

Central State Hospital
Heating Plant Day Operations Report

9/1/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	137.48	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	8.9	klbs			
Total Plant Gas Flow	170.51	kscf			
Total Plant Gas Cost	\$1,047.04	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,047.04	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	79.0	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	0.0	0.6	0.0	hrs
Steam Flow	137.48	0.00	0.00	0.00	klbs
Gas Flow	168.19	0.00	2.32	0.00	kscf
Natural Gas Cost	\$1,032.82	\$0.00	\$14.22	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$1,032.82	\$0.00	\$14.22	\$0.00	\$
Average Steam Cost	\$7.51	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	77.9	0.0	%
Efficiency By I/O	80.0				%

Central State Hospital
Heating Plant Day Operations Report

9/2/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	136.27	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	8.9	klbs			
Total Plant Gas Flow	167.40	kscf			
Total Plant Gas Cost	\$1,027.97	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,027.97	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	79.7	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	0.0	0.7	0.0	hrs
Steam Flow	136.27	0.00	0.00	0.00	klbs
Gas Flow	165.08	0.00	2.32	0.00	kscf
Natural Gas Cost	\$1,013.74	\$0.00	\$14.23	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$1,013.74	\$0.00	\$14.23	\$0.00	\$
Average Steam Cost	\$7.44	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	74.5	0.0	%
Efficiency By I/O	80.8				%

Central State Hospital
Heating Plant Day Operations Report

9/3/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	136.42	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.1	klbs			
Total Plant Gas Flow	169.52	kscf			
Total Plant Gas Cost	\$1,040.99	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,040.99	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	78.8	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	0.0	0.7	0.0	hrs
Steam Flow	136.42	0.00	0.00	0.00	klbs
Gas Flow	167.13	0.00	2.39	0.00	kscf
Natural Gas Cost	\$1,026.30	\$0.00	\$14.69	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$1,026.30	\$0.00	\$14.69	\$0.00	\$
Average Steam Cost	\$7.52	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	76.4	0.0	%
Efficiency By I/O	79.9				%

Central State Hospital
Heating Plant Day Operations Report

9/4/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	143.64				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	8.8				klbs
Total Plant Gas Flow	177.15				kscf
Total Plant Gas Cost	\$1,087.82				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,087.82				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	79.4				%
Condensate Transfer Pump #1 Run Time	23.5				hrs
Condensate Transfer Pump #2 Run Time	23.5				hrs
Condensate Transfer Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #1 Run Time	23.5				hrs
Boiler Feed Pump #2 Run Time	23.5				hrs
Boiler Feed Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #4 Run Time	23.5				hrs
Fuel Oil Pump #1 Run Time	23.5				hrs
Fuel Oil Pump #2 Run Time	0.0				hrs
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	0.0	0.7	0.0	hrs
Steam Flow	143.64	0.00	0.00	0.00	klbs
Gas Flow	174.78	0.00	2.37	0.00	kscf
Natural Gas Cost	\$1,073.27	\$0.00	\$14.56	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$1,073.27	\$0.00	\$14.56	\$0.00	\$
Average Steam Cost	\$7.47	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	75.5	0.0	%
Efficiency By I/O	80.5				%

Central State Hospital
Heating Plant Day Operations Report

9/5/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	142.31	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.0	klbs			
Total Plant Gas Flow	177.71	kscf			
Total Plant Gas Cost	\$1,091.26	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,091.26	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	78.4	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	0.0	0.6	0.0	hrs
Steam Flow	142.31	0.00	0.00	0.00	klbs
Gas Flow	175.66	0.00	2.05	0.00	kscf
Natural Gas Cost	\$1,078.66	\$0.00	\$12.60	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$1,078.66	\$0.00	\$12.60	\$0.00	\$
Average Steam Cost	\$7.58	---	---	---	\$/klbs
Efficiency By Losses	81.9	0.0	77.7	0.0	%
Efficiency By I/O	79.3				%

