Central State Hospital

Heating Plant Day Operations Report

11/1/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	0.00	hdd
Total Plant Steam Flow	214.64	klbs
Steam Flow Per Heating Degree Day	---	klbs/hdd
Total Condensate Return Water Flow	9.1	klbs
Total Plant Gas Flow	256.57	kscf
Total Plant Gas Cost	$1,575.52	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,575.52	$
Fuel Cost Per Heating Degree Day	---	$/hdd
Plant Average Steam Cost Per Degree Day	---	$/klbs
Total Plant Efficiency By I/O	81.9	%

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	23.5	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	0.0	0.2	0.0	hrs
Steam Flow	213.04	0.00	1.59	0.00	klbs
Gas Flow	254.49	0.00	2.08	0.00	kscf
Natural Gas Cost	$1,562.77	$0.00	$12.75	$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	$1,562.77	$0.00	$12.75	$0.00	$
Average Steam Cost	$7.34	---	$8.00	---	$/klbs
Efficiency By Losses	81.2	0.0	0.0	0.0	%
Efficiency By I/O	82.0		75.2		%

Central State Hospital

Heating Plant Day Operations Report

11/2/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	17.39	hdd
Total Plant Steam Flow	253.05	klbs
Steam Flow Per Heating Degree Day	14.5	klbs/hdd
Total Condensate Return Water Flow	9.1	klbs
Total Plant Gas Flow	288.99	kscf
Total Plant Gas Cost	$1,774.59	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,774.59	$
Fuel Cost Per Heating Degree Day	$102.03	$/hdd
Plant Average Steam Cost Per Degree Day	$0.40	$/klbs
Total Plant Efficiency By I/O	85.8	%

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	0.0	0.0	0.0	hrs
Steam Flow	253.05	0.00	0.00	0.00	klbs
Gas Flow	288.99	0.00	0.00	0.00	kscf
Natural Gas Cost	$1,774.59	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,774.59	$0.00	$0.00	$0.00	$
Average Steam Cost	$7.01	---	---	---	$/klbs
Efficiency By Losses	81.0	0.0	0.0	0.0	%
Efficiency By I/O	85.8				%

Central State Hospital

Heating Plant Day Operations Report

11/3/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	19.50	hdd
Total Plant Steam Flow	256.03	klbs
Steam Flow Per Heating Degree Day	13.1	klbs/hdd
Total Condensate Return Water Flow	9.5	klbs
Total Plant Gas Flow	290.89	kscf
Total Plant Gas Cost	$1,786.30	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,786.30	$
Fuel Cost Per Heating Degree Day	$91.59	$/hdd
Plant Average Steam Cost Per Degree Day	$0.36	$/klbs
Total Plant Efficiency By I/O	86.2	%

Condensate Transfer Pump #1 Run Time	24.5	hrs
Condensate Transfer Pump #2 Run Time	24.5	hrs
Condensate Transfer Pump #3 Run Time	24.5	hrs
Boiler Feed Pump #1 Run Time	24.5	hrs
Boiler Feed Pump #2 Run Time	24.5	hrs
Boiler Feed Pump #3 Run Time	24.5	hrs
Boiler Feed Pump #4 Run Time	24.5	hrs
Fuel Oil Pump #1 Run Time	0.0	hrs
Fuel Oil Pump #2 Run Time	24.5	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	24.5	0.0	0.0	0.0	hrs
Steam Flow	256.03	0.00	0.00	0.00	klbs
Gas Flow	290.89	0.00	0.00	0.00	kscf
Natural Gas Cost	$1,786.30	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,786.30	$0.00	$0.00	$0.00	$
Average Steam Cost	$6.98	---	---	---	$/klbs
Efficiency By Losses	81.1	0.0	0.0	0.0	%
Efficiency By I/O	86.2				%

Central State Hospital

Heating Plant Day Operations Report

11/4/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	20.54	hdd
Total Plant Steam Flow	246.41	klbs
Steam Flow Per Heating Degree Day	12.0	klbs/hdd
Total Condensate Return Water Flow	9.1	klbs
Total Plant Gas Flow	277.94	kscf
Total Plant Gas Cost	$1,706.78	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,706.78	$
Fuel Cost Per Heating Degree Day	$83.10	$/hdd
Plant Average Steam Cost Per Degree Day	$0.34	$/klbs
Total Plant Efficiency By I/O	86.8	%

