

Central State Hospital
Heating Plant Day Operations Report

11/1/2018
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	9.17	hdd			
Total Plant Steam Flow	283.81	klbs			
Steam Flow Per Heating Degree Day	31.0	klbs/hdd			
Total Condensate Return Water Flow	5.7	klbs			
Total Plant Gas Flow	325.45	kscf			
Total Plant Gas Cost	\$1,998.48	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$1,998.48	\$			
Fuel Cost Per Heating Degree Day	\$218.04	\$/hdd			
Plant Average Steam Cost Per Degree Day	\$0.77	\$/klbs			
Total Plant Efficiency By I/O	85.4	%			
Condensate Transfer Pump #1 Run Time	0.0	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	0.0	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.4	23.5	0.0	0.0	hrs
Steam Flow	0.00	283.81	0.00	0.00	klbs
Gas Flow	2.27	323.17	0.00	0.00	kscf
Natural Gas Cost	\$13.95	\$1,984.53	\$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	\$13.95	\$1,984.53	\$0.00	\$0.00	\$
Average Steam Cost	---	\$6.99	---	---	\$/klbs
Efficiency By Losses	79.1	80.5	0.0	0.0	%
Efficiency By I/O		86.0			%

Central State Hospital
Heating Plant Day Operations Report

11/2/2018
7:00 AM
Daily Report

Description

	Plant			Units	
Heating Degree Days	3.05			hdd	
Total Plant Steam Flow	263.81			klbs	
Steam Flow Per Heating Degree Day	86.6			klbs/hdd	
Total Condensate Return Water Flow	6.9			klbs	
Total Plant Gas Flow	301.93			kscf	
Total Plant Gas Cost	\$1,854.08			\$	
Total Plant Oil Flow	0.0			gals	
Total Plant Oil Cost	\$0.00			\$	
Total Plant Fuel Cost	\$1,854.08			\$	
Fuel Cost Per Heating Degree Day	\$608.42			\$/hdd	
Plant Average Steam Cost Per Degree Day	\$2.31			\$/klbs	
Total Plant Efficiency By I/O	85.6			%	
Condensate Transfer Pump #1 Run Time	0.0			hrs	
Condensate Transfer Pump #2 Run Time	23.5			hrs	
Condensate Transfer Pump #3 Run Time	0.0			hrs	
Boiler Feed Pump #1 Run Time	23.5			hrs	
Boiler Feed Pump #2 Run Time	23.5			hrs	
Boiler Feed Pump #3 Run Time	23.5			hrs	
Boiler Feed Pump #4 Run Time	23.5			hrs	
Fuel Oil Pump #1 Run Time	23.5			hrs	
Fuel Oil Pump #2 Run Time	0.0			hrs	
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	263.81	0.00	0.00	klbs
Gas Flow	1.29	300.64	0.00	0.00	kscf
Natural Gas Cost	\$7.89	\$1,846.18	\$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	\$7.89	\$1,846.18	\$0.00	\$0.00	\$
Average Steam Cost	---	\$7.00	---	---	\$/klbs
Efficiency By Losses	76.9	80.8	0.0	0.0	%
Efficiency By I/O		85.9			%

Central State Hospital Heating Plant Day Operations Report

11/3/2018
7:00 AM
Daily Report

Description

Units	Plant	
hdd	0.00	Heating Degree Days
kbs	259.32	Total Plant Steam Flow
kbs/hdd	—	Steam Flow Per Heating Degree Day
kbs	6.5	Total Condensate Return Water Flow
kscf	302.21	Total Plant Gas Flow
\$	\$1,855.78	Total Plant Gas Cost
gals	0.0	Total Plant Oil Flow
\$	\$0.00	Total Plant Oil Cost
\$/hdd	—	Total Plant Fuel Cost
\$/kbs	—	Fuel Cost Per Heating Degree Day
%	84.0	Plant Average Steam Cost Per Degree Day
		Total Plant Efficiency By I/O

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

Units	Boiler 1	Boiler 2	Boiler 3	Boiler 4	
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	259.32	0.00	0.00	kbs
Gas Flow	1.34	300.87	0.00	0.00	kscf
Natural Gas Cost	\$8.22	\$1,847.56	\$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	\$8.22	\$1,847.56	\$0.00	\$0.00	\$
Average Steam Cost	—	\$7.12	—	—	\$/kbs
Efficiency By Losses	73.4	80.6	0.0	0.0	%
Efficiency By I/O		84.4			%

Mid-Atlantic Controls Corporation

Day Report

Page 1 of 1

Central State Hospital Heating Plant Day Operations Report

11/4/2018
7:00 AM
Daily Report

Description

Units										
Heating Degree Days	13.80	Plant								
Total Plant Steam Flow	294.64	kbs								
Steam Flow Per Heating Degree Day	21.3	kbs/hdd								
Total Condensate Return Water Flow	6.6	kbs								
Total Plant Gas Flow	341.75	kscf								
Total Plant Gas Cost	\$2,098.61	\$								
Total Plant Oil Flow	0.0	gals								
Total Plant Oil Cost	\$0.00	\$								
Total Plant Fuel Cost	\$2,098.61	\$								
Fuel Cost Per Heating Degree Day	\$152.05	\$/hdd								
Plant Average Steam Cost Per Degree Day	\$0.52	\$/kbs								
Total Plant Efficiency By I/O	84.4	%								
Condensate Transfer Pump #1 Run Time	0.0	hrs								
Condensate Transfer Pump #2 Run Time	3.1	hrs								
Condensate Transfer Pump #3 Run Time	21.4	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	24.5	hrs								
Fuel Oil Pump #2 Run Time	24.5	hrs								
			Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units			
Run Time	0.3	hrs	24.5	0.0	0.0	0.0				
Steam Flow	0.00	kbs	294.64	0.00	0.00	0.00				
Gas Flow	1.71	kscf	340.04	0.00	0.00	0.00				
Natural Gas Cost	\$10.51	\$	\$2,088.10	\$0.00	\$0.00	\$0.00				
Oil Flow	0.0	gals	0.0	0.0	0.0	0.0				
Oil Cost	\$0.00	\$	\$0.00	\$0.00	\$0.00	\$0.00				
Total Fuel Cost	\$10.51	\$	\$2,088.10	\$0.00	\$0.00	\$0.00				
Average Steam Cost	---	\$/kbs	\$7.09	---	---	---				
Efficiency By Losses	76.5	%	80.0	0.0	0.0	0.0				
Efficiency By I/O	84.9	%								

