\$1,566,384,962
Line 9	Month of Aug '18	\$1,588,125,325
Line 10	Month of Sep '18	\$1,609,426,895
Line 11	Month of Oct '18	\$1,585,886,907
Line 12	Month of Nov '18	\$1,593,617,557
Line 13	Month of Dec '18	\$1,584,980,875
Line 14	Average Common Equity for the Period (sum of line 1 through line 13 divided by 13)	\$1,573,135,574
Line 15	25 Basis Points	0.0025
Line 16	Revenue Expansion Factor	61.2273%
Line 17	Maximum Allowed Incentive Dollars (line 14 multiplied by line 15 divided by line 16 multiplied by 1.0)	\$6,423,342
Line 18	Jurisdictional Sales (KWH)	10,907,192,429
Line 19	Total Territorial Sales (KWH)	11,236,705,660
Line 20	Jurisdictional Separation Factor (line 18 divided by line 19)	97.0675%
Line 21	Maximum Allowed Jurisdictional Incentive Dollars (line 17 multiplied by line 20)	\$6,234,979
Line 22	Incentive Cap (50% of Projected Fuel Savings at 10 GPIF point level from sheet 6.391.7)	\$2,997,500
Line 23	Maximum Allowed GPIF Reward (at 10 GPIF Pt. level (The lesser of Line 21 and Line 22)	\$2,997,500

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GPIF Unit Performance Summary

Gulf Power Company

Period of: January 2018 - December 2018

Plant & Unit	Weighting Factor %	EAF Target %	EAF Range		Max Fuel Savings (\$000)	Max Fuel Loss (\$000)
			Max %	Min %		
Scherer 3	0.2%	97.2	98.1	96.0	\$12	(\$10)
Crist 7	0.1%	82.1	83.4	80.6	\$3	(\$15)
Daniel 1	0.0%	82.2	84.5	81.7	\$0	\$0
Daniel 2	0.0%	90.7	92.9	88.0	\$1	(\$1)
Smith 3	1.4%	93.2	93.7	92.3	\$83	(\$11)

Plant & Unit	Weighting Factor %	ANOHR Target BTU/KWH	Target NOF	ANOHR Range		Max Fuel Savings (\$000)	Max Fuel Loss (\$000)
				Min BTU/KWH	Max BTU/KWH		
Scherer 3	34.8%	10,495	77.6	10,180	10,810	\$2,089	(\$2,089)
Crist 7	8.3%	10,503	71.9	10,188	10,818	\$500	(\$500)
Daniel 1	1.1%	12,205	29.7	11,839	12,571	\$65	(\$65)
Daniel 2	2.5%	12,429	30.5	12,056	12,802	\$147	(\$147)
Smith 3	51.6%	6,932	91.0	6,724	7,140	\$3,095	(\$3,095)

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: January 2018 - December 2018

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Target			Actual Performance 1st Prior Period Jul '016 - Jun '017			Actual Performance 2nd Prior Period Jul '015 - Jun '016		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Scherer 3	0.2%	12.1%	0.0000	0.0284	0.0288	0.0000	0.0120	0.0139	0.1589	0.0550	0.0654
Crist 7	0.1%	3.0%	0.1396	0.0393	0.0627	0.1133	0.0322	0.0490	0.1938	0.0363	0.0453
Daniel 1	0.0%	0.0%	0.1287	0.0491	0.0614	0.0124	0.0135	0.0328	0.2231	0.0185	0.0324
Daniel 2	0.0%	1.0%	0.0247	0.0686	0.0774	0.0102	0.0153	0.0287	0.0495	0.0335	0.0480
Smith 3	1.4%	83.8%	0.0493	0.0188	0.0219	0.0583	0.0090	0.0100	0.0614	0.0182	0.0198
Weighted GPIF System Average:			0.0458	0.0211	0.0245	0.0524	0.0101	0.0118	0.0771	0.0234	0.0264

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Comparison of GPIF Targets vs. Actual Performance of Prior Periods

