DIVISION 23 HEATING, VENTILATING AND AIR CONDITIONING

Section 23 22 13 – Steam & Condensate Heating Piping

PART 1: GENERAL

1.01

A. High-pressure steam and condensate gaskets shall be asbestos-free spiral-wound gasket.

B. Low pressure steam shall be provided by a two-stage steam pressure-reducing station (60 psi reduced to 15 psi), and 25% / 75% PRV's.

C. Steam pressure-reducing valves shall be Spence ED (with SECO-Weld seats) with stainless steel trim or Leslie GPS-1EP with stainless steel trim. Contractor shall provide Owner with manufacturer's recommended repair kit for each steam pressure-reducing valve.

D. Steam PRV's over 2" shall be flanged. 2" or smaller shall be threaded.

E. Campus high-pressure steam is 60 psig, 308° F., with design conditions for 135 psig. (400° F).

F. Avoid 2-1/2, 3-1/2 and 5-inch pipe in steam and condensate systems.

G. Pipe and fittings through the high-pressure PRV's, up to and including the first downstream block valves shall be schedule 80/300 pound.

H. Include certain spare parts in project, deliverable to Owner. These include one spare of every size high-pressure steam trap and high-pressure steam pressure-reducing valve installed.

1.02 Cleaning Steam & Condensate Heating Piping:

A. Steam lines shall be cleaned via a steam blow to atmosphere for a period of 3-5 minutes each five times. Condensate lines can be cleaned by placing in service and wasting condensate to drain until clear/clean.

B. When condensate is placed to drain add cooling medium to the condensate to meet the city temperature requirements.

PART 2: PRODUCTS (NOT USED)

PART 3: EXECUTION (NOT USED)

END OF SECTION 23 22 13