

Central State Hospital
Heating Plant Day Operations Report

10/1/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|----------|----------|----------|---------|
| Heating Degree Days | 0.00 | hdd | | | |
| Total Plant Steam Flow | 137.35 | klbs | | | |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd | | | |
| Total Condensate Return Water Flow | 8.4 | klbs | | | |
| Total Plant Gas Flow | 174.75 | kscf | | | |
| Total Plant Gas Cost | \$1,073.10 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$1,073.10 | \$ | | | |
| Fuel Cost Per Heating Degree Day | --- | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | --- | \$/klbs | | | |
| Total Plant Efficiency By I/O | 77.0 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 5.5 | 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 | 23.5 | hrs | | | |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs | | | |
| | | | | | |
| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Run Time | 23.5 | 0.7 | 0.0 | 0.0 | hrs |
| Steam Flow | 137.35 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 171.27 | 3.48 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$1,051.71 | \$21.39 | \$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 | \$1,051.71 | \$21.39 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$7.66 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 81.5 | 71.5 | 0.0 | 0.0 | % |
| Efficiency By I/O | 78.5 | | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/2/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|----------|----------|----------|---------|
| Heating Degree Days | 0.00 | hdd | | | |
| Total Plant Steam Flow | 153.48 | klbs | | | |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd | | | |
| Total Condensate Return Water Flow | 7.8 | klbs | | | |
| Total Plant Gas Flow | 187.27 | kscf | | | |
| Total Plant Gas Cost | \$1,150.00 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$1,150.00 | \$ | | | |
| Fuel Cost Per Heating Degree Day | --- | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | --- | \$/klbs | | | |
| Total Plant Efficiency By I/O | 80.3 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 22.6 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 1.8 | 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 | | | |
| | 0.0 | hrs | | | |
| | | | | | |
| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Run Time | 23.5 | 0.7 | 0.0 | 0.0 | hrs |
| Steam Flow | 153.48 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 183.93 | 3.34 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$1,129.46 | \$20.53 | \$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 | \$1,129.46 | \$20.53 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$7.36 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 81.6 | 71.8 | 0.0 | 0.0 | % |
| Efficiency By I/O | 81.7 | | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/3/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|----------|----------|----------|---------|
| Heating Degree Days | 0.00 | hdd | | | |
| Total Plant Steam Flow | 149.19 | klbs | | | |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd | | | |
| Total Condensate Return Water Flow | 7.9 | klbs | | | |
| Total Plant Gas Flow | 179.63 | kscf | | | |
| Total Plant Gas Cost | \$1,103.06 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$1,103.06 | \$ | | | |
| Fuel Cost Per Heating Degree Day | --- | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | --- | \$/klbs | | | |
| Total Plant Efficiency By I/O | 81.3 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 13.0 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 0.5 | hrs | | | |
| Condensate Transfer Pump #3 Run Time | 23.5 | hrs | | | |
| Boiler Feed Pump #1 Run Time | 23.5 | hrs | | | |
| Boiler Feed Pump #2 Run Time | 23.5 | hrs | | | |
| Boiler Feed Pump #3 Run Time | 23.5 | hrs | | | |
| Boiler Feed Pump #4 Run Time | 23.5 | hrs | | | |
| Fuel Oil Pump #1 Run Time | 23.5 | hrs | | | |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs | | | |
| | | | | | |
| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Run Time | 23.5 | 0.6 | 0.0 | 0.0 | hrs |
| Steam Flow | 149.19 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 176.60 | 3.03 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$1,084.44 | \$18.62 | \$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 | \$1,084.44 | \$18.62 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$7.27 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 81.6 | 75.4 | 0.0 | 0.0 | % |
| Efficiency By I/O | 82.7 | | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/4/2018
7:00 AM
Daily Report

Description

| | | | | | |
|---|------------|----------|----------|----------|---------|
| | Plant | Units | | | |
| Heating Degree Days | 0.00 | hdd | | | |
| Total Plant Steam Flow | 161.35 | klbs | | | |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd | | | |
| Total Condensate Return Water Flow | 7.4 | klbs | | | |
| Total Plant Gas Flow | 191.13 | kscf | | | |
| Total Plant Gas Cost | \$1,173.70 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$1,173.70 | \$ | | | |
| 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 | 13.9 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 0.8 | hrs | | | |
| Condensate Transfer Pump #3 Run Time | 23.5 | hrs | | | |
| Boiler Feed Pump #1 Run Time | 23.5 | hrs | | | |
| Boiler Feed Pump #2 Run Time | 23.5 | hrs | | | |
| Boiler Feed Pump #3 Run Time | 23.5 | hrs | | | |
| Boiler Feed Pump #4 Run Time | 23.5 | hrs | | | |
| Fuel Oil Pump #1 Run Time | 23.5 | hrs | | | |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs | | | |
| | | | | | |
| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Run Time | 23.5 | 0.6 | 0.0 | 0.0 | hrs |
| Steam Flow | 161.35 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 188.16 | 2.97 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$1,155.44 | \$18.25 | \$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 | \$1,155.44 | \$18.25 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$7.16 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 81.6 | 73.2 | 0.0 | 0.0 | % |
| Efficiency By I/O | 84.0 | | | | % |

Mid-Atlantic Controls Corporation

Day Report

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Central State Hospital
Heating Plant Day Operations Report

