SECTION 15480.P – DOMESTIC HOT WATER GAS FIRED HEATERS

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Domestic hot water gas fired heaters.

B. Related Sections:
   1. Section 01352CP – Gas Rebate Program
   2. Section 15001C – Plumbing Design Criteria
   3. Section 15001PPRS – Plumbing Trade Preferences

1.2 DESIGN CRITERIA

A. In buildings connected to HTHW distribution where required for off-season heating or for critical uses where stand-by is required:
   1. Primary hot water shall be provided by indirect heaters served by the high temperature hot water system
   2. Use dual fired HTHW/gas heater or system.
   3. Where dual fired heaters are not applicable, provide interconnected gas-fired domestic water heater. Connect heater to allow automatic operation when HTHW is unavailable. Avoid flow through heater when HTHW is available.

B. In buildings connected to yard steam distribution, provide as above but use steam as primary source.

C. In buildings not connected to HTHW distribution or yard steam, with oil tank in service:
   1. Use dual-fired gas/oil heater where annual hot water demand is expected to incur gas costs over $10,000 per year.

PART 2 - PRODUCTS

2.1 GAS FIRED HEATER

A. Plans, specifications, submittals, and product labeling to indicate that tank is constructed in accordance with Section IV of the ASME Pressure Vessel Code.

B. Burner shall operate at a minimum of 83% efficiency when tested by an independent testing agency.

C. With 140°F stored water, minimum required combustion reading will be 9.5% CO₂ and 300°F approximate stack temperature.

D. Specify heater(s) with minimum five-year warranty on tank(s) and minimum one-year warranty on heating element(s).
E. The heater will be completely packaged, requiring only hookup for electrical, gas, venting, and plumbing.

PART 3 EXECUTION


END OF SECTION