Mid-Atlantic Controls Corporation

Day Report

Page 1 of 1

Central State Hospital
Heating Plant Day Operations Report

11/5/2018
7:00 AM
Daily Report

Description

Plant									
hdd	16.39								
kbs	276.02								
kbs/hdd	16.8								
kbs	6.2								
kscf	321.67								
\$	\$1,975.31								
gals	0.0								
\$	\$0.00								
\$/hdd	\$120.55								
\$/kbs	\$0.44								
%	84.0								
Heating Degree Days									
Total Plant Steam Flow									
Steam Flow Per Heating Degree Day									
Total Condensate Return Water Flow									
Total Plant Gas Flow									
Total Plant Gas Cost									
Total Plant Oil Flow									
Total Plant Oil Cost									
Total Plant Fuel Cost									
Fuel Cost Per Heating Degree Day									
Plant Average Steam Cost Per Degree Day									
Total Plant Efficiency By I/O									
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	23.5	hrs							
Boiler Feed Pump #2 Run Time	23.5	hrs							
Boiler Feed Pump #3 Run Time	23.5	hrs							
Boiler Feed Pump #4 Run Time	23.5	hrs							
Fuel Oil Pump #1 Run Time	23.5	hrs							
Fuel Oil Pump #2 Run Time	23.5	hrs							
Run Time	0.3	hrs							
Steam Flow	0.00	kbs							
Gas Flow	1.39	kscf							
Natural Gas Cost	\$8.56	\$							
Oil Flow	0.0	gals							
Oil Cost	\$0.00	\$							
Total Fuel Cost	\$8.56	\$							
Average Steam Cost	---	\$/kbs							
Efficiency By Losses	81.2	%							
Efficiency By I/O	84.4	%							

Mid-Atlantic Controls Corporation

Day Report

Page 1 of 1

Page 1 of 1

Central State Hospital
Heating Plant Day Operations Report

11/7/2018
7:00 AM
Daily Report

Description

Plant									
Units	hdd	kbs	kbs/hdd	kbs	ksct	\$	gals	\$	\$/hdd
	2.36	276.47	117.0	6.3	320.69	\$1,969.25	0.0	\$0.00	\$833.26
									\$3.01
									84.4
Total Plant Efficiency By I/O									
Heating Degree Days									
Total Plant Steam Flow									
Steam Flow Per Heating Degree Day									
Total Condensate Return Water Flow									
Total Plant Gas Flow									
Total Plant Gas Cost									
Total Plant Oil Flow									
Total Plant Oil Cost									
Total Plant Fuel Cost									
Fuel Cost Per Heating Degree Day									
Plant Average Steam Cost Per Degree Day									
Total Plant Efficiency By I/O									
Condensate Transfer Pump #1 Run Time									
Condensate Transfer Pump #2 Run Time									
Condensate Transfer Pump #3 Run Time									
Boiler Feed Pump #1 Run Time									
Boiler Feed Pump #2 Run Time									
Boiler Feed Pump #3 Run Time									
Boiler Feed Pump #4 Run Time									
Fuel Oil Pump #1 Run Time									
Fuel Oil Pump #2 Run Time									
Run Time									
Steam Flow									
Gas Flow									
Natural Gas Cost									
Oil Flow									
Oil Cost									
Total Fuel Cost									
Average Steam Cost									
Efficiency By Losses									
Efficiency By I/O									

Mid-Atlantic Controls Corporation

Day Report

Page 1 of 1

Central State Hospital Heating Plant Day Operations Report

11/8/2018
7:00 AM
Daily Report

Description

Units		Plant		
hdd		6.96		
kbs		272.37		
kbs/hdd		39.1		
kbs		6.7		
ksct		316.66		
\$		\$1,944.53		
gals		0.0		
\$		\$0.00		
\$/hdd		\$279.32		
\$/kbs		\$1.03		
%		84.2		
Heating Degree Days				
Total Plant Steam Flow				
Steam Flow Per Heating Degree Day				
Total Condensate Return Water Flow				
Total Plant Gas Flow				
Total Plant Gas Cost				
Total Plant Oil Flow				
Total Plant Oil Cost				
Total Plant Fuel Cost				
Fuel Cost Per Heating Degree Day				
Plant Average Steam Cost Per Degree Day				
Total Plant Efficiency By I/O				
Condensate Transfer Pump #1 Run Time	hrs	2.6		
Condensate Transfer Pump #2 Run Time	hrs	0.0		
Condensate Transfer Pump #3 Run Time	hrs	23.5		
Boiler Feed Pump #1 Run Time	hrs	23.5		
Boiler Feed Pump #2 Run Time	hrs	23.5		
Boiler Feed Pump #3 Run Time	hrs	23.5		
Boiler Feed Pump #4 Run Time	hrs	23.5		
Fuel Oil Pump #1 Run Time	hrs	23.5		
Fuel Oil Pump #2 Run Time	hrs	0.0		
Run Time		0.2	Boiler 1	Boiler 2
Steam Flow	0.00	272.37		
Gas Flow	0.99	315.67		
Natural Gas Cost	\$6.09	\$1,938.44		
Oil Flow	0.0	0.0		
Oil Cost	\$0.00	\$0.00		
Total Fuel Cost	\$6.09	\$1,938.44		
Average Steam Cost	---	\$7.12		
Efficiency By Losses	78.7	80.4		
Efficiency By I/O		84.5		

