

Central State Hospital
Heating Plant Day Operations Report

8/1/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	129.25	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.4	klbs			
Total Plant Gas Flow	165.54	kscf			
Total Plant Gas Cost	\$1,016.53	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,016.53	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	76.5	%			
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	0.0	21.9	hrs
Steam Flow	0.00	0.00	0.00	129.25	klbs
Gas Flow	3.06	0.00	0.00	162.48	kscf
Natural Gas Cost	\$18.78	\$0.00	\$0.00	\$997.76	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$18.78	\$0.00	\$0.00	\$997.76	\$
Average Steam Cost	---	---	---	\$7.72	\$/klbs
Efficiency By Losses	77.4	0.0	0.0	82.3	%
Efficiency By I/O				77.9	%

Central State Hospital
Heating Plant Day Operations Report

8/2/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	130.01				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.3				klbs
Total Plant Gas Flow	170.47				kscf
Total Plant Gas Cost	\$1,046.80				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,046.80				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	74.7				%
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	0.5	0.0	1.1	21.7	hrs
Steam Flow	0.00	0.00	0.00	130.01	klbs
Gas Flow	2.65	0.00	4.01	163.81	kscf
Natural Gas Cost	\$16.27	\$0.00	\$24.64	\$1,005.89	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$16.27	\$0.00	\$24.64	\$1,005.89	\$
Average Steam Cost	---	---	---	\$7.74	\$/klbs
Efficiency By Losses	82.4	0.0	79.7	81.6	%
Efficiency By I/O					77.7

Central State Hospital
Heating Plant Day Operations Report

8/3/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	138.14	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.4	klbs			
Total Plant Gas Flow	175.41	kscf			
Total Plant Gas Cost	\$1,077.17	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,077.17	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	77.1	%			
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	0.7	22.4	hrs
Steam Flow	0.00	0.00	0.00	138.14	klbs
Gas Flow	3.24	0.00	2.33	169.84	kscf
Natural Gas Cost	\$19.91	\$0.00	\$14.28	\$1,042.97	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$19.91	\$0.00	\$14.28	\$1,042.97	\$
Average Steam Cost	---	---	---	\$7.55	\$/klbs
Efficiency By Losses	83.5	0.0	81.8	81.8	%
Efficiency By I/O				79.7	%

Central State Hospital
Heating Plant Day Operations Report

8/4/2019
7:00 AM
Daily Report

Description

	Plant				Units	
Heating Degree Days	0.00				hdd	
Total Plant Steam Flow	128.48				klbs	
Steam Flow Per Heating Degree Day	---				klbs/hdd	
Total Condensate Return Water Flow	9.3				klbs	
Total Plant Gas Flow	166.14				kscf	
Total Plant Gas Cost	\$1,020.23				\$	
Total Plant Oil Flow	0.0				gals	
Total Plant Oil Cost	\$0.00				\$	
Total Plant Fuel Cost	\$1,020.23				\$	
Fuel Cost Per Heating Degree Day	---				\$/hdd	
Plant Average Steam Cost Per Degree Day	---				\$/klbs	
Total Plant Efficiency By I/O	75.7				%	
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	0.5	0.0	0.6	22.0	hrs	
Steam Flow	0.00	0.00	0.00	128.48	klbs	
Gas Flow	2.72	0.00	1.96	161.46	kscf	
Natural Gas Cost	\$16.73	\$0.00	\$12.03	\$991.48	\$	
Oil Flow	0.0	0.0	0.0	0.0	gals	
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$	
Total Fuel Cost	\$16.73	\$0.00	\$12.03	\$991.48	\$	
Average Steam Cost	---	---	---	\$7.72	\$/klbs	
Efficiency By Losses	77.1	0.0	76.6	81.7	%	
Efficiency By I/O					77.9	%

