Central State Hospital

Heating Plant Day Operations Report

1/1/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	43.90	hdd
Total Plant Steam Flow	419.75	klbs
Steam Flow Per Heating Degree Day	9.6	klbs/hdd
Total Condensate Return Water Flow	5.1	klbs
Total Plant Gas Flow	494.17	kscf
Total Plant Gas Cost	$3,034.55	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$3,034.55	$
Fuel Cost Per Heating Degree Day	$69.12	$/hdd
Plant Average Steam Cost Per Degree Day	$0.16	$/klbs
Total Plant Efficiency By I/O	83.2	%

Condensate Transfer Pump #1 Run Time	0.0	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	0.7	23.5	hrs
Steam Flow	0.00	0.00	0.00	419.75	klbs
Gas Flow	0.00	0.00	3.49	490.68	kscf
Natural Gas Cost	$0.00	$0.00	$21.43	$3,013.12	$
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	$21.43	$3,013.12	$
Average Steam Cost	---	---	---	$7.18	$/klbs
Efficiency By Losses	0.0	0.0	79.0	81.7	%
Efficiency By I/O				83.8	%

Central State Hospital

Heating Plant Day Operations Report

1/2/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	48.47	hdd
Total Plant Steam Flow	423.94	klbs
Steam Flow Per Heating Degree Day	8.7	klbs/hdd
Total Condensate Return Water Flow	5.4	klbs
Total Plant Gas Flow	499.46	kscf
Total Plant Gas Cost	$3,067.09	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$3,067.09	$
Fuel Cost Per Heating Degree Day	$63.28	$/hdd
Plant Average Steam Cost Per Degree Day	$0.15	$/klbs
Total Plant Efficiency By I/O	83.1	%

Condensate Transfer Pump #1 Run Time	0.0	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	0.7	23.5	hrs
Steam Flow	0.00	0.00	0.00	423.94	klbs
Gas Flow	0.00	0.00	3.67	495.79	kscf
Natural Gas Cost	$0.00	$0.00	$22.57	$3,044.52	$
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	$22.57	$3,044.52	$
Average Steam Cost	---	---	---	$7.18	$/klbs
Efficiency By Losses	0.0	0.0	70.1	81.7	%
Efficiency By I/O				83.7	%

Central State Hospital

Heating Plant Day Operations Report

1/3/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	49.18	hdd
Total Plant Steam Flow	420.77	klbs
Steam Flow Per Heating Degree Day	8.6	klbs/hdd
Total Condensate Return Water Flow	5.5	klbs
Total Plant Gas Flow	496.87	kscf
Total Plant Gas Cost	$3,051.17	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$3,051.17	$
Fuel Cost Per Heating Degree Day	$62.04	$/hdd
Plant Average Steam Cost Per Degree Day	$0.15	$/klbs
Total Plant Efficiency By I/O	82.9	%

Condensate Transfer Pump #1 Run Time	0.0	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	0.9	23.5	hrs
Steam Flow	0.00	0.00	1.32	419.45	klbs
Gas Flow	0.00	0.00	6.21	490.66	kscf
Natural Gas Cost	$0.00	$0.00	$38.13	$3,013.05	$
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	$38.13	$3,013.05	$
Average Steam Cost	—	---	$28.90	$7.18	$/klbs
Efficiency By Losses	0.0	0.0	79.8	81.7	%
Efficiency By I/O			20.8	83.7	%

Central State Hospital

Heating Plant Day Operations Report

1/4/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	46.27	hdd
Total Plant Steam Flow	444.11	klbs
Steam Flow Per Heating Degree Day	9.6	klbs/hdd
Total Condensate Return Water Flow	5.2	klbs
Total Plant Gas Flow	522.37	kscf
Total Plant Gas Cost	$3,207.74	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$3,207.74	$
Fuel Cost Per Heating Degree Day	$69.32	$/hdd
Plant Average Steam Cost Per Degree Day	$0.16	$/klbs
Total Plant Efficiency By I/O	83.3	%