Mid-Atlantic Controls Corporation

Day Report

Page 1 of 1

Central State Hospital Heating Plant Day Operations Report

11/9/2018
7:00 AM
Daily Report

Description		Day Report									
Units		Plant	Boiler 1	Boiler 2	Boiler 3	Boiler 4					
Heating Degree Days	hdd	11.40									
Total Plant Steam Flow	kibs	285.22									
Steam Flow Per Heating Degree Day	kibs/hdd	25.0									
Total Condensate Return Water Flow	kibs	5.9									
Total Plant Gas Flow	kscf	331.67									
Total Plant Gas Cost	\$	\$2,036.71									
Total Plant Oil Flow	gals	0.0									
Total Plant Oil Cost	\$	\$0.00									
Total Plant Fuel Cost	\$	\$2,036.71									
Fuel Cost Per Heating Degree Day	\$/hdd	\$178.69									
Plant Average Steam Cost Per Degree Day	\$/kibs	\$0.63									
Total Plant Efficiency By I/O	%	84.2									
Condensate Transfer Pump #1 Run Time	hrs	4.7									
Condensate Transfer Pump #2 Run Time	hrs	0.0									
Condensate Transfer Pump #3 Run Time	hrs	23.5									
Boiler Feed Pump #1 Run Time	hrs	23.5									
Boiler Feed Pump #2 Run Time	hrs	23.5									
Boiler Feed Pump #3 Run Time	hrs	23.5									
Boiler Feed Pump #4 Run Time	hrs	23.5									
Fuel Oil Pump #1 Run Time	hrs	23.5									
Fuel Oil Pump #2 Run Time	hrs	0.0									
Run Time	hrs	0.3									
Steam Flow	kibs	0.00									
Gas Flow	kscf	1.63									
Natural Gas Cost	\$	\$10.03									
Oil Flow	gals	0.0									
Oil Cost	\$	\$0.00									
Total Fuel Cost	\$	\$10.03									
Average Steam Cost	\$/kibs	---									
Efficiency By Losses	%	78.3									
Efficiency By I/O	%	84.6									

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Central State Hospital Heating Plant Day Operations Report

11/11/2018

7:00 AM

Daily Report

Description

Units		Plant			
hdd		23.86			Heating Degree Days
kbs		307.68			Total Plant Steam Flow
kbs/hdd		12.9			Steam Flow Per Heating Degree Day
kbs		6.3			Total Condensate Return Water Flow
kbs		354.05			Total Plant Gas Flow
kscf		\$2,174.14			Total Plant Gas Cost
\$		0.0			Total Plant Oil Flow
gals		\$0.00			Total Plant Oil Cost
\$		\$2,174.14			Total Plant Fuel Cost
\$/hdd		\$91.11			Fuel Cost Per Heating Degree Day
\$/kbs		\$0.30			Plant Average Steam Cost Per Degree Day
%		85.1			Total Plant Efficiency By I/O
hrs		21.1			Condensate Transfer Pump #1 Run Time
hrs		5.1			Condensate Transfer Pump #2 Run Time
hrs		3.6			Condensate Transfer Pump #3 Run Time
hrs		23.5			Boiler Feed Pump #1 Run Time
hrs		23.5			Boiler Feed Pump #2 Run Time
hrs		23.5			Boiler Feed Pump #3 Run Time
hrs		23.5			Boiler Feed Pump #4 Run Time
hrs		23.5			Fuel Oil Pump #1 Run Time
hrs		23.5			Fuel Oil Pump #2 Run Time
Units			Boiler 1	Boiler 2	Boiler 3
hrs		0.0	0.3	23.5	0.0
kbs		0.00	307.68	307.68	0.00
kscf		1.35	352.70	0.00	0.00
\$		\$8.31	\$2,165.83	\$0.00	\$0.00
gals		0.0	0.0	0.0	0.0
\$		\$0.00	\$0.00	\$0.00	\$0.00
Oil Cost		\$0.00	\$0.00	\$0.00	\$0.00
Total Fuel Cost		\$8.31	\$2,165.83	\$0.00	\$0.00
Average Steam Cost		---	\$7.04	---	---
Efficiency By Losses		73.0	79.6	0.0	0.0
Efficiency By I/O			85.4		

Mid-Atlantic Controls Corporation

Day Report

Page 1 of 1

Central State Hospital
Heating Plant Day Operations Report

11/12/2018

7:00 AM

Daily Report

Description

Units	Plant	
hdd	28.32	Heating Degree Days
kilbs	325.63	Total Plant Steam Flow
kilbs/hdd	11.5	Steam Flow Per Heating Degree Day
kilbs	6.0	Total Condensate Return Water Flow
ksct	374.45	Total Plant Gas Flow
\$	\$2,299.43	Total Plant Gas Cost
gals	0.0	Total Plant Oil Flow
\$	\$0.00	Total Plant Oil Cost
\$/hdd	\$81.20	Fuel Cost Per Heating Degree Day
\$/kilbs	\$0.25	Plant Average Steam Cost Per Degree Day
%	85.2	Total Plant Efficiency By I/O
hrs	23.5	Condensate Transfer Pump #1 Run Time
hrs	6.8	Condensate Transfer Pump #2 Run Time
hrs	0.0	Condensate Transfer Pump #3 Run Time
hrs	23.5	Boiler Feed Pump #1 Run Time
hrs	23.5	Boiler Feed Pump #2 Run Time
hrs	23.5	Boiler Feed Pump #3 Run Time
hrs	23.5	Boiler Feed Pump #4 Run Time
hrs	23.5	Fuel Oil Pump #1 Run Time
hrs	23.5	Fuel Oil Pump #2 Run Time
Units	Boiler 1	Boiler 2
Run Time	0.3	23.5
Steam Flow	0.00	325.63
Gas Flow	1.66	372.79
Natural Gas Cost	\$10.22	\$2,289.21
Oil Flow	0.0	0.0
Oil Cost	\$0.00	\$0.00
Total Fuel Cost	\$10.22	\$2,289.21
Average Steam Cost	---	\$7.03
Efficiency By Losses	79.3	79.6
Efficiency By I/O		85.5