Central State Hospital
Heating Plant Day Operations Report

8/5/2019
7:00 AM
Daily Report

Description

	Plant				Units	
Heating Degree Days	0.00				hdd	
Total Plant Steam Flow	130.19				klbs	
Steam Flow Per Heating Degree Day	---				klbs/hdd	
Total Condensate Return Water Flow	9.2				klbs	
Total Plant Gas Flow	168.30				kscf	
Total Plant Gas Cost	\$1,033.47				\$	
Total Plant Oil Flow	0.0				gals	
Total Plant Oil Cost	\$0.00				\$	
Total Plant Fuel Cost	\$1,033.47				\$	
Fuel Cost Per Heating Degree Day	---				\$/hdd	
Plant Average Steam Cost Per Degree Day	---				\$/klbs	
Total Plant Efficiency By I/O	75.8				%	
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	0.7	22.2	hrs	
Steam Flow	0.00	0.00	0.00	130.19	klbs	
Gas Flow	3.15	0.00	2.32	162.82	kscf	
Natural Gas Cost	\$19.37	\$0.00	\$14.24	\$999.86	\$	
Oil Flow	0.0	0.0	0.0	0.0	gals	
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$	
Total Fuel Cost	\$19.37	\$0.00	\$14.24	\$999.86	\$	
Average Steam Cost	---	---	---	\$7.68	\$/klbs	
Efficiency By Losses	82.8	0.0	77.3	81.8	%	
Efficiency By I/O					78.3	%

Central State Hospital
Heating Plant Day Operations Report

8/6/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	147.01	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	9.2	klbs
Total Plant Gas Flow	182.05	kscf
Total Plant Gas Cost	\$1,117.92	\$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	\$0.00	\$
Total Plant Fuel Cost	\$1,117.92	\$
Fuel Cost Per Heating Degree Day	---	\$/hdd
Plant Average Steam Cost Per Degree Day	---	\$/klbs
Total Plant Efficiency By I/O	79.1	%

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	22.9	0.0	0.5	0.6	hrs
Steam Flow	142.99	0.00	0.00	4.01	klbs
Gas Flow	174.45	0.00	2.46	5.14	kscf
Natural Gas Cost	\$1,071.27	\$0.00	\$15.09	\$31.56	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$1,071.27	\$0.00	\$15.09	\$31.56	\$
Average Steam Cost	\$7.49	---	---	\$7.86	\$/klbs
Efficiency By Losses	81.7	0.0	78.7	0.0	%
Efficiency By I/O	80.3			76.5	%

Central State Hospital
Heating Plant Day Operations Report

8/7/2019
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	9.3				klbs
Total Plant Gas Flow	176.33				kscf
Total Plant Gas Cost	\$1,082.79				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,082.79				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	78.1				%
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	23.5	0.0	0.6	0.3	hrs
Steam Flow	140.63	0.00	0.00	0.00	klbs
Gas Flow	172.31	0.00	2.26	1.76	kscf
Natural Gas Cost	\$1,058.10	\$0.00	\$13.87	\$10.82	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$1,058.10	\$0.00	\$13.87	\$10.82	\$
Average Steam Cost	\$7.52	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	74.9	75.1	%
Efficiency By I/O	79.9				%

Central State Hospital
Heating Plant Day Operations Report

8/8/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	137.16	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.3	klbs			
Total Plant Gas Flow	171.75	kscf			
Total Plant Gas Cost	\$1,054.70	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,054.70	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	78.2	%			
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	23.5	0.0	0.6	0.3	hrs
Steam Flow	137.16	0.00	0.00	0.00	klbs
Gas Flow	167.58	0.00	2.28	1.90	kscf
Natural Gas Cost	\$1,029.05	\$0.00	\$13.99	\$11.66	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$1,029.05	\$0.00	\$13.99	\$11.66	\$
Average Steam Cost	\$7.50	---	---	---	\$/klbs
Efficiency By Losses	81.9	0.0	74.3	82.4	%
Efficiency By I/O	80.2				%

