Central State Hospital

Heating Plant Day Operations Report

10/1/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	3.14	hdd
Total Plant Steam Flow	208.08	klbs
Steam Flow Per Heating Degree Day	66.2	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	240.34	kscf
Total Plant Gas Cost	$1,475.85	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.02	$
Total Plant Fuel Cost	$1,475.87	$
Fuel Cost Per Heating Degree Day	$469.67	$/hdd
Plant Average Steam Cost Per Degree Day	$2.26	$/klbs
Total Plant Efficiency By I/O	84.8	%

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	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	0.9	23.5	0.7	0.5	hrs
Steam Flow	0.00	208.08	0.00	0.00	klbs
Gas Flow	3.67	231.27	2.19	3.21	kscf
Natural Gas Cost	$22.51	$1,420.19	$13.42	$19.73	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.02	$0.00	$0.00	$
Total Fuel Cost	$22.51	$1,420.21	$13.42	$19.73	$
Average Steam Cost	---	$6.83	---	---	$/klbs
Efficiency By Losses	78.8	80.0	72.0	75.2	%
Efficiency By I/O		88.1			%

Central State Hospital

Heating Plant Day Operations Report

10/2/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	195.31	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	226.08	kscf
Total Plant Gas Cost	$1,388.27	$
Total Plant Oil Flow	0.4	gals
Total Plant Oil Cost	$1.66	$
Total Plant Fuel Cost	$1,389.93	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	84.6	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	0.7	23.5	0.7	0.4	hrs
Steam Flow	0.00	195.31	0.00	0.00	klbs
Gas Flow	3.04	217.97	2.29	2.77	kscf
Natural Gas Cost	$18.64	$1,338.51	$14.09	$17.04	$
Oil Flow	0.0	0.4	0.0	0.0	gals
Oil Cost	$0.00	$1.66	$0.00	$0.00	$
Total Fuel Cost	$18.64	$1,340.17	$14.09	$17.04	$
Average Steam Cost	---	$6.86	---	---	$/klbs
Efficiency By Losses	78.5	80.0	69.8	76.1	%
Efficiency By I/O		87.7			%

Central State Hospital

Heating Plant Day Operations Report

10/3/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	5.67	hdd
Total Plant Steam Flow	203.33	klbs
Steam Flow Per Heating Degree Day	35.9	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	237.14	kscf
Total Plant Gas Cost	$1,456.23	$
Total Plant Oil Flow	1.1	gals
Total Plant Oil Cost	$4.20	$
Total Plant Fuel Cost	$1,460.43	$
Fuel Cost Per Heating Degree Day	$257.59	$/hdd
Plant Average Steam Cost Per Degree Day	$1.27	$/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	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	0.9	23.5	0.8	0.5	hrs
Steam Flow	0.00	203.33	0.00	0.00	klbs
Gas Flow	3.68	227.40	2.59	3.47	kscf
Natural Gas Cost	$22.61	$1,396.42	$15.89	$21.31	$
Oil Flow	0.0	1.1	0.0	0.0	gals
Oil Cost	$0.00	$4.20	$0.00	$0.00	$
Total Fuel Cost	$22.61	$1,400.62	$15.89	$21.31	$
Average Steam Cost	---	$6.89	---	---	$/klbs
Efficiency By Losses	77.0	80.0	73.3	75.5	%
Efficiency By I/O		87.5			%

Central State Hospital

Heating Plant Day Operations Report

10/4/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	7.79	hdd
Total Plant Steam Flow	195.88	klbs
Steam Flow Per Heating Degree Day	25.2	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	230.74	kscf
Total Plant Gas Cost	$1,416.94	$
Total Plant Oil Flow	1.6	gals
Total Plant Oil Cost	$6.01	$
Total Plant Fuel Cost	$1,422.95	$
Fuel Cost Per Heating Degree Day	$182.71	$/hdd
Plant Average Steam Cost Per Degree Day	$0.93	$/klbs
Total Plant Efficiency By I/O	83.1	%