Mid-Atlantic Controls Corporation

Day Report

Page 1 of 1

Central State Hospital Heating Plant Day Operations Report

11/13/2018

7:00 AM

Daily Report

Description

Units	Plant	
hdd	25.68	Heating Degree Days
kbs	320.17	Total Plant Steam Flow
kbs/hdd	12.5	Steam Flow Per Heating Degree Day
kbs	6.2	Total Condensate Return Water Flow
kscf	371.74	Total Plant Gas Flow
\$	\$2,282.77	Total Plant Gas Cost
gals	0.0	Total Plant Oil Flow
\$	\$0.00	Total Plant Oil Cost
\$/hdd	\$88.90	Total Plant Fuel Cost
\$/kbs	\$0.28	Plant Average Steam Cost Per Degree Day
%	84.3	Total Plant Efficiency By I/O

hrs	23.5	Condensate Transfer Pump #1 Run Time
hrs	7.0	Condensate Transfer Pump #2 Run Time
hrs	0.0	Condensate Transfer Pump #3 Run Time
hrs	23.5	Boiler Feed Pump #1 Run Time
hrs	23.5	Boiler Feed Pump #2 Run Time
hrs	23.5	Boiler Feed Pump #3 Run Time
hrs	23.5	Boiler Feed Pump #4 Run Time
hrs	23.5	Fuel Oil Pump #1 Run Time
hrs	23.5	Fuel Oil Pump #2 Run Time

Units	Boiler 1	Boiler 2	Boiler 3	Boiler 4
Run Time	0.7	23.5	0.0	0.0
Steam Flow	0.03	320.14	0.00	0.00
Gas Flow	4.44	367.30	0.00	0.00
Natural Gas Cost	\$27.25	\$2,255.52	\$0.00	\$0.00
Oil Flow	0.0	0.0	0.0	0.0
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00
Total Fuel Cost	\$27.25	\$2,255.52	\$0.00	\$0.00
Average Steam Cost	\$785.25	\$7.05	--	--
Efficiency By Losses	0.0	79.9	0.0	0.0
Efficiency By I/O		85.4		

Mid-Atlantic Controls Corporation

Day Report

Page 1 of 1

Central State Hospital
Heating Plant Day Operations Report

11/14/2018

7:00 AM

Daily Report

Description

Units		Plant		
hdd		17.27		
kilbs		351.09		
kilbs/hdd		20.3		
kilbs		5.9		
kscf		402.76		
\$		\$2,473.26		
gals		0.0		
\$		\$0.00		
\$/hdd		\$143.21		
\$/kilbs		\$0.41		
%		85.4		
Heating Degree Days				
Total Plant Steam Flow				
Steam Flow Per Heating Degree Day				
Total Condensate Return Water Flow				
Total Plant Gas Flow				
Total Plant Gas Cost				
Total Plant Oil Flow				
Total Plant Oil Cost				
Total Plant Fuel Cost				
Fuel Cost Per Heating Degree Day				
Plant Average Steam Cost Per Degree Day				
Total Plant Efficiency By I/O				
Condensate Transfer Pump #1 Run Time	hrs	23.5		
Condensate Transfer Pump #2 Run Time	hrs	7.4		
Condensate Transfer Pump #3 Run Time	hrs	0.0		
Boiler Feed Pump #1 Run Time	hrs	23.5		
Boiler Feed Pump #2 Run Time	hrs	23.5		
Boiler Feed Pump #3 Run Time	hrs	23.5		
Boiler Feed Pump #4 Run Time	hrs	23.5		
Fuel Oil Pump #1 Run Time	hrs	23.5		
Fuel Oil Pump #2 Run Time	hrs	23.5		
Run Time	hrs	0.0	Boiler 1	Boiler 2
Steam Flow	kilbs	0.00	351.09	0.00
Gas Flow	kscf	0.00	402.76	0.00
Natural Gas Cost	\$	\$0.00	\$2,473.26	\$0.00
Oil Flow	gals	0.0	0.0	0.0
Oil Cost	\$	\$0.00	\$0.00	\$0.00
Total Fuel Cost	\$	\$0.00	\$2,473.26	\$0.00
Average Steam Cost	\$/kilbs	---	\$7.04	---
Efficiency By Losses	%	0.0	79.5	0.0
Efficiency By I/O	%	0.0	85.4	

Mid-Atlantic Controls Corporation

Day Report

Page 1 of 1

Central State Hospital
Heating Plant Day Operations Report

11/15/2018
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	23.76	hdd			
Total Plant Steam Flow	372.53	klbs			
Steam Flow Per Heating Degree Day	15.7	klbs/hdd			
Total Condensate Return Water Flow	6.3	klbs			
Total Plant Gas Flow	429.05	kscf			
Total Plant Gas Cost	\$2,634.66	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$2,634.66	\$			
Fuel Cost Per Heating Degree Day	\$110.89	\$/hdd			
Plant Average Steam Cost Per Degree Day	\$0.30	\$/klbs			
Total Plant Efficiency By I/O	85.0	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	7.6	hrs			
Condensate Transfer Pump #3 Run Time	0.0	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	372.53	0.00	0.00	klbs
Gas Flow	1.63	427.42	0.00	0.00	kscf
Natural Gas Cost	\$9.99	\$2,624.66	\$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	\$9.99	\$2,624.66	\$0.00	\$0.00	\$
Average Steam Cost	---	\$7.05	---	---	\$/klbs
Efficiency By Losses	75.8	79.2	0.0	0.0	%
Efficiency By I/O		85.4			%