Condensate Transfer Pump #1 Run Time	0.1	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	0.6	23.5	hrs
Steam Flow	0.00	0.00	0.00	444.11	klbs
Gas Flow	0.00	0.00	2.86	519.51	kscf
Natural Gas Cost	$0.00	$0.00	$17.57	$3,190.17	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$0.00	$17.57	$3,190.17	$
Average Steam Cost	---	---	---	$7.18	$/klbs
Efficiency By Losses	0.0	0.0	72.0	81.9	%
Efficiency By I/O				83.7	%

Central State Hospital

Heating Plant Day Operations Report

1/5/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	43.53	hdd
Total Plant Steam Flow	452.81	klbs
Steam Flow Per Heating Degree Day	10.4	klbs/hdd
Total Condensate Return Water Flow	5.2	klbs
Total Plant Gas Flow	533.94	kscf
Total Plant Gas Cost	$3,278.79	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$3,278.79	$
Fuel Cost Per Heating Degree Day	$75.32	$/hdd
Plant Average Steam Cost Per Degree Day	$0.17	$/klbs
Total Plant Efficiency By I/O	83.1	%

Condensate Transfer Pump #1 Run Time	0.0	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	1.6	23.5	hrs
Steam Flow	0.00	0.00	9.43	443.38	klbs
Gas Flow	0.00	0.00	15.85	518.09	kscf
Natural Gas Cost	$0.00	$0.00	$97.35	$3,181.44	$
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	$97.35	$3,181.44	$
Average Steam Cost	---	---	$10.33	$7.18	$/klbs
Efficiency By Losses	0.0	0.0	81.1	81.8	%
Efficiency By I/O			58.2	83.8	%

Central State Hospital

Heating Plant Day Operations Report

1/6/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	49.43	hdd
Total Plant Steam Flow	468.45	klbs
Steam Flow Per Heating Degree Day	9.5	klbs/hdd
Total Condensate Return Water Flow	4.6	klbs
Total Plant Gas Flow	534.81	kscf
Total Plant Gas Cost	$3,284.12	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$3,284.12	$
Fuel Cost Per Heating Degree Day	$66.44	$/hdd
Plant Average Steam Cost Per Degree Day	$0.14	$/klbs
Total Plant Efficiency By I/O	85.8	%

Condensate Transfer Pump #1 Run Time	0.0	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	0.7	23.5	hrs
Steam Flow	0.00	0.00	0.00	468.45	klbs
Gas Flow	0.00	0.00	3.60	531.20	kscf
Natural Gas Cost	$0.00	$0.00	$22.12	$3,262.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$0.00	$22.12	$3,262.00	$
Average Steam Cost	---	---	---	$6.96	$/klbs
Efficiency By Losses	0.0	0.0	74.8	81.9	%
Efficiency By I/O				86.4	%

Central State Hospital

Heating Plant Day Operations Report

1/7/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	54.17	hdd
Total Plant Steam Flow	475.35	klbs
Steam Flow Per Heating Degree Day	8.8	klbs/hdd
Total Condensate Return Water Flow	4.6	klbs
Total Plant Gas Flow	533.50	kscf
Total Plant Gas Cost	$3,276.11	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$3,276.11	$
Fuel Cost Per Heating Degree Day	$60.48	$/hdd
Plant Average Steam Cost Per Degree Day	$0.13	$/klbs
Total Plant Efficiency By I/O	87.3	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	0.8	23.5	hrs
Steam Flow	0.00	0.00	0.00	475.35	klbs
Gas Flow	0.00	0.00	3.91	529.59	kscf
Natural Gas Cost	$0.00	$0.00	$24.02	$3,252.09	$
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	$24.02	$3,252.09	$
Average Steam Cost	---	---	---	$6.84	$/klbs
Efficiency By Losses	0.0	0.0	73.3	82.0	%
Efficiency By I/O				87.9	%

Central State Hospital

Heating Plant Day Operations Report

1/8/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	55.86	hdd
Total Plant Steam Flow	477.12	klbs
Steam Flow Per Heating Degree Day	8.5	klbs/hdd
Total Condensate Return Water Flow	4.3	klbs
Total Plant Gas Flow	539.91	kscf
Total Plant Gas Cost	$3,315.46	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$3,315.46	$
Fuel Cost Per Heating Degree Day	$59.35	$/hdd
Plant Average Steam Cost Per Degree Day	$0.12	$/klbs
Total Plant Efficiency By I/O	86.5	%

