Central State Hospital

Heating Plant Day Operations Report

2/1/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	34.97	hdd
Total Plant Steam Flow	391.72	klbs
Steam Flow Per Heating Degree Day	11.2	klbs/hdd
Total Condensate Return Water Flow	4.3	klbs
Total Plant Gas Flow	428.15	kscf
Total Plant Gas Cost	$2,629.13	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,629.13	$
Fuel Cost Per Heating Degree Day	$75.18	$/hdd
Plant Average Steam Cost Per Degree Day	$0.19	$/klbs
Total Plant Efficiency By I/O	89.6	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	13.2	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	0.6	23.5	hrs
Steam Flow	0.00	0.00	0.00	391.72	klbs
Gas Flow	0.00	0.00	2.93	425.21	kscf
Natural Gas Cost	$0.00	$0.00	$18.02	$2,611.11	$
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	$18.02	$2,611.11	$
Average Steam Cost	—	---	—	$6.67	$/klbs
Efficiency By Losses	0.0	0.0	75.2	82.0	%
Efficiency By I/O				90.2	%

Central State Hospital

Heating Plant Day Operations Report

2/2/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	20.93	hdd
Total Plant Steam Flow	331.84	klbs
Steam Flow Per Heating Degree Day	15.9	klbs/hdd
Total Condensate Return Water Flow	4.4	klbs
Total Plant Gas Flow	370.84	kscf
Total Plant Gas Cost	$2,277.23	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,277.23	$
Fuel Cost Per Heating Degree Day	$108.82	$/hdd
Plant Average Steam Cost Per Degree Day	$0.33	$/klbs
Total Plant Efficiency By I/O	87.6	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	12.1	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	0.5	23.5	hrs
Steam Flow	0.00	0.00	0.00	331.84	klbs
Gas Flow	0.00	0.00	2.32	368.52	kscf
Natural Gas Cost	$0.00	$0.00	$14.24	$2,262.99	$
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	$14.24	$2,262.99	$
Average Steam Cost	---	---	---	$6.82	$/klbs
Efficiency By Losses	0.0	0.0	75.1	82.1	%
Efficiency By I/O				88.2	%

Central State Hospital

Heating Plant Day Operations Report

2/3/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	29.15	hdd
Total Plant Steam Flow	392.91	klbs
Steam Flow Per Heating Degree Day	13.5	klbs/hdd
Total Condensate Return Water Flow	4.7	klbs
Total Plant Gas Flow	437.66	kscf
Total Plant Gas Cost	$2,687.54	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,687.54	$
Fuel Cost Per Heating Degree Day	$92.18	$/hdd
Plant Average Steam Cost Per Degree Day	$0.23	$/klbs
Total Plant Efficiency By I/O	87.9	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	12.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	0.7	23.5	hrs
Steam Flow	0.00	0.00	0.00	392.91	klbs
Gas Flow	0.00	0.00	3.60	434.06	kscf
Natural Gas Cost	$0.00	$0.00	$22.09	$2,665.45	$
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	$22.09	$2,665.45	$
Average Steam Cost	---	---	---	$6.78	$/klbs
Efficiency By Losses	0.0	0.0	73.4	81.7	%
Efficiency By I/O				88.6	%

Central State Hospital

Heating Plant Day Operations Report

2/4/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	40.10	hdd
Total Plant Steam Flow	386.42	klbs
Steam Flow Per Heating Degree Day	9.6	klbs/hdd
Total Condensate Return Water Flow	3.6	klbs
Total Plant Gas Flow	449.85	kscf
Total Plant Gas Cost	$2,762.41	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,762.41	$
Fuel Cost Per Heating Degree Day	$68.89	$/hdd
Plant Average Steam Cost Per Degree Day	$0.18	$/klbs
Total Plant Efficiency By I/O	84.1	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	12.8	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	0.6	23.5	hrs
Steam Flow	0.00	0.00	0.00	386.42	klbs
Gas Flow	0.00	0.00	3.26	446.59	kscf
Natural Gas Cost	$0.00	$0.00	$20.00	$2,742.41	$
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	$20.00	$2,742.41	$
Average Steam Cost	---	---	---	$7.10	$/klbs
Efficiency By Losses	0.0	0.0	78.4	81.7	%
Efficiency By I/O				84.7	%