Central State Hospital
Heating Plant Day Operations Report

11/16/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	26.47	hdd
Total Plant Steam Flow	399.09	klbs
Steam Flow Per Heating Degree Day	15.1	klbs/hdd
Total Condensate Return Water Flow	5.2	klbs
Total Plant Gas Flow	457.69	kscf
Total Plant Gas Cost	\$2,810.59	\$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	\$0.00	\$
Total Plant Fuel Cost	\$2,810.59	\$
Fuel Cost Per Heating Degree Day	\$106.20	\$/hdd
Plant Average Steam Cost Per Degree Day	\$0.27	\$/klbs
Total Plant Efficiency By I/O	85.4	%

Condensate Transfer Pump #1 Run Time	23.5	hrs
Condensate Transfer Pump #2 Run Time	7.6	hrs
Condensate Transfer Pump #3 Run Time	0.0	hrs
Boiler Feed Pump #1 Run Time	23.5	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #4 Run Time	23.5	hrs
Fuel Oil Pump #1 Run Time	23.5	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	399.09	0.00	0.00	klbs
Gas Flow	1.69	456.00	0.00	0.00	kscf
Natural Gas Cost	\$10.38	\$2,800.21	\$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	\$10.38	\$2,800.21	\$0.00	\$0.00	\$
Average Steam Cost	---	\$7.02	---	---	\$/klbs
Efficiency By Losses	84.2	79.5	0.0	0.0	%
Efficiency By I/O		85.7			%

Central State Hospital
Heating Plant Day Operations Report

11/17/2018
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	23.27	hdd			
Total Plant Steam Flow	377.71	klbs			
Steam Flow Per Heating Degree Day	16.2	klbs/hdd			
Total Condensate Return Water Flow	4.7	klbs			
Total Plant Gas Flow	433.01	kscf			
Total Plant Gas Cost	\$2,659.03	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$2,659.03	\$			
Fuel Cost Per Heating Degree Day	\$114.25	\$/hdd			
Plant Average Steam Cost Per Degree Day	\$0.30	\$/klbs			
Total Plant Efficiency By I/O	85.4	%			
Condensate Transfer Pump #1 Run Time	23.5	hrs			
Condensate Transfer Pump #2 Run Time	7.7	hrs			
Condensate Transfer Pump #3 Run Time	0.0	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	377.71	0.00	0.00	klbs
Gas Flow	1.69	431.32	0.00	0.00	kscf
Natural Gas Cost	\$10.40	\$2,648.64	\$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	\$10.40	\$2,648.64	\$0.00	\$0.00	\$
Average Steam Cost	---	\$7.01	---	---	\$/klbs
Efficiency By Losses	82.4	79.3	0.0	0.0	%
Efficiency By I/O		85.8			%

Central State Hospital
Heating Plant Day Operations Report

11/18/2018
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	24.99				hdd
Total Plant Steam Flow	353.39				klbs
Steam Flow Per Heating Degree Day	14.1				klbs/hdd
Total Condensate Return Water Flow	5.7				klbs
Total Plant Gas Flow	403.64				kscf
Total Plant Gas Cost	\$2,478.62				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$2,478.62				\$
Fuel Cost Per Heating Degree Day	\$99.17				\$/hdd
Plant Average Steam Cost Per Degree Day	\$0.28				\$/klbs
Total Plant Efficiency By I/O	85.7				%
Condensate Transfer Pump #1 Run Time	5.2				hrs
Condensate Transfer Pump #2 Run Time	20.0				hrs
Condensate Transfer Pump #3 Run Time	0.0				hrs
Boiler Feed Pump #1 Run Time	23.5				hrs
Boiler Feed Pump #2 Run Time	23.5				hrs
Boiler Feed Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #4 Run Time	23.5				hrs
Fuel Oil Pump #1 Run Time	23.5				hrs
Fuel Oil Pump #2 Run Time	0.0				hrs
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	353.39	0.00	0.00	klbs
Gas Flow	1.33	402.31	0.00	0.00	kscf
Natural Gas Cost	\$8.17	\$2,470.46	\$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	\$8.17	\$2,470.46	\$0.00	\$0.00	\$
Average Steam Cost	---	\$6.99	---	---	\$/klbs
Efficiency By Losses	82.0	79.4	0.0	0.0	%
Efficiency By I/O		86.0			%

Central State Hospital
Heating Plant Day Operations Report

11/19/2018
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	23.50	hdd			
Total Plant Steam Flow	347.35	klbs			
Steam Flow Per Heating Degree Day	14.8	klbs/hdd			
Total Condensate Return Water Flow	5.3	klbs			
Total Plant Gas Flow	397.94	kscf			
Total Plant Gas Cost	\$2,443.62	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$2,443.62	\$			
Fuel Cost Per Heating Degree Day	\$103.97	\$/hdd			
Plant Average Steam Cost Per Degree Day	\$0.30	\$/klbs			
Total Plant Efficiency By I/O	85.5	%			
Condensate Transfer Pump #1 Run Time	0.0	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	0.0	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	347.35	0.00	0.00	klbs
Gas Flow	1.32	396.62	0.00	0.00	kscf
Natural Gas Cost	\$8.10	\$2,435.52	\$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	\$8.10	\$2,435.52	\$0.00	\$0.00	\$
Average Steam Cost	---	\$7.01	---	---	\$/klbs
Efficiency By Losses	76.9	79.5	0.0	0.0	%
Efficiency By I/O		85.8			%