Condensate Transfer Pump #1 Run Time	0.3	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	0.7	23.5	hrs
Steam Flow	0.00	0.00	0.00	477.12	klbs
Gas Flow	0.00	0.00	3.38	536.53	kscf
Natural Gas Cost	$0.00	$0.00	$20.77	$3,294.69	$
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	$20.77	$3,294.69	$
Average Steam Cost	---	---	---	$6.91	$/klbs
Efficiency By Losses	0.0	0.0	72.0	81.9	%
Efficiency By I/O				87.1	%

Central State Hospital

Heating Plant Day Operations Report

1/9/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	37.50	hdd
Total Plant Steam Flow	435.42	klbs
Steam Flow Per Heating Degree Day	11.6	klbs/hdd
Total Condensate Return Water Flow	4.3	klbs
Total Plant Gas Flow	488.71	kscf
Total Plant Gas Cost	$3,001.06	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$3,001.06	$
Fuel Cost Per Heating Degree Day	$80.04	$/hdd
Plant Average Steam Cost Per Degree Day	$0.18	$/klbs
Total Plant Efficiency By I/O	87.3	%

Condensate Transfer Pump #1 Run Time	0.9	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	0.5	23.5	hrs
Steam Flow	0.00	0.00	0.00	435.42	klbs
Gas Flow	0.00	0.00	2.64	486.07	kscf
Natural Gas Cost	$0.00	$0.00	$16.19	$2,984.86	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$0.00	$16.19	$2,984.86	$
Average Steam Cost	---	---	---	$6.86	$/klbs
Efficiency By Losses	0.0	0.0	77.3	82.1	%
Efficiency By I/O				87.7	%

Central State Hospital

Heating Plant Day Operations Report

1/10/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	23.92	hdd
Total Plant Steam Flow	383.42	klbs
Steam Flow Per Heating Degree Day	16.0	klbs/hdd
Total Condensate Return Water Flow	4.6	klbs
Total Plant Gas Flow	439.32	kscf
Total Plant Gas Cost	$2,697.73	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,697.73	$
Fuel Cost Per Heating Degree Day	$112.78	$/hdd
Plant Average Steam Cost Per Degree Day	$0.29	$/klbs
Total Plant Efficiency By I/O	85.5	%

Condensate Transfer Pump #1 Run Time	0.0	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	0.6	23.5	hrs
Steam Flow	0.00	0.00	0.00	383.42	klbs
Gas Flow	0.00	0.00	3.06	436.26	kscf
Natural Gas Cost	$0.00	$0.00	$18.79	$2,678.94	$
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	$18.79	$2,678.94	$
Average Steam Cost	—	—	—	$6.99	$/klbs
Efficiency By Losses	0.0	0.0	74.6	82.0	%
Efficiency By I/O				86.1	%

Central State Hospital

Heating Plant Day Operations Report

1/11/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	29.34	hdd
Total Plant Steam Flow	379.81	klbs
Steam Flow Per Heating Degree Day	12.9	klbs/hdd
Total Condensate Return Water Flow	5.1	klbs
Total Plant Gas Flow	431.86	kscf
Total Plant Gas Cost	$2,651.93	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,651.93	$
Fuel Cost Per Heating Degree Day	$90.40	$/hdd
Plant Average Steam Cost Per Degree Day	$0.24	$/klbs
Total Plant Efficiency By I/O	86.1	%

Condensate Transfer Pump #1 Run Time	0.0	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	0.5	23.5	hrs
Steam Flow	0.00	0.00	0.00	379.81	klbs
Gas Flow	0.00	0.00	2.38	429.48	kscf
Natural Gas Cost	$0.00	$0.00	$14.60	$2,637.33	$
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	$14.60	$2,637.33	$
Average Steam Cost	---	---	---	$6.94	$/klbs
Efficiency By Losses	0.0	0.0	76.5	81.9	%
Efficiency By I/O				86.6	%