Central State Hospital

Heating Plant Day Operations Report

2/5/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	26.04	hdd
Total Plant Steam Flow	358.02	klbs
Steam Flow Per Heating Degree Day	13.7	klbs/hdd
Total Condensate Return Water Flow	4.4	klbs
Total Plant Gas Flow	409.86	kscf
Total Plant Gas Cost	$2,516.84	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,516.84	$
Fuel Cost Per Heating Degree Day	$96.66	$/hdd
Plant Average Steam Cost Per Degree Day	$0.27	$/klbs
Total Plant Efficiency By I/O	85.5	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	12.7	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	3.2	21.1	hrs
Steam Flow	0.00	0.00	37.35	320.67	klbs
Gas Flow	0.00	0.00	44.85	365.00	kscf
Natural Gas Cost	$0.00	$0.00	$275.44	$2,241.40	$
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	$275.44	$2,241.40	$
Average Steam Cost	—	---	$7.37	$6.99	$/klbs
Efficiency By Losses	0.0	0.0	82.5	82.1	%
Efficiency By I/O			81.6	86.0	%

Central State Hospital

Heating Plant Day Operations Report

2/6/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	31.04	hdd
Total Plant Steam Flow	369.23	klbs
Steam Flow Per Heating Degree Day	11.9	klbs/hdd
Total Condensate Return Water Flow	4.5	klbs
Total Plant Gas Flow	407.28	kscf
Total Plant Gas Cost	$2,500.99	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,500.99	$
Fuel Cost Per Heating Degree Day	$80.58	$/hdd
Plant Average Steam Cost Per Degree Day	$0.22	$/klbs
Total Plant Efficiency By I/O	88.8	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	6.1	hrs
Boiler Feed Pump #3 Run Time	17.4	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	0.3	hrs
Steam Flow	0.00	0.00	369.23	0.00	klbs
Gas Flow	0.00	0.00	405.77	1.51	kscf
Natural Gas Cost	$0.00	$0.00	$2,491.75	$9.25	$
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	$2,491.75	$9.25	$
Average Steam Cost	---	---	$6.75	---	$/klbs
Efficiency By Losses	0.0	0.0	81.4	78.7	%
Efficiency By I/O			89.1		%

Central State Hospital

Heating Plant Day Operations Report

2/7/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	27.44	hdd
Total Plant Steam Flow	351.28	klbs
Steam Flow Per Heating Degree Day	12.8	klbs/hdd
Total Condensate Return Water Flow	4.1	klbs
Total Plant Gas Flow	387.69	kscf
Total Plant Gas Cost	$2,380.72	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,380.72	$
Fuel Cost Per Heating Degree Day	$86.78	$/hdd
Plant Average Steam Cost Per Degree Day	$0.25	$/klbs
Total Plant Efficiency By I/O	88.7	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.0	hrs
Boiler Feed Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	0.3	hrs
Steam Flow	0.00	0.00	351.28	0.00	klbs
Gas Flow	0.00	0.00	385.87	1.82	kscf
Natural Gas Cost	$0.00	$0.00	$2,369.53	$11.19	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$0.00	$2,369.53	$11.19	$
Average Steam Cost	---	---	$6.75	---	$/klbs
Efficiency By Losses	0.0	0.0	82.7	81.4	%
Efficiency By I/O			89.2		%

