# Central State Hospital

Heating Plant Day Operations Report

4/1/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 34.42 | hdd |
| Total Plant Steam Flow | 285.66 | klbs |
| Steam Flow Per Heating Degree Day | 8.3 | klbs/hdd |
| Total Condensate Return Water Flow | 9.0 | klbs |
| Total Plant Gas Flow | 331.03 | kscf |
| Total Plant Gas Cost | $2,032.79 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $2,032.79 | $ |
| Fuel Cost Per Heating Degree Day | $59.06 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $0.21 | $/klbs |
| Total Plant Efficiency By I/O | 84.5 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 21.5 | hrs |
| Condensate Transfer Pump #2 Run Time | 21.5 | hrs |
| Condensate Transfer Pump #3 Run Time | 21.5 | hrs |
| Boiler Feed Pump #1 Run Time | 21.5 | hrs |
| Boiler Feed Pump #2 Run Time | 21.5 | hrs |
| Boiler Feed Pump #3 Run Time | 21.5 | hrs |
| Boiler Feed Pump #4 Run Time | 21.5 | hrs |
| Fuel Oil Pump #1 Run Time | 21.5 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.5 | 0.0 | 0.8 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 285.66 | klbs |
| Gas Flow | 2.33 | 0.00 | 2.70 | 326.00 | kscf |
| Natural Gas Cost | $14.29 | $0.00 | $16.61 | $2,001.89 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $14.29 | $0.00 | $16.61 | $2,001.89 | $ |
| Average Steam Cost | --- | --- | --- | $7.01 | $/klbs |
| Efficiency By Losses | 70.2 | 0.0 | 79.2 | 81.8 | % |
| Efficiency By I/O | | | | 85.8 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/2/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 40.53 | hdd |
| Total Plant Steam Flow | 335.96 | klbs |
| Steam Flow Per Heating Degree Day | 8.3 | klbs/hdd |
| Total Condensate Return Water Flow | 8.4 | klbs |
| Total Plant Gas Flow | 392.94 | kscf |
| Total Plant Gas Cost | $2,412.97 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $2,412.97 | $ |
| Fuel Cost Per Heating Degree Day | $59.53 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $0.18 | $/klbs |
| Total Plant Efficiency By I/O | 83.7 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 22.9 | hrs |
| Condensate Transfer Pump #2 Run Time | 22.9 | hrs |
| Condensate Transfer Pump #3 Run Time | 22.9 | hrs |
| Boiler Feed Pump #1 Run Time | 22.8 | hrs |
| Boiler Feed Pump #2 Run Time | 22.8 | hrs |
| Boiler Feed Pump #3 Run Time | 22.8 | hrs |
| Boiler Feed Pump #4 Run Time | 22.8 | hrs |
| Fuel Oil Pump #1 Run Time | 22.9 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.5 | 0.0 | 0.7 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 335.96 | klbs |
| Gas Flow | 2.43 | 0.00 | 2.76 | 387.76 | kscf |
| Natural Gas Cost | $14.91 | $0.00 | $16.93 | $2,381.13 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $14.91 | $0.00 | $16.93 | $2,381.13 | $ |
| Average Steam Cost | --- | --- | --- | $7.09 | $/klbs |
| Efficiency By Losses | 74.3 | 0.0 | 73.6 | 81.8 | % |
| Efficiency By I/O | | | | 84.9 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/3/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 44.82 | hdd |
| Total Plant Steam Flow | 371.53 | klbs |
| Steam Flow Per Heating Degree Day | 8.3 | klbs/hdd |
| Total Condensate Return Water Flow | 7.8 | klbs |
| Total Plant Gas Flow | 441.06 | kscf |
| Total Plant Gas Cost | $2,708.42 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $2,708.42 | $ |
| Fuel Cost Per Heating Degree Day | $60.44 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $0.16 | $/klbs |
| Total Plant Efficiency By I/O | 82.5 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 22.8 | hrs |
| Condensate Transfer Pump #2 Run Time | 22.8 | hrs |
| Condensate Transfer Pump #3 Run Time | 22.8 | hrs |
| Boiler Feed Pump #1 Run Time | 22.8 | hrs |
| Boiler Feed Pump #2 Run Time | 22.8 | hrs |
| Boiler Feed Pump #3 Run Time | 22.8 | hrs |
| Boiler Feed Pump #4 Run Time | 22.8 | hrs |
| Fuel Oil Pump #1 Run Time | 23.0 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.5 | 0.0 | 0.8 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 371.53 | klbs |
| Gas Flow | 2.48 | 0.00 | 3.09 | 435.49 | kscf |
| Natural Gas Cost | $15.21 | $0.00 | $19.00 | $2,674.21 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $15.21 | $0.00 | $19.00 | $2,674.21 | $ |
| Average Steam Cost | --- | --- | --- | $7.20 | $/klbs |
| Efficiency By Losses | 82.0 | 0.0 | 78.9 | 81.8 | % |
| Efficiency By I/O | | | | 83.5 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/4/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 32.45 | hdd |
| Total Plant Steam Flow | 291.48 | klbs |
| Steam Flow Per Heating Degree Day | 9.0 | klbs/hdd |
| Total Condensate Return Water Flow | 8.8 | klbs |
| Total Plant Gas Flow | 353.12 | kscf |
| Total Plant Gas Cost | $2,168.42 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $2,168.42 | $ |
| Fuel Cost Per Heating Degree Day | $66.81 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $0.23 | $/klbs |
| Total Plant Efficiency By I/O | 80.8 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 19.6 | hrs |
| Condensate Transfer Pump #2 Run Time | 19.6 | hrs |
| Condensate Transfer Pump #3 Run Time | 19.6 | hrs |
| Boiler Feed Pump #1 Run Time | 19.6 | hrs |
| Boiler Feed Pump #2 Run Time | 19.6 | hrs |
| Boiler Feed Pump #3 Run Time | 19.6 | hrs |
| Boiler Feed Pump #4 Run Time | 19.6 | hrs |