Central State Hospital

Heating Plant Day Operations Report

1/12/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	15.76	hdd
Total Plant Steam Flow	297.77	klbs
Steam Flow Per Heating Degree Day	18.9	klbs/hdd
Total Condensate Return Water Flow	4.7	klbs
Total Plant Gas Flow	338.07	kscf
Total Plant Gas Cost	$2,076.01	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,076.01	$
Fuel Cost Per Heating Degree Day	$131.73	$/hdd
Plant Average Steam Cost Per Degree Day	$0.44	$/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	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	0.5	23.5	hrs
Steam Flow	0.00	0.00	0.00	297.77	klbs
Gas Flow	0.00	0.00	2.24	335.83	kscf
Natural Gas Cost	$0.00	$0.00	$13.75	$2,062.26	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$0.00	$13.75	$2,062.26	$
Average Steam Cost	---	---	---	$6.93	$/klbs
Efficiency By Losses	0.0	0.0	76.5	82.0	%
Efficiency By I/O				86.8	%

Central State Hospital

Heating Plant Day Operations Report

1/13/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	3.76	hdd
Total Plant Steam Flow	263.08	klbs
Steam Flow Per Heating Degree Day	70.0	klbs/hdd
Total Condensate Return Water Flow	4.6	klbs
Total Plant Gas Flow	310.43	kscf
Total Plant Gas Cost	$1,906.28	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,906.28	$
Fuel Cost Per Heating Degree Day	$507.00	$/hdd
Plant Average Steam Cost Per Degree Day	$1.93	$/klbs
Total Plant Efficiency By I/O	83.0	%

Condensate Transfer Pump #1 Run Time	0.0	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	21.5	23.5	hrs
Steam Flow	0.00	0.00	99.51	163.57	klbs
Gas Flow	0.00	0.00	118.89	191.54	kscf
Natural Gas Cost	$0.00	$0.00	$730.09	$1,176.19	$
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	$730.09	$1,176.19	$
Average Steam Cost	—	—	$7.34	$7.19	$/klbs
Efficiency By Losses	0.0	0.0	82.8	81.6	%
Efficiency By I/O			82.0	83.6	%

Central State Hospital

Heating Plant Day Operations Report

1/14/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	25.85	hdd
Total Plant Steam Flow	362.27	klbs
Steam Flow Per Heating Degree Day	14.0	klbs/hdd
Total Condensate Return Water Flow	4.9	klbs
Total Plant Gas Flow	420.39	kscf
Total Plant Gas Cost	$2,581.49	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,581.49	$
Fuel Cost Per Heating Degree Day	$99.87	$/hdd
Plant Average Steam Cost Per Degree Day	$0.28	$/klbs
Total Plant Efficiency By I/O	84.4	%
Condensate Transfer Pump #1 Run Time	0.0	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	23.5	hrs
Steam Flow	0.00	0.00	111.92	250.35	klbs
Gas Flow	0.00	0.00	133.64	286.75	kscf
Natural Gas Cost	$0.00	$0.00	$820.63	$1,760.85	$
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	$820.63	$1,760.85	$
Average Steam Cost	---	---	$7.33	$7.03	$/klbs
Efficiency By Losses	0.0	0.0	82.5	81.8	%
Efficiency By I/O			82.0	85.5	%

Central State Hospital

Heating Plant Day Operations Report

1/15/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	43.55	hdd
Total Plant Steam Flow	428.11	klbs
Steam Flow Per Heating Degree Day	9.8	klbs/hdd
Total Condensate Return Water Flow	4.2	klbs
Total Plant Gas Flow	469.09	kscf
Total Plant Gas Cost	$2,880.58	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,880.58	$
Fuel Cost Per Heating Degree Day	$66.15	$/hdd
Plant Average Steam Cost Per Degree Day	$0.15	$/klbs
Total Plant Efficiency By I/O	89.4	%

Condensate Transfer Pump #1 Run Time	1.3	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	0.4	23.5	hrs
Steam Flow	0.00	0.00	0.00	428.11	klbs
Gas Flow	0.00	0.00	2.27	466.83	kscf
Natural Gas Cost	$0.00	$0.00	$13.91	$2,866.66	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$0.00	$13.91	$2,866.66	$
Average Steam Cost	—	—	—	$6.70	$/klbs
Efficiency By Losses	0.0	0.0	74.1	82.0	%
Efficiency By I/O				89.8	%

