Central State Hospital

Heating Plant Day Operations Report

4/1/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	13.58	hdd
Total Plant Steam Flow	335.56	klbs
Steam Flow Per Heating Degree Day	24.7	klbs/hdd
Total Condensate Return Water Flow	9.7	klbs
Total Plant Gas Flow	370.42	kscf
Total Plant Gas Cost	$2,274.67	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,274.67	$
Fuel Cost Per Heating Degree Day	$167.46	$/hdd
Plant Average Steam Cost Per Degree Day	$0.50	$/klbs
Total Plant Efficiency By I/O	88.7	%

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	0.0	hrs
Fuel Oil Pump #2 Run Time	23.5	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.3	1.2	0.7	hrs
Steam Flow	335.55	0.01	0.00	0.00	klbs
Gas Flow	354.78	6.05	4.71	4.89	kscf
Natural Gas Cost	$2,178.63	$37.14	$28.90	$30.01	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$2,178.63	$37.14	$28.90	$30.01	$
Average Steam Cost	$6.49	$3,933.20	---	---	$/klbs
Efficiency By Losses	81.2	73.8	78.0	76.9	%
Efficiency By I/O	92.6				%

Central State Hospital

Heating Plant Day Operations Report

4/2/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	18.03	hdd
Total Plant Steam Flow	340.92	klbs
Steam Flow Per Heating Degree Day	18.9	klbs/hdd
Total Condensate Return Water Flow	9.6	klbs
Total Plant Gas Flow	372.20	kscf
Total Plant Gas Cost	$2,285.60	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,285.60	$
Fuel Cost Per Heating Degree Day	$126.77	$/hdd
Plant Average Steam Cost Per Degree Day	$0.37	$/klbs
Total Plant Efficiency By I/O	89.7	%
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	0.0	hrs
Fuel Oil Pump #2 Run Time	23.5	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.2	1.0	0.5	hrs
Steam Flow	340.92	0.00	0.00	0.00	klbs
Gas Flow	359.59	5.56	3.76	3.29	kscf
Natural Gas Cost	$2,208.18	$34.12	$23.12	$20.19	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$2,208.18	$34.12	$23.12	$20.19	$
Average Steam Cost	$6.48	---	---	---	$/klbs
Efficiency By Losses	81.2	73.7	79.5	79.8	%
Efficiency By I/O	92.8				%

Central State Hospital

Heating Plant Day Operations Report

4/3/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	12.79	hdd
Total Plant Steam Flow	321.57	klbs
Steam Flow Per Heating Degree Day	25.2	klbs/hdd
Total Condensate Return Water Flow	9.8	klbs
Total Plant Gas Flow	354.67	kscf
Total Plant Gas Cost	$2,177.96	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,177.96	$
Fuel Cost Per Heating Degree Day	$170.35	$/hdd
Plant Average Steam Cost Per Degree Day	$0.53	$/klbs
Total Plant Efficiency By I/O	88.8	%

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	0.0	hrs
Fuel Oil Pump #2 Run Time	23.5	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.2	1.0	0.5	hrs
Steam Flow	321.57	0.00	0.00	0.00	klbs
Gas Flow	342.47	5.37	3.71	3.12	kscf
Natural Gas Cost	$2,103.04	$32.99	$22.78	$19.15	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$2,103.04	$32.99	$22.78	$19.15	$
Average Steam Cost	$6.54	---	---	---	$/klbs
Efficiency By Losses	81.1	73.5	75.5	79.2	%
Efficiency By I/O	92.0				%

Central State Hospital

Heating Plant Day Operations Report

4/4/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	10.56	hdd
Total Plant Steam Flow	299.89	klbs
Steam Flow Per Heating Degree Day	28.4	klbs/hdd
Total Condensate Return Water Flow	9.8	klbs
Total Plant Gas Flow	335.07	kscf
Total Plant Gas Cost	$2,057.60	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,057.60	$
Fuel Cost Per Heating Degree Day	$194.81	$/hdd
Plant Average Steam Cost Per Degree Day	$0.65	$/klbs
Total Plant Efficiency By I/O	87.6	%