Availability

Gulf Power Company

Period of: January 2018 - December 2018

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Actual Performance 3rd Prior Period Jul '014 - Jun '015			Actual Performance 4th Prior Period Jul '013 - Jun '014			Actual Performance 5th Prior Period Jul '012 - Jun '013		
			POF	EUOF	EUOR	POF	EUOF	EUOR	POF	EUOF	EUOR
Scherer 3	0.2%	12.1%	0.0000	0.0484	0.0487	0.1541	0.0102	0.0125	0.0000	0.0541	0.0564
Crist 7	0.1%	3.0%	0.0000	0.0927	0.0948	0.2632	0.0133	0.0206	0.0000	0.0470	0.0509
Daniel 1	0.0%	0.0%	0.0482	0.0519	0.0820	0.0000	0.0553	0.1213	0.1378	0.0872	0.2362
Daniel 2	0.0%	1.0%	0.2175	0.0338	0.0620	0.1514	0.0681	0.1988	0.2123	0.0201	0.0384
Smith 3	1.4%	83.8%	0.0447	0.0165	0.0174	0.0654	0.0386	0.0415	0.0390	0.0113	0.0118
Weighted GPIF System Average:			0.0397	0.0229	0.0240	0.0830	0.0347	0.0389	0.0348	0.0177	0.0187

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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 2018 - December 2018

Plant & Unit	Target Weighting Factor	Normalized Weighting Factor	Heat Rate Target	1st Prior Period	2nd Prior Period	3rd Prior Period
				Heat Rate	Heat Rate	Heat Rate
				Jul '016 - Jun '017	Jul '015 - Jun '016	Jul '014 - Jun '015
Scherer 3	34.8%	35.4%	10,495	10,409	10,482	10,609
Crist 7	8.3%	8.5%	10,503	10,483	10,590	10,445
Daniel 1	1.1%	1.1%	12,205	12,246	11,831	12,006
Daniel 2	2.5%	2.5%	12,429	12,621	12,423	12,430
Smith 3	51.6%	52.5%	6,932	7,006	6,943	6,853
Weighted GPIF System Average:			8,692	8,704	8,697	8,684

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Example Calculation of Prior Season

Average Net Operating Heat Rate

Adjusted to Target Basis

Crist 7 Jul '015 - Jun '016

	Jul Jan	Aug Feb	Sep Mar	Oct Apr	Nov May	Dec Jun
1. Target Heat Rate*	10418.0 10351.0	10425.0 10659.0	10484.0 -	10698.0 -	10578.0 10589.0	10572.0 10466.0
2. Target Heat Rate at Actual Conditions**	10563.0 10559.0	10653.0 10645.0	10825.0 11743.0	10937.0 10898.0	10875.0 10944.0	0.0 10696.0
3. Adjustments to Actual Heat Rate (1-2)	-145.0 -208.0	-228.0 14.0	-341.0 0.0	-239.0 0.0	-297.0 -355.0	10572.0 -230.0
4. Actual Heat Rate for Prior Period	10797.0 10863.0	10656.0 10733.0	10598.0 12814.0	10936.0 11130.0	10877.0 11246.0	0.0 10876.0
5. Adjusted actual Heat Rate (4+3)	10652.0 10655.0	10428.0 10747.0	10257.0 12814.0	10697.0 11130.0	10580.0 10891.0	10572.0 10646.0
6. Forecast Net MWH Generation*	275245.0 92956.3	273533.8 16303.2	202915.6 0.0	157704.0 0.0	156518.1 202915.2	94663.1 191361.9
7. Adjusted Actual Heat Rate for Jul '015 - Jun '016 = (Σ ((5)*(6))) / (Σ (6))						

10,590

* For the January 2018 - December 2018 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 2018 - December 2018

Plant & Unit	Unit Performance Indicator	Production Cost Simulation Fuel Cost (\$000)			Weighting Factor (% of Savings)
		At Target (1)	At Maximum Improvement (2)	Savings (3)	
Scherer 3	EA-3	\$335,895	\$335,883	\$12	0.2%
Scherer 3	ANOHR-3	\$335,895	\$333,806	\$2,089	34.8%
Crist 7	EA-4	\$335,895	\$335,892	\$3	0.1%
Crist 7	ANOHR-4	\$335,895	\$335,395	\$500	8.3%
Daniel 1	EA-5	\$335,895	\$335,895	\$0	0.0%
Daniel 1	ANOHR-5	\$335,895	\$335,830	\$65	1.1%
Daniel 2	EA-6	\$335,895	\$335,894	\$1	0.0%
Daniel 2	ANOHR-6	\$335,895	\$335,748	\$147	2.5%
Smith 3	EA-7	\$335,895	\$335,812	\$83	1.4%
Smith 3	ANOHR-7	\$335,895	\$332,800	\$3,095	51.6%

- (1) Fuel Adjustment Base Case - All unit performance indicators at target.
- (2) All other unit performance indicators at target.
- (3) Expressed in replacement energy costs. Also includes variable operating and maintenance expense savings associated with availability improvements.