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	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	0.9	23.5	0.8	0.6	hrs
Steam Flow	0.00	195.88	0.00	0.00	klbs
Gas Flow	3.96	220.55	2.59	3.63	kscf
Natural Gas Cost	$24.34	$1,354.35	$15.93	$22.32	$
Oil Flow	0.0	1.6	0.0	0.0	gals
Oil Cost	$0.00	$6.01	$0.00	$0.00	$
Total Fuel Cost	$24.34	$1,360.36	$15.93	$22.32	$
Average Steam Cost	---	$6.95	---	---	$/klbs
Efficiency By Losses	77.3	79.9	67.4	79.1	%
Efficiency By I/O		86.9			%

Central State Hospital

Heating Plant Day Operations Report

10/5/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	9.20	hdd
Total Plant Steam Flow	194.43	klbs
Steam Flow Per Heating Degree Day	21.1	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	228.67	kscf
Total Plant Gas Cost	$1,404.18	$
Total Plant Oil Flow	3.1	gals
Total Plant Oil Cost	$12.16	$
Total Plant Fuel Cost	$1,416.34	$
Fuel Cost Per Heating Degree Day	$153.89	$/hdd
Plant Average Steam Cost Per Degree Day	$0.79	$/klbs
Total Plant Efficiency By I/O	83.1	%

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	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	0.9	23.5	0.8	0.4	hrs
Steam Flow	0.00	194.43	0.00	0.00	klbs
Gas Flow	3.83	219.30	2.64	2.89	kscf
Natural Gas Cost	$23.50	$1,346.70	$16.23	$17.75	$
Oil Flow	0.0	3.1	0.0	0.0	gals
Oil Cost	$0.00	$12.16	$0.00	$0.00	$
Total Fuel Cost	$23.50	$1,358.86	$16.23	$17.75	$
Average Steam Cost	---	$6.99	---	---	$/klbs
Efficiency By Losses	79.7	79.9	72.9	77.0	%
Efficiency By I/O		86.7			%

Central State Hospital

Heating Plant Day Operations Report

10/6/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	6.57	hdd
Total Plant Steam Flow	206.67	klbs
Steam Flow Per Heating Degree Day	31.4	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	244.65	kscf
Total Plant Gas Cost	$1,502.33	$
Total Plant Oil Flow	2.1	gals
Total Plant Oil Cost	$8.13	$
Total Plant Fuel Cost	$1,510.46	$
Fuel Cost Per Heating Degree Day	$229.83	$/hdd
Plant Average Steam Cost Per Degree Day	$1.11	$/klbs
Total Plant Efficiency By I/O	82.6	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	0.9	23.5	0.9	0.5	hrs
Steam Flow	0.00	206.67	0.00	0.00	klbs
Gas Flow	3.77	234.42	2.95	3.51	kscf
Natural Gas Cost	$23.13	$1,439.50	$18.12	$21.58	$
Oil Flow	0.0	2.1	0.0	0.0	gals
Oil Cost	$0.00	$8.13	$0.00	$0.00	$
Total Fuel Cost	$23.13	$1,447.63	$18.12	$21.58	$
Average Steam Cost	---	$7.00	---	---	$/klbs
Efficiency By Losses	78.2	79.9	73.0	79.7	%
Efficiency By I/O		86.2			%

Central State Hospital

Heating Plant Day Operations Report

10/7/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	5.30	hdd
Total Plant Steam Flow	194.64	klbs
Steam Flow Per Heating Degree Day	36.7	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	228.44	kscf
Total Plant Gas Cost	$1,402.77	$
Total Plant Oil Flow	3.6	gals
Total Plant Oil Cost	$13.94	$
Total Plant Fuel Cost	$1,416.71	$
Fuel Cost Per Heating Degree Day	$267.35	$/hdd
Plant Average Steam Cost Per Degree Day	$1.37	$/klbs
Total Plant Efficiency By I/O	83.3	%

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	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	0.8	23.5	0.7	0.4	hrs
Steam Flow	0.00	194.64	0.00	0.00	klbs
Gas Flow	3.51	219.87	2.24	2.82	kscf
Natural Gas Cost	$21.55	$1,350.19	$13.75	$17.29	$
Oil Flow	0.0	3.6	0.0	0.0	gals
Oil Cost	$0.00	$13.94	$0.00	$0.00	$
Total Fuel Cost	$21.55	$1,364.12	$13.75	$17.29	$
Average Steam Cost	—	$7.01	—	—	$/klbs
Efficiency By Losses	75.4	80.0	70.9	77.8	%
Efficiency By I/O		86.5			%