| Fuel Oil Pump #1 Run Time | 19.6 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.5 | 0.0 | 0.8 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 291.48 | klbs |
| Gas Flow | 2.07 | 0.00 | 2.43 | 348.62 | kscf |
| Natural Gas Cost | $12.74 | $0.00 | $14.91 | $2,140.77 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $12.74 | $0.00 | $14.91 | $2,140.77 | $ |
| Average Steam Cost | --- | --- | --- | $7.34 | $/klbs |
| Efficiency By Losses | 74.5 | 0.0 | 77.7 | 81.9 | % |
| Efficiency By I/O | | | | 81.9 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/5/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 31.31 | hdd |
| Total Plant Steam Flow | 274.46 | klbs |
| Steam Flow Per Heating Degree Day | 8.8 | klbs/hdd |
| Total Condensate Return Water Flow | 8.9 | klbs |
| Total Plant Gas Flow | 335.13 | kscf |
| Total Plant Gas Cost | $2,057.93 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $2,057.93 | $ |
| Fuel Cost Per Heating Degree Day | $65.74 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $0.24 | $/klbs |
| Total Plant Efficiency By I/O | 80.2 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 22.2 | hrs |
| Condensate Transfer Pump #2 Run Time | 22.2 | hrs |
| Condensate Transfer Pump #3 Run Time | 22.2 | hrs |
| Boiler Feed Pump #1 Run Time | 22.2 | hrs |
| Boiler Feed Pump #2 Run Time | 22.2 | hrs |
| Boiler Feed Pump #3 Run Time | 22.2 | hrs |
| Boiler Feed Pump #4 Run Time | 22.2 | hrs |
| Fuel Oil Pump #1 Run Time | 22.2 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.8 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 274.46 | klbs |
| Gas Flow | 3.44 | 0.00 | 2.47 | 329.21 | kscf |
| Natural Gas Cost | $21.14 | $0.00 | $15.19 | $2,021.60 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $21.14 | $0.00 | $15.19 | $2,021.60 | $ |
| Average Steam Cost | --- | --- | --- | $7.37 | $/klbs |
| Efficiency By Losses | 77.9 | 0.0 | 74.3 | 81.9 | % |
| Efficiency By I/O | | | | 81.6 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/6/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 39.60 | hdd |
| Total Plant Steam Flow | 285.89 | klbs |
| Steam Flow Per Heating Degree Day | 7.2 | klbs/hdd |
| Total Condensate Return Water Flow | 8.6 | klbs |
| Total Plant Gas Flow | 350.66 | kscf |
| Total Plant Gas Cost | $2,153.30 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $2,153.30 | $ |
| Fuel Cost Per Heating Degree Day | $54.38 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $0.19 | $/klbs |
| Total Plant Efficiency By I/O | 79.8 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 20.5 | hrs |
| Condensate Transfer Pump #2 Run Time | 20.5 | hrs |
| Condensate Transfer Pump #3 Run Time | 20.5 | hrs |
| Boiler Feed Pump #1 Run Time | 20.4 | hrs |
| Boiler Feed Pump #2 Run Time | 20.4 | hrs |
| Boiler Feed Pump #3 Run Time | 20.4 | hrs |
| Boiler Feed Pump #4 Run Time | 20.4 | hrs |
| Fuel Oil Pump #1 Run Time | 20.5 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.7 | 0.0 | 0.8 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 285.89 | klbs |
| Gas Flow | 3.10 | 0.00 | 2.47 | 345.09 | kscf |
| Natural Gas Cost | $19.04 | $0.00 | $15.15 | $2,119.11 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $19.04 | $0.00 | $15.15 | $2,119.11 | $ |
| Average Steam Cost | --- | --- | --- | $7.41 | $/klbs |
| Efficiency By Losses | 72.3 | 0.0 | 75.9 | 81.9 | % |
| Efficiency By I/O | | | | 81.1 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/7/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 247.66 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 9.4 | klbs |
| Total Plant Gas Flow | 294.72 | kscf |
| Total Plant Gas Cost | $1,809.81 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,809.81 | $ |
| 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 | 7.3 | hrs |
| Condensate Transfer Pump #2 Run Time | 7.3 | hrs |
| Condensate Transfer Pump #3 Run Time | 7.3 | hrs |
| Boiler Feed Pump #1 Run Time | 7.3 | hrs |
| Boiler Feed Pump #2 Run Time | 7.3 | hrs |
| Boiler Feed Pump #3 Run Time | 7.3 | hrs |
| Boiler Feed Pump #4 Run Time | 7.3 | hrs |
| Fuel Oil Pump #1 Run Time | 7.3 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.7 | 0.0 | 0.7 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 247.66 | klbs |
| Gas Flow | 1.24 | 0.00 | 0.58 | 292.90 | kscf |
| Natural Gas Cost | $7.62 | $0.00 | $3.57 | $1,798.63 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $7.62 | $0.00 | $3.57 | $1,798.63 | $ |
| Average Steam Cost | --- | --- | --- | $7.26 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | | 82.8 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/8/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 33.79 | hdd |
| Total Plant Steam Flow | 218.19 | klbs |
| Steam Flow Per Heating Degree Day | 6.5 | klbs/hdd |
| Total Condensate Return Water Flow | 9.6 | klbs |
| Total Plant Gas Flow | 261.94 | kscf |
| Total Plant Gas Cost | $1,608.50 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,608.50 | $ |
| Fuel Cost Per Heating Degree Day | $47.60 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $0.22 | $/klbs |
| Total Plant Efficiency By I/O | 81.6 | % |
| | | |
| Condensate Transfer Pump #1 Run Time | 5.2 | hrs |
| Condensate Transfer Pump #2 Run Time | 5.2 | hrs |
| Condensate Transfer Pump #3 Run Time | 5.2 | hrs |
