

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 Comm 41.49 is required in both commercial and residential applications. Registration-Comm 41.41(4) and Inspection-Comm 41.16(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 Comm 41: Boiler and Pressure Vessels.

DEFINITIONS:

APPROVED – means acceptable to the Department.

CERTIFIED INSPECTOR – person who holds a valid credential issued by the department under Comm 5 as a “certified” boiler-pressure vessel or UDC inspector.

DEPARTMENT – means the department of Commerce.

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. (See b. below)

commerce.wi.gov Wisconsin Department of Commerce Safety and Buildings Division		Boiler and Unfired Pressure Vessel (UPV) Installation Registration	
Installer shall prepare form in triplicate for each boiler or pressure vessel installed			
1. Original to: Department of Commerce Safety and Buildings Division PO Box 7302 Madison, WI 53707-7302		Boiler and UPV Information <input type="checkbox"/> POWER <input type="checkbox"/> HEATING <input type="checkbox"/> MINATURE / ELECTRIC <input type="checkbox"/> UNFIRED PRESSURE VESSEL <input type="checkbox"/> NEW <input type="checkbox"/> RENEWING EXISTING / Unfired pressure vessel Provide "OLD" tag number: _____ <input type="checkbox"/> USED <input type="checkbox"/> Fuel conversion-increase heat input per 41.38 Type of fuel conversion: _____ <input type="checkbox"/> Replacement/modification of burner assembly New burner assembly capacity output BTU/hr: _____	
2. Copy for owner		LOCATION OF INSTALLATION <input type="checkbox"/> IN BUILDING <input type="checkbox"/> OUTDOOR STREET ADDRESS: _____ HOUSE NUMBER: _____ CITY: _____ STATE: _____ ZIP: _____ MANUFACTURER: _____ MFG. SERIAL NO.: _____	
3. Copy for installer		NAME OF INSTALLING CONTRACTOR: _____ MISC. CONTRACTOR CREDENTIAL # _____ STREET ADDRESS: _____ (ID Number) _____ (Expires Month/Year) _____ CITY: _____ STATE: _____ ZIP: _____ SIGNATURE OF INSTALLER: _____ TELEPHONE (MAIL) _____ DATE: _____	

Send SBD-6314 Forms to:



Department of Commerce
Safety & Buildings Division
PO Box 7302
Madison, WI 53707-7302

- b. For solid fuel-fired water-heating appliances serving one- or 2-family dwellings per Comm 23.04(4), an owner/installer shall contact their area building inspection office for permitting and inspection per local ordinances and Comm 41.16(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 – 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 Comm 41.49 before the appliance is placed in operation.
 - b. Fees for inspection in commercial applications shall be in accordance with Comm 2.04.

5. REPAIRS-must be made in accordance with the manufacturer’s recommendations.

TRY THE COMMERCE WEBSITE:



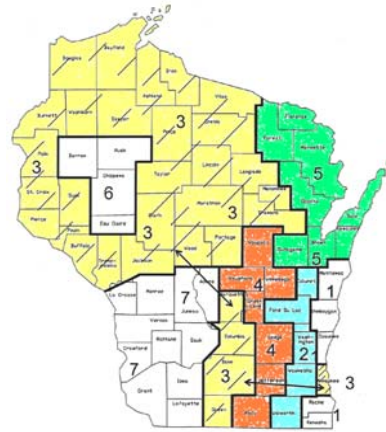
<http://www.commerce.wi.gov>

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 Comm 41”
- UDC Code, “Chs. Comm 20-25”
- Specific Programs, “UDC” / “Boilers”
- Staff Contact Information
- Individual Credential / License Status
- Inspector District Maps



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
<u>District 4</u> Jon Wolf 920-723-0032	<u>District 5</u> James Markiewicz 920-428-9423	<u>District 6</u> Duane Leetch 715-559-8817
<u>District 7</u> Dean Yourchuck 608-235-0607	<u>Waukesha Office</u> Michael Verhagen Plan Review 262-548-8617 Fax-548-8614	<u>Madison Office</u> Rick Merkle Supervisor 608-266-3037 Fax-267-9723

* For one- or 2-family dwelling installation, contact local Building Inspection office per Comm 23.04(4) & 41.16(1) b 2.

For further questions or details on the requirements of solid fuel-fired water-heating appliances contact district inspector or staff.

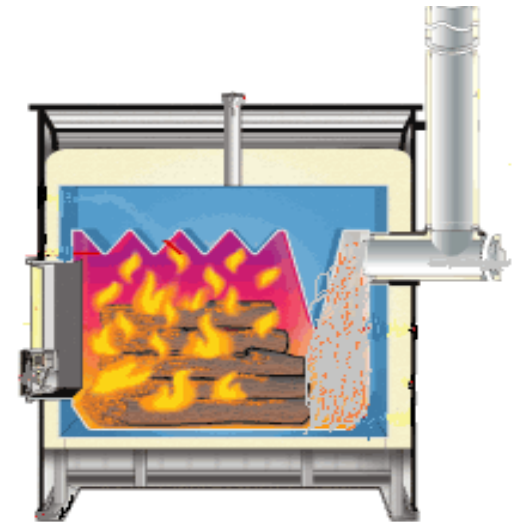
Waukesha office:
Mike Verhagen **262-548-8617**

Madison office:
Joe Hertel, Program Manager **608-266-5649**
Rick Merkle, Supervisor **608-266-3037**



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Safety & Buildings Division
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