Central State Hospital
Heating Plant Day Operations Report

8/9/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	141.74	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.2	klbs			
Total Plant Gas Flow	175.38	kscf			
Total Plant Gas Cost	\$1,076.94	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,076.94	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	79.1	%			
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	23.5	0.0	0.6	0.3	hrs
Steam Flow	141.74	0.00	0.00	0.00	klbs
Gas Flow	171.46	0.00	2.30	1.62	kscf
Natural Gas Cost	\$1,052.88	\$0.00	\$14.09	\$9.97	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$1,052.88	\$0.00	\$14.09	\$9.97	\$
Average Steam Cost	\$7.43	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	79.2	76.1	%
Efficiency By I/O	81.0				%

Central State Hospital
Heating Plant Day Operations Report

8/10/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	141.86	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.2	klbs			
Total Plant Gas Flow	175.50	kscf			
Total Plant Gas Cost	\$1,077.68	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,077.68	\$			
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	23.5	0.0	0.7	0.3	hrs
Steam Flow	141.86	0.00	0.00	0.00	klbs
Gas Flow	171.44	0.00	2.31	1.75	kscf
Natural Gas Cost	\$1,052.76	\$0.00	\$14.19	\$10.74	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$1,052.76	\$0.00	\$14.19	\$10.74	\$
Average Steam Cost	\$7.42	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	74.1	82.5	%
Efficiency By I/O	81.0				%

Central State Hospital
Heating Plant Day Operations Report

8/11/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	137.26	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.1	klbs			
Total Plant Gas Flow	171.98	kscf			
Total Plant Gas Cost	\$1,056.08	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,056.08	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	78.2	%			
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	23.5	0.0	0.6	0.3	hrs
Steam Flow	137.26	0.00	0.00	0.00	klbs
Gas Flow	167.45	0.00	2.31	2.22	kscf
Natural Gas Cost	\$1,028.27	\$0.00	\$14.20	\$13.61	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$1,028.27	\$0.00	\$14.20	\$13.61	\$
Average Steam Cost	\$7.49	---	---	---	\$/klbs
Efficiency By Losses	81.7	0.0	74.0	76.5	%
Efficiency By I/O	80.3				%

Central State Hospital
Heating Plant Day Operations Report

8/12/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	137.24				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.2				klbs
Total Plant Gas Flow	171.42				kscf
Total Plant Gas Cost	\$1,052.65				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,052.65				\$
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	0.7	0.3	hrs
Steam Flow	137.24	0.00	0.00	0.00	klbs
Gas Flow	167.28	0.00	2.36	1.78	kscf
Natural Gas Cost	\$1,027.23	\$0.00	\$14.48	\$10.93	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$1,027.23	\$0.00	\$14.48	\$10.93	\$
Average Steam Cost	\$7.49	---	---	---	\$/klbs
Efficiency By Losses	81.7	0.0	75.8	78.3	%
Efficiency By I/O	80.3				%

Central State Hospital
Heating Plant Day Operations Report

8/13/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	142.84	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.3	klbs			
Total Plant Gas Flow	176.25	kscf			
Total Plant Gas Cost	\$1,082.31	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,082.31	\$			
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	0.1	hrs
Steam Flow	142.84	0.00	0.00	0.00	klbs
Gas Flow	173.21	0.00	2.59	0.45	kscf
Natural Gas Cost	\$1,063.64	\$0.00	\$15.91	\$2.77	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$1,063.64	\$0.00	\$15.91	\$2.77	\$
Average Steam Cost	\$7.45	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	80.5	0.0	%
Efficiency By I/O	80.8				%

Central State Hospital
Heating Plant Day Operations Report

8/14/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	141.05	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.4	klbs			
Total Plant Gas Flow	174.09	kscf			
Total Plant Gas Cost	\$1,069.02	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,069.02	\$			
Fuel Cost Per Heating Degree Day	---	\$/hdd			
Plant Average Steam Cost Per Degree Day	---	\$/klbs			
Total Plant Efficiency By I/O	79.3	%			
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	23.5	0.0	0.6	0.0	hrs
Steam Flow	141.05	0.00	0.00	0.00	klbs
Gas Flow	171.94	0.00	2.15	0.00	kscf
Natural Gas Cost	\$1,055.83	\$0.00	\$13.19	\$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	\$1,055.83	\$0.00	\$13.19	\$0.00	\$
Average Steam Cost	\$7.49	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	79.4	0.0	%
Efficiency By I/O	80.3				%