Central State Hospital
Heating Plant Day Operations Report

11/20/2018
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	18.85	hdd			
Total Plant Steam Flow	332.89	klbs			
Steam Flow Per Heating Degree Day	17.7	klbs/hdd			
Total Condensate Return Water Flow	4.5	klbs			
Total Plant Gas Flow	382.68	kscf			
Total Plant Gas Cost	\$2,349.95	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$2,349.95	\$			
Fuel Cost Per Heating Degree Day	\$124.69	\$/hdd			
Plant Average Steam Cost Per Degree Day	\$0.37	\$/klbs			
Total Plant Efficiency By I/O	85.2	%			
Condensate Transfer Pump #1 Run Time	0.0	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	0.0	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	332.89	0.00	0.00	klbs
Gas Flow	1.33	381.35	0.00	0.00	kscf
Natural Gas Cost	\$8.15	\$2,341.80	\$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	\$8.15	\$2,341.80	\$0.00	\$0.00	\$
Average Steam Cost	---	\$7.03	---	---	\$/klbs
Efficiency By Losses	80.5	80.0	0.0	0.0	%
Efficiency By I/O		85.5			%

Central State Hospital
Heating Plant Day Operations Report

11/21/2018
7:00 AM
Daily Report

Description

	Plant			Units	
Heating Degree Days	17.76			hdd	
Total Plant Steam Flow	335.24			klbs	
Steam Flow Per Heating Degree Day	18.9			klbs/hdd	
Total Condensate Return Water Flow	4.8			klbs	
Total Plant Gas Flow	385.48			kscf	
Total Plant Gas Cost	\$2,367.11			\$	
Total Plant Oil Flow	0.0			gals	
Total Plant Oil Cost	\$0.00			\$	
Total Plant Fuel Cost	\$2,367.11			\$	
Fuel Cost Per Heating Degree Day	\$133.26			\$/hdd	
Plant Average Steam Cost Per Degree Day	\$0.40			\$/klbs	
Total Plant Efficiency By I/O	85.2			%	
Condensate Transfer Pump #1 Run Time	0.0			hrs	
Condensate Transfer Pump #2 Run Time	23.5			hrs	
Condensate Transfer Pump #3 Run Time	0.0			hrs	
Boiler Feed Pump #1 Run Time	23.5			hrs	
Boiler Feed Pump #2 Run Time	23.5			hrs	
Boiler Feed Pump #3 Run Time	23.5			hrs	
Boiler Feed Pump #4 Run Time	23.5			hrs	
Fuel Oil Pump #1 Run Time	23.5			hrs	
Fuel Oil Pump #2 Run Time	0.0			hrs	
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	335.24	0.00	0.00	klbs
Gas Flow	1.63	383.85	0.00	0.00	kscf
Natural Gas Cost	\$9.98	\$2,357.13	\$0.00	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$9.98	\$2,357.13	\$0.00	\$0.00	\$
Average Steam Cost	---	\$7.03	---	---	\$/klbs
Efficiency By Losses	77.0	79.6	0.0	0.0	%
Efficiency By I/O		85.5			%

Central State Hospital
Heating Plant Day Operations Report

11/22/2018
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	24.73				hdd
Total Plant Steam Flow	359.20				klbs
Steam Flow Per Heating Degree Day	14.5				klbs/hdd
Total Condensate Return Water Flow	5.0				klbs
Total Plant Gas Flow	410.28				kscf
Total Plant Gas Cost	\$2,519.42				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$2,519.42				\$
Fuel Cost Per Heating Degree Day	\$101.89				\$/hdd
Plant Average Steam Cost Per Degree Day	\$0.28				\$/klbs
Total Plant Efficiency By I/O	85.7				%
Condensate Transfer Pump #1 Run Time	0.0				hrs
Condensate Transfer Pump #2 Run Time	23.5				hrs
Condensate Transfer Pump #3 Run Time	0.0				hrs
Boiler Feed Pump #1 Run Time	23.5				hrs
Boiler Feed Pump #2 Run Time	23.5				hrs
Boiler Feed Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #4 Run Time	23.5				hrs
Fuel Oil Pump #1 Run Time	23.5				hrs
Fuel Oil Pump #2 Run Time	0.0				hrs
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	359.20	0.00	0.00	klbs
Gas Flow	1.67	408.61	0.00	0.00	kscf
Natural Gas Cost	\$10.28	\$2,509.14	\$0.00	\$0.00	\$
Oil Flow	0.0	0.0	0.0	0.0	gals
Oil Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$
Total Fuel Cost	\$10.28	\$2,509.14	\$0.00	\$0.00	\$
Average Steam Cost	---	\$6.99	---	---	\$/klbs
Efficiency By Losses	76.4	79.4	0.0	0.0	%
Efficiency By I/O		86.1			%

Central State Hospital
Heating Plant Day Operations Report

11/23/2018
7:00 AM
Daily Report

Description

	Plant			Units	
Heating Degree Days	29.20			hdd	
Total Plant Steam Flow	379.46			klbs	
Steam Flow Per Heating Degree Day	13.0			klbs/hdd	
Total Condensate Return Water Flow	5.3			klbs	
Total Plant Gas Flow	432.96			kscf	
Total Plant Gas Cost	\$2,658.69			\$	
Total Plant Oil Flow	0.0			gals	
Total Plant Oil Cost	\$0.00			\$	
Total Plant Fuel Cost	\$2,658.69			\$	
Fuel Cost Per Heating Degree Day	\$91.04			\$/hdd	
Plant Average Steam Cost Per Degree Day	\$0.24			\$/klbs	
Total Plant Efficiency By I/O	85.8			%	
Condensate Transfer Pump #1 Run Time	0.0			hrs	
Condensate Transfer Pump #2 Run Time	23.5			hrs	
Condensate Transfer Pump #3 Run Time	0.0			hrs	
Boiler Feed Pump #1 Run Time	23.5			hrs	
Boiler Feed Pump #2 Run Time	23.5			hrs	
Boiler Feed Pump #3 Run Time	23.5			hrs	
Boiler Feed Pump #4 Run Time	23.5			hrs	
Fuel Oil Pump #1 Run Time	23.5			hrs	
Fuel Oil Pump #2 Run Time	0.0			hrs	
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	379.46	0.00	0.00	klbs
Gas Flow	1.77	431.19	0.00	0.00	kscf
Natural Gas Cost	\$10.87	\$2,647.82	\$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	\$10.87	\$2,647.82	\$0.00	\$0.00	\$
Average Steam Cost	---	\$6.98	---	---	\$/klbs
Efficiency By Losses	79.3	79.1	0.0	0.0	%
Efficiency By I/O		86.2			%