Central State Hospital
Heating Plant Day Operations Report

9/6/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	145.08	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.0	klbs			
Total Plant Gas Flow	182.04	kscf			
Total Plant Gas Cost	\$1,117.86	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,117.86	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	78.0	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	2.8	0.0	20.8	1.1	hrs
Steam Flow	19.09	0.00	126.00	0.00	klbs
Gas Flow	23.59	0.00	150.98	7.47	kscf
Natural Gas Cost	\$144.87	\$0.00	\$927.12	\$45.87	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$144.87	\$0.00	\$927.12	\$45.87	\$
Average Steam Cost	\$7.59	---	\$7.36	---	\$/klbs
Efficiency By Losses	79.7	0.0	83.2	75.4	%
Efficiency By I/O	79.2		81.7		%

Central State Hospital
Heating Plant Day Operations Report

9/7/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	151.80				kibs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.1				klbs
Total Plant Gas Flow	185.23				kscf
Total Plant Gas Cost	\$1,137.42				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,137.42				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	80.3				%
Condensate Transfer Pump #1 Run Time	23.5				hrs
Condensate Transfer Pump #2 Run Time	23.5				hrs
Condensate Transfer Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #1 Run Time	23.5				hrs
Boiler Feed Pump #2 Run Time	23.5				hrs
Boiler Feed Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #4 Run Time	23.5				hrs
Fuel Oil Pump #1 Run Time	23.5				hrs
Fuel Oil Pump #2 Run Time	0.0				hrs
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.7	0.0	23.5	0.4	hrs
Steam Flow	0.00	0.00	151.80	0.00	klbs
Gas Flow	3.31	0.00	179.58	2.34	kscf
Natural Gas Cost	\$20.31	\$0.00	\$1,102.74	\$14.37	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$20.31	\$0.00	\$1,102.74	\$14.37	\$
Average Steam Cost	---	---	\$7.26	---	\$/klbs
Efficiency By Losses	80.8	0.0	83.1	77.1	%
Efficiency By I/O			82.8		%

Central State Hospital
Heating Plant Day Operations Report

9/8/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	139.68	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.1	klbs			
Total Plant Gas Flow	169.73	kscf			
Total Plant Gas Cost	\$1,042.26	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.14	\$			
Total Plant Fuel Cost	\$1,042.40	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	80.6	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.6	0.0	23.5	0.3	hrs
Steam Flow	0.00	0.00	139.68	0.00	klbs
Gas Flow	2.91	0.00	165.20	1.62	kscf
Natural Gas Cost	\$17.86	\$0.00	\$1,014.43	\$9.96	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.14	\$0.00	\$
Total Fuel Cost	\$17.86	\$0.00	\$1,014.58	\$9.96	\$
Average Steam Cost	---	---	\$7.26	---	\$/klbs
Efficiency By Losses	79.9	0.0	83.2	82.1	%
Efficiency By I/O			82.8		%

Central State Hospital
Heating Plant Day Operations Report

9/9/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	136.87	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.1	klbs			
Total Plant Gas Flow	167.34	kscf			
Total Plant Gas Cost	\$1,027.61	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,027.61	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	80.1	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.6	0.0	23.5	0.4	hrs
Steam Flow	0.00	0.00	136.87	0.00	klbs
Gas Flow	2.85	0.00	162.08	2.42	kscf
Natural Gas Cost	\$17.50	\$0.00	\$995.28	\$14.83	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$17.50	\$0.00	\$995.28	\$14.83	\$
Average Steam Cost	---	---	\$7.27	---	\$/klbs
Efficiency By Losses	81.8	0.0	83.2	77.2	%
Efficiency By I/O			82.7		%