Central State Hospital

Heating Plant Day Operations Report

2/8/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	18.94	hdd
Total Plant Steam Flow	334.67	klbs
Steam Flow Per Heating Degree Day	17.7	klbs/hdd
Total Condensate Return Water Flow	4.4	klbs
Total Plant Gas Flow	373.76	kscf
Total Plant Gas Cost	$2,295.15	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,295.15	$
Fuel Cost Per Heating Degree Day	$121.17	$/hdd
Plant Average Steam Cost Per Degree Day	$0.36	$/klbs
Total Plant Efficiency By I/O	87.7	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.0	hrs
Boiler Feed Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	23.1	0.4	hrs
Steam Flow	0.00	0.00	334.67	0.00	klbs
Gas Flow	0.00	0.00	371.21	2.55	kscf
Natural Gas Cost	$0.00	$0.00	$2,279.49	$15.65	$
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	$2,279.49	$15.65	$
Average Steam Cost	---	—	$6.81	—	$/klbs
Efficiency By Losses	0.0	0.0	82.4	73.6	%
Efficiency By I/O			88.3		%

Central State Hospital

Heating Plant Day Operations Report

2/9/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	31.52	hdd
Total Plant Steam Flow	366.25	klbs
Steam Flow Per Heating Degree Day	11.6	klbs/hdd
Total Condensate Return Water Flow	4.4	klbs
Total Plant Gas Flow	406.32	kscf
Total Plant Gas Cost	$2,495.09	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,495.09	$
Fuel Cost Per Heating Degree Day	$79.16	$/hdd
Plant Average Steam Cost Per Degree Day	$0.22	$/klbs
Total Plant Efficiency By I/O	88.3	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.0	hrs
Boiler Feed Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	23.3	0.6	hrs
Steam Flow	0.00	0.00	365.07	1.18	klbs
Gas Flow	0.00	0.00	400.71	5.61	kscf
Natural Gas Cost	$0.00	$0.00	$2,460.64	$34.45	$
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	$2,460.64	$34.45	$
Average Steam Cost	---	---	$6.74	$29.19	$/klbs
Efficiency By Losses	0.0	0.0	81.4	79.6	%
Efficiency By I/O			89.2	20.6	%

Central State Hospital

Heating Plant Day Operations Report

2/10/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	27.79	hdd
Total Plant Steam Flow	340.63	klbs
Steam Flow Per Heating Degree Day	12.3	klbs/hdd
Total Condensate Return Water Flow	3.9	klbs
Total Plant Gas Flow	374.79	kscf
Total Plant Gas Cost	$2,301.48	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,301.48	$
Fuel Cost Per Heating Degree Day	$82.83	$/hdd
Plant Average Steam Cost Per Degree Day	$0.24	$/klbs
Total Plant Efficiency By I/O	89.0	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.0	hrs
Boiler Feed Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	0.5	hrs
Steam Flow	0.00	0.00	339.53	1.10	klbs
Gas Flow	0.00	0.00	370.28	4.51	kscf
Natural Gas Cost	$0.00	$0.00	$2,273.81	$27.68	$
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	$2,273.81	$27.68	$
Average Steam Cost	—	—	$6.70	$25.16	$/klbs
Efficiency By Losses	0.0	0.0	82.8	81.9	%
Efficiency By I/O			89.8	23.9	%

Central State Hospital

Heating Plant Day Operations Report

2/11/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	18.59	hdd
Total Plant Steam Flow	304.48	klbs
Steam Flow Per Heating Degree Day	16.4	klbs/hdd
Total Condensate Return Water Flow	3.9	klbs
Total Plant Gas Flow	335.44	kscf
Total Plant Gas Cost	$2,059.86	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,059.86	$
Fuel Cost Per Heating Degree Day	$110.80	$/hdd
Plant Average Steam Cost Per Degree Day	$0.36	$/klbs
Total Plant Efficiency By I/O	88.9	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.0	hrs
Boiler Feed Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	0.3	hrs
Steam Flow	0.00	0.00	304.48	0.00	klbs
Gas Flow	0.00	0.00	333.52	1.92	kscf
Natural Gas Cost	$0.00	$0.00	$2,048.06	$11.80	$
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	$2,048.06	$11.80	$
Average Steam Cost	---	---	$6.73	—	$/klbs
Efficiency By Losses	0.0	0.0	82.9	75.9	%
Efficiency By I/O			89.4		%