Central State Hospital
Heating Plant Day Operations Report

8/15/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	140.26	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.4	klbs			
Total Plant Gas Flow	173.45	kscf			
Total Plant Gas Cost	\$1,065.09	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,065.09	\$			
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	23.5	0.0	0.6	0.0	hrs
Steam Flow	140.26	0.00	0.00	0.00	klbs
Gas Flow	171.27	0.00	2.18	0.00	kscf
Natural Gas Cost	\$1,051.73	\$0.00	\$13.36	\$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	\$1,051.73	\$0.00	\$13.36	\$0.00	\$
Average Steam Cost	\$7.50	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	73.8	0.0	%
Efficiency By I/O	80.2				%

Central State Hospital
Heating Plant Day Operations Report

8/16/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	142.45				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.3				klbs
Total Plant Gas Flow	174.73				kscf
Total Plant Gas Cost	\$1,072.95				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,072.95				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	79.8				%
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	142.45	0.00	0.00	0.00	klbs
Gas Flow	172.33	0.00	2.40	0.00	kscf
Natural Gas Cost	\$1,058.21	\$0.00	\$14.74	\$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	\$1,058.21	\$0.00	\$14.74	\$0.00	\$
Average Steam Cost	\$7.43	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	75.8	0.0	%
Efficiency By I/O	81.0				%

Central State Hospital
Heating Plant Day Operations Report

8/17/2019
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	142.73	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	9.3	klbs			
Total Plant Gas Flow	176.13	kscf			
Total Plant Gas Cost	\$1,081.59	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,081.59	\$			
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	142.73	0.00	0.00	0.00	klbs
Gas Flow	173.76	0.00	2.37	0.00	kscf
Natural Gas Cost	\$1,067.04	\$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	\$1,067.04	\$0.00	\$14.56	\$0.00	\$
Average Steam Cost	\$7.48	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	77.4	0.0	%
Efficiency By I/O	80.4				%

Central State Hospital
Heating Plant Day Operations Report

8/18/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	134.98				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.2				klbs
Total Plant Gas Flow	168.26				kscf
Total Plant Gas Cost	\$1,033.21				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,033.21				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	78.6				%
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	23.5	0.0	0.7	0.0	hrs
Steam Flow	134.98	0.00	0.00	0.00	klbs
Gas Flow	165.62	0.00	2.63	0.00	kscf
Natural Gas Cost	\$1,017.05	\$0.00	\$16.17	\$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	\$1,017.05	\$0.00	\$16.17	\$0.00	\$
Average Steam Cost	\$7.53	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	76.2	0.0	%
Efficiency By I/O	79.8				%

Central State Hospital
Heating Plant Day Operations Report

8/19/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	133.22	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	9.2	klbs
Total Plant Gas Flow	166.66	kscf
Total Plant Gas Cost	\$1,023.41	\$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	\$0.00	\$
Total Plant Fuel Cost	\$1,023.41	\$
Fuel Cost Per Heating Degree Day	---	\$/hdd
Plant Average Steam Cost Per Degree Day	---	\$/klbs
Total Plant Efficiency By I/O	78.3	%

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	23.5	0.0	0.7	0.0	hrs
Steam Flow	133.22	0.00	0.00	0.00	klbs
Gas Flow	164.26	0.00	2.40	0.00	kscf
Natural Gas Cost	\$1,008.69	\$0.00	\$14.72	\$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	\$1,008.69	\$0.00	\$14.72	\$0.00	\$
Average Steam Cost	\$7.57	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	74.7	0.0	%
Efficiency By I/O	79.4				%