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	0.0	hrs
Fuel Oil Pump #2 Run Time	23.5	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.1	0.8	0.6	hrs
Steam Flow	299.89	0.00	0.00	0.00	klbs
Gas Flow	322.41	5.36	3.25	4.05	kscf
Natural Gas Cost	$1,979.86	$32.90	$19.96	$24.87	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,979.86	$32.90	$19.96	$24.87	$
Average Steam Cost	$6.60	---	---	---	$/klbs
Efficiency By Losses	81.1	73.0	78.2	79.2	%
Efficiency By I/O	91.1				%

Central State Hospital

Heating Plant Day Operations Report

4/5/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	12.29	hdd
Total Plant Steam Flow	292.55	klbs
Steam Flow Per Heating Degree Day	23.8	klbs/hdd
Total Condensate Return Water Flow	9.8	klbs
Total Plant Gas Flow	327.15	kscf
Total Plant Gas Cost	$2,008.94	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,008.94	$
Fuel Cost Per Heating Degree Day	$163.44	$/hdd
Plant Average Steam Cost Per Degree Day	$0.56	$/klbs
Total Plant Efficiency By I/O	87.6	%

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	0.0	hrs
Fuel Oil Pump #2 Run Time	23.5	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.2	1.0	0.6	hrs
Steam Flow	292.55	0.00	0.00	0.00	klbs
Gas Flow	313.65	5.40	4.05	4.05	kscf
Natural Gas Cost	$1,926.05	$33.13	$24.87	$24.89	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,926.05	$33.13	$24.87	$24.89	$
Average Steam Cost	$6.58	---	---	---	$/klbs
Efficiency By Losses	81.1	75.0	76.5	78.2	%
Efficiency By I/O	91.3				%

Central State Hospital

Heating Plant Day Operations Report

4/6/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	9.36	hdd
Total Plant Steam Flow	269.96	klbs
Steam Flow Per Heating Degree Day	28.9	klbs/hdd
Total Condensate Return Water Flow	9.9	klbs
Total Plant Gas Flow	303.92	kscf
Total Plant Gas Cost	$1,866.31	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,866.31	$
Fuel Cost Per Heating Degree Day	$199.48	$/hdd
Plant Average Steam Cost Per Degree Day	$0.74	$/klbs
Total Plant Efficiency By I/O	87.0	%

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	0.0	hrs
Fuel Oil Pump #2 Run Time	23.5	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.0	0.8	0.4	hrs
Steam Flow	269.96	0.00	0.00	0.00	klbs
Gas Flow	293.48	4.73	3.26	2.45	kscf
Natural Gas Cost	$1,802.22	$29.02	$20.03	$15.04	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,802.22	$29.02	$20.03	$15.04	$
Average Steam Cost	$6.68	---	---	---	$/klbs
Efficiency By Losses	81.1	75.4	75.4	79.8	%
Efficiency By I/O	90.1				%

Central State Hospital

Heating Plant Day Operations Report

4/7/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	2.34	hdd
Total Plant Steam Flow	279.59	klbs
Steam Flow Per Heating Degree Day	119.3	klbs/hdd
Total Condensate Return Water Flow	9.9	klbs
Total Plant Gas Flow	313.17	kscf
Total Plant Gas Cost	$1,923.08	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,923.08	$
Fuel Cost Per Heating Degree Day	$820.32	$/hdd
Plant Average Steam Cost Per Degree Day	$2.93	$/klbs
Total Plant Efficiency By I/O	87.4	%
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	0.0	hrs
Fuel Oil Pump #2 Run Time	23.5	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.1	0.9	0.5	hrs
Steam Flow	279.59	0.00	0.00	0.00	klbs
Gas Flow	301.48	5.06	3.43	3.20	kscf
Natural Gas Cost	$1,851.29	$31.10	$21.04	$19.65	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,851.29	$31.10	$21.04	$19.65	$
Average Steam Cost	$6.62	---	---	---	$/klbs
Efficiency By Losses	81.1	75.3	77.0	76.5	%
Efficiency By I/O	90.8				%

Central State Hospital

Heating Plant Day Operations Report

4/8/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	262.28	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	9.9	klbs
Total Plant Gas Flow	296.44	kscf
Total Plant Gas Cost	$1,820.34	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,820.34	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	86.6	%