Central State Hospital

Heating Plant Day Operations Report

2/12/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.24	hdd
Total Plant Steam Flow	249.04	klbs
Steam Flow Per Heating Degree Day	1,017.8	klbs/hdd
Total Condensate Return Water Flow	5.1	klbs
Total Plant Gas Flow	291.15	kscf
Total Plant Gas Cost	$1,787.87	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,787.87	$
Fuel Cost Per Heating Degree Day	$7,306.90	$/hdd
Plant Average Steam Cost Per Degree Day	$29.34	$/klbs
Total Plant Efficiency By I/O	83.8	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.0	hrs
Boiler Feed Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	22.0	0.7	hrs
Steam Flow	0.00	0.00	248.86	0.18	klbs
Gas Flow	0.00	0.00	285.85	5.30	kscf
Natural Gas Cost	$0.00	$0.00	$1,755.33	$32.54	$
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	$1,755.33	$32.54	$
Average Steam Cost	—	---	$7.05	$181.34	$/klbs
Efficiency By Losses	0.0	0.0	82.1	80.6	%
Efficiency By I/O			85.3	3.3	%

Central State Hospital

Heating Plant Day Operations Report

2/13/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	13.93	hdd
Total Plant Steam Flow	345.27	klbs
Steam Flow Per Heating Degree Day	24.8	klbs/hdd
Total Condensate Return Water Flow	4.3	klbs
Total Plant Gas Flow	379.74	kscf
Total Plant Gas Cost	$2,331.89	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,331.89	$
Fuel Cost Per Heating Degree Day	$167.45	$/hdd
Plant Average Steam Cost Per Degree Day	$0.48	$/klbs
Total Plant Efficiency By I/O	89.0	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.0	hrs
Boiler Feed Pump #3 Run Time	14.8	hrs
Boiler Feed Pump #4 Run Time	8.7	hrs
Fuel Oil Pump #1 Run Time	0.0	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	0.2	hrs
Steam Flow	0.00	0.00	345.27	0.00	klbs
Gas Flow	0.00	0.00	378.50	1.24	kscf
Natural Gas Cost	$0.00	$0.00	$2,324.27	$7.61	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$0.00	$2,324.27	$7.61	$
Average Steam Cost	---	---	$6.73	---	$/klbs
Efficiency By Losses	0.0	0.0	82.8	77.6	%
Efficiency By I/O			89.3		%

Central State Hospital

Heating Plant Day Operations Report

2/14/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	28.90	hdd
Total Plant Steam Flow	373.47	klbs
Steam Flow Per Heating Degree Day	12.9	klbs/hdd
Total Condensate Return Water Flow	3.2	klbs
Total Plant Gas Flow	414.94	kscf
Total Plant Gas Cost	$2,548.04	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,548.04	$
Fuel Cost Per Heating Degree Day	$88.17	$/hdd
Plant Average Steam Cost Per Degree Day	$0.24	$/klbs
Total Plant Efficiency By I/O	88.1	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.1	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	23.2	hrs
Fuel Oil Pump #1 Run Time	0.0	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	23.3	0.7	hrs
Steam Flow	0.00	0.00	367.22	6.25	klbs
Gas Flow	0.00	0.00	404.26	10.68	kscf
Natural Gas Cost	$0.00	$0.00	$2,482.46	$65.58	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$0.00	$2,482.46	$65.58	$
Average Steam Cost	---	---	$6.76	$10.49	$/klbs
Efficiency By Losses	0.0	0.0	82.8	81.7	%
Efficiency By I/O			89.0	57.3	%