Central State Hospital
Heating Plant Day Operations Report

9/10/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	147.23	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.0	klbs			
Total Plant Gas Flow	178.23	kscf			
Total Plant Gas Cost	\$1,094.46	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,094.46	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	80.9	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.6	0.0	23.5	0.4	hrs
Steam Flow	0.00	0.00	147.23	0.00	klbs
Gas Flow	2.87	0.00	173.12	2.23	kscf
Natural Gas Cost	\$17.65	\$0.00	\$1,063.11	\$13.70	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$17.65	\$0.00	\$1,063.11	\$13.70	\$
Average Steam Cost	---	---	\$7.22	---	\$/klbs
Efficiency By Losses	74.9	0.0	83.1	70.5	%
Efficiency By I/O			83.3		%

Central State Hospital
Heating Plant Day Operations Report

9/11/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	147.75	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.0	klbs			
Total Plant Gas Flow	177.89	kscf			
Total Plant Gas Cost	\$1,092.41	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,092.41	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	81.3	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.6	0.0	23.5	0.3	hrs
Steam Flow	0.00	0.00	147.75	0.00	klbs
Gas Flow	2.83	0.00	173.25	1.81	kscf
Natural Gas Cost	\$17.40	\$0.00	\$1,063.91	\$11.10	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$17.40	\$0.00	\$1,063.91	\$11.10	\$
Average Steam Cost	---	---	\$7.20	---	\$/klbs
Efficiency By Losses	76.4	0.0	83.1	75.2	%
Efficiency By I/O			83.5		%

Central State Hospital
Heating Plant Day Operations Report

9/12/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	141.29				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.2				klbs
Total Plant Gas Flow	170.22				kscf
Total Plant Gas Cost	\$1,045.26				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,045.26				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	81.3				%
Condensate Transfer Pump #1 Run Time	23.5				hrs
Condensate Transfer Pump #2 Run Time	23.5				hrs
Condensate Transfer Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #1 Run Time	23.5				hrs
Boiler Feed Pump #2 Run Time	23.5				hrs
Boiler Feed Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #4 Run Time	23.5				hrs
Fuel Oil Pump #1 Run Time	23.5				hrs
Fuel Oil Pump #2 Run Time	0.0				hrs
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.4	0.0	23.5	0.3	hrs
Steam Flow	0.00	0.00	141.29	0.00	klbs
Gas Flow	2.08	0.00	165.92	2.21	kscf
Natural Gas Cost	\$12.79	\$0.00	\$1,018.89	\$13.58	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$12.79	\$0.00	\$1,018.89	\$13.58	\$
Average Steam Cost	---	---	\$7.21	---	\$/klbs
Efficiency By Losses	80.2	0.0	83.2	72.3	%
Efficiency By I/O			83.4		%

Central State Hospital
Heating Plant Day Operations Report

9/13/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	140.81	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.0	klbs			
Total Plant Gas Flow	167.19	kscf			
Total Plant Gas Cost	\$1,026.65	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,026.65	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	82.5	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.0	0.0	23.5	0.3	hrs
Steam Flow	0.00	0.00	140.81	0.00	klbs
Gas Flow	0.00	0.00	165.36	1.82	kscf
Natural Gas Cost	\$0.00	\$0.00	\$1,015.46	\$11.20	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$0.00	\$0.00	\$1,015.46	\$11.20	\$
Average Steam Cost	---	---	\$7.21	---	\$/klbs
Efficiency By Losses	0.0	0.0	83.2	72.6	%
Efficiency By I/O			83.4		%