| Boiler Feed Pump #1 Run Time | 5.2 | hrs |
| Boiler Feed Pump #2 Run Time | 5.2 | hrs |
| Boiler Feed Pump #3 Run Time | 5.2 | hrs |
| Boiler Feed Pump #4 Run Time | 5.2 | hrs |
| Fuel Oil Pump #1 Run Time | 5.2 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.7 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 218.19 | klbs |
| Gas Flow | 0.59 | 0.00 | 0.28 | 261.07 | kscf |
| Natural Gas Cost | $3.62 | $0.00 | $1.74 | $1,603.14 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $3.62 | $0.00 | $1.74 | $1,603.14 | $ |
| Average Steam Cost | --- | --- | --- | $7.35 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | | 81.8 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/9/2019
7:01 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 54.93 | hdd |
| Total Plant Steam Flow | 219.41 | klbs |
| Steam Flow Per Heating Degree Day | 4.0 | klbs/hdd |
| Total Condensate Return Water Flow | 9.3 | klbs |
| Total Plant Gas Flow | 278.00 | kscf |
| Total Plant Gas Cost | $1,707.16 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,707.16 | $ |
| Fuel Cost Per Heating Degree Day | $31.08 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $0.14 | $/klbs |
| Total Plant Efficiency By I/O | 77.3 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 16.1 | hrs |
| Condensate Transfer Pump #2 Run Time | 16.1 | hrs |
| Condensate Transfer Pump #3 Run Time | 16.1 | hrs |
| Boiler Feed Pump #1 Run Time | 16.0 | hrs |
| Boiler Feed Pump #2 Run Time | 16.0 | hrs |
| Boiler Feed Pump #3 Run Time | 16.0 | hrs |
| Boiler Feed Pump #4 Run Time | 16.0 | hrs |
| Fuel Oil Pump #1 Run Time | 16.3 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.6 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 219.41 | klbs |
| Gas Flow | 2.54 | 0.00 | 11.61 | 263.85 | kscf |
| Natural Gas Cost | $15.62 | $0.00 | $71.31 | $1,620.22 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $15.62 | $0.00 | $71.31 | $1,620.22 | $ |
| Average Steam Cost | --- | --- | --- | $7.38 | $/klbs |
| Efficiency By Losses | 70.6 | 0.0 | 72.4 | 81.6 | % |
| Efficiency By I/O | | | | 81.4 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/10/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 247.37 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 9.5 | klbs |
| Total Plant Gas Flow | 298.12 | kscf |
| Total Plant Gas Cost | $1,830.67 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,830.67 | $ |
| 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 | 3.9 | hrs |
| Condensate Transfer Pump #2 Run Time | 3.9 | hrs |
| Condensate Transfer Pump #3 Run Time | 3.9 | hrs |
| Boiler Feed Pump #1 Run Time | 3.9 | hrs |
| Boiler Feed Pump #2 Run Time | 3.9 | hrs |
| Boiler Feed Pump #3 Run Time | 3.9 | hrs |
| Boiler Feed Pump #4 Run Time | 3.9 | hrs |
| Fuel Oil Pump #1 Run Time | 3.9 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.7 | 0.0 | 0.7 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 247.37 | klbs |
| Gas Flow | 0.33 | 0.00 | 0.30 | 297.49 | kscf |
| Natural Gas Cost | $2.03 | $0.00 | $1.82 | $1,826.83 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $2.03 | $0.00 | $1.82 | $1,826.83 | $ |
| Average Steam Cost | --- | --- | --- | $7.38 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | | 81.4 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/11/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 60.85 | hdd |
| Total Plant Steam Flow | 220.97 | klbs |
| Steam Flow Per Heating Degree Day | 3.6 | klbs/hdd |
| Total Condensate Return Water Flow | 9.4 | klbs |
| Total Plant Gas Flow | 271.01 | kscf |
| Total Plant Gas Cost | $1,664.18 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,664.18 | $ |
| Fuel Cost Per Heating Degree Day | $27.35 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $0.12 | $/klbs |
| Total Plant Efficiency By I/O | 79.8 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 22.0 | hrs |
| Condensate Transfer Pump #2 Run Time | 22.0 | hrs |
| Condensate Transfer Pump #3 Run Time | 22.0 | hrs |
| Boiler Feed Pump #1 Run Time | 22.0 | hrs |
| Boiler Feed Pump #2 Run Time | 22.0 | hrs |
| Boiler Feed Pump #3 Run Time | 22.0 | hrs |
| Boiler Feed Pump #4 Run Time | 22.0 | hrs |
| Fuel Oil Pump #1 Run Time | 22.0 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.7 | 0.0 | 0.7 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 220.97 | klbs |
| Gas Flow | 3.51 | 0.00 | 2.69 | 264.81 | kscf |
| Natural Gas Cost | $21.55 | $0.00 | $16.51 | $1,626.12 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $21.55 | $0.00 | $16.51 | $1,626.12 | $ |
| Average Steam Cost | --- | --- | --- | $7.36 | $/klbs |
| Efficiency By Losses | 78.8 | 0.0 | 79.4 | 81.5 | % |
| Efficiency By I/O | | | | 81.7 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/12/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 3.43 | hdd |
| Total Plant Steam Flow | 216.96 | klbs |
| Steam Flow Per Heating Degree Day | 63.3 | klbs/hdd |
| Total Condensate Return Water Flow | 9.5 | klbs |
| Total Plant Gas Flow | 257.80 | kscf |
| Total Plant Gas Cost | $1,583.11 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,583.11 | $ |
| Fuel Cost Per Heating Degree Day | $461.90 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $2.13 | $/klbs |
| Total Plant Efficiency By I/O | 82.4 | % |