Central State Hospital
Heating Plant Day Operations Report

11/24/2018
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	33.16	hdd			
Total Plant Steam Flow	391.32	klbs			
Steam Flow Per Heating Degree Day	11.8	klbs/hdd			
Total Condensate Return Water Flow	5.1	klbs			
Total Plant Gas Flow	454.50	kscf			
Total Plant Gas Cost	\$2,790.98	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$2,790.98	\$			
Fuel Cost Per Heating Degree Day	\$84.16	\$/hdd			
Plant Average Steam Cost Per Degree Day	\$0.22	\$/klbs			
Total Plant Efficiency By I/O	84.3	%			
Condensate Transfer Pump #1 Run Time	0.0	hrs			
Condensate Transfer Pump #2 Run Time	23.5	hrs			
Condensate Transfer Pump #3 Run Time	0.0	hrs			
Boiler Feed Pump #1 Run Time	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	391.32	0.00	0.00	klbs
Gas Flow	1.70	452.80	0.00	0.00	kscf
Natural Gas Cost	\$10.46	\$2,780.52	\$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	\$10.46	\$2,780.52	\$0.00	\$0.00	\$
Average Steam Cost	---	\$7.11	---	---	\$/klbs
Efficiency By Losses	81.8	79.2	0.0	0.0	%
Efficiency By I/O		84.6			%

11/25/2018
7:00 AM
Daily Report

	Plant	Units
Heating Degree Days	26.35	hdd
Total Plant Steam Flow	370.67	klbs
Steam Flow Per Heating Degree Day	14.1	klbs/hdd
Total Condensate Return Water Flow	5.4	klbs
Total Plant Gas Flow	452.52	kscf
Total Plant Gas Cost	\$2,778.82	\$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	\$0.00	\$
Total Plant Fuel Cost	\$2,778.82	\$
Fuel Cost Per Heating Degree Day	\$105.45	\$/hdd
Plant Average Steam Cost Per Degree Day	\$0.28	\$/klbs
Total Plant Efficiency By I/O	80.2	%

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	370.67	0.00	0.00	klbs
Gas Flow	1.81	450.72	0.00	0.00	kscf
Natural Gas Cost	\$11.09	\$2,767.73	\$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	\$11.09	\$2,767.73	\$0.00	\$0.00	\$
Average Steam Cost	---	\$7.47	---	---	\$/klbs
Efficiency By Losses	73.4	79.3	0.0	0.0	%
Efficiency By I/O		80.5			%

Central State Hospital
Heating Plant Day Operations Report

11/26/2018
7:00 AM
Daily Report

Description

	Plant	Units
Heating Degree Days	18.42	hdd
Total Plant Steam Flow	338.71	klbs
Steam Flow Per Heating Degree Day	18.4	klbs/hdd
Total Condensate Return Water Flow	5.3	klbs
Total Plant Gas Flow	399.18	kscf
Total Plant Gas Cost	\$2,451.25	\$
Total Plant Oil Flow	0.0	gals
Total Plant Oil Cost	\$0.00	\$
Total Plant Fuel Cost	\$2,451.25	\$
Fuel Cost Per Heating Degree Day	\$133.08	\$/hdd
Plant Average Steam Cost Per Degree Day	\$0.39	\$/klbs
Total Plant Efficiency By I/O	83.1	%

Condensate Transfer Pump #1 Run Time	6.9	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	23.5	hrs
Boiler Feed Pump #2 Run Time	23.5	hrs
Boiler Feed Pump #3 Run Time	23.5	hrs
Boiler Feed Pump #4 Run Time	23.5	hrs
Fuel Oil Pump #1 Run Time	23.5	hrs
Fuel Oil Pump #2 Run Time	0.0	hrs

	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.2	23.5	0.0	0.0	hrs
Steam Flow	0.00	338.71	0.00	0.00	klbs
Gas Flow	1.29	397.89	0.00	0.00	kscf
Natural Gas Cost	\$7.92	\$2,443.33	\$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	\$7.92	\$2,443.33	\$0.00	\$0.00	\$
Average Steam Cost	---	\$7.21	---	---	\$/klbs
Efficiency By Losses	79.3	79.6	0.0	0.0	%
Efficiency By I/O		83.4			%