Central State Hospital
Heating Plant Day Operations Report

8/20/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	141.44				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.3				klbs
Total Plant Gas Flow	173.95				kscf
Total Plant Gas Cost	\$1,068.16				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,068.16				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	79.6				%
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	23.5	0.0	0.6	0.0	hrs
Steam Flow	141.44	0.00	0.00	0.00	klbs
Gas Flow	171.70	0.00	2.24	0.00	kscf
Natural Gas Cost	\$1,054.38	\$0.00	\$13.78	\$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	\$1,054.38	\$0.00	\$13.78	\$0.00	\$
Average Steam Cost	\$7.45	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	73.8	0.0	%
Efficiency By I/O	80.7				%

Central State Hospital
Heating Plant Day Operations Report

8/21/2019
7:01 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	140.98				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.3				klbs
Total Plant Gas Flow	172.85				kscf
Total Plant Gas Cost	\$1,061.42				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.04				\$
Total Plant Fuel Cost	\$1,061.46				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	79.9				%
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	23.5	0.0	0.7	0.0	hrs
Steam Flow	140.98	0.00	0.00	0.00	klbs
Gas Flow	170.27	0.00	2.58	0.00	kscf
Natural Gas Cost	\$1,045.57	\$0.00	\$15.85	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.04	\$
Total Fuel Cost	\$1,045.57	\$0.00	\$15.85	\$0.04	\$
Average Steam Cost	\$7.42	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	76.1	0.0	%
Efficiency By I/O	81.1				%

Central State Hospital
Heating Plant Day Operations Report

8/22/2019
8:01 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	0.00	hdd			
Total Plant Steam Flow	3.16	klbs			
Steam Flow Per Heating Degree Day	---	klbs/hdd			
Total Condensate Return Water Flow	0.2	klbs			
Total Plant Gas Flow	3.95	kscf			
Total Plant Gas Cost	\$24.24	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$24.24	\$			
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	0.5	hrs			
Condensate Transfer Pump #2 Run Time	0.5	hrs			
Condensate Transfer Pump #3 Run Time	0.5	hrs			
Boiler Feed Pump #1 Run Time	0.5	hrs			
Boiler Feed Pump #2 Run Time	0.5	hrs			
Boiler Feed Pump #3 Run Time	0.5	hrs			
Boiler Feed Pump #4 Run Time	0.5	hrs			
Fuel Oil Pump #1 Run Time	0.5	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	0.0	0.0	hrs
Steam Flow	3.16	0.00	0.00	0.00	klbs
Gas Flow	3.95	0.00	0.00	0.00	kscf
Natural Gas Cost	\$24.24	\$0.00	\$0.00	\$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	\$24.24	\$0.00	\$0.00	\$0.00	\$
Average Steam Cost	\$7.68	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	76.5	0.0	%
Efficiency By I/O	78.4				%

Central State Hospital
Heating Plant Day Operations Report

8/23/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	139.95	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	9.2	klbs
Total Plant Gas Flow	173.81	kscf
Total Plant Gas Cost	\$1,067.31	\$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	\$0.08	\$
Total Plant Fuel Cost	\$1,067.39	\$
Fuel Cost Per Heating Degree Day	---	\$/hdd
Plant Average Steam Cost Per Degree Day	---	\$/klbs
Total Plant Efficiency By I/O	78.9	%

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	23.5	0.0	0.8	0.0	hrs
Steam Flow	139.95	0.00	0.00	0.00	klbs
Gas Flow	171.01	0.00	2.80	0.00	kscf
Natural Gas Cost	\$1,050.11	\$0.00	\$17.20	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.08	\$
Total Fuel Cost	\$1,050.11	\$0.00	\$17.20	\$0.08	\$
Average Steam Cost	\$7.50	---	---	---	\$/klbs
Efficiency By Losses	81.8	0.0	76.5	0.0	%
Efficiency By I/O	80.1				%

