

March 5, 2013

Dedication of Creative Arts Building, Haywood Community College

A dedication ceremony was held for the Creative Arts Building March 1, 2013. I took the opportunity to catch up on how the solar thermal installation by FLS had progressed. Steve Sorrells, a Board of Trustee member graciously escorted me and a guest of mine through the FLS equipment room. The General Contractor for the project and the President of Haynes Electric, the electrical general contractor accompanied us, and were extremely helpful in answering questions relating to the daily operation of the system.

It was a cold day. The outside temperature at Ribbon Cutting time was about 32° - 34° Fahrenheit. It was cloudy and overcast, and there were several snowflakes.



[This is a reverse angle of the picture that appears in the Mountaineer. Caroline Klapper is in green in the distance between the two stone pillars taking the Mountaineer picture.]

The environment inside the building was comfortable.

There was steam venting from the white PVC plastic vent pipes near the 15,000 gallon water storage tank.

There were two Liquid Gas Boilers in operation inside the FLS equipment room. These are larger industrial versions of the home Propane Tankless Hot Water Heaters. They are shown below.



This Liquid Gas Boiler was operating at 33% rated capacity.



This second Liquid Gas Boiler was operating at 34% rated capacity.

As far as I could determine, this was the only source of hot water supplying the Creative Arts Building that day. These Liquid Gas Boilers are owned by HCC and are part of the “back-up” environmental system for the building.

I was able to determine a couple of temperature readings with the aid of the two general contractors.

- The flow temperature in the pipe network near the Liquid Gas Boilers was 170° F [re: thermometer].
- The temperature inside the middle of the 15,000 gallon storage tank was 116° F [re: Harris display].

There is a television type plat panel display, called a “green” display located on a lower level of the Creative Arts Building. It rotates through pictures of various systems providing real-time information relating to performance and stuff. It was designed by Harris, along with the entire “back-up” system, who is a subcontractor of Haynes, the Electrical Contractor.

There did not appear to be anyone from FLS present to answer any questions about their system.

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