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2018 - December 2018

Scherer 3

Equivalent Availability Points	Fuel Savings/ Loss (\$000)	Adjusted Actual Equivalent Availability	Average Heat Rate Points	Fuel Savings/ Loss (\$000)	Adjusted Actual Heat Rate
+ 10	12	98.10	+ 10	2,089	10,180
+ 9	11	98.02	+ 9	1,880	10,204
+ 8	10	97.94	+ 8	1,671	10,228
+ 7	8	97.86	+ 7	1,462	10,252
+ 6	7	97.78	+ 6	1,253	10,276
+ 5	6	97.70	+ 5	1,045	10,300
+ 4	5	97.62	+ 4	836	10,324
+ 3	4	97.54	+ 3	627	10,348
+ 2	2	97.46	+ 2	418	10,372
+ 1	1	97.38	+ 1	209	10,396
0	0	97.30	0	0	10,420
				0	10,495
				0	10,570
- 1	(1)	97.17	- 1	(209)	10,594
- 2	(2)	97.04	- 2	(418)	10,618
- 3	(3)	96.91	- 3	(627)	10,642
- 4	(4)	96.78	- 4	(836)	10,666
- 5	(5)	96.65	- 5	(1,045)	10,690
- 6	(6)	96.52	- 6	(1,253)	10,714
- 7	(7)	96.39	- 7	(1,462)	10,738
- 8	(8)	96.26	- 8	(1,671)	10,762
- 9	(9)	96.13	- 9	(1,880)	10,786
- 10	(10)	96.00	- 10	(2,089)	10,810
Weighting Factor:		0.002	Weighting Factor:		0.348

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2018 - December 2018

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	3	83.40	+ 10	500	10,188
+ 9	3	83.29	+ 9	450	10,212
+ 8	2	83.18	+ 8	400	10,236
+ 7	2	83.07	+ 7	350	10,260
+ 6	2	82.96	+ 6	300	10,284
+ 5	2	82.85	+ 5	250	10,308
+ 4	1	82.74	+ 4	200	10,332
+ 3	1	82.63	+ 3	150	10,356
+ 2	1	82.52	+ 2	100	10,380
+ 1	0	82.41	+ 1	50	10,404
				0	10,428
0	0	82.30	0	0	10,503
				0	10,578
- 1	(2)	82.13	- 1	(50)	10,602
- 2	(3)	81.96	- 2	(100)	10,626
- 3	(5)	81.79	- 3	(150)	10,650
- 4	(6)	81.62	- 4	(200)	10,674
- 5	(8)	81.45	- 5	(250)	10,698
- 6	(9)	81.28	- 6	(300)	10,722
- 7	(11)	81.11	- 7	(350)	10,746
- 8	(12)	80.94	- 8	(400)	10,770
- 9	(14)	80.77	- 9	(450)	10,794
- 10	(15)	80.60	- 10	(500)	10,818
Weighting Factor:		0.001	Weighting Factor:		0.083

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2018 - December 2018

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	0	84.50	+ 10	65	11,839
+ 9	0	84.39	+ 9	59	11,868
+ 8	0	84.28	+ 8	52	11,897
+ 7	0	84.17	+ 7	46	11,926
+ 6	0	84.06	+ 6	39	11,955
+ 5	0	83.95	+ 5	33	11,985
+ 4	0	83.84	+ 4	26	12,014
+ 3	0	83.73	+ 3	20	12,043
+ 2	0	83.62	+ 2	13	12,072
+ 1	0	83.51	+ 1	7	12,101
				0	12,130
0	0	83.40	0	0	12,205
				0	12,280
- 1	0	83.23	- 1	(7)	12,309
- 2	0	83.06	- 2	(13)	12,338
- 3	0	82.89	- 3	(20)	12,367
- 4	0	82.72	- 4	(26)	12,396
- 5	0	82.55	- 5	(33)	12,426
- 6	0	82.38	- 6	(39)	12,455
- 7	0	82.21	- 7	(46)	12,484
- 8	0	82.04	- 8	(52)	12,513
- 9	0	81.87	- 9	(59)	12,542
- 10	0	81.70	- 10	(65)	12,571
Weighting Factor:		0.000	Weighting Factor:		0.011