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	0.0	hrs
Fuel Oil Pump #2 Run Time	23.5	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.0	0.8	0.5	hrs
Steam Flow	262.28	0.00	0.00	0.00	klbs
Gas Flow	285.63	4.60	3.07	3.14	kscf
Natural Gas Cost	$1,753.96	$28.27	$18.84	$19.26	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,753.96	$28.27	$18.84	$19.26	$
Average Steam Cost	$6.69	---	---	---	$/klbs
Efficiency By Losses	81.2	77.1	77.1	82.0	%
Efficiency By I/O	89.9				%

Central State Hospital

Heating Plant Day Operations Report

4/9/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	259.44	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	9.9	klbs
Total Plant Gas Flow	304.73	kscf
Total Plant Gas Cost	$1,871.24	$
Total Plant Oil Flow	12.4	gals
Total Plant Oil Cost	$47.94	$
Total Plant Fuel Cost	$1,919.19	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	82.9	%

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	0.0	hrs
Fuel Oil Pump #2 Run Time	6.7	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	17.1	7.4	1.0	0.5	hrs
Steam Flow	175.88	83.56	0.00	0.00	klbs
Gas Flow	193.87	103.48	3.77	3.61	kscf
Natural Gas Cost	$1,190.52	$635.44	$23.12	$22.16	$
Oil Flow	12.4	0.0	0.0	0.0	gals
Oil Cost	$47.94	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,238.46	$635.44	$23.12	$22.16	$
Average Steam Cost	$7.04	$7.60	---	---	$/klbs
Efficiency By Losses	81.2	76.1	76.7	81.7	%
Efficiency By I/O	88.1	79.1			%

Central State Hospital

Heating Plant Day Operations Report

4/10/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	1.19	hdd
Total Plant Steam Flow	267.60	klbs
Steam Flow Per Heating Degree Day	224.0	klbs/hdd
Total Condensate Return Water Flow	9.9	klbs
Total Plant Gas Flow	304.89	kscf
Total Plant Gas Cost	$1,872.28	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,872.28	$
Fuel Cost Per Heating Degree Day	$1,567.10	$/hdd
Plant Average Steam Cost Per Degree Day	$5.86	$/klbs
Total Plant Efficiency By I/O	86.0	%

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	0.0	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.1	1.1	0.6	hrs
Steam Flow	267.60	0.00	0.00	0.00	klbs
Gas Flow	291.49	5.14	4.17	4.09	kscf
Natural Gas Cost	$1,789.97	$31.56	$25.62	$25.13	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,789.97	$31.56	$25.62	$25.13	$
Average Steam Cost	$6.69	---	---	---	$/klbs
Efficiency By Losses	81.1	76.4	77.2	79.3	%
Efficiency By I/O	89.9				%

Central State Hospital

Heating Plant Day Operations Report

4/11/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	17.17	hdd
Total Plant Steam Flow	317.92	klbs
Steam Flow Per Heating Degree Day	18.5	klbs/hdd
Total Condensate Return Water Flow	9.8	klbs
Total Plant Gas Flow	353.57	kscf
Total Plant Gas Cost	$2,171.17	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,171.17	$
Fuel Cost Per Heating Degree Day	$126.49	$/hdd
Plant Average Steam Cost Per Degree Day	$0.40	$/klbs
Total Plant Efficiency By I/O	88.1	%

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	0.0	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.2	1.1	0.6	hrs
Steam Flow	317.92	0.00	0.00	0.00	klbs
Gas Flow	339.99	5.48	4.19	3.91	kscf
Natural Gas Cost	$2,087.81	$33.63	$25.75	$23.98	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$2,087.81	$33.63	$25.75	$23.98	$
Average Steam Cost	$6.57	---	---	---	$/klbs
Efficiency By Losses	81.1	72.1	78.1	81.3	%
Efficiency By I/O	91.6				%

Central State Hospital

Heating Plant Day Operations Report

4/12/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	14.93	hdd
Total Plant Steam Flow	288.91	klbs
Steam Flow Per Heating Degree Day	19.3	klbs/hdd
Total Condensate Return Water Flow	9.9	klbs
Total Plant Gas Flow	322.86	kscf
Total Plant Gas Cost	$1,982.62	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,982.62	$
Fuel Cost Per Heating Degree Day	$132.77	$/hdd
Plant Average Steam Cost Per Degree Day	$0.46	$/klbs
Total Plant Efficiency By I/O	87.6	%