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	0.0	0.0	0.0	hrs
Steam Flow	246.41	0.00	0.00	0.00	klbs
Gas Flow	277.94	0.00	0.00	0.00	kscf
Natural Gas Cost	$1,706.78	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,706.78	$0.00	$0.00	$0.00	$
Average Steam Cost	$6.93	---	---	---	$/klbs
Efficiency By Losses	81.0	0.0	0.0	0.0	%
Efficiency By I/O	86.8				%

Central State Hospital

Heating Plant Day Operations Report

11/5/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	19.87	hdd
Total Plant Steam Flow	300.54	klbs
Steam Flow Per Heating Degree Day	15.1	klbs/hdd
Total Condensate Return Water Flow	8.7	klbs
Total Plant Gas Flow	332.95	kscf
Total Plant Gas Cost	$2,044.58	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,044.58	$
Fuel Cost Per Heating Degree Day	$102.88	$/hdd
Plant Average Steam Cost Per Degree Day	$0.34	$/klbs
Total Plant Efficiency By I/O	88.4	%

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	0.0	0.0	0.0	hrs
Steam Flow	300.54	0.00	0.00	0.00	klbs
Gas Flow	332.95	0.00	0.00	0.00	kscf
Natural Gas Cost	$2,044.58	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$2,044.58	$0.00	$0.00	$0.00	$
Average Steam Cost	$6.80	---	---	---	$/klbs
Efficiency By Losses	81.2	0.0	0.0	0.0	%
Efficiency By I/O	88.4				%

Central State Hospital

Heating Plant Day Operations Report

11/6/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	9.13	hdd
Total Plant Steam Flow	274.71	klbs
Steam Flow Per Heating Degree Day	30.1	klbs/hdd
Total Condensate Return Water Flow	8.9	klbs
Total Plant Gas Flow	307.03	kscf
Total Plant Gas Cost	$1,885.38	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,885.38	$
Fuel Cost Per Heating Degree Day	$206.56	$/hdd
Plant Average Steam Cost Per Degree Day	$0.75	$/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	0.0	0.0	0.0	hrs
Steam Flow	274.71	0.00	0.00	0.00	klbs
Gas Flow	307.03	0.00	0.00	0.00	kscf
Natural Gas Cost	$1,885.38	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,885.38	$0.00	$0.00	$0.00	$
Average Steam Cost	$6.86	---	---	---	$/klbs
Efficiency By Losses	81.2	0.0	0.0	0.0	%
Efficiency By I/O	87.6				%

Central State Hospital

Heating Plant Day Operations Report

11/7/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	16.03	hdd
Total Plant Steam Flow	290.71	klbs
Steam Flow Per Heating Degree Day	18.1	klbs/hdd
Total Condensate Return Water Flow	8.8	klbs
Total Plant Gas Flow	323.17	kscf
Total Plant Gas Cost	$1,984.48	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,984.48	$
Fuel Cost Per Heating Degree Day	$123.76	$/hdd
Plant Average Steam Cost Per Degree Day	$0.43	$/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	23.5	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	0.0	0.0	0.0	hrs
Steam Flow	290.71	0.00	0.00	0.00	klbs
Gas Flow	323.17	0.00	0.00	0.00	kscf
Natural Gas Cost	$1,984.48	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,984.48	$0.00	$0.00	$0.00	$
Average Steam Cost	$6.83	---	---	---	$/klbs
Efficiency By Losses	81.1	0.0	0.0	0.0	%
Efficiency By I/O	88.1				%