Central State Hospital

Heating Plant Day Operations Report

10/8/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	193.61	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	229.17	kscf
Total Plant Gas Cost	$1,407.28	$
Total Plant Oil Flow	0.2	gals
Total Plant Oil Cost	$0.91	$
Total Plant Fuel Cost	$1,408.19	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	82.7	%

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	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	0.9	23.5	0.7	0.5	hrs
Steam Flow	0.00	193.61	0.00	0.00	klbs
Gas Flow	3.60	220.25	2.30	3.02	kscf
Natural Gas Cost	$22.11	$1,352.52	$14.13	$18.53	$
Oil Flow	0.0	0.2	0.0	0.0	gals
Oil Cost	$0.00	$0.91	$0.00	$0.00	$
Total Fuel Cost	$22.11	$1,353.42	$14.13	$18.53	$
Average Steam Cost	---	$6.99	---	---	$/klbs
Efficiency By Losses	76.3	79.9	73.5	79.9	%
Efficiency By I/O		86.1			%

Central State Hospital

Heating Plant Day Operations Report

10/9/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	1.19	hdd
Total Plant Steam Flow	199.20	klbs
Steam Flow Per Heating Degree Day	166.7	klbs/hdd
Total Condensate Return Water Flow	0 0	klbs
Total Plant Gas Flow	236.21	kscf
Total Plant Gas Cost	$1,450.52	$
Total Plant Oil Flow	1.5	gals
Total Plant Oil Cost	$5.89	$
Total Plant Fuel Cost	$1,456.41	$
Fuel Cost Per Heating Degree Day	$1,219.02	$/hdd
Plant Average Steam Cost Per Degree Day	$6.12	$/klbs
Total Plant Efficiency By I/O	82.5	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	1.0	23.5	0.9	0 5	hrs
Steam Flow	0.00	199.20	0.00	0.00	klbs
Gas Flow	3.99	226.30	2.83	3.09	kscf
Natural Gas Cost	$24.53	$1,389.68	$17.35	$18.96	$
Oil Flow	0.0	1.5	0.0	0.0	gals
Oil Cost	$0.00	$5.89	$0.00	$0.00	$
Total Fuel Cost	$24.53	$1,395.57	$17.35	$18.96	$
Average Steam Cost	---	$7.01	---	---	$/klbs
Efficiency By Losses	77.7	79.9	68.0	82.5	%
Efficiency By I/O		86.1			%

Central State Hospital

Heating Plant Day Operations Report

10/10/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	4.61	hdd
Total Plant Steam Flow	196.43	klbs
Steam Flow Per Heating Degree Day	42.7	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	233.94	kscf
Total Plant Gas Cost	$1,436.55	$
Total Plant Oil Flow	1.0	gals
Total Plant Oil Cost	$3.82	$
Total Plant Fuel Cost	$1,440.37	$
Fuel Cost Per Heating Degree Day	$312.75	$/hdd
Plant Average Steam Cost Per Degree Day	$1.59	$/klbs
Total Plant Efficiency By I/O	82.2	%

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	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	0.8	23.5	0.7	0.5	hrs
Steam Flow	0.00	196.43	0.00	0.00	klbs
Gas Flow	3.28	225.33	2.32	3.00	kscf
Natural Gas Cost	$20.15	$1,383.73	$14.23	$18.44	$
Oil Flow	0.0	1.0	0.0	0.0	gals
Oil Cost	$0.00	$3.82	$0.00	$0.00	$
Total Fuel Cost	$20.15	$1,387.54	$14.23	$18.44	$
Average Steam Cost	---	$7.06	---	---	$/klbs
Efficiency By Losses	80.5	79.9	74.1	81.2	%
Efficiency By I/O		85.3			%

Central State Hospital

Heating Plant Day Operations Report

10/11/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	3.02	hdd
Total Plant Steam Flow	186.11	klbs
Steam Flow Per Heating Degree Day	61.6	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	221.02	kscf
Total Plant Gas Cost	$1,357.20	$
Total Plant Oil Flow	0.6	gals
Total Plant Oil Cost	$2.15	$
Total Plant Fuel Cost	$1,359.35	$
Fuel Cost Per Heating Degree Day	$450.29	$/hdd
Plant Average Steam Cost Per Degree Day	$2.42	$/klbs
Total Plant Efficiency By I/O	82.4	%

