SECTION 15481.P – DOMESTIC HOT WATER INDIRECT HTHW HEAT EXCHANGER

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes domestic hot water indirect HTHW (High Temperature Hot Water) heat exchangers.

B. Related Sections:
   1. Section 15001C – Plumbing Design Criteria
   2. Section 15187P – High Temperature Hot Water Piping
   3. Section 15900C – HVAC BAS
   4. Section 15900PPRS – HVAC BAS

PART 2 - PRODUCTS

2.1 SHELL AND TUBE HEAT EXCHANGERS

A. Construction shall meet the requirements of ASME Boiler and Pressure Vessel Code, Section VIII, American Water Works Association, and TEMA Standards.

B. Tube and Shell heat exchanger shall have removable U-tube bundle.

C. HTHW in tubes.

D. Shell and baffles shall be steel. Tubes shall be 3/4-inch O.D. cupronickel. Head and tube sheets shall be cast iron or steel.

E. Provide mounting saddle.

F. Provide vacuum breaker or vent as required.

G. Selection shall allow for safe operation with HTHW temperatures up to 500°F.

2.2 PLATE AND FRAME HEAT EXCHANGERS

A. Not allowed on HTHW.

PART 3 EXECUTION

3.1 Provide controls and trim to meet requirements of Chief Engineer of the Central Heat Plant and the Engineering Group.

END OF SECTION