SECTION 22 34 00
FUEL-FIRED DOMESTIC WATER HEATERS

PART 1  GENERAL
1.01  OPERATION AND MAINTENANCE DATA
   A. Include documentation of inspections and tests performed, including logs, curves, and certificates.
   B. Documentation shall note replacement of equipment or components that failed during testing.

PART 2  PRODUCTS
2.01  ACCEPTABLE PRODUCTS
   A. Copper-tube Water Heaters:
      1. Acceptable product:
         a) Aerco Innovation 1060, 800, 600.
   B. Fuel-fired Tank Type:
      1. Acceptable manufacturers: PVI Conquest.
   C. Venting:
      1. Acceptable product: AL29-4C by Security Chimney, Polypropylene, or Schedule 40 PVC Solid Core

PART 3  EXECUTION
3.01  INSTALLATION
   A. No valves shall be installed between the relief valve and its water heater or storage tank. The P & T relief valve shall be installed where the valve actuator comes in contact with the hottest water in the heater. Whenever possible, the relief valve shall be installed directly to a tapping in the tank or heater. Otherwise, install in the hot water outlet piping.
   B. Connections to water heaters shall be made with brass nipples.
   C. Install check valves on cold water supply lines to heaters and hot water storage tanks, to prevent backflow of hot water into the cold water system.
   D. Connections: Coordinate piping installation and specialty arrangement requirements with schematics on drawings.
   E. Sanitary drainage and vent piping installation requirements are included in Division 23.
   F. Provide inlet and outlet pressure gauges on water, compound gauges on inlet and outlet of steam valves, and linear thermometers on hot water outlets and hot water recirculating inlets.
   G. Gas-fired water heaters shall have power burners as a minimum and shall have forced draft if sharing a flue with a forced draft boiler, in which case the water heater's positive pressure at the collar shall be specified.
   H. Provide an expansion tank at DHW system. Tank shall be ASME rated for 200 MBH and above.

END OF SECTION 22 34 00