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Solid Fuel-Fired Water Heating Appliances



State of Wisconsin
Department of Safety and Professional Services

For more information:
Dsps.wi.gov
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Purpose

The intent of this brochure is to educate and provide direction to Wisconsin owners, operators, installing contractors and dealers about the installation and operation of solid fuel-fired water- heating appliances that are not constructed to the American Society of Mechanical Engineers - ASME code. Compliance per section SPS 341.49 is required in both commercial and residential applications. Registration-SPS 341.41(4) and Inspection-SPS 341.16(3) are required for appliances installed in any commercial application. Prior to installation in one- or two- family dwellings, the owner or installer shall contact local building inspection authorities for procedures and requirements in their area.

- Commercial Inspection requirements can be found within the Wisconsin Administrative.

Definitions

APPROVED—Approved means acceptable to the Department.

CERTIFIED INSPECTOR—Person who holds a valid credential issued by the department under SPS 305 as a “certified” boiler-pressure vessel or UDC inspector.

DEPARTMENT—Means the department of Safety and Professional Services (DPS).

DWELLING—Means any building that contains one- or 2-family dwelling units used as a home/residence per s.101.61, (1) stats.

OWNER or USER—This refers to any person, firm or corporation legally responsible for the safe operation of a boiler or appliance.

TESTING LABORATORIES—Examples of acceptable testing laboratories include but not limited to UL and Factory Mutual.

SOLID FUEL-FIRED WATER-HEATING APPLIANCE—Solid fuel equipment used for space heating and that is not constructed and installed in accordance with the ASME code.

General Requirements

1. REGISTRATION

- a. All solid fuel fired water-heating appliances installed in “commercial” applications shall be registered by the installer before operation on form SBD-6314-E and shall be submitted to the department. Do not submit form SBD-6314-E for appliances serving one- or two-family dwellings.
- b. For solid fuel-fired water-heating appliances serving one- or two-family dwellings per SPS 323.04(4), an owner/installer shall contact their area building inspection office for permitting and inspection per local ordinances and SPS 341.16(1)(b)(2).

2. DESIGN—Solid fuel-fired water-heating appliances shall:

- a. Have a self-contained weather proofing or other weather protection acceptable to the department.
- b. Be listed by a nationally recognized testing laboratory acceptable to the department.
- c. Be designed, constructed and operated at atmospheric pressure. Be vented to prevent a positive pressure condition on the fluid.

3. INSTALLATION—Solid fuel-fired water-heating appliances must be:

- a. Located away from other structures in accordance with the manufacturer’s recommendations.
- b. Enclosed by fencing or other barriers to prevent access or tampering by unauthorized persons.
- c. Provided with a fuel feed system designed, accepted and approved by the original manufacturer.
- d. Provided with a means to prevent freezing of the water supply and return lines.
- e. Installed with piping materials and fittings suitable for temperatures of the distribution system.

4. **INSPECTION**—Inspection of installation is required.
 - a. Solid fuel-fired water-heating appliances shall be inspected by the department or, for one- or two-family dwellings, in accordance with local ordinance for compliance with SPS 341.49 before the appliance is placed in operation.
 - b. Fees for inspection in commercial applications shall be in accordance with SPS 302.04.
5. **REPAIRS**—Repairs must be made in accordance with the manufacturer’s recommendations.

Dsp.s.wi.gov

Visit the Industry Services website to obtain the following for view or print:

- Division Forms, “SBD-6314”
- Boiler Code, “SPS 341”
- UDC Code, “SPS 320-325”
- Specific Programs, “UDC” / “Boilers”
- Staff Contact Information
- Individual Credential / License Status
- Inspector District Maps