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2018 - December 2018

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	1	92.90	+ 10	147	12,056
+ 9	1	92.70	+ 9	132	12,086
+ 8	1	92.50	+ 8	118	12,116
+ 7	1	92.30	+ 7	103	12,145
+ 6	1	92.10	+ 6	88	12,175
+ 5	1	91.90	+ 5	74	12,205
+ 4	0	91.70	+ 4	59	12,235
+ 3	0	91.50	+ 3	44	12,265
+ 2	0	91.30	+ 2	29	12,294
+ 1	0	91.10	+ 1	15	12,324
0	0	90.90	0	0	12,354
- 1	(0)	90.61	- 1	0	12,429
- 2	(0)	90.32	- 2	0	12,504
- 3	(0)	90.03	- 3	(15)	12,534
- 4	(0)	89.74	- 4	(29)	12,564
- 5	(1)	89.45	- 5	(44)	12,593
- 6	(1)	89.16	- 6	(59)	12,623
- 7	(1)	88.87	- 7	(74)	12,653
- 8	(1)	88.58	- 8	(88)	12,683
- 9	(1)	88.29	- 9	(103)	12,713
- 10	(1)	88.00	- 10	(118)	12,742
				(132)	12,772
				(147)	12,802
Weighting Factor:		0.000	Weighting Factor:		0.025

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Generating Performance Incentive Points Table

Gulf Power Company

Period of: January 2018 - December 2018

Smith 3

Equivalent Availability Points	Fuel Savings/Loss (\$000)	Adjusted Actual Equivalent Availability	Average Heat Rate Points	Fuel Savings/Loss (\$000)	Adjusted Actual Heat Rate
+ 10	83	93.70	+ 10	3,095	6,724
+ 9	75	93.65	+ 9	2,786	6,737
+ 8	66	93.60	+ 8	2,476	6,751
+ 7	58	93.55	+ 7	2,167	6,764
+ 6	50	93.50	+ 6	1,857	6,777
+ 5	42	93.45	+ 5	1,548	6,791
+ 4	33	93.40	+ 4	1,238	6,804
+ 3	25	93.35	+ 3	929	6,817
+ 2	17	93.30	+ 2	619	6,830
+ 1	8	93.25	+ 1	310	6,844
0	0	93.20	0	0	6,857
- 1	(1)	93.11	- 1	(310)	6,932
- 2	(2)	93.02	- 2	(619)	7,007
- 3	(3)	92.93	- 3	(929)	7,020
- 4	(4)	92.84	- 4	(1,238)	7,034
- 5	(6)	92.75	- 5	(1,548)	7,047
- 6	(7)	92.66	- 6	(1,857)	7,060
- 7	(8)	92.57	- 7	(2,167)	7,074
- 8	(9)	92.48	- 8	(2,476)	7,087
- 9	(10)	92.39	- 9	(2,786)	7,100
- 10	(11)	92.30	- 10	(3,095)	7,113
Weighting Factor:		0.014	Weighting Factor:		0.516

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ESTIMATED UNIT PERFORMANCE DATA

ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2018 - December 2018

SCHERER 3	Jan '18	Feb '18	Mar '18	Apr '18	May '18	Jun '18	
1. EAF (%)	98.5	98.5	98.5	98.5	98.5	98.5	
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	
3. EUOF (%)	1.5	1.5	1.5	1.5	1.5	1.5	
4. EUOR (%)	1.5	1.6	1.6	1.7	1.6	1.5	
5. PH	744.0	672.0	743.0	720.0	744.0	720.0	
6. SH	733.0	620.0	695.0	644.0	685.0	709.0	
7. RSH	0.0	42.0	37.0	65.0	48.0	0.0	
8. UH	11.0	10.0	11.0	11.0	11.0	11.0	
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	
10. FOH & EFOH	11.0	10.0	11.0	11.0	11.0	11.0	
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
12. Oper MBtu	5352927	4505792	4885111	4344166	4714086	4932020	
13. Net Gen (MWH)	511996.8	430805.3	471854.6	412825.8	437949.3	469895.2	
14. ANOHR (Btu/KWH)	10455.0	10459.0	10353.0	10523.0	10764.0	10496.0	
15. NOF %	80.8	80.3	78.5	74.1	73.9	76.6	
16. NPC (MW)	865.0	865.0	865.0	865.0	865.0	865.0	
19. ANOHR Equation	$10^6 / AKW * [532.42 - 83.71 * MAR + 152.71 * MAY]$ + 9,692						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2018 - December 2018