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	0.0	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.1	0.9	0.5	hrs
Steam Flow	288.91	0.00	0.00	0.00	klbs
Gas Flow	311.51	4.87	3.40	3.08	kscf
Natural Gas Cost	$1,912.89	$29.93	$20.88	$18.91	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,912.89	$29.93	$20.88	$18.91	$
Average Steam Cost	$6.62	—	—	—	$/klbs
Efficiency By Losses	81.1	74.0	76.0	77.6	%
Efficiency By I/O	90.8				%

Central State Hospital

Heating Plant Day Operations Report

4/13/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	3.39	hdd
Total Plant Steam Flow	252.73	klbs
Steam Flow Per Heating Degree Day	74.6	klbs/hdd
Total Condensate Return Water Flow	10.0	klbs
Total Plant Gas Flow	287.62	kscf
Total Plant Gas Cost	$1,766.18	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,766.18	$
Fuel Cost Per Heating Degree Day	$521.10	$/hdd
Plant Average Steam Cost Per Degree Day	$2.06	$/klbs
Total Plant Efficiency By I/O	86.1	%
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	0.0	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.0	0.9	0.3	hrs
Steam Flow	252.73	0.00	0.00	0.00	klbs
Gas Flow	277.62	4.42	3.26	2.32	kscf
Natural Gas Cost	$1,704.78	$27.17	$20.01	$14.22	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,704.78	$27.17	$20.01	$14.22	$
Average Steam Cost	$6.75	---	---	---	$/klbs
Efficiency By Losses	81.2	74.0	77.7	77.5	%
Efficiency By I/O	89.2				%

Central State Hospital

Heating Plant Day Operations Report

4/14/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	265.08	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	9.9	klbs
Total Plant Gas Flow	297.33	kscf
Total Plant Gas Cost	$1,825.81	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,825.81	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	87.3	%

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	0.0	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.1	0.4	0.2	hrs
Steam Flow	265.08	0.00	0.00	0.00	klbs
Gas Flow	289.41	5.11	1.59	1.22	kscf
Natural Gas Cost	$1,777.17	$31.38	$9.78	$7.46	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,777.17	$31.38	$9.78	$7.46	$
Average Steam Cost	$6.70	---	---	---	$/klbs
Efficiency By Losses	81.1	74.0	0.0	0.0	%
Efficiency By I/O	89.7				%

Central State Hospital

Heating Plant Day Operations Report

4/15/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	7.22	hdd
Total Plant Steam Flow	293.53	klbs
Steam Flow Per Heating Degree Day	40.7	klbs/hdd
Total Condensate Return Water Flow	9.2	klbs
Total Plant Gas Flow	323.14	kscf
Total Plant Gas Cost	$1,984.33	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,984.33	$
Fuel Cost Per Heating Degree Day	$274.91	$/hdd
Plant Average Steam Cost Per Degree Day	$0.94	$/klbs
Total Plant Efficiency By I/O	89.0	%

Condensate Transfer Pump #1 Run Time	22.7	hrs
Condensate Transfer Pump #2 Run Time	22.7	hrs
Condensate Transfer Pump #3 Run Time	22.7	hrs
Boiler Feed Pump #1 Run Time	22.7	hrs
Boiler Feed Pump #2 Run Time	22.7	hrs
Boiler Feed Pump #3 Run Time	22.7	hrs
Boiler Feed Pump #4 Run Time	22.7	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	23.5	1.5	0.0	0.0	hrs
Steam Flow	293.50	0.03	0.00	0.00	klbs
Gas Flow	317.09	6.05	0.00	0.00	kscf
Natural Gas Cost	$1,947.19	$37.14	$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	$1,947.19	$37.14	$0.00	$0.00	$
Average Steam Cost	$6.63	$1,201.10	---	---	$/klbs
Efficiency By Losses	81.1	70.8	0.0	0.0	%
Efficiency By I/O	90.6				%

