

SOLID FUEL-FIRED WATER-HEATING APPLIANCE

(Space heating units not constructed to ASME)

APPLICATION:

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 41.41(4) and Inspection-SPS 341.16(3) is required for appliances installed in any commercial application. Prior to installation in one- or 2- 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 Code SPS 341: Boiler and Pressure Vessels.

DEFINITIONS:

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 (DSPS).

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 – Means 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 and shall be submitted to the department. Do not submit form SBD-6314 for appliances serving one- or 2-family dwellings.

Boiler and Unfired Pressure Vessel (UPV) Installation Registration
 Personal information you provide may be used for secondary purposes (Privacy Laws 19.34(1) (b))

Installer shall prepare form in triplicate (or make copies for each boiler or pressure vessel installed and submit as follows:

- Original to: Safety and Buildings Division, 612 West Madison, WI 53707-7302
- Copy to Owner
- Copy to Installer

Installation is: New Used

BOILER or UNFIRED PRESSURE VESSEL TYPE:
 POWER BOILER HEATING BOILER MINIATURE/ELECT. BOILER

UNFIRED PRESSURE VESSEL:
 Replace boiler in unfired pressure vessel. Provide "TDS" tag.
 Replace burner assembly or install a new burner assembly with _____ BTU/hr output capacity.
 Convert fuel or increase heat input per Code 41.38. Describe type of fuel conversion: _____

SITE OR EQUIPMENT OWNER INFORMATION

Owner / Contact Name: _____ Owner Contact Telephone: _____
 Owner / Contact Address: _____ Owner / Contact Email: _____
 Owner / Contact Town, Village, City: _____ State: _____ Zip: _____

INSTALLATION SITE INFORMATION

Installation Site Name: _____ Design Pressure or "BHP" (See 19.11): _____
 Installation Site Address: _____ Mfg. E.P.# _____ (If Registration Tag # - suspension area after inspection)
 Installation Site Town, Village, City: _____ State: _____ National Board # _____ Serial # _____
 Building (Location of Installation): _____ (See 19.11, 19.12, 19.13, 19.14, 19.15)

INSTALLER / CONTRACTOR INFORMATION

Installer / Contractor Name: _____ Installer / Contractor Telephone: _____
 Installer / Contractor Address: _____
 Installer Town, Village, City: _____ State: _____ Zip: _____ Installer / Contractor Email: _____
 HSAC Contractor Registration # _____ Expiry Date (mm/dd/yy): _____ Installer / Contractor Signature: _____ Date (mm/dd/yy): _____

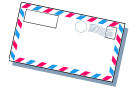
SBD-6314-6 (01/11)

* Codes 41.38 (3) FUEL CONVERSIONS: The owner or user shall report to the department conversions of the boiler's primary fuels to other fuels and shall also report to the department conversions of the boiler's secondary fuels to other fuels. (See 19.11, 19.12, 19.13, 19.14, 19.15.)
* Codes 41.38 (4) HEAT INPUT: The owner or user shall report to the department any modification that increases the heat input capacity of the boiler and shall also report to the department any modification that decreases the heat input capacity of the boiler.
* Codes 41.41(1) Boiler or pressure vessel INSTALLATION REGISTRATION: (a) Except as provided in par. (b), the installation of any boiler or pressure vessel shall be reported with the department by the installer before the operation of the boiler or pressure vessel. Registration shall be in writing on form SBD-6314.

- b. For solid fuel-fired water-heating appliances serving one- or 2-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).

Submit SBD-6314 Forms to:

Department of Safety and Professional Services
 Safety & Buildings Division
 PO Box 7302
 Madison, WI 53707-7302



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 – of installation is required.

- a. Solid fuel-fired water-heating appliances shall be inspected by the department or, for one- or 2-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-must be made in accordance with the manufacturer’s recommendations.

TRY THE SAFETY AND PROFESSIONAL SERVICES WEBSITE:



<http://www.dsps.wi.gov>

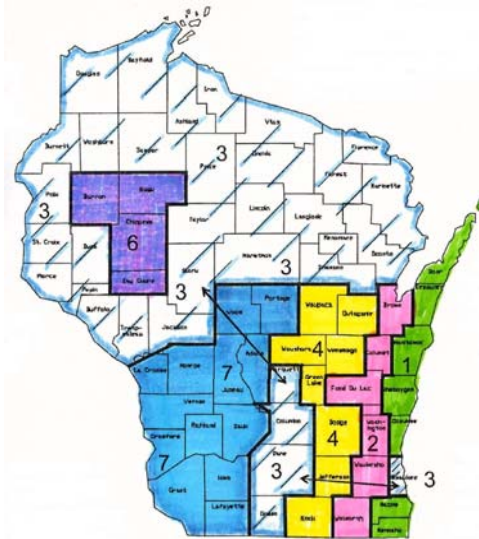
Scroll down the left column to click on Safety & Buildings Division to obtain the following for view or print:

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



SBD-10879 (R12-2011)

COMMERCIAL INSPECTION DISTRICTS



<u>District 1</u> David Homan 262-424-1471	<u>District 2</u> Terence Waldbillig 414-303-8575	<u>District 3</u> Damarc-S 866-361-4321
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<u>District 4</u> Jon Wolf 920-723-0032	<u>District 6</u> Duane Leetch 715-559-8817	<u>District 7</u> Dean Yourchuck 608-235-0607
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* For one- or 2-family dwelling installation, contact local Building Inspection office / SPS 323.04(4) & 341.16(1) b 2.



Waukesha Office

Mike Verhagen 262-548-8617	Rick Merkle, Supervisor 262-521-5065
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SOLID FUEL-FIRED WATER-HEATING APPLIANCES

Safety & Buildings Division
201 W Washington Avenue, 4th Floor
Madison, WI 53703



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