Central State Hospital

Heating Plant Day Operations Report

2/15/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	22.05	hdd
Total Plant Steam Flow	321.30	klbs
Steam Flow Per Heating Degree Day	14.6	klbs/hdd
Total Condensate Return Water Flow	3.8	klbs
Total Plant Gas Flow	357.66	kscf
Total Plant Gas Cost	$2,196.29	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,196.29	$
Fuel Cost Per Heating Degree Day	$99.61	$/hdd
Plant Average Steam Cost Per Degree Day	$0.31	$/klbs
Total Plant Efficiency By I/O	88.0	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.0	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	23.5	hrs
Fuel Oil Pump #1 Run Time	0.0	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	23.3	0.2	hrs
Steam Flow	0.00	0.00	321.30	0.00	klbs
Gas Flow	0.00	0.00	356.58	1.08	kscf
Natural Gas Cost	$0.00	$0.00	$2,189.64	$6.65	$
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	$2,189.64	$6.65	$
Average Steam Cost	---	---	$6.81	---	$/klbs
Efficiency By Losses	0.0	0.0	82.8	74.4	%
Efficiency By I/O			88.2		%

Central State Hospital

Heating Plant Day Operations Report

2/16/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	5.50	hdd
Total Plant Steam Flow	265.64	klbs
Steam Flow Per Heating Degree Day	48.3	klbs/hdd
Total Condensate Return Water Flow	5.3	klbs
Total Plant Gas Flow	305.87	kscf
Total Plant Gas Cost	$1,878.28	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,878.28	$
Fuel Cost Per Heating Degree Day	$341.60	$/hdd
Plant Average Steam Cost Per Degree Day	$1.29	$/klbs
Total Plant Efficiency By I/O	85.0	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.0	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	23.5	hrs
Fuel Oil Pump #1 Run Time	0.0	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	22.7	0.3	hrs
Steam Flow	0.00	0.00	265.64	0.00	klbs
Gas Flow	0.00	0.00	304.33	1.54	kscf
Natural Gas Cost	$0.00	$0.00	$1,868.82	$9.46	$
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	$1,868.82	$9.46	$
Average Steam Cost	---	---	$7.04	---	$/klbs
Efficiency By Losses	0.0	0.0	82.5	81.3	%
Efficiency By I/O			85.5		%

Central State Hospital

Heating Plant Day Operations Report

2/17/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	9.04	hdd
Total Plant Steam Flow	273.76	klbs
Steam Flow Per Heating Degree Day	30.3	klbs/hdd
Total Condensate Return Water Flow	4.3	klbs
Total Plant Gas Flow	319.72	kscf
Total Plant Gas Cost	$1,963.30	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,963.30	$
Fuel Cost Per Heating Degree Day	$217.13	$/hdd
Plant Average Steam Cost Per Degree Day	$0.79	$/klbs
Total Plant Efficiency By I/O	83.9	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.0	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	23.5	hrs
Fuel Oil Pump #1 Run Time	0.0	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	22.5	0.8	hrs
Steam Flow	0.00	0.00	272.36	1.40	klbs
Gas Flow	0.00	0.00	313.51	6.20	kscf
Natural Gas Cost	$0.00	$0.00	$1,925.22	$38.09	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$0.00	$1,925.22	$38.09	$
Average Steam Cost	---	---	$7.07	$27.16	$/klbs
Efficiency By Losses	0.0	0.0	82.6	0.0	%
Efficiency By I/O			85.1	22.1	%