SCHERER 3	Jul '18	Aug '18	Sep '18	Oct '18	Nov '18	Dec '18	Total
1. EAF (%)	98.5	98.5	98.5	82.7	98.5	98.5	97.2
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3. EUOF (%)	1.5	1.5	1.5	17.3	1.5	1.5	2.8
4. EUOR (%)	1.5	1.5	1.6	24.7	1.5	1.5	3.0
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8760.0
6. SH	733.0	730.0	690.0	394.0	704.0	733.0	8070.0
7. RSH	0.0	3.0	19.0	221.0	6.0	0.0	441.0
8. UH	11.0	11.0	11.0	129.0	11.0	11.0	249.0
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10. FOH & EFOH	11.0	11.0	11.0	9.0	11.0	11.0	129.0
11. MOH & EMOH	0.0	0.0	0.0	120.0	0.0	0.0	120.0
12. Oper MBtu	5320170	5337965	4883803	2757426	4739056	5047858	56820380
13. Net Gen (MWH)	508620.4	510614.6	465967.3	262837.3	450266.6	480519.5	5414152.8
14. ANOHR (Btu/KWH)	10460.0	10454.0	10481.0	10491.0	10525.0	10505.0	10495.0
15. NOF %	80.2	80.9	78.1	77.1	73.9	75.8	77.6
16. NPC (MW)	865.0	865.0	865.0	865.0	865.0	865.0	865.0
19. ANOHR Equation	$10^6 / AKW * [532.42 - 83.71 * MAR + 152.71 * MAY]$ + 9,692						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2018 - December 2018

CRIST 7	Jan '18	Feb '18	Mar '18	Apr '18	May '18	Jun '18	
1. EAF (%)	86.3	70.7	6.5	26.4	99.1	99.0	
2. POF (%)	0.0	0.0	93.5	73.3	0.0	0.0	
3. EUOF (%)	13.7	29.3	0.0	0.3	0.9	1.0	
4. EUOR (%)	27.1	75.2	0.0	100.0	1.1	1.3	
5. PH	744.0	672.0	743.0	720.0	744.0	720.0	
6. SH	274.0	65.0	0.0	0.0	626.0	532.0	
7. RSH	368.0	410.0	48.0	190.0	111.0	181.0	
8. UH	102.0	197.0	695.0	530.0	7.0	7.0	
9. POH	0.0	0.0	695.0	528.0	0.0	0.0	
10. FOH & EFOH	6.0	5.0	0.0	2.0	7.0	7.0	
11. MOH & EMOH	96.0	192.0	0.0	0.0	0.0	0.0	
12. Oper MBtu	962191	173776	0	0	2148669	2002794	
13. Net Gen (MWH)	92956.3	16303.2	0.0	0.0	202915.2	191361.9	
14. ANOHR (Btu/KWH)	10351.0	10659.0	-	-	10589.0	10466.0	
15. NOF %	71.4	52.8	0.0	0.0	68.2	75.7	
16. NPC (MW)	475.0	475.0	475.0	475.0	475.0	475.0	
19. ANOHR Equation	$10^6 / AKW * [330.88 - 62.20 * JAN - 68.36 * FEB - 48.28 * MAR - 28.26 * NOV]$ $+ 9,711 - 0.00043 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2018 - December 2018