Central State Hospital

Heating Plant Day Operations Report

11/8/2019
7.00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	13.63	hdd
Total Plant Steam Flow	280.45	klbs
Steam Flow Per Heating Degree Day	20.6	klbs/hdd
Total Condensate Return Water Flow	8.9	klbs
Total Plant Gas Flow	313.01	kscf
Total Plant Gas Cost	$1,922.09	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,922.09	$
Fuel Cost Per Heating Degree Day	$141.01	$/hdd
Plant Average Steam Cost Per Degree Day	$0.50	$/klbs
Total Plant Efficiency By I/O	87.7	%
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	0.0	0.0	0.0	hrs
Steam Flow	280.45	0.00	0.00	0.00	klbs
Gas Flow	313.01	0.00	0.00	0.00	kscf
Natural Gas Cost	$1,922.09	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,922.09	$0.00	$0.00	$0.00	$
Average Steam Cost	$6.85	---	---	---	$/klbs
Efficiency By Losses	81.2	0.0	0.0	0.0	%
Efficiency By I/O	87.7				%

Central State Hospital

Heating Plant Day Operations Report

11/9/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	23.88	hdd
Total Plant Steam Flow	323.93	klbs
Steam Flow Per Heating Degree Day	13.6	klbs/hdd
Total Condensate Return Water Flow	8.4	klbs
Total Plant Gas Flow	356.57	kscf
Total Plant Gas Cost	$2,189.62	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,189.62	$
Fuel Cost Per Heating Degree Day	$91.68	$/hdd
Plant Average Steam Cost Per Degree Day	$0.28	$/klbs
Total Plant Efficiency By I/O	89.0	%

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	0.0	0.0	0.0	hrs
Steam Flow	323.93	0.00	0.00	0.00	klbs
Gas Flow	356.57	0.00	0.00	0.00	kscf
Natural Gas Cost	$2,189.62	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$2,189.62	$0.00	$0.00	$0.00	$
Average Steam Cost	$6.76	---	---	---	$/klbs
Efficiency By Losses	81.1	0.0	0.0	0.0	%
Efficiency By I/O	89.0				%

Central State Hospital

Heating Plant Day Operations Report

11/10/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	28.15	hdd
Total Plant Steam Flow	311.22	klbs
Steam Flow Per Heating Degree Day	11.1	klbs/hdd
Total Condensate Return Water Flow	8.6	klbs
Total Plant Gas Flow	343.42	kscf
Total Plant Gas Cost	$2,108.83	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,108.83	$
Fuel Cost Per Heating Degree Day	$74.92	$/hdd
Plant Average Steam Cost Per Degree Day	$0.24	$/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	0.0	0.0	0.0	hrs
Steam Flow	311.22	0.00	0.00	0.00	klbs
Gas Flow	343.42	0.00	0.00	0.00	kscf
Natural Gas Cost	$2,108.83	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$2,108.83	$0.00	$0.00	$0.00	$
Average Steam Cost	$6.78	---	---	---	$/klbs
Efficiency By Losses	81.2	0.0	0.0	0.0	%
Efficiency By I/O	88.7				%

Central State Hospital

Heating Plant Day Operations Report

11/11/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	20.19	hdd
Total Plant Steam Flow	284.82	klbs
Steam Flow Per Heating Degree Day	14.1	klbs/hdd
Total Condensate Return Water Flow	9.4	klbs
Total Plant Gas Flow	320.45	kscf
Total Plant Gas Cost	$1,967.82	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,967.82	$
Fuel Cost Per Heating Degree Day	$97.48	$/hdd
Plant Average Steam Cost Per Degree Day	$0.34	$/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	0.0	0.0	0.0	hrs
Steam Flow	284.82	0.00	0.00	0.00	klbs
Gas Flow	320.45	0.00	0.00	0.00	kscf
Natural Gas Cost	$1,967.82	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,967.82	$0.00	$0.00	$0.00	$
Average Steam Cost	$6.91	---	---	---	$/klbs
Efficiency By Losses	81.2	0.0	0.0	0.0	%
Efficiency By I/O	87.0				%

Central State Hospital

Heating Plant Day Operations Report

11/12/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	12.24	hdd
Total Plant Steam Flow	270.45	klbs
Steam Flow Per Heating Degree Day	22.1	klbs/hdd
Total Condensate Return Water Flow	9.4	klbs
Total Plant Gas Flow	304.90	kscf
Total Plant Gas Cost	$1,872.33	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$1,872.33	$
Fuel Cost Per Heating Degree Day	$152.92	$/hdd
Plant Average Steam Cost Per Degree Day	$0.57	$/klbs
Total Plant Efficiency By I/O	86.9	%