10/5/2018
7:00 AM
Daily Report

Description

| | Plant | | | | Units |
|---|------------|----------|----------|----------|----------|
| Heating Degree Days | 0.00 | | | | hdd |
| Total Plant Steam Flow | 157.57 | | | | klbs |
| Steam Flow Per Heating Degree Day | --- | | | | klbs/hdd |
| Total Condensate Return Water Flow | 8.1 | | | | klbs |
| Total Plant Gas Flow | 187.41 | | | | kscf |
| Total Plant Gas Cost | \$1,150.86 | | | | \$ |
| Total Plant Oil Flow | 0.0 | | | | gals |
| Total Plant Oil Cost | \$0.00 | | | | \$ |
| Total Plant Fuel Cost | \$1,150.86 | | | | \$ |
| Fuel Cost Per Heating Degree Day | --- | | | | \$/hdd |
| Plant Average Steam Cost Per Degree Day | --- | | | | \$/klbs |
| Total Plant Efficiency By I/O | 82.3 | | | | % |
| Condensate Transfer Pump #1 Run Time | 7.5 | | | | 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 | 23.5 | | | | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | | | | hrs |
| | | | | | |
| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Run Time | 23.5 | 0.5 | 0.0 | 0.0 | hrs |
| Steam Flow | 157.57 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 184.65 | 2.77 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$1,133.89 | \$16.98 | \$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 | \$1,133.89 | \$16.98 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$7.20 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 81.6 | 75.3 | 0.0 | 0.0 | % |
| Efficiency By I/O | 83.6 | | | | % |

Mid-Atlantic Controls Corporation

Day Report

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Central State Hospital
Heating Plant Day Operations Report

10/6/2018
7:00 AM
Daily Report

Description

| | Plant | | | | Units |
|---|------------|----------|----------|----------|----------|
| Heating Degree Days | 0.00 | | | | hdd |
| Total Plant Steam Flow | 161.03 | | | | klbs |
| Steam Flow Per Heating Degree Day | --- | | | | klbs/hdd |
| Total Condensate Return Water Flow | 8.3 | | | | klbs |
| Total Plant Gas Flow | 192.15 | | | | kscf |
| Total Plant Gas Cost | \$1,179.96 | | | | \$ |
| Total Plant Oil Flow | 0.0 | | | | gals |
| Total Plant Oil Cost | \$0.00 | | | | \$ |
| Total Plant Fuel Cost | \$1,179.96 | | | | \$ |
| Fuel Cost Per Heating Degree Day | --- | | | | \$/hdd |
| Plant Average Steam Cost Per Degree Day | --- | | | | \$/klbs |
| Total Plant Efficiency By I/O | 82.1 | | | | % |
| Condensate Transfer Pump #1 Run Time | 8.3 | | | | hrs |
| Condensate Transfer Pump #2 Run Time | 0.2 | | | | hrs |
| Condensate Transfer Pump #3 Run Time | 20.9 | | | | hrs |
| Boiler Feed Pump #1 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #2 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #3 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #4 Run Time | 23.5 | | | | hrs |
| Fuel Oil Pump #1 Run Time | 23.5 | | | | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | | | | hrs |
| | | | | | |
| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Run Time | 23.5 | 0.7 | 0.0 | 0.0 | hrs |
| Steam Flow | 161.03 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 188.68 | 3.47 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$1,158.65 | \$21.31 | \$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 | \$1,158.65 | \$21.31 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$7.20 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 81.5 | 72.6 | 0.0 | 0.0 | % |
| Efficiency By I/O | 83.6 | | | | % |

Mid-Atlantic Controls Corporation

Day Report

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Central State Hospital
Heating Plant Day Operations Report

10/7/2018
7:00 AM
Daily Report

Description

| | | | | | |
|---|------------|----------|----------|----------|---------|
| Heating Degree Days | Plant | Units | | | |
| Total Plant Steam Flow | 0.00 | hdd | | | |
| Steam Flow Per Heating Degree Day | 150.93 | klbs | | | |
| Total Condensate Return Water Flow | --- | klbs/hdd | | | |
| Total Plant Gas Flow | 8.6 | klbs | | | |
| Total Plant Gas Cost | 181.42 | kscf | | | |
| Total Plant Oil Flow | \$1,114.04 | \$ | | | |
| Total Plant Oil Cost | 0.0 | gals | | | |
| Total Plant Fuel Cost | \$0.00 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$1,114.04 | \$ | | | |
| Plant Average Steam Cost Per Degree Day | --- | \$/hdd | | | |
| Total Plant Efficiency By I/O | --- | \$/klbs | | | |
| | 81.5 | % | | | |
| Condensate Transfer Pump #1 Run Time | 23.5 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 7.5 | hrs | | | |
| Condensate Transfer Pump #3 Run Time | 0.4 | 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 | | | |
| | 0.0 | hrs | | | |
| | | | | | |
| Run Time | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Steam Flow | 23.5 | 0.6 | 0.0 | 0.0 | hrs |
| Gas Flow | 150.93 | 0.00 | 0.00 | 0.00 | klbs |
| Natural Gas Cost | 178.35 | 3.07 | 0.00 | 0.00 | kscf |
| Oil Flow | \$1,095.18 | \$18.86 | \$0.00 | \$0.00 | \$ |
| Oil Cost | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Total Fuel Cost | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$1,095.18 | \$18.86 | \$0.00 | \$0.00 | \$ |
| Efficiency By Losses | \$7.26 | --- | --- | --- | \$/klbs |
| Efficiency By I/O | 81.6 | 70.8 | 0.0 | 0.0 | % |
| | 82.9 | | | | % |
| Mid-Atlantic Controls Corporation | | | | | % |

Mid-Atlantic Controls Corporation

Day Report

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Central State Hospital
Heating Plant Day Operations Report