Central State Hospital
Heating Plant Day Operations Report

9/14/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	28.09	hdd			
Total Plant Steam Flow	140.72	klbs			
Steam Flow Per Heating Degree Day	5.0	klbs/hdd			
Total Condensate Return Water Flow	9.1	klbs			
Total Plant Gas Flow	166.51	kscf			
Total Plant Gas Cost	\$1,022.51	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,022.51	\$			
Fuel Cost Per Heating Degree Day	\$36.40	\$/hdd			
Plant Average Steam Cost Per Degree Day	\$0.26	\$/klbs			
Total Plant Efficiency By I/O	82.8	%			
Condensate Transfer Pump #1 Run Time	17.4	hrs			
Condensate Transfer Pump #2 Run Time	17.4	hrs			
Condensate Transfer Pump #3 Run Time	17.4	hrs			
Boiler Feed Pump #1 Run Time	17.4	hrs			
Boiler Feed Pump #2 Run Time	17.4	hrs			
Boiler Feed Pump #3 Run Time	17.4	hrs			
Boiler Feed Pump #4 Run Time	17.4	hrs			
Fuel Oil Pump #1 Run Time	17.4	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.0	0.0	23.4	0.4	hrs
Steam Flow	0.00	0.00	140.72	0.00	klbs
Gas Flow	0.00	0.00	164.48	2.04	kscf
Natural Gas Cost	\$0.00	\$0.00	\$1,010.00	\$12.51	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$0.00	\$0.00	\$1,010.00	\$12.51	\$
Average Steam Cost	---	---	\$7.18	---	\$/klbs
Efficiency By Losses	0.0	0.0	83.1	74.4	%
Efficiency By I/O			83.8		%

Central State Hospital
Heating Plant Day Operations Report

9/15/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	136.30	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.4	klbs			
Total Plant Gas Flow	162.23	kscf			
Total Plant Gas Cost	\$996.24	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$996.24	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	82.3	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.0	0.0	23.5	0.3	hrs
Steam Flow	0.00	0.00	136.30	0.00	klbs
Gas Flow	0.00	0.00	160.07	2.17	kscf
Natural Gas Cost	\$0.00	\$0.00	\$982.95	\$13.30	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$0.00	\$0.00	\$982.95	\$13.30	\$
Average Steam Cost	---	---	\$7.21	---	\$/klbs
Efficiency By Losses	0.0	0.0	83.2	75.6	%
Efficiency By I/O			83.4		%

Central State Hospital
Heating Plant Day Operations Report

9/16/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	137.89	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.1	klbs			
Total Plant Gas Flow	164.56	kscf			
Total Plant Gas Cost	\$1,010.52	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,010.52	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	82.1	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.0	0.0	23.5	0.4	hrs
Steam Flow	0.00	0.00	137.89	0.00	klbs
Gas Flow	0.00	0.00	162.31	2.25	kscf
Natural Gas Cost	\$0.00	\$0.00	\$996.71	\$13.80	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$0.00	\$0.00	\$996.71	\$13.80	\$
Average Steam Cost	---	---	\$7.23	---	\$/klbs
Efficiency By Losses	0.0	0.0	83.1	74.2	%
Efficiency By I/O			83.2		%

Central State Hospital
Heating Plant Day Operations Report

9/17/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	145.80	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	8.6	klbs			
Total Plant Gas Flow	180.22	kscf			
Total Plant Gas Cost	\$1,106.67	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,106.67	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	79.2	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	1.5	0.0	23.5	0.0	hrs
Steam Flow	0.00	0.00	145.80	0.00	klbs
Gas Flow	8.10	0.00	172.12	0.00	kscf
Natural Gas Cost	\$49.76	\$0.00	\$1,056.92	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$49.76	\$0.00	\$1,056.92	\$0.00	\$
Average Steam Cost	---	---	\$7.25	---	\$/klbs
Efficiency By Losses	74.7	0.0	83.2	0.0	%
Efficiency By I/O			83.0		%