Central State Hospital

Heating Plant Day Operations Report

2/18/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	24.60	hdd
Total Plant Steam Flow	318.89	klbs
Steam Flow Per Heating Degree Day	13.0	klbs/hdd
Total Condensate Return Water Flow	4.0	klbs
Total Plant Gas Flow	357.70	kscf
Total Plant Gas Cost	$2,196.56	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,196.56	$
Fuel Cost Per Heating Degree Day	$89.28	$/hdd
Plant Average Steam Cost Per Degree Day	$0.28	$/klbs
Total Plant Efficiency By I/O	87.3	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.0	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	23.5	hrs
Fuel Oil Pump #1 Run Time	0.0	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	23.3	0.4	hrs
Steam Flow	0.00	0.00	318.89	0.00	klbs
Gas Flow	0.00	0.00	355.35	2.35	kscf
Natural Gas Cost	$0.00	$0.00	$2,182.10	$14.46	$
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	$2,182.10	$14.46	$
Average Steam Cost	---	---	$6.84	---	$/klbs
Efficiency By Losses	0.0	0.0	82.8	81.4	%
Efficiency By I/O			87.9		%

Central State Hospital

Heating Plant Day Operations Report

2/19/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	22.68	hdd
Total Plant Steam Flow	309.22	klbs
Steam Flow Per Heating Degree Day	13.6	klbs/hdd
Total Condensate Return Water Flow	3.9	klbs
Total Plant Gas Flow	349.37	kscf
Total Plant Gas Cost	$2,145.41	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,145.41	$
Fuel Cost Per Heating Degree Day	$94.61	$/hdd
Plant Average Steam Cost Per Degree Day	$0.31	$/klbs
Total Plant Efficiency By I/O	86.7	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.0	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	23.5	hrs
Fuel Oil Pump #1 Run Time	0.0	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	23.3	0.7	hrs
Steam Flow	0.00	0.00	308.48	0.74	klbs
Gas Flow	0.00	0.00	343.49	5.88	kscf
Natural Gas Cost	$0.00	$0.00	$2,109.30	$36.11	$
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	$2,109.30	$36.11	$
Average Steam Cost	---	---	$6.84	$48.66	$/klbs
Efficiency By Losses	0.0	0.0	82.7	79.6	%
Efficiency By I/O			87.9	12.4	%

Central State Hospital

Heating Plant Day Operations Report

2/20/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	24.05	hdd
Total Plant Steam Flow	304.37	klbs
Steam Flow Per Heating Degree Day	12.7	klbs/hdd
Total Condensate Return Water Flow	4.0	klbs
Total Plant Gas Flow	341.13	kscf
Total Plant Gas Cost	$2,094.79	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,094.79	$
Fuel Cost Per Heating Degree Day	$87.09	$/hdd
Plant Average Steam Cost Per Degree Day	$0.29	$/klbs
Total Plant Efficiency By I/O	87.4	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	0.0	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	23.5	hrs
Fuel Oil Pump #1 Run Time	0.0	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	23.4	0.5	hrs
Steam Flow	0.00	0.00	302.22	2.15	klbs
Gas Flow	2.06	0.00	334.92	4.15	kscf
Natural Gas Cost	$12.63	$0.00	$2,056.68	$25.48	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$12.63	$0.00	$2,056.68	$25.48	$
Average Steam Cost	---	---	$6.81	$11.83	$/klbs
Efficiency By Losses	0.0	0.0	82.7	0.0	%
Efficiency By I/O			88.4	50.8	%

Central State Hospital

Heating Plant Day Operations Report

2/21/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	6.00	hdd
Total Plant Steam Flow	271.57	klbs
Steam Flow Per Heating Degree Day	45.2	klbs/hdd
Total Condensate Return Water Flow	4.4	klbs
Total Plant Gas Flow	302.99	kscf
Total Plant Gas Cost	$1,860.61	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,860.61	$
Fuel Cost Per Heating Degree Day	$310.00	$/hdd
Plant Average Steam Cost Per Degree Day	$1.14	$/klbs
Total Plant Efficiency By I/O	87.8	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	0.2	hrs
Steam Flow	0.00	0.00	271.57	0.00	klbs
Gas Flow	0.00	0.00	301.78	1.21	kscf
Natural Gas Cost	$0.00	$0.00	$1,853.19	$7.42	$
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	$1,853.19	$7.42	$
Average Steam Cost	---	---	$6.82	---	$/klbs
Efficiency By Losses	0.0	0.0	82.6	73.8	%
Efficiency By I/O			88.1		%