Central State Hospital
Heating Plant Day Operations Report

11/27/2018
7:00 AM
Daily Report

Description

	Plant			Units	
Heating Degree Days	16.83			hdd	
Total Plant Steam Flow	371.86			klbs	
Steam Flow Per Heating Degree Day	22.1			klbs/hdd	
Total Condensate Return Water Flow	5.0			klbs	
Total Plant Gas Flow	430.61			kscf	
Total Plant Gas Cost	\$2,644.25			\$	
Total Plant Oil Flow	0.0			gals	
Total Plant Oil Cost	\$0.00			\$	
Total Plant Fuel Cost	\$2,644.25			\$	
Fuel Cost Per Heating Degree Day	\$157.09			\$/hdd	
Plant Average Steam Cost Per Degree Day	\$0.42			\$/klbs	
Total Plant Efficiency By I/O	84.6			%	
Condensate Transfer Pump #1 Run Time	6.3			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	23.5			hrs	
Boiler Feed Pump #2 Run Time	23.5			hrs	
Boiler Feed Pump #3 Run Time	23.5			hrs	
Boiler Feed Pump #4 Run Time	23.5			hrs	
Fuel Oil Pump #1 Run Time	23.5			hrs	
Fuel Oil Pump #2 Run Time	0.0			hrs	
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.4	23.5	0.0	0.0	hrs
Steam Flow	0.00	371.86	0.00	0.00	klbs
Gas Flow	2.02	428.59	0.00	0.00	kscf
Natural Gas Cost	\$12.41	\$2,631.84	\$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	\$12.41	\$2,631.84	\$0.00	\$0.00	\$
Average Steam Cost	—	\$7.08	—	—	\$/klbs
Efficiency By Losses	79.0	79.5	0.0	0.0	%
Efficiency By I/O		85.0			%

Central State Hospital
Heating Plant Day Operations Report

11/28/2018
7:00 AM
Daily Report

Description

	Plant				Units
Heating Degree Days	27.45				hdd
Total Plant Steam Flow	394.42				klbs
Steam Flow Per Heating Degree Day	14.4				klbs/hdd
Total Condensate Return Water Flow	5.4				klbs
Total Plant Gas Flow	450.58				kscf
Total Plant Gas Cost	\$2,766.91				\$
Total Plant Oil Flow	0.0				gals
Total Plant Oil Cost	\$0.00				\$
Total Plant Fuel Cost	\$2,766.91				\$
Fuel Cost Per Heating Degree Day	\$100.78				\$/hdd
Plant Average Steam Cost Per Degree Day	\$0.26				\$/klbs
Total Plant Efficiency By I/O	85.7				%
Condensate Transfer Pump #1 Run Time	7.0				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	23.5				hrs
Boiler Feed Pump #2 Run Time	23.5				hrs
Boiler Feed Pump #3 Run Time	23.5				hrs
Boiler Feed Pump #4 Run Time	23.5				hrs
Fuel Oil Pump #1 Run Time	23.5				hrs
Fuel Oil Pump #2 Run Time	0.0				hrs
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	394.42	0.00	0.00	klbs
Gas Flow	1.73	448.86	0.00	0.00	kscf
Natural Gas Cost	\$10.60	\$2,756.31	\$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	\$10.60	\$2,756.31	\$0.00	\$0.00	\$
Average Steam Cost	---	\$6.99	---	---	\$/klbs
Efficiency By Losses	78.4	79.4	0.0	0.0	%
Efficiency By I/O		86.1			%

Central State Hospital
Heating Plant Day Operations Report

11/29/2018
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	32.46	hdd			
Total Plant Steam Flow	414.56	klbs			
Steam Flow Per Heating Degree Day	12.8	klbs/hdd			
Total Condensate Return Water Flow	4.6	klbs			
Total Plant Gas Flow	477.40	kscf			
Total Plant Gas Cost	\$2,931.62	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$2,931.62	\$			
Fuel Cost Per Heating Degree Day	\$90.31	\$/hdd			
Plant Average Steam Cost Per Degree Day	\$0.22	\$/klbs			
Total Plant Efficiency By I/O	85.0	%			
Condensate Transfer Pump #1 Run Time	7.6	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	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.4	23.5	0.0	0.0	hrs
Steam Flow	0.00	414.56	0.00	0.00	klbs
Gas Flow	2.04	475.37	0.00	0.00	kscf
Natural Gas Cost	\$12.53	\$2,919.10	\$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	\$12.53	\$2,919.10	\$0.00	\$0.00	\$
Average Steam Cost	—	\$7.04	—	—	\$/klbs
Efficiency By Losses	76.0	79.3	0.0	0.0	%
Efficiency By I/O		85.4			%

Central State Hospital
Heating Plant Day Operations Report

11/30/2018
7:00 AM
Daily Report

Description

	Plant	Units			
Heating Degree Days	31.99	hdd			
Total Plant Steam Flow	398.21	klbs			
Steam Flow Per Heating Degree Day	12.4	klbs/hdd			
Total Condensate Return Water Flow	4.3	klbs			
Total Plant Gas Flow	459.14	kscf			
Total Plant Gas Cost	\$2,819.48	\$			
Total Plant Oil Flow	0.0	gals			
Total Plant Oil Cost	\$0.00	\$			
Total Plant Fuel Cost	\$2,819.48	\$			
Fuel Cost Per Heating Degree Day	\$88.15	\$/hdd			
Plant Average Steam Cost Per Degree Day	\$0.22	\$/klbs			
Total Plant Efficiency By I/O	84.9	%			
Condensate Transfer Pump #1 Run Time	7.0	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	23.5	hrs			
Boiler Feed Pump #2 Run Time	23.5	hrs			
Boiler Feed Pump #3 Run Time	23.5	hrs			
Boiler Feed Pump #4 Run Time	23.5	hrs			
Fuel Oil Pump #1 Run Time	23.5	hrs			
Fuel Oil Pump #2 Run Time	0.0	hrs			
	Boiler 1	Boiler 2	Boiler 3	Boiler 4	Units
Run Time	0.3	23.5	0.0	0.0	hrs
Steam Flow	0.00	398.21	0.00	0.00	klbs
Gas Flow	1.32	457.82	0.00	0.00	kscf
Natural Gas Cost	\$8.12	\$2,811.35	\$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	\$8.12	\$2,811.35	\$0.00	\$0.00	\$
Average Steam Cost	—	\$7.06	—	—	\$/klbs
Efficiency By Losses	65.9	79.4	0.0	0.0	%
Efficiency By I/O		85.2			%