CRIST 7	Jul '18	Aug '18	Sep '18	Oct '18	Nov '18	Dec '18	Total
1. EAF (%)	99.1	99.1	99.0	99.9	100.0	99.1	82.1
2. POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	14.0
3. EUOF (%)	0.9	0.9	1.0	0.1	0.0	0.9	3.9
4. EUOR (%)	0.9	0.9	1.2	0.2	0.0	2.4	6.6
5. PH	744.0	744.0	720.0	744.0	721.0	744.0	8760.0
6. SH	733.0	733.0	573.0	531.0	516.0	288.0	4871.0
7. RSH	4.0	4.0	140.0	212.0	205.0	449.0	2322.0
8. UH	7.0	7.0	7.0	1.0	0.0	7.0	1567.0
9. POH	0.0	0.0	0.0	0.0	0.0	0.0	1223.0
10. FOH & EFOH	7.0	7.0	7.0	1.0	0.0	7.0	56.0
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	288.0
12. Oper MBtu	2867502	2851589	2127367	1687117	1655649	1000779	17477433
13. Net Gen (MWH)	275245.0	273533.8	202915.6	157704.0	156518.1	94663.1	1664116.1
14. ANOHR (Btu/KWH)	10418.0	10425.0	10484.0	10698.0	10578.0	10572.0	10503.0
15. NOF %	79.1	78.6	74.6	62.5	63.9	69.2	71.9
16. NPC (MW)	475.0	475.0	475.0	475.0	475.0	475.0	475.0
19. ANOHR Equation	$10^6 / AKW * [330.88 - 62.20 * JAN - 68.36 * FEB - 48.28 * MAR - 28.26 * NOV]$ $+ 9,711 - 0.00043 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2018 - December 2018

DANIEL 1	Jan '18	Feb '18	Mar '18	Apr '18	May '18	Jun '18	
1. EAF (%)	99.1	99.0	0.0	36.3	60.8	99.0	
2. POF (%)	0.0	0.0	100.0	53.3	0.0	0.0	
3. EUOF (%)	0.9	1.0	0.0	10.4	39.2	1.0	
4. EUOR (%)	1.3	1.9	0.0	100.0	85.9	3.4	
5. PH	744.0	672.0	743.0	720.0	744.0	720.0	
6. SH	520.0	365.0	0.0	0.0	48.0	201.0	
7. RSH	217.0	300.0	0.0	261.0	404.0	512.0	
8. UH	7.0	7.0	743.0	459.0	292.0	7.0	
9. POH	0.0	0.0	743.0	384.0	0.0	0.0	
10. FOH & EFOH	7.0	7.0	0.0	3.0	4.0	7.0	
11. MOH & EMOH	0.0	0.0	0.0	72.0	288.0	0.0	
12. Oper MBtu	973319	634987	0	0	86957	353936	
13. Net Gen (MWH)	75845.0	51646.0	0.0	0.0	6718.0	28909.3	
14. ANOHR (Btu/KWH)	12833.0	12295.0	-	-	12944.0	12243.0	
15. NOF %	29.1	28.2	0.0	0.0	27.9	28.7	
16. NPC (MW)	502.0	502.0	502.0	502.0	502.0	502.0	
19. ANOHR Equation	$10\% / AKW * [481.17 + 92.71 * JAN + 85.98 * MAY]$ $+ 8,753 + 0.00100 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2018 - December 2018

DANIEL 1		Jul '18	Aug '18	Sep '18	Oct '18	Nov '18	Dec '18	Total
1.	EAF (%)	99.1	99.1	99.0	99.1	99.0	99.1	82.2
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	12.9
3.	EUOF (%)	0.9	0.9	1.0	0.9	1.0	0.9	4.9
4.	EUOR (%)	1.3	1.0	1.0	1.0	1.3	1.2	8.1
5.	PH	744.0	744.0	720.0	744.0	721.0	744.0	8760.0
6.	SH	523.0	725.0	696.0	703.0	553.0	576.0	4910.0
7.	RSH	214.0	12.0	17.0	34.0	161.0	161.0	2293.0
8.	UH	7.0	7.0	7.0	7.0	7.0	7.0	1557.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	1127.0
10.	FOH & EFOH	7.0	7.0	7.0	7.0	7.0	7.0	70.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	360.0
12.	Oper MBtu	943648	1467609	1235866	1256026	972309	1003251	8927908
13.	Net Gen (MWH)	77730.4	125286.7	101250.7	103122.0	79385.1	81631.5	731524.7
14.	ANOHR (Btu/KWH)	12140.0	11714.0	12206.0	12180.0	12248.0	12290.0	12205.0
15.	NOF %	29.6	34.4	29.0	29.2	28.6	28.2	29.7
16.	NPC (MW)	502.0	502.0	502.0	502.0	502.0	502.0	502.0
19.	ANOHR Equation	$10^6 / AKW * [481.17 + 92.71 * JAN + 85.98 * MAY]$ $+ 8,753 + 0.00100 * LSRF / AKW$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2018 - December 2018

