

Scaggsville Public Safety Complex

Replace Central Boilers

The two existing, oil-fired HB Smith boilers were installed when the building was originally constructed. These boilers are operating with a reduced efficiency due to their age and in comparison to current boiler standards. We propose to replace the existing HB Smith boilers with high-efficiency non-condensing boilers. We propose to install two gas-fired, Futura III boilers by RBI to replace the two existing oil-fired HB Smith boilers. Each RBI boiler is rated at 1,500 MBH input with a rated output of 1,305 MBH output. The new RBI boilers will provide increased turn-down capacity for lower load operation at higher combustion efficiencies. Our scope includes extending a new natural gas service to the building and extending the gas lines to the boiler room. The new boilers will be installed in the same location as the existing boilers and will be connected to the newly extended gas supply and existing make-up water, electrical and other boiler infrastructure. New flue exhaust stacks will be installed to prevent condensing within the larger existing exhaust stacks since the existing stacks are larger than required for the new boilers.



Existing HB Smith Boilers

Chilled Water Isolation Valve and Insulation Replacement



Exterior Chilled Water Piping Insulation

This scope of work includes the replacement of the two pneumatic isolation valves within the chilled water distribution lines outside by the air-cooled chillers. The installation and proper operation of the isolation valves will prevent chilled water from the operating chiller from blending with the return water going through the non-operating chiller.

We also propose to replace the exterior chilled water pipe insulation as part of this measure.

Please see Scope of Work Section in the appendix for details on this proposal and also refer to the Building Description Section for thorough descriptions of existing conditions.