

SRP PROJECT of the MONTH

ALBEMARLE COUNTY OFFICE BUILDING

The Albemarle County Office Building Boiler plant in Charlottesville, Virginia was recently renovated. The existing cast iron boilers were installed in the 1970's and were becoming expensive to repair and unreliable. The solution was to replace the two existing Boilers with five Lochinvar, 94%, 1500 MBH thermally efficient Condensing Boilers containing stainless steel heat exchangers and modulating burners. The existing boilers and flues were removed and a new system was installed using multiple high efficiency boilers to match the loads and obtain the best efficiencies. Each boiler has a digital touchpad interface and is connected to a Siemens Building Automation System. A new flue system including an Enervex modulating draft fan to overcome the resistance of a 120 foot stack and maintain maximum combustion efficiency was also installed. A condensate treatment system was installed to treat the acidity of the condensate created in the condensing process before discharging into the sanitary sewer system. Before and after pictures are shown below.

Original Boilers



New Boilers



SIMMONS ROCKECHARLIE & PRINCE INC.
8416 Glazebrook Ave.
Richmond, Virginia 23228

Phone: 804-262-7323
Fax: 804-262-0021
WWW.SRPENG.COM

SRP
Consulting Mechanical &
Electrical Engineers