10/8/2018
7:00 AM
Daily Report

Description

| | Plant | | | | Units |
|---|------------|----------|----------|----------|----------|
| Heating Degree Days | 0.00 | | | | hdd |
| Total Plant Steam Flow | 148.40 | | | | klbs |
| Steam Flow Per Heating Degree Day | --- | | | | klbs/hdd |
| Total Condensate Return Water Flow | 8.1 | | | | klbs |
| Total Plant Gas Flow | 178.81 | | | | kscf |
| Total Plant Gas Cost | \$1,098.04 | | | | \$ |
| Total Plant Oil Flow | 0.0 | | | | gals |
| Total Plant Oil Cost | \$0.00 | | | | \$ |
| Total Plant Fuel Cost | \$1,098.04 | | | | \$ |
| Fuel Cost Per Heating Degree Day | --- | | | | \$/hdd |
| Plant Average Steam Cost Per Degree Day | --- | | | | \$/klbs |
| Total Plant Efficiency By I/O | 81.3 | | | | % |
| Condensate Transfer Pump #1 Run Time | 23.5 | | | | hrs |
| Condensate Transfer Pump #2 Run Time | 11.9 | | | | hrs |
| Condensate Transfer Pump #3 Run Time | 0.4 | | | | hrs |
| Boiler Feed Pump #1 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #2 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #3 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #4 Run Time | 23.5 | | | | hrs |
| Fuel Oil Pump #1 Run Time | 23.5 | | | | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | | | | hrs |
| | | | | | |
| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Run Time | 23.5 | 0.5 | 0.0 | 0.0 | hrs |
| Steam Flow | 148.40 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 176.05 | 2.76 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$1,081.10 | \$16.93 | \$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 | \$1,081.10 | \$16.93 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$7.28 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 81.6 | 75.6 | 0.0 | 0.0 | % |
| Efficiency By I/O | 82.6 | | | | % |

Mid-Atlantic Controls Corporation

Day Report

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Central State Hospital
Heating Plant Day Operations Report

10/9/2018
7:00 AM
Daily Report

Description

| | Plant | | | | Units |
|---|-----------------|-----------------|-----------------|-----------------|--------------|
| Heating Degree Days | 0.00 | | | | hdd |
| Total Plant Steam Flow | 150.94 | | | | klbs |
| Steam Flow Per Heating Degree Day | --- | | | | klbs/hdd |
| Total Condensate Return Water Flow | 8.1 | | | | klbs |
| Total Plant Gas Flow | 181.84 | | | | kscf |
| Total Plant Gas Cost | \$1,116.61 | | | | \$ |
| Total Plant Oil Flow | 0.0 | | | | gals |
| Total Plant Oil Cost | \$0.00 | | | | \$ |
| Total Plant Fuel Cost | \$1,116.61 | | | | \$ |
| Fuel Cost Per Heating Degree Day | --- | | | | \$/hdd |
| Plant Average Steam Cost Per Degree Day | --- | | | | \$/klbs |
| Total Plant Efficiency By I/O | 81.3 | | | | % |
| Condensate Transfer Pump #1 Run Time | 23.5 | | | | hrs |
| Condensate Transfer Pump #2 Run Time | 4.3 | | | | 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 | 23.5 | 0.6 | 0.0 | 0.0 | hrs |
| Steam Flow | 150.94 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 178.82 | 3.02 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$1,098.08 | \$18.53 | \$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 | \$1,098.08 | \$18.53 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$7.27 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 81.5 | 74.4 | 0.0 | 0.0 | % |
| Efficiency By I/O | 82.7 | | | | % |

Mid-Atlantic Controls Corporation

Day Report

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Central State Hospital Heating Plant Day Operations Report

10/10/2018

7:00 AM

Daily Report

Description

| Units | | Plant | | |
|---|------------|------------|---|------------|
| hdd | 0.00 | 163.94 | hdd | 0.00 |
| kbs | 163.94 | 7.7 | kbs | 163.94 |
| kbs/hdd | --- | --- | kbs/hdd | --- |
| kbs | 194.25 | 7.7 | kbs | 194.25 |
| ksct | \$1,192.86 | 194.25 | ksct | \$1,192.86 |
| \$ | \$ | \$1,192.86 | \$ | \$ |
| gals | 0.0 | 0.0 | gals | 0.0 |
| \$ | \$0.00 | \$0.00 | \$ | \$0.00 |
| \$/hdd | --- | --- | \$/hdd | --- |
| \$/kbs | --- | --- | \$/kbs | --- |
| % | 82.6 | 82.6 | % | 82.6 |
| | | | | |
| Heating Degree Days | 0.00 | 163.94 | Heating Degree Days | 0.00 |
| Total Plant Steam Flow | 163.94 | 7.7 | Total Plant Steam Flow | 163.94 |
| Steam Flow Per Heating Degree Day | 7.7 | 7.7 | Steam Flow Per Heating Degree Day | 7.7 |
| Total Condensate Return Water Flow | 194.25 | 7.7 | Total Condensate Return Water Flow | 194.25 |
| Total Plant Gas Flow | \$1,192.86 | 194.25 | Total Plant Gas Flow | \$1,192.86 |
| Total Plant Gas Cost | \$ | \$1,192.86 | Total Plant Gas Cost | \$ |
| Total Plant Oil Flow | 0.0 | 0.0 | Total Plant Oil Flow | 0.0 |
| Total Plant Oil Cost | \$0.00 | \$0.00 | Total Plant Oil Cost | \$0.00 |
| Total Plant Fuel Cost | \$1,192.86 | \$1,192.86 | Total Plant Fuel Cost | \$1,192.86 |
| Fuel Cost Per Heating Degree Day | --- | --- | Fuel Cost Per Heating Degree Day | --- |
| Plant Average Steam Cost Per Degree Day | --- | --- | Plant Average Steam Cost Per Degree Day | --- |
| Total Plant Efficiency By I/O | 82.6 | 82.6 | Total Plant Efficiency By I/O | 82.6 |
| | | | | |
| Condensate Transfer Pump #1 Run Time | 23.5 | 23.5 | Condensate Transfer Pump #1 Run Time | 23.5 |
| Condensate Transfer Pump #2 Run Time | 0.9 | 0.9 | Condensate Transfer Pump #2 Run Time | 0.9 |
| Condensate Transfer Pump #3 Run Time | 0.0 | 0.0 | Condensate Transfer Pump #3 Run Time | 0.0 |
| Boiler Feed Pump #1 Run Time | 23.5 | 23.5 | Boiler Feed Pump #1 Run Time | 23.5 |
| Boiler Feed Pump #2 Run Time | 23.5 | 23.5 | Boiler Feed Pump #2 Run Time | 23.5 |
| Boiler Feed Pump #3 Run Time | 23.5 | 23.5 | Boiler Feed Pump #3 Run Time | 23.5 |
| Boiler Feed Pump #4 Run Time | 23.5 | 23.5 | Boiler Feed Pump #4 Run Time | 23.5 |
| Fuel Oil Pump #1 Run Time | 23.5 | 23.5 | Fuel Oil Pump #1 Run Time | 23.5 |
| Fuel Oil Pump #2 Run Time | 0.0 | 0.0 | Fuel Oil Pump #2 Run Time | 0.0 |
| | | | | |
| Run Time | 23.5 | 0.6 | Run Time | 23.5 |
| Steam Flow | 163.94 | 0.00 | Steam Flow | 163.94 |
| Gas Flow | 191.42 | 2.83 | Gas Flow | 191.42 |
| Natural Gas Cost | \$1,175.48 | \$17.38 | Natural Gas Cost | \$1,175.48 |
| Oil Flow | 0.0 | 0.0 | Oil Flow | 0.0 |
| Oil Cost | \$0.00 | \$0.00 | Oil Cost | \$0.00 |
| Total Fuel Cost | \$1,175.48 | \$17.38 | Total Fuel Cost | \$1,175.48 |
| Average Steam Cost | \$7.17 | --- | Average Steam Cost | \$7.17 |
| Efficiency By Losses | 81.6 | 73.8 | Efficiency By Losses | 81.6 |
| Efficiency By I/O | 83.9 | --- | Efficiency By I/O | 83.9 |