	DANIEL 2	Jan '18	Feb '18	Mar '18	Apr '18	May '18	Jun '18	
1.	EAF (%)	97.0	97.0	72.0	93.8	97.0	97.1	
2.	POF (%)	0.0	0.0	25.8	3.3	0.0	0.0	
3.	EUOF (%)	3.0	3.0	2.2	2.9	3.0	2.9	
4.	EUOR (%)	4.4	4.0	2.9	3.1	3.0	3.2	
5.	PH	744.0	672.0	743.0	720.0	744.0	720.0	
6.	SH	479.0	485.0	535.0	656.0	700.0	644.0	
7.	RSH	243.0	167.0	0.0	19.0	22.0	55.0	
8.	UH	22.0	20.0	208.0	45.0	22.0	21.0	
9.	POH	0.0	0.0	192.0	24.0	0.0	0.0	
10.	FOH & EFOH	22.0	20.0	16.0	21.0	22.0	21.0	
11.	MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
12.	Oper MBtu	950226	830941	1001990	1189190	1332056	1268904	
13.	Net Gen (MWH)	72536.3	69204.7	78760.4	91985.6	100730.2	98808.9	
14.	ANOHR (Btu/KWH)	13100.0	12007.0	12722.0	12928.0	13224.0	12842.0	
15.	NOF %	30.2	28.4	29.3	27.9	28.7	30.6	
16.	NPC (MW)	502.0	502.0	502.0	502.0	502.0	502.0	
19.	ANOHR Equation	$10^6 / AKW * [606.70 + 74.51 * JAN - 120.51 * FEB + 58.65 * MAY + 44.01 * JUN - 44.62 * SEP - 81.23 * OCT - 185.41 * NOV] + 8,600$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2018 - December 2018

DANIEL 2		Jul '18	Aug '18	Sep '18	Oct '18	Nov '18	Dec '18	Total
1.	EAF (%)	97.0	97.0	51.8	94.0	97.1	97.0	90.7
2.	POF (%)	0.0	0.0	0.0	0.0	0.0	0.0	2.5
3.	EUOF (%)	3.0	3.0	48.2	6.0	2.9	3.0	6.9
4.	EUOR (%)	3.1	3.6	100.0	6.3	2.9	3.0	8.0
5.	PH	744.0	744.0	720.0	744.0	721.0	744.0	8760.0
6.	SH	699.0	588.0	0.0	672.0	700.0	715.0	6873.0
7.	RSH	23.0	134.0	373.0	27.0	0.0	7.0	1070.0
8.	UH	22.0	22.0	347.0	45.0	21.0	22.0	817.0
9.	POH	0.0	0.0	0.0	0.0	0.0	0.0	216.0
10.	FOH & EFOH	22.0	22.0	11.0	21.0	21.0	22.0	241.0
11.	MOH & EMOH	0.0	0.0	336.0	24.0	0.0	0.0	360.0
12.	Oper MBtu	1432594	1363081	0	1222102	1180221	1317401	13088706
13.	Net Gen (MWH)	117271.9	117012.7	0.0	101033.6	102950.2	102745.4	1053039.9
14.	ANOHR (Btu/KWH)	12216.0	11649.0	-	12096.0	11464.0	12822.0	12429.0
15.	NOF %	33.4	39.6	0.0	29.9	29.3	28.6	30.5
16.	NPC (MW)	502.0	502.0	502.0	502.0	502.0	502.0	502.0
19.	ANOHR Equation	$10^6 / AKW * [606.70 + 74.51 * JAN - 120.51 * FEB + 58.65 * MAY +$ $44.01 * JUN - 44.62 * SEP - 81.23 * OCT - 185.41 * NOV] + 8,600$						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2018 - December 2018

