

# 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 341.41(4) and Inspection-SPS 341.16(3) are 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.

Department of Safety and Professional Services Safety and Buildings Division		Boiler and Unfired Pressure Vessel (UPV) Installation Registration	
Installer shall prepare form in triplicate (or make copies for each boiler or pressure vessel installed and submit as follows): 1. Original to: <b>Safety and Buildings Division P.O. Box 7302 Madison, WI 53707-7302</b> 2. Copy to Owner 3. Copy to Installer		Installation is: (check appropriate boxes) <input type="checkbox"/> NEW <input type="checkbox"/> USED BOILER or UNFired PRESSURE VESSEL TYPE: <input type="checkbox"/> POWER BOILER <input type="checkbox"/> HEATING BOILER <input type="checkbox"/> MINATURE / ELEC. BOILER <input type="checkbox"/> UNFired PRESSURE VESSEL <input type="checkbox"/> Replace boiler / unfired pressure vessel. Provide "OLD" tag _____ <input type="checkbox"/> Replace / modify an existing burner assembly or install a new burner assembly with _____ BTU/hr output capacity. <input type="checkbox"/> Convert fuel or increase heat input per Codes 41.38. Describe type of fuel conversion: _____	
<b>SITE OR EQUIPMENT OWNER INFORMATION:</b>			
Owner / Contact Name:		Owner / Contact Telephone:	
Owner / Contact Address:		Owner / Contact Email:	
Owner / Contact Town, Village, City:		State: Zip:	
<b>*** Detail Information of Boiler or UPV ***</b>			
<b>INSTALLATION SITE INFORMATION</b>		Manufacturer's Name:	
Installation Site Name:	Site County:	Design Pressure or MAWP: (Boiler tag only)	
Installation Site Address:	Site ID #:	WI Registration Tag # (Inspector entry after inspection)	
Installation Site Town, Village, City:	State: Zip:	National Board #:	Serial #:
<b>INSTALLER / CONTRACTOR INFORMATION</b>		Building Location of Installation: (No. Bldg., 2 <sup>nd</sup> floor, Penthouse etc.)	
Installer / Contractor Name:		Installer / Contractor Telephone:	
Installer / Contractor Address:		Installer / Contractor Email:	
Installer Town, Village, City:	State: Zip:	Installer / Contractor Signature:	Date: (mm-dd-yy)
WISC Contractor Registration # (Expires Date: mm-dd-yy)			

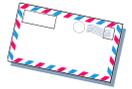
SBD-6314-E (01/11)

- Codes 41.38 (2) FUEL CONVERSIONS. The owner or user shall report to the department conversions of the boiler's primary fuels to other fuels and shall use department form SBD-6314 for the notification. (Fuel conversion example: wood-bk, oil-gas, gas-oil etc.)
- 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 use department form SBD-6314 for the notification.
- 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 registered 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  
Division of Industry Services  
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.

Visit the Department of Safety & Professional Services Website



<http://dsps.wi.gov>

After entry to the website above, go to the page that lists all Division programs to obtain details in “3” easy steps:

1. Click ... “Industry Services”
2. Click ... “Division Programs”
3. Click ... “Boilers”

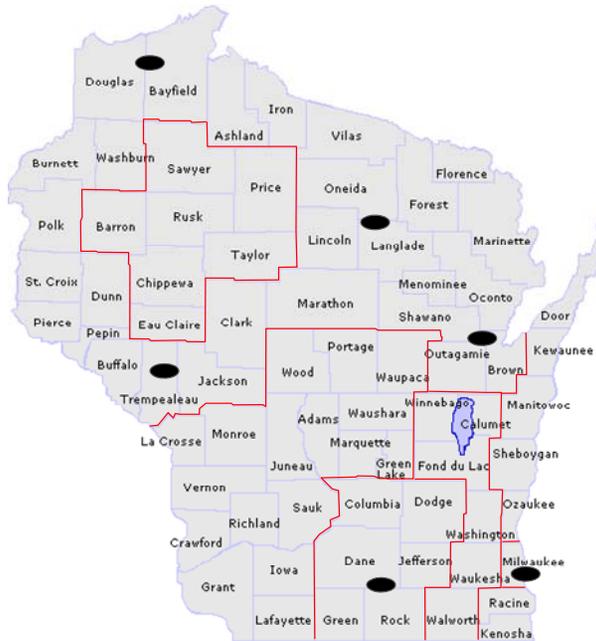
You can now conveniently view or print:

- Boiler Code, “Chapter SPS 341”
- Boiler forms / SBD-6314
- Brochures / Solid fuel fired Appliances
- District Inspector District Map



SBD-10879 (R06-13)

### COMMERCIAL INSPECTION DISTRICTS



1. Duane Leetch 715-559-8817
2. Dean Yourchuck, Jr. 608-235-0607
3. Terence Waldbillig 414-303-8575
4. David Homan 262-424-1471

● Damarc Quality Inspection, LLC 866-361-4321

Note: For one- or 2-family dwelling installation, contact local Building Inspection per SPS 323.04(4) & 341.16(1) b 2.



Waukesha Office

Mike Verhagen 262-548-8617  
Rick Merkle, Section Chief 262-521-5065



## SOLID FUEL-FIRED WATER-HEATING APPLIANCES

Division of Industry Services  
1400 E Washington Ave  
Madison WI 53703



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