Central State Hospital

Heating Plant Day Operations Report

1/16/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	122.84	hdd
Total Plant Steam Flow	410.67	klbs
Steam Flow Per Heating Degree Day	3.3	klbs/hdd
Total Condensate Return Water Flow	6.6	klbs
Total Plant Gas Flow	463.48	kscf
Total Plant Gas Cost	$2,846.14	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,846.14	$
Fuel Cost Per Heating Degree Day	$23.17	$/hdd
Plant Average Steam Cost Per Degree Day	$0.06	$/klbs
Total Plant Efficiency By I/O	86.8	%

Condensate Transfer Pump #1 Run Time	0.4	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	0.6	23.5	hrs
Steam Flow	0.00	0.00	0.00	410.67	klbs
Gas Flow	0.00	0.00	3.09	460.39	kscf
Natural Gas Cost	$0.00	$0.00	$18.98	$2,827.16	$
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	$18.98	$2,827.16	$
Average Steam Cost	---	---	---	$6.88	$/klbs
Efficiency By Losses	0.0	0.0	73.4	81.8	%
Efficiency By I/O				87.4	%

Central State Hospital

Heating Plant Day Operations Report

1/17/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	32.11	hdd
Total Plant Steam Flow	398.81	klbs
Steam Flow Per Heating Degree Day	12.4	klbs/hdd
Total Condensate Return Water Flow	6.6	klbs
Total Plant Gas Flow	462.44	kscf
Total Plant Gas Cost	$2,839.71	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,839.71	$
Fuel Cost Per Heating Degree Day	$88.44	$/hdd
Plant Average Steam Cost Per Degree Day	$0.22	$/klbs
Total Plant Efficiency By I/O	84.5	%

Condensate Transfer Pump #1 Run Time	0.8	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	0.6	23.5	hrs
Steam Flow	0.00	0.00	0.00	398.81	klbs
Gas Flow	0.00	0.00	2.81	459.63	kscf
Natural Gas Cost	$0.00	$0.00	$17.27	$2,822.44	$
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	$17.27	$2,822.44	$
Average Steam Cost	—	---	---	$7.08	$/klbs
Efficiency By Losses	0.0	0.0	75.7	81.9	%
Efficiency By I/O				85.0	%

Central State Hospital

Heating Plant Day Operations Report

1/18/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	38.99	hdd
Total Plant Steam Flow	438.45	klbs
Steam Flow Per Heating Degree Day	11.2	klbs/hdd
Total Condensate Return Water Flow	5.0	klbs
Total Plant Gas Flow	503.44	kscf
Total Plant Gas Cost	$3,091.52	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$3,091.52	$
Fuel Cost Per Heating Degree Day	$79.29	$/hdd
Plant Average Steam Cost Per Degree Day	$0.18	$/klbs
Total Plant Efficiency By I/O	85.3	%

Condensate Transfer Pump #1 Run Time	22.2	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	1.3	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	0.8	23.5	hrs
Steam Flow	0.00	0.00	0.00	438.45	klbs
Gas Flow	0.00	0.00	4.02	499.43	kscf
Natural Gas Cost	$0.00	$0.00	$24.67	$3,066.85	$
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	$24.67	$3,066.85	$
Average Steam Cost	---	---	---	$6.99	$/klbs
Efficiency By Losses	0.0	0.0	76.8	81.8	%
Efficiency By I/O				86.0	%

Central State Hospital

Heating Plant Day Operations Report

1/19/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	47.69	hdd
Total Plant Steam Flow	411.97	klbs
Steam Flow Per Heating Degree Day	8.6	klbs/hdd
Total Condensate Return Water Flow	4.8	klbs
Total Plant Gas Flow	475.29	kscf
Total Plant Gas Cost	$2,918.66	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,918.66	$
Fuel Cost Per Heating Degree Day	$61.20	$/hdd
Plant Average Steam Cost Per Degree Day	$0.15	$/klbs
Total Plant Efficiency By I/O	84.9	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	9.1	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	0.6	23.5	hrs
Steam Flow	0.00	0.00	0.00	411.97	klbs
Gas Flow	0.00	0.00	3.02	472.27	kscf
Natural Gas Cost	$0.00	$0.00	$18.55	$2,900.11	$
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	$18.55	$2,900.11	$
Average Steam Cost	---	---	---	$7.04	$/klbs
Efficiency By Losses	0.0	0.0	74.8	81.8	%
Efficiency By I/O				85.4	%