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	23.5	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	23.5	0.0	0.0	0.0	hrs
Steam Flow	270.45	0.00	0.00	0.00	klbs
Gas Flow	304.90	0.00	0.00	0.00	kscf
Natural Gas Cost	$1,872.33	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$1,872.33	$0.00	$0.00	$0.00	$
Average Steam Cost	$6.92	---	---	---	$/klbs
Efficiency By Losses	81.2	0.0	0.0	0.0	%
Efficiency By I/O	86.9				%

Central State Hospital

Heating Plant Day Operations Report

11/13/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	24.48	hdd
Total Plant Steam Flow	340.73	klbs
Steam Flow Per Heating Degree Day	13.9	klbs/hdd
Total Condensate Return Water Flow	8.8	klbs
Total Plant Gas Flow	381.09	kscf
Total Plant Gas Cost	$2,340.21	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,340.21	$
Fuel Cost Per Heating Degree Day	$95.59	$/hdd
Plant Average Steam Cost Per Degree Day	$0.28	$/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	0.0	0.0	0.0	hrs
Steam Flow	340.73	0.00	0.00	0.00	klbs
Gas Flow	381.09	0.00	0.00	0.00	kscf
Natural Gas Cost	$2,340.21	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$2,340.21	$0.00	$0.00	$0.00	$
Average Steam Cost	$6.87	---	---	---	$/klbs
Efficiency By Losses	81.1	0.0	0.0	0.0	%
Efficiency By I/O	87.6				%

Central State Hospital

Heating Plant Day Operations Report

11/14/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	36.24	hdd
Total Plant Steam Flow	361.84	klbs
Steam Flow Per Heating Degree Day	10.0	klbs/hdd
Total Condensate Return Water Flow	8.4	klbs
Total Plant Gas Flow	414.28	kscf
Total Plant Gas Cost	$2,543.99	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,543.99	$
Fuel Cost Per Heating Degree Day	$70.19	$/hdd
Plant Average Steam Cost Per Degree Day	$0.19	$/klbs
Total Plant Efficiency By I/O	85.5	%
Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	23.5	hrs
Condensate Transfer Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #1 Run Time	23.5	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #4 Run Time	23.5	hrs
Fuel Oil Pump #1 Run Time	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	0.0	0.0	0.0	hrs
Steam Flow	361.84	0.00	0.00	0.00	klbs
Gas Flow	414.28	0.00	0.00	0.00	kscf
Natural Gas Cost	$2,543.99	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$2,543.99	$0.00	$0.00	$0.00	$
Average Steam Cost	$7.03	---	---	---	$/klbs
Efficiency By Losses	81.1	0.0	0.0	0.0	%
Efficiency By I/O	85.5				%

Central State Hospital

Heating Plant Day Operations Report

11/15/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	33.50	hdd
Total Plant Steam Flow	358.84	klbs
Steam Flow Per Heating Degree Day	10.7	klbs/hdd
Total Condensate Return Water Flow	8.1	klbs
Total Plant Gas Flow	409.86	kscf
Total Plant Gas Cost	$2,516.83	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,516.83	$
Fuel Cost Per Heating Degree Day	$75.14	$/hdd
Plant Average Steam Cost Per Degree Day	$0.21	$/klbs
Total Plant Efficiency By I/O	85.7	%

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	0.0	0.0	0.0	hrs
Steam Flow	358.84	0.00	0.00	0.00	klbs
Gas Flow	409.86	0.00	0.00	0.00	kscf
Natural Gas Cost	$2,516.83	$0.00	$0.00	$0.00	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$2,516.83	$0.00	$0.00	$0.00	$
Average Steam Cost	$7.01	---	---	---	$/klbs
Efficiency By Losses	81.2	0.0	0.0	0.0	%
Efficiency By I/O	85.7				%