Central State Hospital

Heating Plant Day Operations Report

4/16/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	38.31	hdd
Total Plant Steam Flow	324.23	klbs
Steam Flow Per Heating Degree Day	8.5	klbs/hdd
Total Condensate Return Water Flow	7.8	klbs
Total Plant Gas Flow	355.19	kscf
Total Plant Gas Cost	$2,181.13	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,181.13	$
Fuel Cost Per Heating Degree Day	$56.94	$/hdd
Plant Average Steam Cost Per Degree Day	$0.18	$/klbs
Total Plant Efficiency By I/O	89.4	%

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	0.0	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.3	0.0	0.0	hrs
Steam Flow	323.50	0.73	0.00	0.00	klbs
Gas Flow	348.49	6.70	0.00	0.00	kscf
Natural Gas Cost	$2,140.00	$41.13	$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	$2,140.00	$41.13	$0.00	$0.00	$
Average Steam Cost	$6.62	$56.16	---	---	$/klbs
Efficiency By Losses	81.1	70.5	0.0	0.0	%
Efficiency By I/O	90.9	10.7			%

Central State Hospital

Heating Plant Day Operations Report

4/17/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	15.58	hdd
Total Plant Steam Flow	325.92	klbs
Steam Flow Per Heating Degree Day	20.9	klbs/hdd
Total Condensate Return Water Flow	9.5	klbs
Total Plant Gas Flow	359.84	kscf
Total Plant Gas Cost	$2,209.70	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,209.70	$
Fuel Cost Per Heating Degree Day	$141.84	$/hdd
Plant Average Steam Cost Per Degree Day	$0.44	$/klbs
Total Plant Efficiency By I/O	88.7	%

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	18.1	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	1.2	0.0	1.1	hrs
Steam Flow	325.49	0.00	0.00	0.43	klbs
Gas Flow	344.92	5.30	0.00	9.62	kscf
Natural Gas Cost	$2,118.08	$32.52	$0.00	$59.10	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$2,118.08	$32.52	$0.00	$59.10	$
Average Steam Cost	$6.51	---	---	$136.69	$/klbs
Efficiency By Losses	81.2	72.7	0.0	74.9	%
Efficiency By I/O	92.4			4.4	%

Central State Hospital

Heating Plant Day Operations Report

4/18/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	11.24	hdd
Total Plant Steam Flow	297.38	klbs
Steam Flow Per Heating Degree Day	26.5	klbs/hdd
Total Condensate Return Water Flow	10.1	klbs
Total Plant Gas Flow	325.80	kscf
Total Plant Gas Cost	$2,000.66	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,000.66	$
Fuel Cost Per Heating Degree Day	$178.04	$/hdd
Plant Average Steam Cost Per Degree Day	$0.60	$/klbs
Total Plant Efficiency By I/O	89.4	%
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	0.9	0.0	0.4	hrs
Steam Flow	297.38	0.00	0.00	0.00	klbs
Gas Flow	318.83	4.29	0.00	2.67	kscf
Natural Gas Cost	$1,957.88	$26.35	$0.00	$16.42	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,957.88	$26.35	$0.00	$16.42	$
Average Steam Cost	$6.58	---	---	$18,062.93	$/klbs
Efficiency By Losses	81.2	70.3	0.0	81.8	%
Efficiency By I/O	91.3				%

Central State Hospital

Heating Plant Day Operations Report

4/19/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	33.41	hdd
Total Plant Steam Flow	310.62	klbs
Steam Flow Per Heating Degree Day	9.3	klbs/hdd
Total Condensate Return Water Flow	9.8	klbs
Total Plant Gas Flow	339.88	kscf
Total Plant Gas Cost	$2,087.14	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,087.14	$
Fuel Cost Per Heating Degree Day	$62.48	$/hdd
Plant Average Steam Cost Per Degree Day	$0.20	$/klbs
Total Plant Efficiency By I/O	89.5	%