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

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.6 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 216.96 | klbs |
| Gas Flow | 2.99 | 0.00 | 2.30 | 252.51 | kscf |
| Natural Gas Cost | $18.39 | $0.00 | $14.14 | $1,550.59 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $18.39 | $0.00 | $14.14 | $1,550.59 | $ |
| Average Steam Cost | --- | --- | --- | $7.15 | $/klbs |
| Efficiency By Losses | 77.3 | 0.0 | 81.1 | 81.5 | % |
| Efficiency By I/O | | | | 84.1 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/13/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 216.27 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 9.2 | klbs |
| Total Plant Gas Flow | 257.87 | kscf |
| Total Plant Gas Cost | $1,583.52 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,583.52 | $ |
| 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 | 23.5 | hrs |
| Condensate Transfer Pump #2 Run Time | 23.5 | hrs |
| Condensate Transfer Pump #3 Run Time | 23.5 | hrs |
| Boiler Feed Pump #1 Run Time | 23.5 | hrs |
| Boiler Feed Pump #2 Run Time | 23.5 | hrs |
| Boiler Feed Pump #3 Run Time | 23.5 | hrs |
| Boiler Feed Pump #4 Run Time | 23.5 | hrs |
| Fuel Oil Pump #1 Run Time | 23.5 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.6 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 216.27 | klbs |
| Gas Flow | 3.07 | 0.00 | 2.32 | 252.48 | kscf |
| Natural Gas Cost | $18.85 | $0.00 | $14.22 | $1,550.44 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $18.85 | $0.00 | $14.22 | $1,550.44 | $ |
| Average Steam Cost | --- | --- | --- | $7.17 | $/klbs |
| Efficiency By Losses | 79.1 | 0.0 | 74.4 | 81.6 | % |
| Efficiency By I/O | | | | 83.9 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/14/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 208.32 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 9.3 | klbs |
| Total Plant Gas Flow | 249.23 | kscf |
| Total Plant Gas Cost | $1,530.43 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,530.43 | $ |
| Fuel Cost Per Heating Degree Day | --- | $/hdd |
| Plant Average Steam Cost Per Degree Day | --- | $/klbs |
| Total Plant Efficiency By I/O | 81.9 | % |