Central State Hospital

Heating Plant Day Operations Report

1/20/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	79.47	hdd
Total Plant Steam Flow	368.57	klbs
Steam Flow Per Heating Degree Day	4.6	klbs/hdd
Total Condensate Return Water Flow	4.6	klbs
Total Plant Gas Flow	418.50	kscf
Total Plant Gas Cost	$2,569.92	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.09	$
Total Plant Fuel Cost	$2,570.01	$
Fuel Cost Per Heating Degree Day	$32.34	$/hdd
Plant Average Steam Cost Per Degree Day	$0.09	$/klbs
Total Plant Efficiency By I/O	86.2	%
Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	13.3	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	368.57	klbs
Gas Flow	0.00	0.00	2.71	415.80	kscf
Natural Gas Cost	$0.00	$0.00	$16.62	$2,553.30	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.09	$0.00	$
Total Fuel Cost	$0.00	$0.00	$16.71	$2,553.30	$
Average Steam Cost	---	---	---	$6.93	$/klbs
Efficiency By Losses	0.0	0.0	80.0	82.1	%
Efficiency By I/O				86.8	%

Central State Hospital

Heating Plant Day Operations Report

1/21/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	23.17	hdd
Total Plant Steam Flow	324.06	klbs
Steam Flow Per Heating Degree Day	14.0	klbs/hdd
Total Condensate Return Water Flow	4.6	klbs
Total Plant Gas Flow	362.16	kscf
Total Plant Gas Cost	$2,223.91	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,223.91	$
Fuel Cost Per Heating Degree Day	$95.98	$/hdd
Plant Average Steam Cost Per Degree Day	$0.30	$/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	12.9	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	324.06	klbs
Gas Flow	0.00	0.00	2.70	359.46	kscf
Natural Gas Cost	$0.00	$0.00	$16.55	$2,207.36	$
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	$16.55	$2,207.36	$
Average Steam Cost	—	---	—	$6.81	$/klbs
Efficiency By Losses	0.0	0.0	78.0	82.1	%
Efficiency By I/O				88.3	%

Central State Hospital

Heating Plant Day Operations Report

1/22/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	19.49	hdd
Total Plant Steam Flow	295.73	klbs
Steam Flow Per Heating Degree Day	15.2	klbs/hdd
Total Condensate Return Water Flow	4.1	klbs
Total Plant Gas Flow	332.70	kscf
Total Plant Gas Cost	$2,043.03	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,043.03	$
Fuel Cost Per Heating Degree Day	$104.81	$/hdd
Plant Average Steam Cost Per Degree Day	$0.35	$/klbs
Total Plant Efficiency By I/O	87.0	%
Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	0.4	23.5	hrs
Steam Flow	0.00	0.00	0.00	295.73	klbs
Gas Flow	0.00	0.00	2.22	330.48	kscf
Natural Gas Cost	$0.00	$0.00	$13.65	$2,029.39	$
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	$13.65	$2,029.39	$
Average Steam Cost	---	---	---	$6.86	$/klbs
Efficiency By Losses	0.0	0.0	74.5	82.1	%
Efficiency By I/O				87.6	%

Central State Hospital

Heating Plant Day Operations Report

1/23/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	11.54	hdd
Total Plant Steam Flow	295.41	klbs
Steam Flow Per Heating Degree Day	25.6	klbs/hdd
Total Condensate Return Water Flow	6.0	klbs
Total Plant Gas Flow	333.09	kscf
Total Plant Gas Cost	$2,045.45	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,045.45	$
Fuel Cost Per Heating Degree Day	$177.24	$/hdd
Plant Average Steam Cost Per Degree Day	$0.60	$/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	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	0.5	23.5	hrs
Steam Flow	0.00	0.00	0.00	295.41	klbs
Gas Flow	0.00	0.00	2.23	330.86	kscf
Natural Gas Cost	$0.00	$0.00	$13.71	$2,031.75	$
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	$13.71	$2,031.75	$
Average Steam Cost	---	---	---	$6.88	$/klbs
Efficiency By Losses	0.0	0.0	77.8	82.0	%
Efficiency By I/O				87.4	%