Central State Hospital
Heating Plant Day Operations Report

9/18/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	147.77				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.2				klbs
Total Plant Gas Flow	179.30				kscf
Total Plant Gas Cost	\$1,101.03				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,101.03				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	80.7				%
Condensate Transfer Pump #1 Run Time	23.5				hrs
Condensate Transfer Pump #2 Run Time	23.5				hrs
Condensate Transfer Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #1 Run Time	23.5				hrs
Boiler Feed Pump #2 Run Time	23.5				hrs
Boiler Feed Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #4 Run Time	23.5				hrs
Fuel Oil Pump #1 Run Time	23.5				hrs
Fuel Oil Pump #2 Run Time	0.0				hrs
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.7	0.0	23.5	0.0	hrs
Steam Flow	0.00	0.00	147.77	0.00	klbs
Gas Flow	3.67	0.00	175.63	0.00	kscf
Natural Gas Cost	\$22.52	\$0.00	\$1,078.52	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$22.52	\$0.00	\$1,078.52	\$0.00	\$
Average Steam Cost	---	---	\$7.30	---	\$/klbs
Efficiency By Losses	76.7	0.0	83.2	0.0	%
Efficiency By I/O			82.4		%

Central State Hospital
Heating Plant Day Operations Report

9/19/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	152.52	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.1	klbs			
Total Plant Gas Flow	185.07	kscf			
Total Plant Gas Cost	\$1,136.46	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,136.46	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	80.7	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.7	0.0	23.5	0.0	hrs
Steam Flow	0.00	0.00	152.52	0.00	klbs
Gas Flow	3.39	0.00	181.68	0.00	kscf
Natural Gas Cost	\$20.83	\$0.00	\$1,115.63	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$20.83	\$0.00	\$1,115.63	\$0.00	\$
Average Steam Cost	---	---	\$7.31	---	\$/klbs
Efficiency By Losses	76.2	0.0	83.2	0.0	%
Efficiency By I/O			82.2		%

Central State Hospital
Heating Plant Day Operations Report

9/20/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	1.29				hdd
Total Plant Steam Flow	159.97				klbs
Steam Flow Per Heating Degree Day	124.0				klbs/hdd
Total Condensate Return Water Flow	9.0				klbs
Total Plant Gas Flow	194.81				kscf
Total Plant Gas Cost	\$1,196.27				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,196.27				\$
Fuel Cost Per Heating Degree Day	\$927.53				\$/hdd
Plant Average Steam Cost Per Degree Day	\$5.80				\$/klbs
Total Plant Efficiency By I/O	80.4				%
Condensate Transfer Pump #1 Run Time	23.5				hrs
Condensate Transfer Pump #2 Run Time	23.5				hrs
Condensate Transfer Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #1 Run Time	23.5				hrs
Boiler Feed Pump #2 Run Time	23.5				hrs
Boiler Feed Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #4 Run Time	23.5				hrs
Fuel Oil Pump #1 Run Time	23.5				hrs
Fuel Oil Pump #2 Run Time	0.0				hrs
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.7	0.0	23.5	0.0	hrs
Steam Flow	0.00	0.00	159.97	0.00	klbs
Gas Flow	3.42	0.00	191.39	0.00	kscf
Natural Gas Cost	\$21.01	\$0.00	\$1,175.26	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$21.01	\$0.00	\$1,175.26	\$0.00	\$
Average Steam Cost	---	---	\$7.35	---	\$/klbs
Efficiency By Losses	74.8	0.0	83.1	0.0	%
Efficiency By I/O			81.9		%

Central State Hospital
Heating Plant Day Operations Report

9/21/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	2.46	hdd
Total Plant Steam Flow	154.11	klbs
Steam Flow Per Heating Degree Day	62.7	klbs/hdd
Total Condensate Return Water Flow	9.0	klbs
Total Plant Gas Flow	212.27	kscf
Total Plant Gas Cost	\$1,303.49	\$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	\$0.00	\$
Total Plant Fuel Cost	\$1,303.49	\$
Fuel Cost Per Heating Degree Day	\$530.24	\$/hdd
Plant Average Steam Cost Per Degree Day	\$3.44	\$/klbs
Total Plant Efficiency By I/O	71.1	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	23.5	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	23.5	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #4 Run Time	23.5	hrs
Fuel Oil Pump #1 Run Time	23.5	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.7	3.1	22.0	1.5	hrs
Steam Flow	0.00	8.17	145.94	0.00	klbs
Gas Flow	3.54	24.92	173.20	10.60	kscf
Natural Gas Cost	\$21.76	\$153.04	\$1,063.60	\$65.09	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$21.76	\$153.04	\$1,063.60	\$65.09	\$
Average Steam Cost	—	\$18.73	\$7.29	—	\$/klbs
Efficiency By Losses	73.3	0.0	83.1	81.8	%
Efficiency By I/O		32.1	82.5		%