Central State Hospital

Heating Plant Day Operations Report

2/22/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	245.35	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	4.1	klbs
Total Plant Gas Flow	279.59	kscf
Total Plant Gas Cost	$1,716.88	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,716.88	$
Fuel Cost Per Heating Degree Day	—	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	85.9	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	0.6	hrs
Steam Flow	0.00	0.00	244.77	0.58	klbs
Gas Flow	0.00	0.00	275.20	4.39	kscf
Natural Gas Cost	$0.00	$0.00	$1,689.92	$26.96	$
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	$1,689.92	$26.96	$
Average Steam Cost	---	—	$6.90	$46.39	$/klbs
Efficiency By Losses	0.0	0.0	82.1	0.0	%
Efficiency By I/O			87.1	13.0	%

Central State Hospital

Heating Plant Day Operations Report

2/23/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	3.66	hdd
Total Plant Steam Flow	269.37	klbs
Steam Flow Per Heating Degree Day	73.5	klbs/hdd
Total Condensate Return Water Flow	4.1	klbs
Total Plant Gas Flow	303.66	kscf
Total Plant Gas Cost	$1,864.71	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,864.71	$
Fuel Cost Per Heating Degree Day	$508.80	$/hdd
Plant Average Steam Cost Per Degree Day	$1.89	$/klbs
Total Plant Efficiency By I/O	86.9	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	0.5	hrs
Steam Flow	0.00	0.00	268.47	0.91	klbs
Gas Flow	0.00	0.00	299.80	3.87	kscf
Natural Gas Cost	$0.00	$0.00	$1,840.97	$23.74	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$0.00	$1,840.97	$23.74	$
Average Steam Cost	---	---	$6.86	$26.19	$/klbs
Efficiency By Losses	0.0	0.0	82.7	0.0	%
Efficiency By I/O			87.7	23.0	%

Central State Hospital

Heating Plant Day Operations Report

2/24/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	18.93	hdd
Total Plant Steam Flow	296.49	klbs
Steam Flow Per Heating Degree Day	15.7	klbs/hdd
Total Condensate Return Water Flow	4.0	klbs
Total Plant Gas Flow	329.92	kscf
Total Plant Gas Cost	$2,025.98	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,025.98	$
Fuel Cost Per Heating Degree Day	$107.01	$/hdd
Plant Average Steam Cost Per Degree Day	$0.36	$/klbs
Total Plant Efficiency By I/O	88.0	%
Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	0.5	hrs
Steam Flow	0.00	0.00	294.94	1.55	klbs
Gas Flow	0.00	0.00	325.18	4.75	kscf
Natural Gas Cost	$0.00	$0.00	$1,996.83	$29.15	$
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	$1,996.83	$29.15	$
Average Steam Cost	---	---	$6.77	$18.76	$/klbs
Efficiency By Losses	0.0	0.0	82.7	0.0	%
Efficiency By I/O			88.8	32.1	%

Central State Hospital

Heating Plant Day Operations Report

2/25/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	5.94	hdd
Total Plant Steam Flow	248.49	klbs
Steam Flow Per Heating Degree Day	41.9	klbs/hdd
Total Condensate Return Water Flow	4.3	klbs
Total Plant Gas Flow	279.06	kscf
Total Plant Gas Cost	$1,713.65	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,713.65	$
Fuel Cost Per Heating Degree Day	$288.71	$/hdd
Plant Average Steam Cost Per Degree Day	$1.16	$/klbs
Total Plant Efficiency By I/O	87.2	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	248.49	0.00	klbs
Gas Flow	0.00	0.00	277.25	1.81	kscf
Natural Gas Cost	$0.00	$0.00	$1,702.55	$11.11	$
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	$1,702.55	$11.11	$
Average Steam Cost	—	---	$6.85	—	$/klbs
Efficiency By Losses	0.0	0.0	82.8	76.2	%
Efficiency By I/O			87.8		%

