

# Central State Hospital

## Heating Plant Month Report

7/1/2015

12:01 AM

Monthly Report

### Description

|   | Plant           |                 |                 |                 | Units        |
|---|-----------------|-----------------|-----------------|-----------------|--------------|
| Heating Degree Days                     | 114.47          |                 |                 |                 | hdd          |
| Total Plant Steam Flow                  | 4,002.67        |                 |                 |                 | klbs         |
| Steam Flow Per Heating Degree Day       | 35.0            |                 |                 |                 | klbs/hdd     |
| Total Condensate Return Water Flow      | 267.4           |                 |                 |                 | klbs         |
| Total Plant Gas Flow                    | 5,265.26        |                 |                 |                 | kscf         |
| Total Plant Gas Cost                    | \$32,332.68     |                 |                 |                 | \$           |
| Total Plant Oil Flow                    | 49.4            |                 |                 |                 | gals         |
| Total Plant Oil Cost                    | \$190.90        |                 |                 |                 | \$           |
| Total Plant Fuel Cost                   | \$32,523.58     |                 |                 |                 | \$           |
| Fuel Cost Per Heating Degree Day        | \$284.11        |                 |                 |                 | \$/hdd       |
| Plant Average Steam Cost Per Degree Day | \$0.07          |                 |                 |                 | \$/klbs      |
| Total Plant Efficiency By I/O           | 74.4            |                 |                 |                 | %            |
|   |                 |                 |                 |                 |              |
| Condensate Transfer Pump #1 Run Time    | 171.2           |                 |                 |                 | hrs          |
| Condensate Transfer Pump #2 Run Time    | 250.4           |                 |                 |                 | hrs          |
| Condensate Transfer Pump #3 Run Time    | 295.2           |                 |                 |                 | hrs          |
| Boiler Feed Pump #1 Run Time            | 156.3           |                 |                 |                 | hrs          |
| Boiler Feed Pump #2 Run Time            | 227.5           |                 |                 |                 | hrs          |
| Boiler Feed Pump #3 Run Time            | 179.2           |                 |                 |                 | hrs          |
| Boiler Feed Pump #4 Run Time            | 164.8           |                 |                 |                 | hrs          |
| Fuel Oil Pump #1 Run Time               | 0.0             |                 |                 |                 | hrs          |
| Fuel Oil Pump #2 Run Time               | 1.2             |                 |                 |                 | hrs          |
|   |                 |                 |                 |                 |              |
|   | <b>Boiler 1</b> | <b>Boiler 2</b> | <b>Boiler 3</b> | <b>Boiler 4</b> | <b>Units</b> |
| Run Time                                | 185.6           | 180.6           | 175.4           | 225.7           | hrs          |
| Steam Flow                              | 1022.13         | 902.08          | 831.41          | 1247.05         | klbs         |
| Gas Flow                                | 1388.63         | 1262.08         | 1045.23         | 1569.32         | kscf         |
| Natural Gas Cost                        | \$8,527.22      | \$7,750.12      | \$6,418.51      | \$9,636.83      | \$           |
| Oil Flow                                | 0.0             | 0.0             | 0.0             | 49.4            | gals         |
| Oil Cost                                | \$0.00          | \$0.00          | \$0.00          | \$190.90        | \$           |
| Total Fuel Cost                         | \$8,527.22      | \$7,750.12      | \$6,418.51      | \$9,827.73      | \$           |
| Average Steam Cost                      | \$8.34          | \$8.59          | \$7.72          | \$7.88          | \$/klbs      |
| Efficiency By Losses                    | 81.0            | 76.2            | 82.1            | 81.3            | %            |
| Efficiency By I/O                       | 72.1            | 70.0            | 77.9            | 77.5            | %            |