Mid-Atlantic Controls Corporation

Day Report

Page 1 of 1

Central State Hospital Heating Plant Day Operations Report

10/11/2018

7:00 AM

Daily Report

Description

| Plant | | Units |
|---|------------|----------|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 159.67 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 7.7 | klbs |
| Total Plant Gas Flow | 191.03 | kscf |
| Total Plant Gas Cost | \$1,173.08 | \$ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | \$0.00 | \$ |
| Total Plant Fuel Cost | \$1,173.08 | \$ |
| 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 | 4.8 | 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 |
| | | |
| Run Time | 23.5 | hrs |
| Steam Flow | 159.67 | klbs |
| Gas Flow | 187.99 | kscf |
| Natural Gas Cost | \$1,154.39 | \$ |
| Oil Flow | 0.0 | gals |
| Oil Cost | \$0.00 | \$ |
| Total Fuel Cost | \$1,154.39 | \$ |
| Average Steam Cost | \$7.23 | \$/klbs |
| Efficiency By Losses | 81.6 | % |
| Efficiency By I/O | 83.2 | % |

Mid-Atlantic Controls Corporation

Day Report

Page 1 of 1

Central State Hospital
Heating Plant Day Operations Report

10/12/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|----------|----------|----------|---------|
| Heating Degree Days | 0.00 | hdd | | | |
| Total Plant Steam Flow | 176.01 | klbs | | | |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd | | | |
| Total Condensate Return Water Flow | 7.1 | klbs | | | |
| Total Plant Gas Flow | 208.15 | kscf | | | |
| Total Plant Gas Cost | \$1,278.22 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$1,278.22 | \$ | | | |
| 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 | 12.8 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 12.7 | 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 | 23.5 | 0.5 | 0.0 | 0.0 | hrs |
| Steam Flow | 175.82 | 0.19 | 0.00 | 0.00 | klbs |
| Gas Flow | 204.70 | 3.45 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$1,257.03 | \$21.19 | \$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 | \$1,257.03 | \$21.19 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$7.15 | \$114.27 | --- | --- | \$/klbs |
| Efficiency By Losses | 81.4 | 80.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | 84.1 | 5.3 | | | % |
| Mid-Atlantic Controls Corporation | | | | | |

Central State Hospital
Heating Plant Day Operations Report

10/13/2018
7:00 AM
Daily Report

Description

| | | | | | |
|---|------------|----------|----------|----------|---------|
| Heating Degree Days | Plant | Units | | | |
| Total Plant Steam Flow | 4.24 | hdd | | | |
| Steam Flow Per Heating Degree Day | 194.89 | klbs | | | |
| Total Condensate Return Water Flow | 45.9 | klbs/hdd | | | |
| Total Plant Gas Flow | 7.1 | klbs | | | |
| Total Plant Gas Cost | 226.50 | kscf | | | |
| Total Plant Oil Flow | \$1,390.85 | \$ | | | |
| Total Plant Oil Cost | 0.0 | gals | | | |
| Total Plant Fuel Cost | \$0.00 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$1,390.85 | \$ | | | |
| Plant Average Steam Cost Per Degree Day | \$327.69 | \$/hdd | | | |
| Total Plant Efficiency By I/O | \$1.68 | \$/klbs | | | |
| | 84.3 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 0.0 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 23.0 | hrs | | | |
| Condensate Transfer Pump #3 Run Time | 4.4 | 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 | | | |
| | | | | | |
| Run Time | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Steam Flow | 23.5 | 0.7 | 0.0 | 0.0 | hrs |
| Gas Flow | 194.89 | 0.00 | 0.00 | 0.00 | klbs |
| Natural Gas Cost | 222.99 | 3.50 | 0.00 | 0.00 | kscf |
| Oil Flow | \$1,369.35 | \$21.51 | \$0.00 | \$0.00 | \$ |
| Oil Cost | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Total Fuel Cost | \$0.00 | \$0.00 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$1,369.35 | \$21.51 | \$0.00 | \$0.00 | \$ |
| Efficiency By Losses | \$7.03 | --- | --- | --- | \$/klbs |
| Efficiency By I/O | 81.3 | 74.1 | 0.0 | 0.0 | % |
| Mid-Atlantic Controls Corporation | 85.6 | | | | % |