SMITH 3	Jan '18	Feb '18	Mar '18	Apr '18	May '18	Jun '18	
1. EAF (%)	99.5	99.4	99.5	99.4	70.6	99.4	
2. POF (%)	0.0	0.0	0.0	0.0	29.0	0.0	
3. EUOF (%)	0.5	0.6	0.5	0.6	0.4	0.6	
4. EUOR (%)	0.7	0.7	0.6	0.6	0.7	0.6	
5. PH	744.0	672.0	743.0	720.0	744.0	720.0	
6. SH	609.0	576.0	614.0	664.0	428.0	678.0	
7. RSH	131.0	92.0	125.0	52.0	97.0	38.0	
8. UH	4.0	4.0	4.0	4.0	219.0	4.0	
9. POH	0.0	0.0	0.0	0.0	216.0	0.0	
10. FOH & EFOH	4.0	4.0	4.0	4.0	3.0	4.0	
11. MOH & EMOH	0.0	0.0	0.0	0.0	0.0	0.0	
12. Oper MBtu	2350329	2222249	2301263	2551350	1612641	2486049	
13. Net Gen (MWH)	338908.3	320439.6	331450.9	366625.9	232335.5	357756.4	
14. ANOHR (Btu/KWH)	6935.0	6935.0	6943.0	6959.0	6941.0	6949.0	
15. NOF %	88.7	88.6	89.9	91.9	89.9	91.4	
16. NPC (MW)	627.7	627.7	600.8	600.8	603.9	577.0	
19. ANOHR Equation	$10^6 / AKW * [144.47 + 12.50 * APR - 81.62 * OCT]$ + 6,675						

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ESTIMATED UNIT PERFORMANCE DATA

GULF POWER COMPANY

PERIOD OF: January 2018 - December 2018

	SMITH 3	Jul '18	Aug '18	Sep '18	Oct '18	Nov '18	Dec '18	Total
1.	EAF (%)	99.5	99.5	99.4	70.6	82.9	99.5	93.2
2.	POF (%)	0.0	0.0	0.0	29.0	0.0	0.0	4.9
3.	EUOF (%)	0.5	0.5	0.6	0.4	17.1	0.5	1.9
4.	EUOR (%)	0.6	0.6	0.6	0.6	18.0	0.6	2.2
5.	PH	744.0	744.0	720.0	744.0	721.0	744.0	8760.0
6.	SH	708.0	704.0	658.0	473.0	559.0	715.0	7386.0
7.	RSH	32.0	36.0	58.0	52.0	39.0	25.0	777.0
8.	UH	4.0	4.0	4.0	219.0	123.0	4.0	597.0
9.	POH	0.0	0.0	0.0	216.0	0.0	0.0	432.0
10.	FOH & EFOH	4.0	4.0	4.0	3.0	3.0	4.0	45.0
11.	MOH & EMOH	0.0	0.0	0.0	0.0	120.0	0.0	120.0
12.	Oper MBtu	2651037	2605990	2434868	1766839	2143165	2823166	27948946
13.	Net Gen (MWH)	381828.7	375178.5	350542.5	260250.3	308991.5	407500.9	4031808.9
14.	ANOHR (Btu/KWH)	6943.0	6946.0	6946.0	6789.0	6936.0	6928.0	6932.0
15.	NOF %	93.5	92.4	92.3	91.6	92.0	90.8	91.0
16.	NPC (MW)	577.0	577.0	577.0	600.8	600.8	627.7	599.8
19.	ANOHR Equation	$10^6 / AKW * [144.47 + 12.50 * APR - 81.62 * OCT]$ + 6,675						

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Planned Outage Schedules (Estimated)

Gulf Power Company

Period of: January 2018 - December 2018

Plant & Unit	Planned Outage Dates		Reason for Outage
Crist 7	03/03/18	-	04/22/18 Boiler outage
Smith 3	05/05/18	-	05/13/18 Borescope inspection
Smith 3	10/13/18	-	10/21/18 Borescope inspection
Daniel 1	03/01/18	-	04/16/18 Boiler outage
Daniel 2	03/24/18	-	04/01/18 Boiler outage

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Notes Regarding Estimated Planned Outage Schedules

Gulf Power Company

Period of: January 2018 - December 2018

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 2018 - December 2018, the outages shown below are currently planned and could be rescheduled for the target period.

Plant & Unit	Planned Outage Dates	Reason for Outage
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None