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	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	0.9	23.5	0.7	0.4	hrs
Steam Flow	0.00	186.11	0.00	0.00	klbs
Gas Flow	3.74	212.06	2.34	2.88	kscf
Natural Gas Cost	$22.99	$1,302.18	$14.37	$17.66	$
Oil Flow	0.0	0.6	0.0	0.0	gals
Oil Cost	$0.00	$2.15	$0.00	$0.00	$
Total Fuel Cost	$22.99	$1,304.33	$14.37	$17.66	$
Average Steam Cost	---	$7.01	---	---	$/klbs
Efficiency By Losses	76.3	80.0	72.8	78.6	%
Efficiency By I/O		85.9			%

Central State Hospital

Heating Plant Day Operations Report

10/12/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	195.35	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	230.97	kscf
Total Plant Gas Cost	$1,418.32	$
Total Plant Oil Flow	0.1	gals
Total Plant Oil Cost	$0.43	$
Total Plant Fuel Cost	$1,418.74	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	82.8	%

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	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	0.9	23.5	0.8	0.5	hrs
Steam Flow	0.00	195.35	0.00	0.00	klbs
Gas Flow	3.56	221.36	2.52	3.53	kscf
Natural Gas Cost	$21.83	$1,359.32	$15.48	$21.69	$
Oil Flow	0.0	0.1	0.0	0.0	gals
Oil Cost	$0.00	$0.43	$0.00	$0.00	$
Total Fuel Cost	$21.83	$1,359.74	$15.48	$21.69	$
Average Steam Cost	---	$6.96	---	---	$/klbs
Efficiency By Losses	76.5	80.1	75.3	81.0	%
Efficiency By I/O		86.4			%

Central State Hospital

Heating Plant Day Operations Report

10/13/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	213.76	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	254.75	kscf
Total Plant Gas Cost	$1,564.35	$
Total Plant Oil Flow	0.1	gals
Total Plant Oil Cost	$0.26	$
Total Plant Fuel Cost	$1,564.61	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	82.2	%

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	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	0.9	23.5	0.8	0.5	hrs
Steam Flow	0.00	213.76	0.00	0.00	klbs
Gas Flow	3.66	244.93	2.61	3.55	kscf
Natural Gas Cost	$22.45	$1,504.03	$16.04	$21.83	$
Oil Flow	0.0	0.1	0.0	0.0	gals
Oil Cost	$0.00	$0.26	$0.00	$0.00	$
Total Fuel Cost	$22.45	$1,504.29	$16.04	$21.83	$
Average Steam Cost	---	$7.04	---	---	$/klbs
Efficiency By Losses	79.8	80.1	69.2	79.8	%
Efficiency By I/O		85.5			%

Central State Hospital

Heating Plant Day Operations Report

10/14/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	3.05	hdd
Total Plant Steam Flow	217.69	klbs
Steam Flow Per Heating Degree Day	71.4	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	255.64	kscf
Total Plant Gas Cost	$1,569.81	$
Total Plant Oil Flow	0.7	gals
Total Plant Oil Cost	$2.77	$
Total Plant Fuel Cost	$1,572.58	$
Fuel Cost Per Heating Degree Day	$516.05	$/hdd
Plant Average Steam Cost Per Degree Day	$2.37	$/klbs
Total Plant Efficiency By I/O	83.4	%

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	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	0.3	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.9	23.5	0.8	0.5	hrs
Steam Flow	0.00	217.69	0.00	0.00	klbs
Gas Flow	3.89	246.16	2.62	2.97	kscf
Natural Gas Cost	$23.90	$1,511.58	$16.10	$18.23	$
Oil Flow	0.0	0.7	0.0	0.0	gals
Oil Cost	$0.00	$2.77	$0.00	$0.00	$
Total Fuel Cost	$23.90	$1,514.36	$16.10	$18.23	$
Average Steam Cost	---	$6.96	---	---	$/klbs
Efficiency By Losses	78.7	79.9	70.1	78.3	%
Efficiency By I/O		86.6			%