Central State Hospital

Heating Plant Day Operations Report

11/16/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	23.45	hdd
Total Plant Steam Flow	337.37	klbs
Steam Flow Per Heating Degree Day	14.4	klbs/hdd
Total Condensate Return Water Flow	8.4	klbs
Total Plant Gas Flow	441.94	kscf
Total Plant Gas Cost	$2,713.87	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,713.87	$
Fuel Cost Per Heating Degree Day	$115.75	$/hdd
Plant Average Steam Cost Per Degree Day	$0.34	$/klbs
Total Plant Efficiency By I/O	74.8	%

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	5.0	21.4	0.0	1.6	hrs
Steam Flow	72.55	264.65	0.00	0.16	klbs
Gas Flow	82.89	347.56	0.00	11.49	kscf
Natural Gas Cost	$509.00	$2,134.29	$0.00	$70.58	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$509.00	$2,134.29	$0.00	$70.58	$
Average Steam Cost	$7.02	$8.06	---	$439.43	$/klbs
Efficiency By Losses	0.0	79.9	0.0	78.8	%
Efficiency By I/O	85.7	74.6		1.4	%

Central State Hospital

Heating Plant Day Operations Report

11/17/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	23.45	hdd
Total Plant Steam Flow	347.24	klbs
Steam Flow Per Heating Degree Day	14.8	klbs/hdd
Total Condensate Return Water Flow	8.5	klbs
Total Plant Gas Flow	442.92	kscf
Total Plant Gas Cost	$2,719.88	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,719.88	$
Fuel Cost Per Heating Degree Day	$115.96	$/hdd
Plant Average Steam Cost Per Degree Day	$0.33	$/klbs
Total Plant Efficiency By I/O	76.8	%

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	0.0	23.5	0.0	0.6	hrs
Steam Flow	0.00	347.24	0.00	0.00	klbs
Gas Flow	0.00	438.99	0.00	3.93	kscf
Natural Gas Cost	$0.00	$2,695.73	$0.00	$24.15	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$2,695.73	$0.00	$24.15	$
Average Steam Cost	—	$7.76	---	—	$/klbs
Efficiency By Losses	0.0	80.0	0.0	78.7	%
Efficiency By I/O		77.5			%

Central State Hospital

Heating Plant Day Operations Report

11/18/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	23.58	hdd
Total Plant Steam Flow	332.13	klbs
Steam Flow Per Heating Degree Day	14.1	klbs/hdd
Total Condensate Return Water Flow	8.8	klbs
Total Plant Gas Flow	424.98	kscf
Total Plant Gas Cost	$2,609.67	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,609.67	$
Fuel Cost Per Heating Degree Day	$110.68	$/hdd
Plant Average Steam Cost Per Degree Day	$0.33	$/klbs
Total Plant Efficiency By I/O	76.5	%

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

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.0	23.5	0.0	0.5	hrs
Steam Flow	0.00	332.13	0.00	0.00	klbs
Gas Flow	0.00	421.77	0.00	3.20	kscf
Natural Gas Cost	$0.00	$2,589.99	$0.00	$19.68	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$2,589.99	$0.00	$19.68	$
Average Steam Cost	---	$7.80	---	---	$/klbs
Efficiency By Losses	0.0	79.9	0.0	74.8	%
Efficiency By I/O		77.1			%

Central State Hospital

Heating Plant Day Operations Report

11/19/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	19.77	hdd
Total Plant Steam Flow	321.51	klbs
Steam Flow Per Heating Degree Day	16.3	klbs/hdd
Total Condensate Return Water Flow	8.5	klbs
Total Plant Gas Flow	411.88	kscf
Total Plant Gas Cost	$2,529.23	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,529.23	$
Fuel Cost Per Heating Degree Day	$127.94	$/hdd
Plant Average Steam Cost Per Degree Day	$0.40	$/klbs
Total Plant Efficiency By I/O	76.4	%

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	0.0	23.5	0.0	0.5	hrs
Steam Flow	0.00	321.51	0.00	0.00	klbs
Gas Flow	0.00	408.61	0.00	3.27	kscf
Natural Gas Cost	$0.00	$2,509.15	$0.00	$20.08	$
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	$2,509.15	$0.00	$20.08	$
Average Steam Cost	---	$7.80	---	---	$/klbs
Efficiency By Losses	0.0	79.9	0.0	81.3	%
Efficiency By I/O		77.1			%

