PART PFH
OPTIONAL REQUIREMENTS FOR FEEDWATER HEATER (WHEN LOCATED WITHIN SCOPE OF SECTION I RULES)

PFH-1

A feedwater heater is a heat exchanger in which feedwater to be supplied to a boiler is heated by steam or water extracted from the boiler or the prime mover. When such a feedwater heater is located within the limit of Section I piping, as defined by PG-58.3, it falls within the scope of Section I rules. With this arrangement, the feedwater heater may be constructed in compliance with Section VIII, Division 1, subject to the following conditions.

PFH-1.1 The feedwater heater shall conform with Section VIII, Division 1 rules for unfired steam boilers [UW-2(c)].

PFH-1.2 The maximum allowable working pressure of the primary (feedwater) side of the heater shall be not less than the design pressure requirements of ASME B31.1, para. 122.1.3.

PFH-1.3 The design temperature of the tubes shall be not less than the saturated steam temperature corresponding to the maximum allowable working pressure of the shell. If the steam entering the shell side of the feedwater heater is superheated, the design temperature of the tubes in the desuperheating zone shall be not less than the saturation temperature corresponding to maximum allowable shell side working pressure plus 35°F (19°C).

PFH-1.4 The feedwater heater shall be stamped with the ASME Code "U" symbol and be documented with the ASME U-1 Data Form.

PFH-1.5 A nameplate per UG-119 shall be furnished and shall show the additional information "and Part PFH of Section I."

PFH-1.6 The Master Data Report for the completed boiler unit (using Manufacturers' Data Report Form P-2, P-3, P3A, or P-5, as applicable) shall indicate "Feedwater heater constructed to Section VIII, Division 1, as permitted by Part PFH."

COPYRIGHT American Society of Mechanical Engineers
Licensed by Information Handling Services