Central State Hospital
Heating Plant Day Operations Report

8/24/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	145.37				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.1				klbs
Total Plant Gas Flow	178.51				kscf
Total Plant Gas Cost	\$1,096.21				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,096.21				\$
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	0.9	0.0	hrs
Steam Flow	145.37	0.00	0.00	0.00	klbs
Gas Flow	175.35	0.00	3.16	0.00	kscf
Natural Gas Cost	\$1,076.80	\$0.00	\$19.41	\$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	\$1,076.80	\$0.00	\$19.41	\$0.00	\$
Average Steam Cost	\$7.41	---	---	---	\$/klbs
Efficiency By Losses	81.7	0.0	76.6	0.0	%
Efficiency By I/O	81.2				%

Central State Hospital
Heating Plant Day Operations Report

8/25/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	142.43				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.1				klbs
Total Plant Gas Flow	175.97				kscf
Total Plant Gas Cost	\$1,080.56				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,080.56				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	79.3				%
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	23.5	0.0	0.9	0.0	hrs
Steam Flow	142.43	0.00	0.00	0.00	klbs
Gas Flow	172.89	0.00	3.07	0.00	kscf
Natural Gas Cost	\$1,061.70	\$0.00	\$18.86	\$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	\$1,061.70	\$0.00	\$18.86	\$0.00	\$
Average Steam Cost	\$7.45	---	---	---	\$/klbs
Efficiency By Losses	81.7	0.0	77.4	0.0	%
Efficiency By I/O	80.7				%

Central State Hospital
Heating Plant Day Operations Report

8/26/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	143.65				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	9.1				klbs
Total Plant Gas Flow	177.50				kscf
Total Plant Gas Cost	\$1,089.96				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,089.96				\$
Fuel Cost Per Heating Degree Day	---				\$/hdd
Plant Average Steam Cost Per Degree Day	---				\$/klbs
Total Plant Efficiency By I/O	79.3				%
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	23.5	0.0	1.0	0.0	hrs
Steam Flow	143.65	0.00	0.00	0.00	klbs
Gas Flow	173.91	0.00	3.59	0.00	kscf
Natural Gas Cost	\$1,067.93	\$0.00	\$22.03	\$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	\$1,067.93	\$0.00	\$22.03	\$0.00	\$
Average Steam Cost	\$7.43	---	---	---	\$/klbs
Efficiency By Losses	81.6	0.0	76.7	0.0	%
Efficiency By I/O	80.9				%

Central State Hospital
Heating Plant Day Operations Report

8/27/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	152.86				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	8.9				klbs
Total Plant Gas Flow	186.44				kscf
Total Plant Gas Cost	\$1,144.90				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,144.90				\$
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	23.5	0.0	0.9	0.0	hrs
Steam Flow	152.86	0.00	0.00	0.00	klbs
Gas Flow	183.31	0.00	3.13	0.00	kscf
Natural Gas Cost	\$1,125.65	\$0.00	\$19.25	\$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	\$1,125.65	\$0.00	\$19.25	\$0.00	\$
Average Steam Cost	\$7.36	---	---	---	\$/klbs
Efficiency By Losses	81.7	0.0	76.1	0.0	%
Efficiency By I/O	81.7				%

Central State Hospital
Heating Plant Day Operations Report

8/28/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	21.53	hdd
Total Plant Steam Flow	123.07	klbs
Steam Flow Per Heating Degree Day	5.7	klbs/hdd
Total Condensate Return Water Flow	9.0	klbs
Total Plant Gas Flow	174.42	kscf
Total Plant Gas Cost	\$1,071.09	\$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	\$0.00	\$
Total Plant Fuel Cost	\$1,071.09	\$
Fuel Cost Per Heating Degree Day	\$49.75	\$/hdd
Plant Average Steam Cost Per Degree Day	\$0.40	\$/klbs
Total Plant Efficiency By I/O	69.1	%