Central State Hospital
Heating Plant Day Operations Report

9/22/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	140.63				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.0				klbs
Total Plant Gas Flow	170.20				kscf
Total Plant Gas Cost	\$1,045.16				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,045.16				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	80.9				%
Condensate Transfer Pump #1 Run Time	23.5				hrs
Condensate Transfer Pump #2 Run Time	23.5				hrs
Condensate Transfer Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #1 Run Time	23.5				hrs
Boiler Feed Pump #2 Run Time	23.5				hrs
Boiler Feed Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #4 Run Time	23.5				hrs
Fuel Oil Pump #1 Run Time	23.5				hrs
Fuel Oil Pump #2 Run Time	0.0				hrs
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.6	0.0	23.5	0.3	hrs
Steam Flow	0.00	0.00	140.63	0.00	klbs
Gas Flow	3.08	0.00	165.21	1.92	kscf
Natural Gas Cost	\$18.91	\$0.00	\$1,014.48	\$11.77	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$18.91	\$0.00	\$1,014.48	\$11.77	\$
Average Steam Cost	---	---	\$7.21	---	\$/klbs
Efficiency By Losses	81.1	0.0	83.1	76.5	%
Efficiency By I/O			83.4		%

Central State Hospital
Heating Plant Day Operations Report

9/23/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	139.83				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.0				klbs
Total Plant Gas Flow	168.28				kscf
Total Plant Gas Cost	\$1,033.39				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,033.39				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	81.4				%
Condensate Transfer Pump #1 Run Time	23.5				hrs
Condensate Transfer Pump #2 Run Time	23.5				hrs
Condensate Transfer Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #1 Run Time	23.5				hrs
Boiler Feed Pump #2 Run Time	23.5				hrs
Boiler Feed Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #4 Run Time	23.5				hrs
Fuel Oil Pump #1 Run Time	23.5				hrs
Fuel Oil Pump #2 Run Time	0.0				hrs
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.6	0.0	23.5	0.3	hrs
Steam Flow	0.00	0.00	139.83	0.00	klbs
Gas Flow	3.08	0.00	163.57	1.64	kscf
Natural Gas Cost	\$18.89	\$0.00	\$1,004.46	\$10.04	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$18.89	\$0.00	\$1,004.46	\$10.04	\$
Average Steam Cost	---	---	\$7.18	---	\$/klbs
Efficiency By Losses	76.6	0.0	83.2	82.3	%
Efficiency By I/O			83.7		%

Central State Hospital
Heating Plant Day Operations Report

9/24/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	148.82	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.2	klbs			
Total Plant Gas Flow	177.17	kscf			
Total Plant Gas Cost	\$1,087.94	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,087.94	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	82.3	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.6	0.0	23.5	0.2	hrs
Steam Flow	0.00	0.00	148.82	0.00	klbs
Gas Flow	3.00	0.00	172.83	1.33	kscf
Natural Gas Cost	\$18.44	\$0.00	\$1,061.30	\$8.19	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$18.44	\$0.00	\$1,061.30	\$8.19	\$
Average Steam Cost	---	---	\$7.13	---	\$/klbs
Efficiency By Losses	80.2	0.0	83.2	78.1	%
Efficiency By I/O			84.3		%