Central State Hospital

Heating Plant Day Operations Report

11/20/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	19.68	hdd
Total Plant Steam Flow	326.72	klbs
Steam Flow Per Heating Degree Day	16.6	klbs/hdd
Total Condensate Return Water Flow	8.7	klbs
Total Plant Gas Flow	416.92	kscf
Total Plant Gas Cost	$2,560.22	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,560.22	$
Fuel Cost Per Heating Degree Day	$130.07	$/hdd
Plant Average Steam Cost Per Degree Day	$0.40	$/klbs
Total Plant Efficiency By I/O	76.7	%

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	0.0	23.5	0.0	0.6	hrs
Steam Flow	0.00	326.72	0.00	0.00	klbs
Gas Flow	0.00	413.14	0.00	3.78	kscf
Natural Gas Cost	$0.00	$2,537.01	$0.00	$23.21	$
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	$2,537.01	$0.00	$23.21	$
Average Steam Cost	---	$7.77	---	---	$/klbs
Efficiency By Losses	0.0	79.9	0.0	76.3	%
Efficiency By I/O		77.4			%

Central State Hospital

Heating Plant Day Operations Report

11/21/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	20.16	hdd
Total Plant Steam Flow	322.43	klbs
Steam Flow Per Heating Degree Day	16.0	klbs/hdd
Total Condensate Return Water Flow	8.8	klbs
Total Plant Gas Flow	410.19	kscf
Total Plant Gas Cost	$2,518.87	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,518.87	$
Fuel Cost Per Heating Degree Day	$124.96	$/hdd
Plant Average Steam Cost Per Degree Day	$0.39	$/klbs
Total Plant Efficiency By I/O	77.0	%
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	0.0	23.5	0.0	0.5	hrs
Steam Flow	0.00	322.43	0.00	0.00	klbs
Gas Flow	0.00	406.58	0.00	3.61	kscf
Natural Gas Cost	$0.00	$2,496.71	$0.00	$22.16	$
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	$2,496.71	$0.00	$22.16	$
Average Steam Cost	---	$7.74	---	---	$/klbs
Efficiency By Losses	0.0	79.9	0.0	73.7	%
Efficiency By I/O		77.7			%

Central State Hospital

Heating Plant Day Operations Report

11/22/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	22.80	hdd
Total Plant Steam Flow	312.58	klbs
Steam Flow Per Heating Degree Day	13.7	klbs/hdd
Total Condensate Return Water Flow	8.8	klbs
Total Plant Gas Flow	391.69	kscf
Total Plant Gas Cost	$2,405.25	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,405.25	$
Fuel Cost Per Heating Degree Day	$105.50	$/hdd
Plant Average Steam Cost Per Degree Day	$0.34	$/klbs
Total Plant Efficiency By I/O	78.2	%

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

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.0	23.5	0.0	0.4	hrs
Steam Flow	0.00	312.58	0.00	0.00	klbs
Gas Flow	0.00	389.23	0.00	2.46	kscf
Natural Gas Cost	$0.00	$2,390.14	$0.00	$15.11	$
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	$2,390.14	$0.00	$15.11	$
Average Steam Cost	---	$7.65	---	---	$/klbs
Efficiency By Losses	0.0	79.9	0.0	75.2	%
Efficiency By I/O		78.6			%

Central State Hospital

Heating Plant Day Operations Report

11/23/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	11.29	hdd
Total Plant Steam Flow	310.12	klbs
Steam Flow Per Heating Degree Day	27.5	klbs/hdd
Total Condensate Return Water Flow	8.7	klbs
Total Plant Gas Flow	384.95	kscf
Total Plant Gas Cost	$2,363.88	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,363.88	$
Fuel Cost Per Heating Degree Day	$209.31	$/hdd
Plant Average Steam Cost Per Degree Day	$0.67	$/klbs
Total Plant Efficiency By I/O	78.9	%