Condensate Transfer Pump #1 Run Time	23.4	hrs
Condensate Transfer Pump #2 Run Time	23.4	hrs
Condensate Transfer Pump #3 Run Time	23.4	hrs
Boiler Feed Pump #1 Run Time	23.4	hrs
Boiler Feed Pump #2 Run Time	23.4	hrs
Boiler Feed Pump #3 Run Time	23.4	hrs
Boiler Feed Pump #4 Run Time	23.4	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	1.3	0.0	0.8	hrs
Steam Flow	310.62	0.00	0.00	0.00	klbs
Gas Flow	328.43	6.04	0.00	5.42	kscf
Natural Gas Cost	$2,016.80	$37.08	$0.00	$33.25	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$2,016.80	$37.08	$0.00	$33.25	$
Average Steam Cost	$6.49	---	---	---	$/klbs
Efficiency By Losses	81.2	75.7	0.0	75.6	%
Efficiency By I/O	92.6				%

Central State Hospital

Heating Plant Day Operations Report

4/20/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	12.26	hdd
Total Plant Steam Flow	287.06	klbs
Steam Flow Per Heating Degree Day	23.4	klbs/hdd
Total Condensate Return Water Flow	9.9	klbs
Total Plant Gas Flow	313.19	kscf
Total Plant Gas Cost	$1,923.22	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,923.22	$
Fuel Cost Per Heating Degree Day	$156.83	$/hdd
Plant Average Steam Cost Per Degree Day	$0.55	$/klbs
Total Plant Efficiency By I/O	89.8	%

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	1.0	0.0	0.5	hrs
Steam Flow	287.06	0.00	0.00	0.00	klbs
Gas Flow	305.39	4.70	0.00	3.10	kscf
Natural Gas Cost	$1,875.32	$28.86	$0.00	$19.04	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,875.32	$28.86	$0.00	$19.04	$
Average Steam Cost	$6.53	---	---	---	$/klbs
Efficiency By Losses	81.2	73.7	0.0	77.5	%
Efficiency By I/O	92.1				%

Central State Hospital

Heating Plant Day Operations Report

4/21/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	9.44	hdd
Total Plant Steam Flow	316.01	klbs
Steam Flow Per Heating Degree Day	33.5	klbs/hdd
Total Condensate Return Water Flow	9.8	klbs
Total Plant Gas Flow	351.66	kscf
Total Plant Gas Cost	$2,159.47	$
Total Plant Oil Flow	0.1	gals
Total Plant Oil Cost	$0.21	$
Total Plant Fuel Cost	$2,159.68	$
Fuel Cost Per Heating Degree Day	$228.75	$/hdd
Plant Average Steam Cost Per Degree Day	$0.72	$/klbs
Total Plant Efficiency By I/O	88.0	%

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	22.0	1.3	0.0	2.0	hrs
Steam Flow	295.67	0.00	0.00	20.34	klbs
Gas Flow	313.49	5.89	0.00	32.28	kscf
Natural Gas Cost	$1,925.08	$36.19	$0.00	$198.20	$
Oil Flow	0.0	0.0	0.0	0.1	gals
Oil Cost	$0.00	$0.00	$0.00	$0.21	$
Total Fuel Cost	$1,925.08	$36.19	$0.00	$198.42	$
Average Steam Cost	$6.51	---	---	$9.75	$/klbs
Efficiency By Losses	81.2	74.2	0.0	80.3	%
Efficiency By I/O	92.4			61.7	%

Central State Hospital

Heating Plant Day Operations Report

4/22/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	273.88	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	10.1	klbs
Total Plant Gas Flow	52.38	kscf
Total Plant Gas Cost	$321.64	$
Total Plant Oil Flow	2,074.0	gals
Total Plant Oil Cost	$8,007.66	$
Total Plant Fuel Cost	$8,329.30	$
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	8.6	hrs
Condensate Transfer Pump #2 Run Time	8.6	hrs
Condensate Transfer Pump #3 Run Time	8.6	hrs
Boiler Feed Pump #1 Run Time	8.6	hrs
Boiler Feed Pump #2 Run Time	8.6	hrs
Boiler Feed Pump #3 Run Time	8.6	hrs
Boiler Feed Pump #4 Run Time	8.6	hrs
Fuel Oil Pump #1 Run Time	0.2	hrs
Fuel Oil Pump #2 Run Time	8.4	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	21.8	3.2	0.0	0.8	hrs
Steam Flow	248.19	24.55	0.00	1.14	klbs
Gas Flow	4.39	43.27	0.00	4.72	kscf
Natural Gas Cost	$26.93	$265.74	$0.00	$28.97	$
Oil Flow	2074.0	0.0	0.0	0.0	gals
Oil Cost	$8,007.66	$0.00	$0.00	$0.00	$
Total Fuel Cost	$8,034.59	$265.74	$0.00	$28.97	$
Average Steam Cost	$32.37	$10.83	---	$25.44	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O	83.7	55.5		23.6	%