Mid-Atlantic Controls Corporation

Day Report

Page 1 of 1

Central State Hospital
Heating Plant Day Operations Report

10/14/2018
7:00 AM
Daily Report

Description

| | Plant | | | | Units |
|---|------------|----------|----------|----------|----------|
| Heating Degree Days | 9.54 | | | | hdd |
| Total Plant Steam Flow | 199.15 | | | | klbs |
| Steam Flow Per Heating Degree Day | 20.9 | | | | klbs/hdd |
| Total Condensate Return Water Flow | 7.0 | | | | klbs |
| Total Plant Gas Flow | 229.45 | | | | kscf |
| Total Plant Gas Cost | \$1,408.96 | | | | \$ |
| Total Plant Oil Flow | 0.0 | | | | gals |
| Total Plant Oil Cost | \$0.00 | | | | \$ |
| Total Plant Fuel Cost | \$1,408.96 | | | | \$ |
| Fuel Cost Per Heating Degree Day | \$147.75 | | | | \$/hdd |
| Plant Average Steam Cost Per Degree Day | \$0.74 | | | | \$/klbs |
| Total Plant Efficiency By I/O | 85.0 | | | | % |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 0.0 | | | | hrs |
| Condensate Transfer Pump #2 Run Time | 12.5 | | | | hrs |
| Condensate Transfer Pump #3 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #1 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #2 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #3 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #4 Run Time | 23.5 | | | | hrs |
| Fuel Oil Pump #1 Run Time | 23.5 | | | | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | | | | hrs |
| | | | | | |
| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Run Time | 23.5 | 0.7 | 0.0 | 0.0 | hrs |
| Steam Flow | 199.15 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 225.87 | 3.57 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$1,387.04 | \$21.93 | \$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 | \$1,387.04 | \$21.93 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$6.96 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 81.2 | 77.4 | 0.0 | 0.0 | % |
| Efficiency By I/O | 86.3 | | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/15/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|----------|----------|----------|---------|
| Heating Degree Days | 9.26 | hdd | | | |
| Total Plant Steam Flow | 191.13 | klbs | | | |
| Steam Flow Per Heating Degree Day | 20.6 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 7.3 | klbs | | | |
| Total Plant Gas Flow | 220.97 | kscf | | | |
| Total Plant Gas Cost | \$1,356.92 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$1,356.92 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$146.52 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$0.77 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 84.7 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 0.0 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 7.5 | hrs | | | |
| Condensate Transfer Pump #3 Run Time | 23.5 | hrs | | | |
| Boiler Feed Pump #1 Run Time | 23.5 | hrs | | | |
| Boiler Feed Pump #2 Run Time | 23.5 | hrs | | | |
| Boiler Feed Pump #3 Run Time | 23.5 | hrs | | | |
| Boiler Feed Pump #4 Run Time | 23.5 | hrs | | | |
| Fuel Oil Pump #1 Run Time | 23.5 | hrs | | | |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs | | | |
| | | | | | |
| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Run Time | 23.5 | 0.6 | 0.0 | 0.0 | hrs |
| Steam Flow | 191.13 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 218.00 | 2.97 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$1,338.66 | \$18.25 | \$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 | \$1,338.66 | \$18.25 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$7.00 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 81.4 | 75.2 | 0.0 | 0.0 | % |
| Efficiency By I/O | 85.9 | | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/16/2018
7:00 AM
Daily Report

Description

| | Plant | | | | Units |
|---|------------|----------|----------|----------|----------|
| Heating Degree Days | 0.00 | | | | hdd |
| Total Plant Steam Flow | 195.65 | | | | klbs |
| Steam Flow Per Heating Degree Day | --- | | | | klbs/hdd |
| Total Condensate Return Water Flow | 7.6 | | | | klbs |
| Total Plant Gas Flow | 235.16 | | | | kscf |
| Total Plant Gas Cost | \$1,444.08 | | | | \$ |
| Total Plant Oil Flow | 0.0 | | | | gals |
| Total Plant Oil Cost | \$0.00 | | | | \$ |
| Total Plant Fuel Cost | \$1,444.08 | | | | \$ |
| Fuel Cost Per Heating Degree Day | --- | | | | \$/hdd |
| Plant Average Steam Cost Per Degree Day | --- | | | | \$/klbs |
| Total Plant Efficiency By I/O | 81.5 | | | | % |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 5.2 | | | | hrs |
| Condensate Transfer Pump #2 Run Time | 0.6 | | | | hrs |
| Condensate Transfer Pump #3 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #1 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #2 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #3 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #4 Run Time | 23.5 | | | | hrs |
| Fuel Oil Pump #1 Run Time | 23.5 | | | | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | | | | hrs |
| | | | | | |
| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Run Time | 23.5 | 0.5 | 1.6 | 0.0 | hrs |
| Steam Flow | 195.65 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 222.04 | 2.74 | 10.38 | 0.00 | kscf |
| Natural Gas Cost | \$1,363.48 | \$16.83 | \$63.76 | \$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 | \$1,363.48 | \$16.83 | \$63.76 | \$0.00 | \$ |
| Average Steam Cost | \$6.97 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 81.5 | 76.9 | 78.5 | 0.0 | % |
| Efficiency By I/O | 86.3 | | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/17/2018
7:00 AM
Daily Report

