

Facilities Services Newsletter

Summer 2012



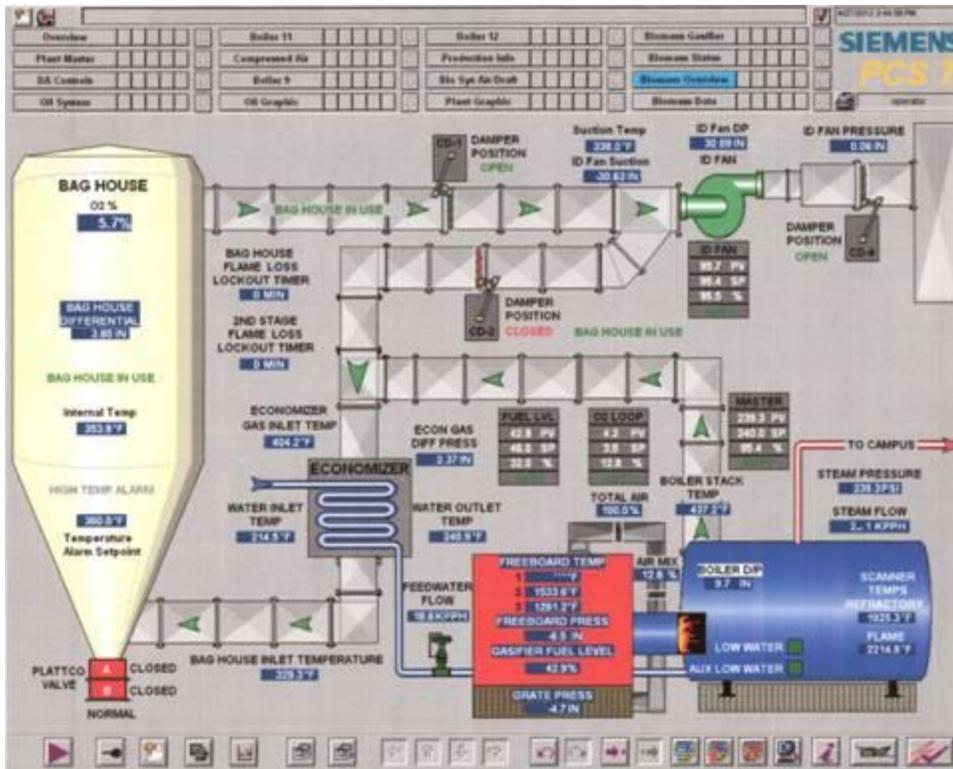
Facilities Services Spring & Summer Project Update

- ✔ Commencement – Completed!
- ✔ Reunion – Completed!
- ✔ Language School Setups – Completed!
- ✔ Hepburn Water Service - Completed!

Biomass Plant Operations Update

The College's Biomass Plant evolved from a student led Carbon Reduction Initiative. This initiative received Trustee endorsement in 2004, and the framework was cast to replace 1 million gallons of #6 fuel oil with renewable, locally harvested biomass wood chips. The Biomass Plant came on-line in 2009 and has performed effectively to meet the College's Carbon reduction Initiative goal. Since operations began, over 56,000 tons of biomass wood chips have been consumed, displacing nearly 3,000,000 gallons of #6 fuel oil.

The Central Heating Plant staff and Mechanical / Electrical Technicians are continuously improving and optimizing the biomass plant operating process and campus building components that consume steam produced from the biomass plant. High compliments to these work groups for embracing this new technology and "making it work"! Contact the Facilities Services Office to schedule a biomass plant tour.



Middlebury College Biomass Plant Process Control Screenshot

Campus Steam Distribution System Maintenance Projects

Did you know that there are 20,000 feet of underground steam and condensate piping distribution systems serving our main campus? These systems convey steam from the Central Heating Plant to all of our main campus buildings – that’s nearly 2 million square feet of buildings. Our buildings consume steam for space heating, hot water, and air conditioning (that’s right – some of our buildings have cooling systems that use steam as the medium to produce cold / chilled water). 85% of the steam distributed to campus is returned to the Central Heating Plant as water, or condensate, only to be converted to steam again and redistributed to campus.

Continuous and reliable operation of the campus steam and condensate distribution systems is critical. These systems are routinely evaluated for leaks, heat loss inefficiency, capacity, and performance related to time in service. 20% of our current distribution system has been planned for replacement through a 10-year master plan implementation process. This summer over 1300 ft. of steam and condensate distribution systems will be replaced. This involves 550 feet of piping systems from McCullough to Monroe Hall and 800 feet of piping systems in support of

the new Athletic facilities construction project (see details of this project also included in this newsletter.)



Section of new underground steam pipe system installation – McCullough to Monroe Hall



149 Shannon St.

For the past 4 years 149 Shannon Street has been utilized as student housing. This summer the building will be renovated and converted from a single family residence to two faculty apartments. The expected completion date for this work is August 15.

115 Franklin St.

Wonnacott Commons House – Interior cosmetic upgrades will occur before the arrival of the Miller-Lanes, the new Common’s Faculty Heads, in August.



Robert A. Jones '59 House

The Robert A. Jones '59 House will receive interior lighting upgrades and be sporting a fresh coat of interior paint this summer.

Ridgeline Parking Lot

The northern and eastern portions of the Ridgeline Parking Lot will be expanded this summer by a total of 92 spaces. Tree removal, preliminary site work and rough grading are currently underway. These new spaces will help offset parking at the Peterson Family Athletics Complex which will be used by contractors for the upcoming Squash and Field House projects. This project is expected to be completed by the end of August.



Mahaney Center for the Arts and Peterson Athletic Complex

In preparation for planned Peterson Family Athletics Complex facility improvements, replacement of 800 feet of steam line from the Route 30 crossing at MCFA to Nelson is in process. In addition, 675 feet of new water main and 1,400 feet of new gravity sewer line are also being installed. These utility infrastructure projects are a crucial first step in the proposed construction of a Squash Center and new Field House structure.



Atwater Landscape

Work that began in 2011 on the Atwater Landscape Improvement project is continuing this summer. We have recently completed the addition of a stone veneer to the sitting wall between Atwater A & B. Later this summer or early fall, when weather conditions are more conducive to planting, additional trees and shrubs will be added to the A & B area and near the Dining Hall. This will complete this landscape improvement project. If you have not yet had a chance to review the improvements, take a stroll and a gander. It is worth it!

Be safe in your travels this summer, we'll see you in the fall!