Central State Hospital

Heating Plant Day Operations Report

2/26/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	21.35	hdd
Total Plant Steam Flow	237.48	klbs
Steam Flow Per Heating Degree Day	11.1	klbs/hdd
Total Condensate Return Water Flow	4.5	klbs
Total Plant Gas Flow	273.16	kscf
Total Plant Gas Cost	$1,677.38	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,677.38	$
Fuel Cost Per Heating Degree Day	$78.57	$/hdd
Plant Average Steam Cost Per Degree Day	$0.33	$/klbs
Total Plant Efficiency By I/O	85.1	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	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	19.3	4.7	hrs
Steam Flow	0.00	0.00	194.46	43.02	klbs
Gas Flow	0.00	0.00	218.86	54.30	kscf
Natural Gas Cost	$0.00	$0.00	$1,343.95	$333.43	$
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	$1,343.95	$333.43	$
Average Steam Cost	---	—	$6.91	$7.75	$/klbs
Efficiency By Losses	0.0	0.0	82.5	81.6	%
Efficiency By I/O			87.0	77.6	%

Central State Hospital

Heating Plant Day Operations Report

2/27/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	17.02	hdd
Total Plant Steam Flow	290.22	klbs
Steam Flow Per Heating Degree Day	17.0	klbs/hdd
Total Condensate Return Water Flow	4.5	klbs
Total Plant Gas Flow	352.18	kscf
Total Plant Gas Cost	$2,162.62	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,162.62	$
Fuel Cost Per Heating Degree Day	$127.04	$/hdd
Plant Average Steam Cost Per Degree Day	$0.44	$/klbs
Total Plant Efficiency By I/O	80.7	%
Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	3.2	0.0	2.5	22.7	hrs
Steam Flow	6.22	0.00	7.84	276.16	klbs
Gas Flow	20.75	0.00	13.78	317.64	kscf
Natural Gas Cost	$127.44	$0.00	$84.62	$1,950.57	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$127.44	$0.00	$84.62	$1,950.57	$
Average Steam Cost	$20.48	---	$10.79	$7.06	$/klbs
Efficiency By Losses	0.0	0.0	0.0	81.9	%
Efficiency By I/O	29.4		55.7	85.1	%

Central State Hospital

Heating Plant Day Operations Report

2/28/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	20.52	hdd
Total Plant Steam Flow	289.55	klbs
Steam Flow Per Heating Degree Day	14.1	klbs/hdd
Total Condensate Return Water Flow	4.1	klbs
Total Plant Gas Flow	337.17	kscf
Total Plant Gas Cost	$2,070.49	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,070.49	$
Fuel Cost Per Heating Degree Day	$100.91	$/hdd
Plant Average Steam Cost Per Degree Day	$0.35	$/klbs
Total Plant Efficiency By I/O	84.1	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	0.0	hrs
Boiler Feed Pump #2 Run Time	8.7	hrs
Boiler Feed Pump #3 Run Time	14.8	hrs
Boiler Feed Pump #4 Run Time	0.0	hrs
Fuel Oil Pump #1 Run Time	0.0	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.9	0.0	0.9	23.5	hrs
Steam Flow	1.29	0.00	0.26	288.01	klbs
Gas Flow	6.25	0.00	4.39	326.53	kscf
Natural Gas Cost	$38.38	$0.00	$26.96	$2,005.15	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$38.38	$0.00	$26.96	$2,005.15	$
Average Steam Cost	$29.80	—	$103.97	$6.96	$/klbs
Efficiency By Losses	0.0	0.0	75.2	81.8	%
Efficiency By I/O	20.2		5.8	86.4	%