Description

| | Plant | | | | Units |
|---|------------|----------|----------|----------|----------|
| Heating Degree Days | 3.39 | | | | hdd |
| Total Plant Steam Flow | 207.72 | | | | klbs |
| Steam Flow Per Heating Degree Day | 61.3 | | | | klbs/hdd |
| Total Condensate Return Water Flow | 7.4 | | | | klbs |
| Total Plant Gas Flow | 240.36 | | | | kscf |
| Total Plant Gas Cost | \$1,475.97 | | | | \$ |
| Total Plant Oil Flow | 0.0 | | | | gals |
| Total Plant Oil Cost | \$0.00 | | | | \$ |
| Total Plant Fuel Cost | \$1,475.97 | | | | \$ |
| Fuel Cost Per Heating Degree Day | \$435.47 | | | | \$/hdd |
| Plant Average Steam Cost Per Degree Day | \$2.10 | | | | \$/klbs |
| Total Plant Efficiency By I/O | 84.6 | | | | % |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 1.3 | | | | hrs |
| Condensate Transfer Pump #2 Run Time | 0.0 | | | | hrs |
| Condensate Transfer Pump #3 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #1 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #2 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #3 Run Time | 23.5 | | | | hrs |
| Boiler Feed Pump #4 Run Time | 23.5 | | | | hrs |
| Fuel Oil Pump #1 Run Time | 23.5 | | | | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | | | | hrs |
| | | | | | |
| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Run Time | 23.5 | 0.7 | 0.8 | 0.0 | hrs |
| Steam Flow | 207.72 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 233.72 | 3.49 | 3.15 | 0.00 | kscf |
| Natural Gas Cost | \$1,435.20 | \$21.44 | \$19.33 | \$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 | \$1,435.20 | \$21.44 | \$19.33 | \$0.00 | \$ |
| Average Steam Cost | \$6.91 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 81.4 | 75.0 | 76.7 | 0.0 | % |
| Efficiency By I/O | 87.0 | | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/18/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|----------|----------|----------|---------|
| Heating Degree Days | 4.61 | hdd | | | |
| Total Plant Steam Flow | 210.94 | klbs | | | |
| Steam Flow Per Heating Degree Day | 45.8 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 7.5 | klbs | | | |
| Total Plant Gas Flow | 243.68 | kscf | | | |
| Total Plant Gas Cost | \$1,496.36 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$1,496.36 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$324.91 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$1.54 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 84.8 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 0.7 | 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 | 23.5 | 0.7 | 1.0 | 0.0 | hrs |
| Steam Flow | 210.94 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 236.45 | 3.42 | 3.81 | 0.00 | kscf |
| Natural Gas Cost | \$1,451.96 | \$21.01 | \$23.39 | \$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 | \$1,451.96 | \$21.01 | \$23.39 | \$0.00 | \$ |
| Average Steam Cost | \$6.88 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 81.2 | 74.9 | 80.2 | 0.0 | % |
| Efficiency By I/O | 87.4 | | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/19/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|----------|----------|----------|---------|
| Heating Degree Days | 15.55 | hdd | | | |
| Total Plant Steam Flow | 248.80 | klbs | | | |
| Steam Flow Per Heating Degree Day | 16.0 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 7.4 | klbs | | | |
| Total Plant Gas Flow | 277.70 | kscf | | | |
| Total Plant Gas Cost | \$1,705.26 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$1,705.26 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$109.66 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$0.44 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 87.7 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 0.7 | 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 | 23.5 | 0.8 | 0.3 | 0.0 | hrs |
| Steam Flow | 248.80 | 0.00 | 0.00 | 0.00 | klbs |
| Gas Flow | 272.28 | 4.13 | 1.28 | 0.00 | kscf |
| Natural Gas Cost | \$1,672.01 | \$25.37 | \$7.88 | \$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 | \$1,672.01 | \$25.37 | \$7.88 | \$0.00 | \$ |
| Average Steam Cost | \$6.72 | --- | --- | --- | \$/klbs |
| Efficiency By Losses | 80.9 | 72.4 | 0.0 | 0.0 | % |
| Efficiency By I/O | 89.5 | | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/20/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|------------|----------|----------|---------|
| Heating Degree Days | 14.90 | hdd | | | |
| Total Plant Steam Flow | 239.46 | klbs | | | |
| Steam Flow Per Heating Degree Day | 16.1 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 7.2 | klbs | | | |
| Total Plant Gas Flow | 278.41 | kscf | | | |
| Total Plant Gas Cost | \$1,709.67 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$1,709.67 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$114.71 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$0.48 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 84.2 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 0.5 | 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 | 23.5 | hrs | | | |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs | | | |
| | | | | | |
| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
| Run Time | 1.8 | 21.9 | 0.0 | 0.0 | hrs |
| Steam Flow | 24.94 | 214.52 | 0.00 | 0.00 | klbs |
| Gas Flow | 26.54 | 251.87 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$162.99 | \$1,546.68 | \$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 | \$162.99 | \$1,546.68 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$6.54 | \$7.21 | --- | --- | \$/klbs |
| Efficiency By Losses | 0.0 | 80.7 | 0.0 | 0.0 | % |
| Efficiency By I/O | 92.0 | 83.4 | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/21/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|------------|----------|----------|---------|
| Heating Degree Days | 7.60 | hdd | | | |
| Total Plant Steam Flow | 225.27 | klbs | | | |
| Steam Flow Per Heating Degree Day | 29.6 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 7.9 | klbs | | | |
| Total Plant Gas Flow | 264.22 | kscf | | | |
| Total Plant Gas Cost | \$1,622.53 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$1,622.53 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$213.54 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$0.95 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 83.5 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 23.4 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 0.0 | hrs | | | |
| Condensate Transfer Pump #3 Run Time | 0.1 | 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 | 0.1 | 23.5 | 0.0 | 0.0 | hrs |
| Steam Flow | 0.00 | 225.27 | 0.00 | 0.00 | klbs |
| Gas Flow | 0.39 | 263.84 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$2.39 | \$1,620.15 | \$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 | \$2.39 | \$1,620.15 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | --- | \$7.19 | --- | --- | \$/klbs |
| Efficiency By Losses | 83.6 | 80.6 | 0.0 | 0.0 | % |
| Efficiency By I/O | | 83.6 | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/22/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|------------|----------|----------|---------|
| Heating Degree Days | 19.54 | hdd | | | |
| Total Plant Steam Flow | 252.38 | klbs | | | |
| Steam Flow Per Heating Degree Day | 12.9 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 7.3 | klbs | | | |
| Total Plant Gas Flow | 294.34 | kscf | | | |
| Total Plant Gas Cost | \$1,807.47 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$1,807.47 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$92.50 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$0.37 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 84.0 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 23.5 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 0.0 | hrs | | | |
| Condensate Transfer Pump #3 Run Time | 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 | 252.38 | 0.00 | 0.00 | klbs |
| Gas Flow | 1.69 | 292.65 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$10.39 | \$1,797.08 | \$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 | \$10.39 | \$1,797.08 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | --- | \$7.12 | --- | --- | \$/klbs |
| Efficiency By Losses | 81.0 | 80.4 | 0.0 | 0.0 | % |
| Efficiency By I/O | | 84.5 | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/23/2018
7:00 AM
Daily Report