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

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.7 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 208.32 | klbs |
| Gas Flow | 3.07 | 0.00 | 2.35 | 243.81 | kscf |
| Natural Gas Cost | $18.82 | $0.00 | $14.45 | $1,497.16 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $18.82 | $0.00 | $14.45 | $1,497.16 | $ |
| Average Steam Cost | --- | --- | --- | $7.19 | $/klbs |
| Efficiency By Losses | 78.2 | 0.0 | 78.2 | 81.6 | % |
| Efficiency By I/O | | | | 83.7 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/15/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 201.76 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 9.2 | klbs |
| Total Plant Gas Flow | 239.72 | kscf |
| Total Plant Gas Cost | $1,472.05 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,472.05 | $ |
| Fuel Cost Per Heating Degree Day | --- | $/hdd |
| Plant Average Steam Cost Per Degree Day | --- | $/klbs |
| Total Plant Efficiency By I/O | 82.4 | % |

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

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.7 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 201.76 | klbs |
| Gas Flow | 3.26 | 0.00 | 2.53 | 233.92 | kscf |
| Natural Gas Cost | $20.04 | $0.00 | $15.55 | $1,436.46 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $20.04 | $0.00 | $15.55 | $1,436.46 | $ |
| Average Steam Cost | --- | --- | --- | $7.12 | $/klbs |
| Efficiency By Losses | 74.5 | 0.0 | 75.7 | 81.6 | % |
| Efficiency By I/O | | | | 84.5 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/16/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 237.79 | klbs |
| Steam Flow Per Heating Degree Day | — | klbs/hdd |
| Total Condensate Return Water Flow | 9.0 | klbs |
| Total Plant Gas Flow | 280.83 | kscf |
| Total Plant Gas Cost | $1,724.51 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,724.51 | $ |
| Fuel Cost Per Heating Degree Day | — | $/hdd |
| Plant Average Steam Cost Per Degree Day | --- | $/klbs |
| Total Plant Efficiency By I/O | 82.9 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 14.5 | hrs |
| Condensate Transfer Pump #2 Run Time | 14.5 | hrs |
| Condensate Transfer Pump #3 Run Time | 14.5 | hrs |
| Boiler Feed Pump #1 Run Time | 14.5 | hrs |
| Boiler Feed Pump #2 Run Time | 14.5 | hrs |
| Boiler Feed Pump #3 Run Time | 14.5 | hrs |
| Boiler Feed Pump #4 Run Time | 14.5 | hrs |
| Fuel Oil Pump #1 Run Time | 14.5 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.9 | 0.0 | 0.1 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 237.79 | klbs |
| Gas Flow | 2.48 | 0.00 | 0.32 | 278.03 | kscf |
| Natural Gas Cost | $15.25 | $0.00 | $1.94 | $1,707.32 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $15.25 | $0.00 | $1.94 | $1,707.32 | $ |
| Average Steam Cost | — | --- | — | $7.18 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | | 83.8 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/17/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 61.30 | hdd |
| Total Plant Steam Flow | 240.04 | klbs |
| Steam Flow Per Heating Degree Day | 3.9 | klbs/hdd |
| Total Condensate Return Water Flow | 8.9 | klbs |
| Total Plant Gas Flow | 283.17 | kscf |
| Total Plant Gas Cost | $1,738.89 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,738.89 | $ |
| Fuel Cost Per Heating Degree Day | $28.37 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $0.12 | $/klbs |
| Total Plant Efficiency By I/O | 83.0 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 20.9 | hrs |
| Condensate Transfer Pump #2 Run Time | 20.9 | hrs |
| Condensate Transfer Pump #3 Run Time | 20.9 | hrs |
| Boiler Feed Pump #1 Run Time | 21.0 | hrs |
| Boiler Feed Pump #2 Run Time | 21.0 | hrs |
| Boiler Feed Pump #3 Run Time | 21.0 | hrs |
| Boiler Feed Pump #4 Run Time | 21.0 | hrs |
| Fuel Oil Pump #1 Run Time | 21.0 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 1.1 | 23.4 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 240.04 | klbs |
| Gas Flow | 2.84 | 0.00 | 2.30 | 278.03 | kscf |
| Natural Gas Cost | $17.45 | $0.00 | $14.15 | $1,707.29 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $17.45 | $0.00 | $14.15 | $1,707.29 | $ |
| Average Steam Cost | --- | --- | --- | $7.11 | $/klbs |
| Efficiency By Losses | 78.1 | 0.0 | 73.3 | 81.6 | % |
| Efficiency By I/O | | | | 84.6 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/18/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 222.44 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 8.9 | klbs |
| Total Plant Gas Flow | 265.09 | kscf |
| Total Plant Gas Cost | $1,627.83 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,627.83 | $ |
| Fuel Cost Per Heating Degree Day | --- | $/hdd |
| Plant Average Steam Cost Per Degree Day | --- | $/klbs |
| Total Plant Efficiency By I/O | 82.2 | % |