Central State Hospital
Heating Plant Day Operations Report

9/25/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	153.22	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.2	klbs			
Total Plant Gas Flow	185.16	kscf			
Total Plant Gas Cost	\$1,137.03	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,137.03	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	81.0	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.7	0.0	23.5	0.4	hrs
Steam Flow	0.00	0.00	153.22	0.00	klbs
Gas Flow	3.41	0.00	179.38	2.37	kscf
Natural Gas Cost	\$20.92	\$0.00	\$1,101.55	\$14.56	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$20.92	\$0.00	\$1,101.55	\$14.56	\$
Average Steam Cost	---	---	\$7.19	---	\$/klbs
Efficiency By Losses	77.1	0.0	83.1	77.1	%
Efficiency By I/O			83.6		%

Central State Hospital
Heating Plant Day Operations Report

9/26/2019
7:00 AM
Daily Report

Description

	Plant			Units	
Heating Degree Days	0.00			hdd	
Total Plant Steam Flow	152.46			klbs	
Steam Flow Per Heating Degree Day	---			klbs/hdd	
Total Condensate Return Water Flow	9.2			klbs	
Total Plant Gas Flow	183.26			kscf	
Total Plant Gas Cost	\$1,125.37			\$	
Total Plant Oil Flow	0.0			gals	
Total Plant Oil Cost	\$0.00			\$	
Total Plant Fuel Cost	\$1,125.37			\$	
Fuel Cost Per Heating Degree Day	---			\$/hdd	
Plant Average Steam Cost Per Degree Day	---			\$/klbs	
Total Plant Efficiency By I/O	81.5			%	
Condensate Transfer Pump #1 Run Time	23.5			hrs	
Condensate Transfer Pump #2 Run Time	23.5			hrs	
Condensate Transfer Pump #3 Run Time	23.5			hrs	
Boiler Feed Pump #1 Run Time	23.5			hrs	
Boiler Feed Pump #2 Run Time	23.5			hrs	
Boiler Feed Pump #3 Run Time	23.5			hrs	
Boiler Feed Pump #4 Run Time	23.5			hrs	
Fuel Oil Pump #1 Run Time	23.5			hrs	
Fuel Oil Pump #2 Run Time	0.0			hrs	
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.6	0.0	23.5	0.3	hrs
Steam Flow	0.00	0.00	152.46	0.00	klbs
Gas Flow	2.99	0.00	178.45	1.82	kscf
Natural Gas Cost	\$18.38	\$0.00	\$1,095.82	\$11.17	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$18.38	\$0.00	\$1,095.82	\$11.17	\$
Average Steam Cost	---	---	\$7.19	---	\$/klbs
Efficiency By Losses	72.2	0.0	83.1	82.5	%
Efficiency By I/O			83.7		%

Central State Hospital
Heating Plant Day Operations Report

9/27/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	145.95				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.5				klbs
Total Plant Gas Flow	174.74				kscf
Total Plant Gas Cost	\$1,073.07				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,073.07				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	81.8				%
Condensate Transfer Pump #1 Run Time	23.5				hrs
Condensate Transfer Pump #2 Run Time	23.5				hrs
Condensate Transfer Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #1 Run Time	23.5				hrs
Boiler Feed Pump #2 Run Time	23.5				hrs
Boiler Feed Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #4 Run Time	23.5				hrs
Fuel Oil Pump #1 Run Time	23.5				hrs
Fuel Oil Pump #2 Run Time	0.0				hrs
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.6	0.0	23.5	0.2	hrs
Steam Flow	0.00	0.00	145.95	0.00	klbs
Gas Flow	2.96	0.00	170.50	1.29	kscf
Natural Gas Cost	\$18.18	\$0.00	\$1,046.98	\$7.90	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$18.18	\$0.00	\$1,046.98	\$7.90	\$
Average Steam Cost	---	---	\$7.17	---	\$/klbs
Efficiency By Losses	79.2	0.0	83.2	79.4	%
Efficiency By I/O			83.8		%