Description

| | Plant | | Units | | |
|---|------------|------------|----------|----------|---------|
| Heating Degree Days | 20.81 | | hdd | | |
| Total Plant Steam Flow | 283.74 | | klbs | | |
| Steam Flow Per Heating Degree Day | 13.6 | | klbs/hdd | | |
| Total Condensate Return Water Flow | 6.8 | | klbs | | |
| Total Plant Gas Flow | 327.63 | | kscf | | |
| Total Plant Gas Cost | \$2,011.92 | | \$ | | |
| Total Plant Oil Flow | 0.0 | | gals | | |
| Total Plant Oil Cost | \$0.00 | | \$ | | |
| Total Plant Fuel Cost | \$2,011.92 | | \$ | | |
| Fuel Cost Per Heating Degree Day | \$96.66 | | \$/hdd | | |
| Plant Average Steam Cost Per Degree Day | \$0.34 | | \$/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 | 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 | 283.74 | 0.00 | 0.00 | klbs |
| Gas Flow | 1.65 | 325.98 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$10.14 | \$2,001.78 | \$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 | \$10.14 | \$2,001.78 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | --- | \$7.05 | --- | --- | \$/klbs |
| Efficiency By Losses | 78.1 | 80.4 | 0.0 | 0.0 | % |
| Efficiency By I/O | | 85.2 | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/24/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|------------|----------|----------|---------|
| Heating Degree Days | 11.97 | hdd | | | |
| Total Plant Steam Flow | 269.59 | klbs | | | |
| Steam Flow Per Heating Degree Day | 22.5 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 7.2 | klbs | | | |
| Total Plant Gas Flow | 311.71 | kscf | | | |
| Total Plant Gas Cost | \$1,914.11 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$1,914.11 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$159.93 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$0.59 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 84.7 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 23.5 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 0.0 | hrs | | | |
| Condensate Transfer Pump #3 Run Time | 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 | 0.7 | 23.3 | 0.0 | 0.0 | hrs |
| Steam Flow | 2.25 | 267.35 | 0.00 | 0.00 | klbs |
| Gas Flow | 6.93 | 304.77 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$42.56 | \$1,871.55 | \$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 | \$42.56 | \$1,871.55 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | \$18.93 | \$7.00 | --- | --- | \$/klbs |
| Efficiency By Losses | 0.0 | 80.6 | 0.0 | 0.0 | % |
| Efficiency By I/O | 31.8 | 85.9 | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/25/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|------------|----------|----------|---------|
| Heating Degree Days | 16.60 | hdd | | | |
| Total Plant Steam Flow | 291.66 | klbs | | | |
| Steam Flow Per Heating Degree Day | 17.6 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 6.8 | klbs | | | |
| Total Plant Gas Flow | 333.65 | kscf | | | |
| Total Plant Gas Cost | \$2,048.84 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$2,048.84 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$123.46 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$0.42 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 85.6 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 23.5 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 0.0 | hrs | | | |
| Condensate Transfer Pump #3 Run Time | 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 | 0.1 | 23.5 | 0.0 | 0.0 | hrs |
| Steam Flow | 0.00 | 291.66 | 0.00 | 0.00 | klbs |
| Gas Flow | 0.33 | 333.31 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$2.05 | \$2,046.79 | \$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 | \$2.05 | \$2,046.79 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | --- | \$7.02 | --- | --- | \$/klbs |
| Efficiency By Losses | 81.9 | 80.2 | 0.0 | 0.0 | % |
| Efficiency By I/O | | 85.7 | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/26/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|------------|----------|----------|---------|
| Heating Degree Days | 20.78 | hdd | | | |
| Total Plant Steam Flow | 303.61 | klbs | | | |
| Steam Flow Per Heating Degree Day | 14.6 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 6.5 | klbs | | | |
| Total Plant Gas Flow | 347.66 | kscf | | | |
| Total Plant Gas Cost | \$2,134.92 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$2,134.92 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$102.71 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$0.34 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 85.5 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 23.5 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 0.1 | 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 | 303.61 | 0.00 | 0.00 | klbs |
| Gas Flow | 1.43 | 346.24 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$8.76 | \$2,126.15 | \$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 | \$8.76 | \$2,126.15 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | --- | \$7.00 | --- | --- | \$/klbs |
| Efficiency By Losses | 83.5 | 80.1 | 0.0 | 0.0 | % |
| Efficiency By I/O | | 85.9 | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/27/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|------------|----------|----------|---------|
| Heating Degree Days | 19.40 | hdd | | | |
| Total Plant Steam Flow | 303.98 | klbs | | | |
| Steam Flow Per Heating Degree Day | 15.7 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 6.8 | klbs | | | |
| Total Plant Gas Flow | 350.01 | kscf | | | |
| Total Plant Gas Cost | \$2,149.33 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$2,149.33 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$110.80 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$0.36 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 85.1 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 23.5 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 0.1 | 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 | 303.98 | 0.00 | 0.00 | klbs |
| Gas Flow | 1.66 | 348.35 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$10.21 | \$2,139.13 | \$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 | \$10.21 | \$2,139.13 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | --- | \$7.04 | --- | --- | \$/klbs |
| Efficiency By Losses | 80.4 | 80.4 | 0.0 | 0.0 | % |
| Efficiency By I/O | | 85.5 | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/28/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|------------|----------|----------|---------|
| Heating Degree Days | 11.81 | hdd | | | |
| Total Plant Steam Flow | 287.91 | klbs | | | |
| Steam Flow Per Heating Degree Day | 24.4 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 7.1 | klbs | | | |
| Total Plant Gas Flow | 331.29 | kscf | | | |
| Total Plant Gas Cost | \$2,034.34 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$2,034.34 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$172.30 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$0.60 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 85.1 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 1.6 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 21.9 | 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 | 287.91 | 0.00 | 0.00 | klbs |
| Gas Flow | 1.65 | 329.64 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$10.12 | \$2,024.22 | \$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 | \$10.12 | \$2,024.22 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | --- | \$7.03 | --- | --- | \$/klbs |
| Efficiency By Losses | 82.5 | 80.4 | 0.0 | 0.0 | % |
| Efficiency By I/O | | 85.5 | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/29/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|------------|----------|----------|---------|
| Heating Degree Days | 13.72 | hdd | | | |
| Total Plant Steam Flow | 286.44 | klbs | | | |
| Steam Flow Per Heating Degree Day | 20.9 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 6.7 | klbs | | | |
| Total Plant Gas Flow | 326.18 | kscf | | | |
| Total Plant Gas Cost | \$2,002.98 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$2,002.98 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$146.03 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$0.51 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 86.0 | % | | | |
| | | | | | |
| 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 | 286.44 | 0.00 | 0.00 | klbs |
| Gas Flow | 1.64 | 324.54 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$10.05 | \$1,992.92 | \$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 | \$10.05 | \$1,992.92 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | --- | \$6.96 | --- | --- | \$/klbs |
| Efficiency By Losses | 80.9 | 80.5 | 0.0 | 0.0 | % |
| Efficiency By I/O | | 86.4 | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/30/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|------------|----------|----------|---------|
| Heating Degree Days | 12.22 | hdd | | | |
| Total Plant Steam Flow | 312.03 | klbs | | | |
| Steam Flow Per Heating Degree Day | 25.5 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 5.3 | klbs | | | |
| Total Plant Gas Flow | 354.08 | kscf | | | |
| Total Plant Gas Cost | \$2,174.30 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$2,174.30 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$177.86 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$0.57 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 86.3 | % | | | |
| | | | | | |
| Condensate Transfer Pump #1 Run Time | 0.0 | hrs | | | |
| Condensate Transfer Pump #2 Run Time | 23.5 | hrs | | | |
| Condensate Transfer Pump #3 Run Time | 0.2 | 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 | 312.03 | 0.00 | 0.00 | klbs |
| Gas Flow | 1.97 | 352.10 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$12.12 | \$2,162.18 | \$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 | \$12.12 | \$2,162.18 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | — | \$6.93 | — | — | \$/klbs |
| Efficiency By Losses | 81.7 | 80.1 | 0.0 | 0.0 | % |
| Efficiency By I/O | | 86.8 | | | % |