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

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.6 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 222.44 | klbs |
| Gas Flow | 3.17 | 0.00 | 2.31 | 259.61 | kscf |
| Natural Gas Cost | $19.46 | $0.00 | $14.19 | $1 594.18 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $19.46 | $0.00 | $14.19 | $1,594.18 | $ |
| Average Steam Cost | --- | --- | --- | $7.17 | $/klbs |
| Efficiency By Losses | 79.8 | 0.0 | 76.2 | 81.5 | % |
| Efficiency By I/O | | | | 83.9 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/19/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 215.80 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 9.1 | klbs |
| Total Plant Gas Flow | 256.94 | kscf |
| Total Plant Gas Cost | $1,577.82 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,577.82 | $ |
| 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 | 23.5 | hrs |
| Condensate Transfer Pump #2 Run Time | 23.5 | hrs |
| Condensate Transfer Pump #3 Run Time | 23.5 | hrs |
| Boiler Feed Pump #1 Run Time | 23.5 | hrs |
| Boiler Feed Pump #2 Run Time | 23.5 | hrs |
| Boiler Feed Pump #3 Run Time | 23.5 | hrs |
| Boiler Feed Pump #4 Run Time | 23.5 | hrs |
| Fuel Oil Pump #1 Run Time | 23.5 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.6 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 215.80 | klbs |
| Gas Flow | 3.10 | 0.00 | 2.24 | 251.60 | kscf |
| Natural Gas Cost | $19.03 | $0.00 | $13.77 | $1,545.02 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $19.03 | $0.00 | $13.77 | $1,545.02 | $ |
| Average Steam Cost | --- | --- | --- | $7.16 | $/klbs |
| Efficiency By Losses | 74.9 | 0.0 | 76.9 | 81.6 | % |
| Efficiency By I/O | | | | 84.0 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/20/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 28.67 | hdd |
| Total Plant Steam Flow | 218.91 | klbs |
| Steam Flow Per Heating Degree Day | 7.6 | klbs/hdd |
| Total Condensate Return Water Flow | 9.0 | klbs |
| Total Plant Gas Flow | 260.98 | kscf |
| Total Plant Gas Cost | $1,602.61 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,602.61 | $ |
| Fuel Cost Per Heating Degree Day | $55.89 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $0.26 | $/klbs |
| Total Plant Efficiency By I/O | 82.1 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 21.9 | hrs |
| Condensate Transfer Pump #2 Run Time | 21.9 | hrs |
| Condensate Transfer Pump #3 Run Time | 21.9 | hrs |
| Boiler Feed Pump #1 Run Time | 21.9 | hrs |
| Boiler Feed Pump #2 Run Time | 21.9 | hrs |
| Boiler Feed Pump #3 Run Time | 21.9 | hrs |
| Boiler Feed Pump #4 Run Time | 21.9 | hrs |
| Fuel Oil Pump #1 Run Time | 21.9 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.7 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 218.91 | klbs |
| Gas Flow | 2.84 | 0.00 | 2.24 | 255.90 | kscf |
| Natural Gas Cost | $17.42 | $0.00 | $13.77 | $1,571.42 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $17.42 | $0.00 | $13.77 | $1,571.42 | $ |
| Average Steam Cost | --- | --- | --- | $7.18 | $/klbs |
| Efficiency By Losses | 73.9 | 0.0 | 79.6 | 81.6 | % |
| Efficiency By I/O | | | | 83.8 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/21/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 220.48 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 9.1 | klbs |
| Total Plant Gas Flow | 260.53 | kscf |
| Total Plant Gas Cost | $1,599.87 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,599.87 | $ |
| Fuel Cost Per Heating Degree Day | --- | $/hdd |
| Plant Average Steam Cost Per Degree Day | --- | $/klbs |
| Total Plant Efficiency By I/O | 82.9 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 12.7 | hrs |
| Condensate Transfer Pump #2 Run Time | 12.7 | hrs |
| Condensate Transfer Pump #3 Run Time | 12.7 | hrs |
| Boiler Feed Pump #1 Run Time | 12.7 | hrs |
| Boiler Feed Pump #2 Run Time | 12.7 | hrs |
| Boiler Feed Pump #3 Run Time | 12.7 | hrs |
| Boiler Feed Pump #4 Run Time | 12.7 | hrs |
| Fuel Oil Pump #1 Run Time | 12.7 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.7 | 0.0 | 0.9 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 220.48 | klbs |
| Gas Flow | 1.86 | 0.00 | 1.44 | 257.24 | kscf |
| Natural Gas Cost | $11.40 | $0.00 | $8.82 | $1,579.65 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $11.40 | $0.00 | $8.82 | $1,579.65 | $ |
| Average Steam Cost | --- | --- | --- | $7.16 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | | 83.9 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/22/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 227.80 | klbs |
| Steam Flow Per Heating Degree Day | — | klbs/hdd |
| Total Condensate Return Water Flow | 9.4 | klbs |
| Total Plant Gas Flow | 264.90 | kscf |
| Total Plant Gas Cost | $1,626.70 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,626.70 | $ |
| Fuel Cost Per Heating Degree Day | — | $/hdd |
| Plant Average Steam Cost Per Degree Day | --- | $/klbs |
| Total Plant Efficiency By I/O | 84.2 | % |