Central State Hospital

Heating Plant Day Operations Report

4/23/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	268.58	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	10.1	klbs
Total Plant Gas Flow	0.00	kscf
Total Plant Gas Cost	$0.00	$
Total Plant Oil Flow	2,208.7	gals
Total Plant Oil Cost	$8,527.90	$
Total Plant Fuel Cost	$8,527.90	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	86.3	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	0.0	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	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	23.5	1.1	0.0	0.5	hrs
Steam Flow	268.58	0.00	0.00	0.00	klbs
Gas Flow	0.00	0.00	0.00	0.00	kscf
Natural Gas Cost	$0.00	$0.00	$0.00	$0.00	$
Oil Flow	2208.7	0.0	0.0	0.0	gals
Oil Cost	$8,527.90	$0.00	$0.00	$0.00	$
Total Fuel Cost	$8,527.90	$0.00	$0.00	$0.00	$
Average Steam Cost	$31.75	---	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O	86.3				%

Central State Hospital

Heating Plant Day Operations Report

4/24/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	268.57	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	10.1	klbs
Total Plant Gas Flow	0.00	kscf
Total Plant Gas Cost	$0.00	$
Total Plant Oil Flow	2,208.6	gals
Total Plant Oil Cost	$8,527.52	$
Total Plant Fuel Cost	$8,527.52	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	86.3	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	0.0	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	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	23.5	1.7	0.0	0.8	hrs
Steam Flow	268.57	0.00	0.00	0.00	klbs
Gas Flow	0.00	0.00	0.00	0.00	kscf
Natural Gas Cost	$0.00	$0.00	$0.00	$0.00	$
Oil Flow	2208.6	0.0	0.0	0.0	gals
Oil Cost	$8,527.52	$0.00	$0.00	$0.00	$
Total Fuel Cost	$8,527.52	$0.00	$0.00	$0.00	$
Average Steam Cost	$31.75	---	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O	86.3				%

Central State Hospital

Heating Plant Day Operations Report

4/25/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	268.61	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	10.1	klbs
Total Plant Gas Flow	0.00	kscf
Total Plant Gas Cost	$0.00	$
Total Plant Oil Flow	2,209.0	gals
Total Plant Oil Cost	$8,528.76	$
Total Plant Fuel Cost	$8,528.76	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	86.3	%

		Units
Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	0.0	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	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	23.5	1.0	0.0	0.5	hrs
Steam Flow	268.61	0.00	0.00	0.00	klbs
Gas Flow	0.00	0.00	0.00	0.00	kscf
Natural Gas Cost	$0.00	$0.00	$0.00	$0.00	$
Oil Flow	2209.0	0.0	0.0	0.0	gals
Oil Cost	$8,528.76	$0.00	$0.00	$0.00	$
Total Fuel Cost	$8,528.76	$0.00	$0.00	$0.00	$
Average Steam Cost	$31.75	---	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O	86.3				%

Central State Hospital

Heating Plant Day Operations Report

4/26/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	268.62	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	10.1	klbs
Total Plant Gas Flow	0.00	kscf
Total Plant Gas Cost	$0.00	$
Total Plant Oil Flow	2,209.0	gals
Total Plant Oil Cost	$8,529.04	$
Total Plant Fuel Cost	$8,529.04	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	86.3	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	0.0	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	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	23.5	1.3	0.0	0.5	hrs
Steam Flow	268.62	0.00	0.00	0.00	klbs
Gas Flow	0.00	0.00	0.00	0.00	kscf
Natural Gas Cost	$0.00	$0.00	$0.00	$0.00	$
Oil Flow	2209.0	0.0	0.0	0.0	gals
Oil Cost	$8,529.04	$0.00	$0.00	$0.00	$
Total Fuel Cost	$8,529.04	$0.00	$0.00	$0.00	$
Average Steam Cost	$31.75	---	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O	86.3				%