Central State Hospital
Heating Plant Day Operations Report

10/31/2018
7:00 AM
Daily Report

Description

| | Plant | Units | | | |
|---|------------|------------|----------|----------|---------|
| Heating Degree Days | 13.92 | hdd | | | |
| Total Plant Steam Flow | 298.85 | klbs | | | |
| Steam Flow Per Heating Degree Day | 21.5 | klbs/hdd | | | |
| Total Condensate Return Water Flow | 5.4 | klbs | | | |
| Total Plant Gas Flow | 340.13 | kscf | | | |
| Total Plant Gas Cost | \$2,088.68 | \$ | | | |
| Total Plant Oil Flow | 0.0 | gals | | | |
| Total Plant Oil Cost | \$0.00 | \$ | | | |
| Total Plant Fuel Cost | \$2,088.68 | \$ | | | |
| Fuel Cost Per Heating Degree Day | \$150.09 | \$/hdd | | | |
| Plant Average Steam Cost Per Degree Day | \$0.50 | \$/klbs | | | |
| Total Plant Efficiency By I/O | 86.0 | % | | | |
| | | | | | |
| 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 | 298.85 | 0.00 | 0.00 | klbs |
| Gas Flow | 1.94 | 338.20 | 0.00 | 0.00 | kscf |
| Natural Gas Cost | \$11.90 | \$2,076.77 | \$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 | \$11.90 | \$2,076.77 | \$0.00 | \$0.00 | \$ |
| Average Steam Cost | --- | \$6.95 | --- | --- | \$/klbs |
| Efficiency By Losses | 71.7 | 80.1 | 0.0 | 0.0 | % |
| Efficiency By I/O | | 86.5 | | | % |