NEBRASKA ADMINISTRATIVE CODE

TITLE 229 - DEPARTMENT OF LABOR

CHAPTER 16 - INSTALLATION OF USED OR SECONDHAND BOILERS AND PRESSURE VESSELS

001. This Chapter is adopted pursuant to Neb. Rev. Stat. §48-727.

002. Before a used or secondhand boiler or pressure vessel can be installed or shipped into this state, an inspection must be made by the Chief Inspector or a Deputy Inspector or by an owner/user inspection organization inspector. This inspection shall consist of an internal, external and a hydrostatic test to 100% of maximum allowable working pressure (MAWP) as identified on the nameplate or design/data report. This inspection report shall be filed with the Chief Inspector. For secondhand or used boilers or pressure vessels that are to be shipped and installed into this state, if the boiler or pressure vessel has a current certificate of inspection from another state, a copy of that certificate and a copy of the last two inspections shall be supplied to the Chief Boiler Inspector to determine the installation inspection requirements.

003. When a stationary boiler is moved and reinstalled, the attached safety devices, fittings and appurtenances shall comply with the rules and regulations for installation of a new boiler, including but not limited to the regulations contained in 229 NAC 2.

004. The installation, operation, sale, or the offering for sale of non-standard boilers or pressure vessels in this jurisdiction is prohibited without permission from the Department. When approved, they shall be classified as "state specials."

005. Any inspector may decrease the working pressure on any installation if the condition of the boiler or pressure vessel warrants it. A detailed report stating the reasons for lowering the working pressure and supporting calculations, if required, shall be submitted to the Chief Inspector. If the owner or user does not concur with the inspector's decision, the owner or user may appeal to the Commissioner.

006. Used or secondhand boiler control systems shall be upgraded to meet the requirements of the current adopted edition and addenda of ASME CSD-I or the appropriate NFPA standard before they are operated. Reinstalled boilers, as defined in 229 NAC 1, are not required to have the controls upgraded when they are relocated, unless the controls have to be modified for the new location or the use of the boiler has changed.

007. Any portable boiler installed in the jurisdiction shall be inspected by the Chief inspector or a Deputy inspector prior to operation. Portable boilers shall meet the following requirements:

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A. An external inspection of the pressure boundary and all associated piping shall be performed while the unit is under a hydrostatic test of at least 80% of the Maximum Allowable Working Pressure (MAWP) stamped on the ASME nameplate.

B. An external inspection to ensure that all operating controls and safety devices are installed and in good working condition. All seals on the safety relief valves shall be intact or the valve recertified or replaced. All boilers that fall under the requirements of ASME CSD-1 shall have the controls tested upon initial startup and a copy of the Installation report submitted to the Chief Boiler Inspector.

C. An internal inspection will be performed on all units brought into the state that do not have a current Certificate of Inspection or Operation from another National Board member jurisdiction.

D. All boilers rated for 12,500,000 BTU/hr or less shall have an emergency shutdown switch located no closer than 10 feet to the boiler and no more than 25 feet away from the boiler and be plainly marked as the Boiler Emergency Shutdown. This switch shall be wired to remove all power from the boiler controls.

E. If the unit is installed where it is exposed to the elements, all electrical components shall be rated for outdoor use and meet the requirements of NFPA-70.

F. All boiler external and non-external piping shall conform to ASME B31.1. The use of metallic flexible hoses is not allowed other than listed hoses in the fuel train.

G. All gas or oil piping shall meet the requirements of the appropriate code for the piping, NFPA-54, NFPA-58, NFPA-31 or any other adopted code as appropriate.

H. Portable boilers on enclosed trailers shall have the appropriate combustion air supply. If the doors are the only means of air infiltration, the doors shall have interlocks on them so that the boiler will not operate unless the doors are open. If a movable louvered system is installed, the louvers shall be interlocked with the boiler controls to prevent operation if the louvers are closed.

I. All portable boilers on trailers shall be stationed on a solid surface; they shall be supported so that the trailer and boiler are in a level position; and shall be anchored so that the trailer cannot move due to wind or other conditions.

J. Other tests or inspections may be required dependent upon the installation and the overall condition of the unit.

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