Condensate Transfer Pump #1 Run Time	23.3	hrs
Condensate Transfer Pump #2 Run Time	23.3	hrs
Condensate Transfer Pump #3 Run Time	23.3	hrs
Boiler Feed Pump #1 Run Time	23.3	hrs
Boiler Feed Pump #2 Run Time	23.3	hrs
Boiler Feed Pump #3 Run Time	23.3	hrs
Boiler Feed Pump #4 Run Time	23.3	hrs
Fuel Oil Pump #1 Run Time	23.3	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	15.2	0.0	4.6	0.0	hrs
Steam Flow	99.13	0.00	23.95	0.00	klbs
Gas Flow	119.03	0.00	55.40	0.00	kscf
Natural Gas Cost	\$730.92	\$0.00	\$340.18	\$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	\$730.92	\$0.00	\$340.18	\$0.00	\$
Average Steam Cost	\$7.37	---	\$14.20	---	\$/klbs
Efficiency By Losses	0.0	0.0	77.8	0.0	%
Efficiency By I/O	81.6		42.3		%

Central State Hospital
Heating Plant Day Operations Report

8/29/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	22.01				hdd
Total Plant Steam Flow	141.40				klbs
Steam Flow Per Heating Degree Day	6.4				klbs/hdd
Total Condensate Return Water Flow	8.7				klbs
Total Plant Gas Flow	181.53				kscf
Total Plant Gas Cost	\$1,114.76				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$1,114.76				\$
Fuel Cost Per Heating Degree Day	\$50.64				\$/hdd
Plant Average Steam Cost Per Degree Day	\$0.36				\$/klbs
Total Plant Efficiency By I/O	76.3				%
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	21.6	0.0	1.6	0.0	hrs
Steam Flow	132.97	0.00	8.44	0.00	klbs
Gas Flow	164.93	0.00	16.61	0.00	kscf
Natural Gas Cost	\$1,012.78	\$0.00	\$101.99	\$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	\$1,012.78	\$0.00	\$101.99	\$0.00	\$
Average Steam Cost	\$7.62	---	\$12.09	---	\$/klbs
Efficiency By Losses	81.7	0.0	80.6	0.0	%
Efficiency By I/O	79.0		49.8		%

Central State Hospital
Heating Plant Day Operations Report

8/30/2019
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	0.00				hdd
Total Plant Steam Flow	150.94				klbs
Steam Flow Per Heating Degree Day	---				klbs/hdd
Total Condensate Return Water Flow	8.9				klbs
Total Plant Gas Flow	184.61				kscf
Total Plant Gas Cost	\$1,133.62				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.15				\$
Total Plant Fuel Cost	\$1,133.77				\$
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	23.5	0.0	0.7	0.0	hrs
Steam Flow	150.94	0.00	0.00	0.00	klbs
Gas Flow	182.18	0.00	2.43	0.00	kscf
Natural Gas Cost	\$1,118.71	\$0.00	\$14.91	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.15	\$
Total Fuel Cost	\$1,118.71	\$0.00	\$14.91	\$0.15	\$
Average Steam Cost	\$7.41	---	---	---	\$/klbs
Efficiency By Losses	81.7	0.0	78.9	0.0	%
Efficiency By I/O	81.1				%

Central State Hospital
Heating Plant Day Operations Report

8/31/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	147.92	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	9.0	klbs
Total Plant Gas Flow	180.78	kscf
Total Plant Gas Cost	\$1,110.10	\$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	\$0.00	\$
Total Plant Fuel Cost	\$1,110.10	\$
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	23.5	0.0	0.7	0.0	hrs
Steam Flow	147.92	0.00	0.00	0.00	klbs
Gas Flow	178.37	0.00	2.40	0.00	kscf
Natural Gas Cost	\$1,095.35	\$0.00	\$14.74	\$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	\$1,095.35	\$0.00	\$14.74	\$0.00	\$
Average Steam Cost	\$7.41	---	---	---	\$/klbs
Efficiency By Losses	81.7	0.0	82.1	0.0	%
Efficiency By I/O	81.2				%