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

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.7 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 227.80 | klbs |
| Gas Flow | 0.00 | 0.00 | 0.00 | 264.90 | kscf |
| Natural Gas Cost | $0.00 | $0.00 | $0.00 | $1,626.70 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $0.00 | $0.00 | $0.00 | $1,626.70 | $ |
| Average Steam Cost | --- | --- | --- | $7.14 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | | 84.2 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/23/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 32.00 | hdd |
| Total Plant Steam Flow | 243.18 | klbs |
| Steam Flow Per Heating Degree Day | 7.6 | klbs/hdd |
| Total Condensate Return Water Flow | 8.7 | klbs |
| Total Plant Gas Flow | 285.71 | kscf |
| Total Plant Gas Cost | $1,754.48 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,754.48 | $ |
| Fuel Cost Per Heating Degree Day | $54.83 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $0.23 | $/klbs |
| Total Plant Efficiency By I/O | 83.4 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 1.9 | hrs |
| Condensate Transfer Pump #2 Run Time | 1.9 | hrs |
| Condensate Transfer Pump #3 Run Time | 1.9 | hrs |
| Boiler Feed Pump #1 Run Time | 1.9 | hrs |
| Boiler Feed Pump #2 Run Time | 1.9 | hrs |
| Boiler Feed Pump #3 Run Time | 1.9 | hrs |
| Boiler Feed Pump #4 Run Time | 1.9 | hrs |
| Fuel Oil Pump #1 Run Time | 1.9 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.8 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 243.18 | klbs |
| Gas Flow | 0.80 | 0.00 | 0.00 | 284.92 | kscf |
| Natural Gas Cost | $4.88 | $0.00 | $0.00 | $1,749.60 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $4.88 | $0.00 | $0.00 | $1,749.60 | $ |
| Average Steam Cost | --- | --- | --- | $7.19 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | | 83.6 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/24/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 243.65 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 8.7 | klbs |
| Total Plant Gas Flow | 285.67 | kscf |
| Total Plant Gas Cost | $1,754.26 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,754.26 | $ |
| Fuel Cost Per Heating Degree Day | --- | $/hdd |
| Plant Average Steam Cost Per Degree Day | --- | $/klbs |
| Total Plant Efficiency By I/O | 83.5 | % |

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

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.7 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 243.65 | klbs |
| Gas Flow | 0.00 | 0.00 | 0.00 | 285.67 | kscf |
| Natural Gas Cost | $0.00 | $0.00 | $0.00 | $1,754.26 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $0.00 | $0.00 | $0.00 | $1,754.26 | $ |
| Average Steam Cost | --- | --- | --- | $7.20 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | | 83.5 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/25/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 243.68 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 8.7 | klbs |
| Total Plant Gas Flow | 285.70 | kscf |
| Total Plant Gas Cost | $1,754.42 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,754.42 | $ |
| Fuel Cost Per Heating Degree Day | --- | $/hdd |
| Plant Average Steam Cost Per Degree Day | --- | $/klbs |
| Total Plant Efficiency By I/O | 83.5 | % |

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

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.7 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 243.68 | klbs |
| Gas Flow | 0.00 | 0.00 | 0.00 | 285.70 | kscf |
| Natural Gas Cost | $0.00 | $0.00 | $0.00 | $1,754.42 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $0.00 | $0.00 | $0.00 | $1,754.42 | $ |
| Average Steam Cost | --- | --- | --- | $7.20 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | | 83.5 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/26/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 243.67 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 8.7 | klbs |
| Total Plant Gas Flow | 285.69 | kscf |
| Total Plant Gas Cost | $1,754.35 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,754.35 | $ |
| Fuel Cost Per Heating Degree Day | --- | $/hdd |
| Plant Average Steam Cost Per Degree Day | --- | $/klbs |
| Total Plant Efficiency By I/O | 83.5 | % |

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

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.6 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 243.67 | klbs |
| Gas Flow | 0.00 | 0.00 | 0.00 | 285.69 | kscf |
| Natural Gas Cost | $0.00 | $0.00 | $0.00 | $1,754.35 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $0.00 | $0.00 | $0.00 | $1,754.35 | $ |
| Average Steam Cost | --- | --- | --- | $7.20 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | | 83.5 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/27/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 243.66 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 8.7 | klbs |
| Total Plant Gas Flow | 285.69 | kscf |
| Total Plant Gas Cost | $1,754.33 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,754.33 | $ |
| Fuel Cost Per Heating Degree Day | --- | $/hdd |
| Plant Average Steam Cost Per Degree Day | --- | $/klbs |
| Total Plant Efficiency By I/O | 83.5 | % |