Central State Hospital

Heating Plant Day Operations Report

10/15/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	5.17	hdd
Total Plant Steam Flow	221.76	klbs
Steam Flow Per Heating Degree Day	42.9	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	258.14	kscf
Total Plant Gas Cost	$1,585.17	$
Total Plant Oil Flow	0.1	gals
Total Plant Oil Cost	$0.56	$
Total Plant Fuel Cost	$1,585.72	$
Fuel Cost Per Heating Degree Day	$306.96	$/hdd
Plant Average Steam Cost Per Degree Day	$1.38	$/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	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	0.9	23.5	0.7	0.5	hrs
Steam Flow	0.00	221.76	0.00	0.00	klbs
Gas Flow	3.71	249.06	2.38	3.00	kscf
Natural Gas Cost	$22.75	$1,529.42	$14.59	$18.40	$
Oil Flow	0.0	0.1	0.0	0.0	gals
Oil Cost	$0.00	$0.56	$0.00	$0.00	$
Total Fuel Cost	$22.75	$1,529.97	$14.59	$18.40	$
Average Steam Cost	---	$6.90	---	---	$/klbs
Efficiency By Losses	80.4	80.1	71.0	78.6	%
Efficiency By I/O		87.2			%

Central State Hospital

Heating Plant Day Operations Report

10/16/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	1.90	hdd
Total Plant Steam Flow	212.43	klbs
Steam Flow Per Heating Degree Day	111.9	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	244.41	kscf
Total Plant Gas Cost	$1,500.85	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.15	$
Total Plant Fuel Cost	$1,501.00	$
Fuel Cost Per Heating Degree Day	$790.92	$/hdd
Plant Average Steam Cost Per Degree Day	$3.72	$/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	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	0.8	23.5	0.6	0.3	hrs
Steam Flow	0.00	212.43	0.00	0.00	klbs
Gas Flow	3.23	237.10	1.98	2.10	kscf
Natural Gas Cost	$19.85	$1,455.95	$12.16	$12.90	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.15	$0.00	$0.00	$
Total Fuel Cost	$19.85	$1,456.09	$12.16	$12.90	$
Average Steam Cost	---	$6.85	---	---	$/klbs
Efficiency By Losses	77.6	80.1	70.0	80.5	%
Efficiency By I/O		87.7			%

Central State Hospital

Heating Plant Day Operations Report

10/17/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	5.98	hdd
Total Plant Steam Flow	250.76	klbs
Steam Flow Per Heating Degree Day	41.9	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	292.12	kscf
Total Plant Gas Cost	$1,793.83	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,793.83	$
Fuel Cost Per Heating Degree Day	$299.82	$/hdd
Plant Average Steam Cost Per Degree Day	$1.20	$/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	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	1.0	23.5	1.0	0.6	hrs
Steam Flow	0.00	250.76	0.00	0.00	klbs
Gas Flow	4.27	280.41	3.37	4.07	kscf
Natural Gas Cost	$26.22	$1,721.91	$20.68	$25.02	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$26.22	$1,721.91	$20.68	$25.02	$
Average Steam Cost	---	$6.87	---	---	$/klbs
Efficiency By Losses	79.2	79.8	70.4	82.4	%
Efficiency By I/O		87.6			%

Central State Hospital

Heating Plant Day Operations Report

10/18/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	12.80	hdd
Total Plant Steam Flow	242.93	klbs
Steam Flow Per Heating Degree Day	19.0	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	285.15	kscf
Total Plant Gas Cost	$1,751.03	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.04	$
Total Plant Fuel Cost	$1,751.07	$
Fuel Cost Per Heating Degree Day	$136.76	$/hdd
Plant Average Steam Cost Per Degree Day	$0.56	$/klbs
Total Plant Efficiency By I/O	83.4	%

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	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	1.0	23.5	1.0	0.7	hrs
Steam Flow	0.00	242.93	0.00	0.00	klbs
Gas Flow	4.09	273.52	3.21	4.32	kscf
Natural Gas Cost	$25.11	$1,679.64	$19.74	$26.54	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.04	$0.00	$0.00	$
Total Fuel Cost	$25.11	$1,679.69	$19.74	$26.54	$
Average Steam Cost	---	$6.91	---	---	$/klbs
Efficiency By Losses	77.2	79.7	70.5	81.7	%
Efficiency By I/O		87.0			%