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

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.0	23.5	0.0	0.5	hrs
Steam Flow	0.00	310.12	0.00	0.00	klbs
Gas Flow	0.00	381.64	0.00	3.31	kscf
Natural Gas Cost	$0.00	$2,343.53	$0.00	$20.35	$
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	$2,343.53	$0.00	$20.35	$
Average Steam Cost	---	$7.56	---	---	$/klbs
Efficiency By Losses	0.0	79.9	0.0	75.9	%
Efficiency By I/O		79.6			%

Central State Hospital

Heating Plant Day Operations Report

11/24/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	24.21	hdd
Total Plant Steam Flow	319.63	klbs
Steam Flow Per Heating Degree Day	13.2	klbs/hdd
Total Condensate Return Water Flow	8.8	klbs
Total Plant Gas Flow	394.99	kscf
Total Plant Gas Cost	$2,425.55	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,425.55	$
Fuel Cost Per Heating Degree Day	$100.21	$/hdd
Plant Average Steam Cost Per Degree Day	$0.31	$/klbs
Total Plant Efficiency By I/O	79.2	%

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

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.0	23.5	0.0	0.2	hrs
Steam Flow	0.00	319.63	0.00	0.00	klbs
Gas Flow	0.00	393.60	0.00	1.39	kscf
Natural Gas Cost	$0.00	$2,417.02	$0.00	$8.53	$
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	$2,417.02	$0.00	$8.53	$
Average Steam Cost	---	$7.56	---	---	$/klbs
Efficiency By Losses	0.0	80.0	0.0	0.0	%
Efficiency By I/O		79.5			%

Central State Hospital

Heating Plant Day Operations Report

11/25/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	19.98	hdd
Total Plant Steam Flow	319.25	klbs
Steam Flow Per Heating Degree Day	16.0	klbs/hdd
Total Condensate Return Water Flow	8.8	klbs
Total Plant Gas Flow	395.28	kscf
Total Plant Gas Cost	$2,427.29	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,427.29	$
Fuel Cost Per Heating Degree Day	$121.50	$/hdd
Plant Average Steam Cost Per Degree Day	$0.38	$/klbs
Total Plant Efficiency By I/O	79.1	%

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

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.0	23.5	0.0	0.0	hrs
Steam Flow	0.00	319.25	0.00	0.00	klbs
Gas Flow	0.00	395.28	0.00	0.00	kscf
Natural Gas Cost	$0.00	$2,427.29	$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	$2,427.29	$0.00	$0.00	$
Average Steam Cost	---	$7.60	---	---	$/klbs
Efficiency By Losses	0.0	80.0	0.0	0.0	%
Efficiency By I/O		79.1			%

Central State Hospital

Heating Plant Day Operations Report

11/26/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	22.26	hdd
Total Plant Steam Flow	328.23	klbs
Steam Flow Per Heating Degree Day	14.7	klbs/hdd
Total Condensate Return Water Flow	8.5	klbs
Total Plant Gas Flow	410.93	kscf
Total Plant Gas Cost	$2,523.42	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,523.42	$
Fuel Cost Per Heating Degree Day	$113.37	$/hdd
Plant Average Steam Cost Per Degree Day	$0.35	$/klbs
Total Plant Efficiency By I/O	78.2	%

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

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.0	23.5	0.0	1.1	hrs
Steam Flow	0.00	328.23	0.00	0.00	klbs
Gas Flow	0.00	403.65	0.00	7.28	kscf
Natural Gas Cost	$0.00	$2,478.72	$0.00	$44.70	$
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	$2,478.72	$0.00	$44.70	$
Average Steam Cost	---	$7.55	---	---	$/klbs
Efficiency By Losses	0.0	80.0	0.0	77.5	%
Efficiency By I/O		79.6			%

Central State Hospital

Heating Plant Day Operations Report

11/27/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	17.72	hdd
Total Plant Steam Flow	298.78	klbs
Steam Flow Per Heating Degree Day	16.9	klbs/hdd
Total Condensate Return Water Flow	8.7	klbs
Total Plant Gas Flow	369.91	kscf
Total Plant Gas Cost	$2,271.50	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,271.50	$
Fuel Cost Per Heating Degree Day	$128.22	$/hdd
Plant Average Steam Cost Per Degree Day	$0.43	$/klbs
Total Plant Efficiency By I/O	79.1	%