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

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.8 | 0.0 | 0.8 | 23.4 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 243.66 | klbs |
| Gas Flow | 0.00 | 0.00 | 0.00 | 285.69 | kscf |
| Natural Gas Cost | $0.00 | $0.00 | $0.00 | $1,754.33 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $0.00 | $0.00 | $0.00 | $1,754.33 | $ |
| Average Steam Cost | --- | --- | --- | $7.20 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | | 83.5 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/28/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 243.66 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 8.7 | klbs |
| Total Plant Gas Flow | 285.68 | kscf |
| Total Plant Gas Cost | $1,754.30 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,754.30 | $ |
| Fuel Cost Per Heating Degree Day | --- | $/hdd |
| Plant Average Steam Cost Per Degree Day | --- | $/klbs |
| Total Plant Efficiency By I/O | 83.5 | % |

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

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.6 | 0.0 | 0.8 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 243.66 | klbs |
| Gas Flow | 0.00 | 0.00 | 0.00 | 285.68 | kscf |
| Natural Gas Cost | $0.00 | $0.00 | $0.00 | $1,754.30 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $0.00 | $0.00 | $0.00 | $1,754.30 | $ |
| Average Steam Cost | --- | --- | --- | $7.20 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | | 83.5 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/29/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 0.00 | hdd |
| Total Plant Steam Flow | 243.66 | klbs |
| Steam Flow Per Heating Degree Day | --- | klbs/hdd |
| Total Condensate Return Water Flow | 8.7 | klbs |
| Total Plant Gas Flow | 285.69 | kscf |
| Total Plant Gas Cost | $1,754.34 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,754.34 | $ |
| Fuel Cost Per Heating Degree Day | --- | $/hdd |
| Plant Average Steam Cost Per Degree Day | --- | $/klbs |
| Total Plant Efficiency By I/O | 83.5 | % |

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

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.7 | 0.0 | 1.0 | 23.5 | hrs |
| Steam Flow | 0.00 | 0.00 | 0.00 | 243.66 | klbs |
| Gas Flow | 0.00 | 0.00 | 0.00 | 285.69 | kscf |
| Natural Gas Cost | $0.00 | $0.00 | $0.00 | $1,754.34 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $0.00 | $0.00 | $0.00 | $1,754.34 | $ |
| Average Steam Cost | --- | --- | --- | $7.20 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | | 83.5 | % |

# Central State Hospital

Heating Plant Day Operations Report

4/30/2019
7:00 AM
Daily Report

**Description**

| | Plant | Units |
|---|---|---|
| Heating Degree Days | 35.28 | hdd |
| Total Plant Steam Flow | 228.65 | klbs |
| Steam Flow Per Heating Degree Day | 6.5 | klbs/hdd |
| Total Condensate Return Water Flow | 8.8 | klbs |
| Total Plant Gas Flow | 281.58 | kscf |
| Total Plant Gas Cost | $1,729.12 | $ |
| Total Plant Oil Flow | 0.0 | gals |
| Total Plant Oil Cost | $0.00 | $ |
| Total Plant Fuel Cost | $1,729.12 | $ |
| Fuel Cost Per Heating Degree Day | $49.02 | $/hdd |
| Plant Average Steam Cost Per Degree Day | $0.21 | $/klbs |
| Total Plant Efficiency By I/O | 79.5 | % |

| | | |
|---|---|---|
| Condensate Transfer Pump #1 Run Time | 3.6 | hrs |
| Condensate Transfer Pump #2 Run Time | 3.6 | hrs |
| Condensate Transfer Pump #3 Run Time | 3.6 | hrs |
| Boiler Feed Pump #1 Run Time | 3.6 | hrs |
| Boiler Feed Pump #2 Run Time | 3.6 | hrs |
| Boiler Feed Pump #3 Run Time | 3.6 | hrs |
| Boiler Feed Pump #4 Run Time | 3.6 | hrs |
| Fuel Oil Pump #1 Run Time | 3.6 | hrs |
| Fuel Oil Pump #2 Run Time | 0.0 | hrs |

| | Boiler 1 | Boiler 2 | Boiler 3 | Boiler 4 | Units |
|---|---|---|---|---|---|
| Run Time | 0.5 | 0.0 | 21.5 | 1.8 | hrs |
| Steam Flow | 0.00 | 0.00 | 134.10 | 94.56 | klbs |
| Gas Flow | 0.00 | 0.00 | 171.69 | 109.89 | kscf |
| Natural Gas Cost | $0.00 | $0.00 | $1,054.30 | $674.83 | $ |
| Oil Flow | 0.0 | 0.0 | 0.0 | 0.0 | gals |
| Oil Cost | $0.00 | $0.00 | $0.00 | $0.00 | $ |
| Total Fuel Cost | $0.00 | $0.00 | $1,054.30 | $674.83 | $ |
| Average Steam Cost | --- | --- | $7.86 | $7.14 | $/klbs |
| Efficiency By Losses | 0.0 | 0.0 | 0.0 | 0.0 | % |
| Efficiency By I/O | | | 76.5 | 84.3 | % |