Central State Hospital

Heating Plant Day Operations Report

1/24/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	9.67	hdd
Total Plant Steam Flow	296.08	klbs
Steam Flow Per Heating Degree Day	30.6	klbs/hdd
Total Condensate Return Water Flow	5.5	klbs
Total Plant Gas Flow	335.38	kscf
Total Plant Gas Cost	$2,059.47	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,059.47	$
Fuel Cost Per Heating Degree Day	$212.99	$/hdd
Plant Average Steam Cost Per Degree Day	$0.72	$/klbs
Total Plant Efficiency By I/O	86.5	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	12.8	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	0.5	23.5	hrs
Steam Flow	0.00	0.00	0.00	296.08	klbs
Gas Flow	0.00	0.00	2.31	333.07	kscf
Natural Gas Cost	$0.00	$0.00	$14.19	$2,045.28	$
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	$14.19	$2,045.28	$
Average Steam Cost	---	---	---	$6.91	$/klbs
Efficiency By Losses	0.0	0.0	77.1	82.1	%
Efficiency By I/O				87.1	%

Central State Hospital

Heating Plant Day Operations Report

1/25/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	23.40	hdd
Total Plant Steam Flow	332.30	klbs
Steam Flow Per Heating Degree Day	14.2	klbs/hdd
Total Condensate Return Water Flow	5.2	klbs
Total Plant Gas Flow	370.59	kscf
Total Plant Gas Cost	$2,275.69	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,275.69	$
Fuel Cost Per Heating Degree Day	$97.26	$/hdd
Plant Average Steam Cost Per Degree Day	$0.29	$/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	12.9	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	332.30	klbs
Gas Flow	0.00	0.00	2.70	367.89	kscf
Natural Gas Cost	$0.00	$0.00	$16.60	$2,259.09	$
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	$16.60	$2,259.09	$
Average Steam Cost	---	---	---	$6.80	$/klbs
Efficiency By Losses	0.0	0.0	69.8	82.1	%
Efficiency By I/O				88.5	%

Central State Hospital

Heating Plant Day Operations Report

1/26/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	30.20	hdd
Total Plant Steam Flow	365.33	klbs
Steam Flow Per Heating Degree Day	12.1	klbs/hdd
Total Condensate Return Water Flow	4.8	klbs
Total Plant Gas Flow	399.58	kscf
Total Plant Gas Cost	$2,453.70	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,453.70	$
Fuel Cost Per Heating Degree Day	$81.25	$/hdd
Plant Average Steam Cost Per Degree Day	$0.22	$/klbs
Total Plant Efficiency By I/O	89.5	%
Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	12.5	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	0.6	23.5	hrs
Steam Flow	0.00	0.00	0.00	365.33	klbs
Gas Flow	0.00	0.00	2.73	396.84	kscf
Natural Gas Cost	$0.00	$0.00	$16.78	$2,436.92	$
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	$16.78	$2,436.92	$
Average Steam Cost	---	---	---	$6.67	$/klbs
Efficiency By Losses	0.0	0.0	75.7	82.0	%
Efficiency By I/O				90.2	%

Central State Hospital

Heating Plant Day Operations Report

1/27/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	26.94	hdd
Total Plant Steam Flow	349.69	klbs
Steam Flow Per Heating Degree Day	13.0	klbs/hdd
Total Condensate Return Water Flow	4.5	klbs
Total Plant Gas Flow	385.07	kscf
Total Plant Gas Cost	$2,364.63	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,364.63	$
Fuel Cost Per Heating Degree Day	$87.77	$/hdd
Plant Average Steam Cost Per Degree Day	$0.25	$/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	12.9	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	349.69	klbs
Gas Flow	0.00	0.00	2.55	382.52	kscf
Natural Gas Cost	$0.00	$0.00	$15.67	$2,348.96	$
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	$15.67	$2,348.96	$
Average Steam Cost	---	---	---	$6.72	$/klbs
Efficiency By Losses	0.0	0.0	74.1	82.0	%
Efficiency By I/O				89.5	%