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

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.0	23.5	0.0	0.4	hrs
Steam Flow	0.00	298.78	0.00	0.00	klbs
Gas Flow	0.00	367.40	0.00	2.50	kscf
Natural Gas Cost	$0.00	$2,256.12	$0.00	$15.38	$
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	$2,256.12	$0.00	$15.38	$
Average Steam Cost	---	$7.55	---	---	$/klbs
Efficiency By Losses	0.0	79.9	0.0	79.1	%
Efficiency By I/O		79.6			%

Central State Hospital

Heating Plant Day Operations Report

11/28/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	13.33	hdd
Total Plant Steam Flow	303.46	klbs
Steam Flow Per Heating Degree Day	22.8	klbs/hdd
Total Condensate Return Water Flow	8.7	klbs
Total Plant Gas Flow	377.27	kscf
Total Plant Gas Cost	$2,316.74	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,316.74	$
Fuel Cost Per Heating Degree Day	$173.84	$/hdd
Plant Average Steam Cost Per Degree Day	$0.57	$/klbs
Total Plant Efficiency By I/O	78.8	%

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	0.0	23.5	0.0	0.5	hrs
Steam Flow	0.00	303.46	0.00	0.00	klbs
Gas Flow	0.00	373.69	0.00	3.59	kscf
Natural Gas Cost	$0.00	$2,294.72	$0.00	$22.02	$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	$0.00	$0.00	$0.00	$0.00	$
Total Fuel Cost	$0.00	$2,294.72	$0.00	$22.02	$
Average Steam Cost	---	$7.56	---	---	$/klbs
Efficiency By Losses	0.0	79.9	0.0	75.4	%
Efficiency By I/O		79.5			%

Central State Hospital

Heating Plant Day Operations Report

11/29/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	18.41	hdd
Total Plant Steam Flow	313.82	klbs
Steam Flow Per Heating Degree Day	17.0	klbs/hdd
Total Condensate Return Water Flow	8.7	klbs
Total Plant Gas Flow	402.63	kscf
Total Plant Gas Cost	$2,472.46	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,472.46	$
Fuel Cost Per Heating Degree Day	$134.30	$/hdd
Plant Average Steam Cost Per Degree Day	$0.43	$/klbs
Total Plant Efficiency By I/O	76.3	%

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

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.0	23.5	0.0	0.5	hrs
Steam Flow	0.00	313.82	0.00	0.00	klbs
Gas Flow	0.00	398.97	0.00	3.66	kscf
Natural Gas Cost	$0.00	$2,449.96	$0.00	$22.50	$
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	$2,449.96	$0.00	$22.50	$
Average Steam Cost	---	$7.81	---	---	$/klbs
Efficiency By Losses	0.0	79.8	0.0	77.2	%
Efficiency By I/O		77.0			%

Central State Hospital

Heating Plant Day Operations Report

11/30/2019
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	21.91	hdd
Total Plant Steam Flow	309.98	klbs
Steam Flow Per Heating Degree Day	14.2	klbs/hdd
Total Condensate Return Water Flow	8.8	klbs
Total Plant Gas Flow	400.99	kscf
Total Plant Gas Cost	$2,462.37	$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	$0.00	$
Total Plant Fuel Cost	$2,462.37	$
Fuel Cost Per Heating Degree Day	$112.41	$/hdd
Plant Average Steam Cost Per Degree Day	$0.36	$/klbs
Total Plant Efficiency By I/O	75.7	%

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

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.0	23.5	0.0	0.5	hrs
Steam Flow	0.00	309.98	0.00	0.00	klbs
Gas Flow	0.00	397.35	0.00	3.64	kscf
Natural Gas Cost	$0.00	$2,440.00	$0.00	$22.36	$
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	$2,440.00	$0.00	$22.36	$
Average Steam Cost	---	$7.87	---	---	$/klbs
Efficiency By Losses	0.0	79.8	0.0	77.4	%
Efficiency By I/O		76.4			%