Central State Hospital
Heating Plant Day Operations Report

9/28/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	143.75	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.2	klbs			
Total Plant Gas Flow	174.61	kscf			
Total Plant Gas Cost	\$1,072.21	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,072.21	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	80.6	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.7	0.0	23.5	0.2	hrs
Steam Flow	0.00	0.00	143.75	0.00	klbs
Gas Flow	3.30	0.00	170.05	1.26	kscf
Natural Gas Cost	\$20.25	\$0.00	\$1,044.22	\$7.74	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$20.25	\$0.00	\$1,044.22	\$7.74	\$
Average Steam Cost	---	---	\$7.26	---	\$/klbs
Efficiency By Losses	72.6	0.0	83.1	75.7	%
Efficiency By I/O			82.8		%

Central State Hospital
Heating Plant Day Operations Report

9/29/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	136.45				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.4				klbs
Total Plant Gas Flow	169.59				kscf
Total Plant Gas Cost	\$1,041.43				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.06				\$
Total Plant Fuel Cost	\$1,041.48				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	78.8				%
Condensate Transfer Pump #1 Run Time	23.5				hrs
Condensate Transfer Pump #2 Run Time	23.5				hrs
Condensate Transfer Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #1 Run Time	23.5				hrs
Boiler Feed Pump #2 Run Time	23.5				hrs
Boiler Feed Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #4 Run Time	23.5				hrs
Fuel Oil Pump #1 Run Time	23.5				hrs
Fuel Oil Pump #2 Run Time	0.0				hrs
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.6	0.0	23.5	0.2	hrs
Steam Flow	0.00	0.00	136.45	0.00	klbs
Gas Flow	3.07	0.00	165.31	1.21	kscf
Natural Gas Cost	\$18.87	\$0.00	\$1,015.12	\$7.44	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.06	\$0.00	\$
Total Fuel Cost	\$18.87	\$0.00	\$1,015.18	\$7.44	\$
Average Steam Cost	---	---	\$7.44	---	\$/klbs
Efficiency By Losses	75.5	0.0	83.1	76.0	%
Efficiency By I/O			80.8		%

Central State Hospital
Heating Plant Day Operations Report

9/30/2019
7:00 AM
Daily Report

Description

	Plant			Units	
Heating Degree Days	0.00			hdd	
Total Plant Steam Flow	136.97			klbs	
Steam Flow Per Heating Degree Day	---			klbs/hdd	
Total Condensate Return Water Flow	9.4			klbs	
Total Plant Gas Flow	172.09			kscf	
Total Plant Gas Cost	\$1,056.75			\$	
Total Plant Oil Flow	0.0			gals	
Total Plant Oil Cost	\$0.00			\$	
Total Plant Fuel Cost	\$1,056.75			\$	
Fuel Cost Per Heating Degree Day	---			\$/hdd	
Plant Average Steam Cost Per Degree Day	---			\$/klbs	
Total Plant Efficiency By I/O	77.9			%	
Condensate Transfer Pump #1 Run Time	23.5			hrs	
Condensate Transfer Pump #2 Run Time	23.5			hrs	
Condensate Transfer Pump #3 Run Time	23.5			hrs	
Boiler Feed Pump #1 Run Time	23.5			hrs	
Boiler Feed Pump #2 Run Time	23.5			hrs	
Boiler Feed Pump #3 Run Time	23.5			hrs	
Boiler Feed Pump #4 Run Time	23.5			hrs	
Fuel Oil Pump #1 Run Time	23.5			hrs	
Fuel Oil Pump #2 Run Time	0.0			hrs	
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.5	0.0	23.5	0.3	hrs
Steam Flow	0.00	0.00	136.97	0.00	klbs
Gas Flow	2.83	0.00	167.45	1.81	kscf
Natural Gas Cost	\$17.39	\$0.00	\$1,028.24	\$11.13	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$17.39	\$0.00	\$1,028.24	\$11.13	\$
Average Steam Cost	---	---	\$7.51	---	\$/klbs
Efficiency By Losses	77.1	0.0	83.1	80.1	%
Efficiency By I/O			80.1		%