Central State Hospital

Heating Plant Day Operations Report

1/28/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	18.98	hdd
Total Plant Steam Flow	292.60	klbs
Steam Flow Per Heating Degree Day	15.4	klbs/hdd
Total Condensate Return Water Flow	4.4	klbs
Total Plant Gas Flow	327.58	kscf
Total Plant Gas Cost	$2,011.58	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,011.58	$
Fuel Cost Per Heating Degree Day	$105.99	$/hdd
Plant Average Steam Cost Per Degree Day	$0.36	$/klbs
Total Plant Efficiency By I/O	87.5	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	12.6	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	0.4	23.5	hrs
Steam Flow	0.00	0.00	0.00	292.60	klbs
Gas Flow	0.00	0.00	1.92	325.66	kscf
Natural Gas Cost	$0.00	$0.00	$11.78	$1,999.81	$
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	$11.78	$1,999.81	$
Average Steam Cost	---	---	---	$6.83	$/klbs
Efficiency By Losses	0.0	0.0	76.6	82.0	%
Efficiency By I/O				88.0	%

Central State Hospital

Heating Plant Day Operations Report

1/29/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	13.11	hdd
Total Plant Steam Flow	300.76	klbs
Steam Flow Per Heating Degree Day	22.9	klbs/hdd
Total Condensate Return Water Flow	4.3	klbs
Total Plant Gas Flow	334.46	kscf
Total Plant Gas Cost	$2,053.85	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,053.85	$
Fuel Cost Per Heating Degree Day	$156.68	$/hdd
Plant Average Steam Cost Per Degree Day	$0.52	$/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	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	0.5	23.5	hrs
Steam Flow	0.00	0.00	0.00	300.76	klbs
Gas Flow	0.00	0.00	2.25	332.22	kscf
Natural Gas Cost	$0.00	$0.00	$13.80	$2,040.05	$
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	$13.80	$2,040.05	$
Average Steam Cost	---	---	---	$6.78	$/klbs
Efficiency By Losses	0.0	0.0	73.2	82.2	%
Efficiency By I/O				88.7	%

Central State Hospital

Heating Plant Day Operations Report

1/30/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	24.33	hdd
Total Plant Steam Flow	389.76	klbs
Steam Flow Per Heating Degree Day	16.0	klbs/hdd
Total Condensate Return Water Flow	4.8	klbs
Total Plant Gas Flow	421.97	kscf
Total Plant Gas Cost	$2,591.22	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,591.22	$
Fuel Cost Per Heating Degree Day	$106.51	$/hdd
Plant Average Steam Cost Per Degree Day	$0.27	$/klbs
Total Plant Efficiency By I/O	90.5	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	12.8	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	389.76	klbs
Gas Flow	0.00	0.00	3.17	418.80	kscf
Natural Gas Cost	$0.00	$0.00	$19.45	$2,571.77	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$0.00	$19.45	$2,571.77	$
Average Steam Cost	---	---	---	$6.60	$/klbs
Efficiency By Losses	0.0	0.0	73.8	82.1	%
Efficiency By I/O				91.1	%

Central State Hospital

Heating Plant Day Operations Report

1/31/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	211.72	hdd
Total Plant Steam Flow	422.54	klbs
Steam Flow Per Heating Degree Day	2.0	klbs/hdd
Total Condensate Return Water Flow	4.6	klbs
Total Plant Gas Flow	454.44	kscf
Total Plant Gas Cost	$2,790.62	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,790.62	$
Fuel Cost Per Heating Degree Day	$13.18	$/hdd
Plant Average Steam Cost Per Degree Day	$0.03	$/klbs
Total Plant Efficiency By I/O	91.1	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	12.7	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	0.6	23.5	hrs
Steam Flow	0.00	0.00	0.00	422.54	klbs
Gas Flow	0.00	0.00	3.12	451.32	kscf
Natural Gas Cost	$0.00	$0.00	$19.17	$2,771.45	$
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	$19.17	$2,771.45	$
Average Steam Cost	—	---	—	$6.56	$/klbs
Efficiency By Losses	0.0	0.0	73.1	82.0	%
Efficiency By I/O				91.7	%