Central State Hospital

Heating Plant Day Operations Report

10/19/2020
7.00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	261.88	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	325.50	kscf
Total Plant Gas Cost	$1,998.83	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,998.83	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	78.8	%

Condensate Transfer Pump #1 Run Time	3.6	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	3.6	hrs
Boiler Feed Pump #1 Run Time	3.6	hrs
Boiler Feed Pump #2 Run Time	3.6	hrs
Boiler Feed Pump #3 Run Time	3.6	hrs
Boiler Feed Pump #4 Run Time	3.6	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	0.8	23.5	0.8	0.4	hrs
Steam Flow	0.00	261.88	0.00	0.00	klbs
Gas Flow	0.00	325.23	0.27	0.00	kscf
Natural Gas Cost	$0.00	$1,997.15	$1.68	$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	$0.00	$1,997.15	$1.68	$0.00	$
Average Steam Cost	---	$7.63	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O		78.9			%

Central State Hospital

Heating Plant Day Operations Report

10/20/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	263.49	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	331.88	kscf
Total Plant Gas Cost	$2,038.01	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,038.01	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	77.8	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	0.9	23.5	0.7	0.4	hrs
Steam Flow	0.00	263.49	0.00	0.00	klbs
Gas Flow	0.00	331.88	0.00	0.00	kscf
Natural Gas Cost	$0.00	$2,038.01	$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	$0.00	$2,038.01	$0.00	$0.00	$
Average Steam Cost	---	$7.73	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O		77.8			%

Central State Hospital

Heating Plant Day Operations Report

10/21/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	263.47	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	331.86	kscf
Total Plant Gas Cost	$2,037.85	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,037.85	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	77.8	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	0.8	23.5	0.7	0.4	hrs
Steam Flow	0.00	263.47	0.00	0.00	klbs
Gas Flow	0.00	331.86	0.00	0.00	kscf
Natural Gas Cost	$0.00	$2,037.85	$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	$0.00	$2,037.85	$0.00	$0.00	$
Average Steam Cost	---	$7.73	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O		77.8			%

Central State Hospital

Heating Plant Day Operations Report

10/22/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	263.49	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	331.88	kscf
Total Plant Gas Cost	$2,038.00	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,038.00	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	77.8	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	0.9	23.5	0.7	0.5	hrs
Steam Flow	0.00	263.49	0.00	0.00	klbs
Gas Flow	0.00	331.88	0.00	0.00	kscf
Natural Gas Cost	$0.00	$2,038.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$2,038.00	$0.00	$0.00	$
Average Steam Cost	---	$7.73	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O		77.8			%

Central State Hospital

Heating Plant Day Operations Report

10/23/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	263.36	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	331.71	kscf
Total Plant Gas Cost	$2,036.94	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,036.94	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	77.8	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	0.9	23.5	0.7	0.5	hrs
Steam Flow	0.00	263.36	0.00	0.00	klbs
Gas Flow	0.00	331.71	0.00	0.00	kscf
Natural Gas Cost	$0.00	$2,036.94	$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	$0.00	$2,036.94	$0.00	$0.00	$
Average Steam Cost	---	$7.73	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O		77.8			%

Central State Hospital

Heating Plant Day Operations Report

10/24/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	263.37	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	331.73	kscf
Total Plant Gas Cost	$2,037.05	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,037.05	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	77.8	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	0.9	23.5	0.7	0.4	hrs
Steam Flow	0.00	263.37	0.00	0.00	klbs
Gas Flow	0.00	331.73	0.00	0.00	kscf
Natural Gas Cost	$0.00	$2,037.05	$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	$0.00	$2,037.05	$0.00	$0.00	$
Average Steam Cost	---	$7.73	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O		77.8			%