Central State Hospital

Heating Plant Day Operations Report

4/27/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	268.62	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	10.1	klbs
Total Plant Gas Flow	0.00	kscf
Total Plant Gas Cost	$0.00	$
Total Plant Oil Flow	2,209.1	gals
Total Plant Oil Cost	$8,529.16	$
Total Plant Fuel Cost	$8,529.16	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	86.3	%

Condensate Transfer Pump #1 Run Time	0.0				hrs
Condensate Transfer Pump #2 Run Time	0.0				hrs
Condensate Transfer Pump #3 Run Time	0.0				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	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	23.5	1.2	0.0	0.6	hrs
Steam Flow	268.62	0.00	0.00	0.00	klbs
Gas Flow	0.00	0.00	0.00	0.00	kscf
Natural Gas Cost	$0.00	$0.00	$0.00	$0.00	$
Oil Flow	2209.1	0.0	0.0	0.0	gals
Oil Cost	$8,529.16	$0.00	$0.00	$0.00	$
Total Fuel Cost	$8,529.16	$0.00	$0.00	$0.00	$
Average Steam Cost	$31.75	---	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O	86.3				%

Central State Hospital

Heating Plant Day Operations Report

4/28/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	268.30	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	10.1	klbs
Total Plant Gas Flow	0.00	kscf
Total Plant Gas Cost	$0.00	$
Total Plant Oil Flow	2,206.4	gals
Total Plant Oil Cost	$8,518.84	$
Total Plant Fuel Cost	$8,518.84	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	86.3	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	0.0	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	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	23.5	1.9	0.0	0.9	hrs
Steam Flow	268.30	0.00	0.00	0.00	klbs
Gas Flow	0.00	0.00	0.00	0.00	kscf
Natural Gas Cost	$0.00	$0.00	$0.00	$0.00	$
Oil Flow	2206.4	0.0	0.0	0.0	gals
Oil Cost	$8,518.84	$0.00	$0.00	$0.00	$
Total Fuel Cost	$8,518.84	$0.00	$0.00	$0.00	$
Average Steam Cost	$31.75	---	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O	86.3				%

Central State Hospital

Heating Plant Day Operations Report

4/29/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	268.52	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	10.1	klbs
Total Plant Gas Flow	0.00	kscf
Total Plant Gas Cost	$0.00	$
Total Plant Oil Flow	2,207.9	gals
Total Plant Oil Cost	$8,524.88	$
Total Plant Fuel Cost	$8,524.88	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	86.3	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	0.0	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	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	23.5	1.3	0.0	0.6	hrs
Steam Flow	268.52	0.00	0.00	0.00	klbs
Gas Flow	0.00	0.00	0.00	0.00	kscf
Natural Gas Cost	$0.00	$0.00	$0.00	$0.00	$
Oil Flow	2207.9	0.0	0.0	0.0	gals
Oil Cost	$8,524.88	$0.00	$0.00	$0.00	$
Total Fuel Cost	$8,524.88	$0.00	$0.00	$0.00	$
Average Steam Cost	$31.75	---	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O	86.3				%

Central State Hospital

Heating Plant Day Operations Report

4/30/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	268.51	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	10.1	klbs
Total Plant Gas Flow	0.00	kscf
Total Plant Gas Cost	$0.00	$
Total Plant Oil Flow	2,207.9	gals
Total Plant Oil Cost	$8,524.71	$
Total Plant Fuel Cost	$8,524.71	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	86.3	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	0.0	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	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	23.5	0.6	0.0	0.3	hrs
Steam Flow	268.51	0.00	0.00	0.00	klbs
Gas Flow	0.00	0.00	0.00	0.00	kscf
Natural Gas Cost	$0.00	$0.00	$0.00	$0.00	$
Oil Flow	2207.9	0.0	0.0	0.0	gals
Oil Cost	$8,524.71	$0.00	$0.00	$0.00	$
Total Fuel Cost	$8,524.71	$0.00	$0.00	$0.00	$
Average Steam Cost	$31.75	---	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O	86.3				%