NEBRASKA ADMINISTRATIVE CODE

TITLE 229 - DEPARTMENT OF LABOR

CHAPTER 25 - LOW PRESSURE BOILERS - EXISTING INSTALLATIONS

001. This chapter is adopted pursuant to *Neb. Rev. Stat.* '48-727.

002. The maximum allowable working pressure shall not exceed the following limitations: steam boilers — 15 pounds per square inch, hot water heating and hot water supply boilers — 160 pounds per square inch, and temperatures not exceeding 250 degrees Fahrenheit, potable water heaters — 160 pounds per square inch and temperatures not exceeding 210 degrees Fahrenheit.

003. All repairs and alterations to a low-pressure boiler must comply with the rules as defined in 229 NAC 15.

004. Each steam boiler shall have one (1) or more officially rated safety valves of the spring-pop type adjusted and sealed to discharge at a pressure not to exceed 15 pounds per square inch. These relief valves shall be identified with the AV" or "HV@ symbol. The installation of the required safety relief valve(s) shall meet the requirements outlined in Part HG of ASME Section IV.

005. Each "H" stamped hot-water heating boiler shall have at least one (1) officially rated pressure relief valve set ~~to relieve~~ at or below the maximum allowable working pressure of the boiler. These relief valves shall be identified with the AV@ or AHV@ symbol. The installation of the required safety relief valve(s) shall meet the requirements outlined in Part HG of ASME Section IV.

006. Each "H" stamped hot-water supply boiler shall have at least one (1) officially rated pressure-temperature relief valve of the automatic resealing type set ~~to relieve~~ at or below the maximum allowable working pressure of the boiler or one (1) officially rated pressure relief valve set at or below the maximum allowable working pressure of the boiler. These relief valves shall be identified by the AV@ or AHV@ symbol. The installation of the required safety relief valve(s) shall meet the requirements outlined in Part HG of ASME Section IV.

007. Each "HLW" stamped hot-water heater shall have at least one (1) officially rated pressure-temperature relief valve of the automatic resealing type set at or below the maximum allowable working pressure of the water heater. The temperature setting shall not exceed 210 degrees Fahrenheit. The installation of the required safety relief valve(s) shall meet the requirements outlined in Part HLW of ASME Section IV.

00~~7~~8. All ASME AH@ code stamped boilers installed after March 1, 1998 shall have controls and safety devices installed in accordance with ASME Section IV, Rules for Construction of Heating Boilers and with ASME CSD-1, Controls and Safety Devices for Automatically Fired Boilers.

009. Low pressure steam boilers that are converted to hot water heating boilers shall meet the following requirements:

A. There must be verification that the boiler was originally designed for a dual purpose. This can be confirmed by the ASME nameplate or by obtaining a copy of the original manufacturer's data report. If the boiler cannot be confirmed as being designed for a dual purpose, then a company in possession of the National Board "R" Symbol Stamp shall be contacted to conduct an inspection of the unit for material thickness and design. The "R" Symbol Stamp holder shall follow the requirements outlined in section RC-3000 of the National Board Inspection Code in effecting an alteration on the boiler for the new maximum allowable working pressure and temperature. If an alteration is performed, a copy of the Form R-2 Report of Alteration shall be supplied to the chief boiler inspector.

B. All of the controls and safety devices shall be upgraded to meet the currently adopted edition of ASME CSD-1. The person or company responsible for the conversion of the unit shall submit a copy of the ASME CSD-1 Report to the chief boiler inspector.

C. The existing safety relief valve shall be replaced with the appropriate pressure rated valve, set at or below the maximum allowable working pressure of the unit.

D. A pressure gage and thermometer shall be installed in accordance with Part HG of ASME Section IV.