Central State Hospital

Heating Plant Day Operations Report

10/25/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	263.35	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	331.70	kscf
Total Plant Gas Cost	$2,036.91	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,036.91	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	77.8	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	0.9	23.5	0.7	0.4	hrs
Steam Flow	0.00	263.35	0.00	0.00	klbs
Gas Flow	0.00	331.70	0.00	0.00	kscf
Natural Gas Cost	$0.00	$2,036.91	$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	$0.00	$2,036.91	$0.00	$0.00	$
Average Steam Cost	---	$7.73	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O		77.8			%

Central State Hospital

Heating Plant Day Operations Report

10/26/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	263.38	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	331.78	kscf
Total Plant Gas Cost	$2,037.36	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,037.36	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	77.7	%

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	1.0	23.5	1.0	0.6	hrs
Steam Flow	0.00	263.38	0.00	0.00	klbs
Gas Flow	0.00	331.78	0.00	0.00	kscf
Natural Gas Cost	$0.00	$2,037.36	$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	$0.00	$2,037.36	$0.00	$0.00	$
Average Steam Cost	---	$7.74	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O		77.7			%

Central State Hospital

Heating Plant Day Operations Report

10/27/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	263.27	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	331.61	kscf
Total Plant Gas Cost	$2,036.31	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,036.31	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	77.8	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	0.9	23.5	0.7	0.4	hrs
Steam Flow	0.00	263.27	0.00	0.00	klbs
Gas Flow	0.00	331.61	0.00	0.00	kscf
Natural Gas Cost	$0.00	$2,036.31	$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	$0.00	$2,036.31	$0.00	$0.00	$
Average Steam Cost	---	$7.73	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O		77.8			%

Central State Hospital

Heating Plant Day Operations Report

10/28/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	263.48	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	331.87	kscf
Total Plant Gas Cost	$2,037.91	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,037.91	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	77.8	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	0.9	23.5	0.7	0.4	hrs
Steam Flow	0.00	263.48	0.00	0.00	klbs
Gas Flow	0.00	331.87	0.00	0.00	kscf
Natural Gas Cost	$0.00	$2,037.91	$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	$0.00	$2,037.91	$0.00	$0.00	$
Average Steam Cost	---	$7.73	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O		77.8			%

Central State Hospital

Heating Plant Day Operations Report

10/29/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	263.46	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	331.84	kscf
Total Plant Gas Cost	$2,037.72	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,037.72	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	77.8	%

Condensate Transfer Pump #1 Run Time	0.0				hrs
Condensate Transfer Pump #2 Run Time	0.0				hrs
Condensate Transfer Pump #3 Run Time	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	0.8	23.5	0.6	0.5	hrs
Steam Flow	0.00	263.46	0.00	0.00	klbs
Gas Flow	0.00	331.84	0.00	0.00	kscf
Natural Gas Cost	$0.00	$2,037.72	$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	$0.00	$2,037.72	$0.00	$0.00	$
Average Steam Cost	---	$7.73	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O		77.8			%

Central State Hospital

Heating Plant Day Operations Report

10/30/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	263.46	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	331.88	kscf
Total Plant Gas Cost	$2,038.00	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,038.00	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	77.7	%

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	0.5	15.4	9.7	10.5	hrs
Steam Flow	0.00	263.46	0.00	0.00	klbs
Gas Flow	0.00	331.88	0.00	0.00	kscf
Natural Gas Cost	$0.00	$2,038.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$2,038.00	$0.00	$0.00	$
Average Steam Cost	---	$7.74	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O		77.7			%

Central State Hospital

Heating Plant Day Operations Report

10/31/2020
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	263.45	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	0.0	klbs
Total Plant Gas Flow	331.83	kscf
Total Plant Gas Cost	$2,037.66	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,037.66	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	77.8	%

Condensate Transfer Pump #1 Run Time	0.0	hrs
Condensate Transfer Pump #2 Run Time	0.0	hrs
Condensate Transfer Pump #3 Run Time	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	0.7	1.6	23.3	0.6	hrs
Steam Flow	0.00	263.45	0.00	0.00	klbs
Gas Flow	0.00	331.83	0.00	0.00	kscf
Natural Gas Cost	$0.00	$2,037.66	$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	$0.00	$2,037.66	$0.00	$0.00	$
Average Steam Cost	---	$7.73	---	---	$/klbs
Efficiency By Losses	0.0	0.0	0.0	0.0	%
Efficiency By I/O		77.8			%