

# Southside Virginia Training Center

## Heating Plant Month Operations Report

9/30/2007  
11:59 PM  
Monthly Report

### Description

|   | Plant       | Units       |             |            |         |
|---|-------------|-------------|-------------|------------|---------|
| Heating Degree Days                     | 52.04       | hdd         |             |            |         |
| Total Plant Steam Flow                  | 3,590.46    | klbs        |             |            |         |
| Steam Flow Per Heating Degree Day       | 68.0        | klbs/hdd    |             |            |         |
| Total Condensate Return Water Flow      | 0.0         | klbs        |             |            |         |
| Total Plant Gas Flow                    | 4,823.74    | kscf        |             |            |         |
| Total Plant Gas Cost                    | \$53,366.73 | \$          |             |            |         |
| Total Plant Oil Flow                    | 0.0         | gals        |             |            |         |
| Total Plant Oil Cost                    | \$0.00      | \$          |             |            |         |
| Total Plant Fuel Cost                   | \$53,366.73 | \$          |             |            |         |
| Fuel Cost Per Heating Degree Day        | \$1,025.49  | \$/hdd      |             |            |         |
| Plant Average Steam Cost Per Degree Day | \$0.29      | \$/klbs     |             |            |         |
| Total Plant Efficiency By I/O           | 71.9        | %           |             |            |         |
|   |             |             |             |            |         |
| Condensate Transfer Pump #1 Run Time    | 177.5       | hrs         |             |            |         |
| Condensate Transfer Pump #2 Run Time    | 207.4       | hrs         |             |            |         |
| Condensate Transfer Pump #3 Run Time    | 334.5       | hrs         |             |            |         |
| Boiler Feed Pump #1 Run Time            | 177.3       | hrs         |             |            |         |
| Boiler Feed Pump #2 Run Time            | 176.0       | hrs         |             |            |         |
| Boiler Feed Pump #3 Run Time            | 175.4       | hrs         |             |            |         |
| Boiler Feed Pump #4 Run Time            | 190.6       | 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                                | 258.4       | 192.4       | 197.5       | 78.1       | hrs     |
| Steam Flow                              | 1433.52     | 1116.48     | 608.41      | 382.14     | klbs    |
| Gas Flow                                | 1662.37     | 1272.85     | 1352.29     | 536.23     | kscf    |
| Natural Gas Cost                        | \$18,391.41 | \$14,082.23 | \$14,961.54 | \$5,931.55 | \$      |
| Oil Flow                                | 0.0         | 0.0         | 0.0         | 0.0        | gals    |
| Oil Cost                                | \$0.00      | \$0.00      | \$0.00      | \$0.00     | \$      |
| Total Fuel Cost                         | \$18,391.41 | \$14,082.23 | \$14,961.54 | \$5,931.55 | \$      |
| Average Steam Cost                      | \$12.83     | \$12.61     | \$24.59     | \$15.52    | \$/klbs |
| Efficiency By Losses                    | 81.9        | 81.7        | 82.2        | 82.0       | %       |
| Efficiency By I/O                       | 84.4        | 85.9        | 44.1        | 69.8       | %       |

Note: Boiler #3 Efficiency By I/O is low due steam flow transmitter is reading low ,issue is being addressed.  
This is effecting Total Plant Efficiency By I/O as well.