

GENERAL INFORMATION

Boiler & Pressure Vessels

Visit the Department of Safety and Professional Services Website:

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

(Scroll down left, Click Safety & Buildings Div.)

Conveniently obtain for view or print:

- Staff Contact Information
- Specific Programs, "Boilers"
- Code Copies, "Chapter SPS 341"
- Inspector District Maps
- Division Forms, "SBD-6314 or SBD-5204"
- Credential Status or Applications
- Regulated Object data



CODE SECTION HIGHLIGHTS

SPS 340 – Gas Systems Code

PLAN REVIEW REQUIRED

- *Liquid Petroleum Gas
 - Containers 2000 gallons and larger
 - Aggregate 4000 gallons and larger
- *Compressed Natural Gas
 - No size limitations
- *Liquid Natural Gas
 - Containers 2000 gallons and larger
- *Adopted Standards
 - NFPA 58 – LPG
 - NFPA 52 – CNG
 - NFPA 59A – LNG
 - ANSI/ASME B31.3 – Piping

SUBMIT PLANS & APPLICATION FORM

- *SBD-6038 – Install application and plans

Scaled plans see SPS 340.10
Indicate roads and property lines
Foundation – pier, bulkhead, supports
Piping schematic w/materials
Vessel information – provide
Manufacturers Data Report (MDR)
Surface area of tank
Pressure relief set/capacity

- *Site Inspection necessary after plan approval
Contact District Inspector

SPS 341 – Boiler & Pressure Vessels

INSTALLATION REGISTRATION REQUIRED

- *SBD-6314 / Boiler & Pressure Vessel Form
By installing contractor ... no fee

PERMIT TO OPERATE "PTO" REQUIRED

- *Power Boilers Annual
Internally inspected
- *Heating Boilers Every 3 yrs
Steam or hot water boilers
Internally or externally inspected
- *Pressure Vessels
 - Air tanks (≥ 12 cu ft) Every 3 yrs
 - Other tanks (> 5 cu ft) Every 3 yrs
 - Externally inspected

Note: See SPS 341.18, Exemptions from inspection

- *SBD-5204 / Power piping form
Steam pipe systems over 15 PSIG

Note: SBD-5204 form shall be completed and made available to the certified inspector at the time of inspection. Fee by hour/2 hour minimum. Inspection is required for power piping over 2" NPS / exceeding 50 feet in length.

WELDED REPAIR / ALTERATIONS

Repair and alterations to boilers and pressure vessels must be completed in accordance with the National Board Inspection Code (NBIC) by a valid National Board "R" stampholder. All repairs and alterations including "routine repairs" shall

be registered on the appropriate form with the National Board per SPS 341.62.

DEFINITIONS

- *Certified Inspector – Person who holds a valid credential issued by the department under ch SPS 305 as a certified boiler-pressure vessel inspector
- *External Inspection – An inspection made while the boiler or pressure vessel is in operation
- *Internal Inspection – An inspection made when the boiler or pressure vessel is shut down and hand hole and manholes or other openings are opened or removed for inspection of the interior as required by the inspector
- *Power Piping – Steam piping in excess of 15 psig or hot water piping in excess of 250 degrees F beyond the scope of boiler external piping
- *Power piping standard - Is ANSI/ASME B 31.1 adopted in SPS 341 for the design and installation of power piping. Purchase from ASME @ 1-800-843-2763.

NATIONAL BOARD COMMISSION EXAMS

*Commission exams can be scheduled the first Wednesday and half day Thursday of March, June, September and December, Fee per SPS 302.11(8). Contact the Waukesha office.

SPS 343 – Anhydrous Ammonia

PLAN REVIEW REQUIRED

- *Anhydrous Ammonia Storage
 - No size limitations
- *Adopted Standards
 - ANSI / K 61.1 – NH3
 - ANSI / ASME B31.3 - Piping

SUBMIT PLANS & APPLICATION FORM

- *SBD-6038 – Installation application
Scaled plans see SPS 343.10
Indicate roads and property lines

Foundation – pier, bulkhead, supports
 Piping schematic w/materials
 Vessel information – provide MDR
 Surface area of tank
 Pressure relief set/capacity

*Site inspection necessary after plan approval
 Contact District Inspector

PERMIT TO OPERATE REQUIRED

*Anhydrous ammonia storage every 3 yrs.
 External inspection performed
 *Nurse tank inspection every 3 yrs.
 External inspection performed

SPS 345 – Mechanical Refrigeration

INSTALLATION REGISTRATION REQUIRED

*SBD-34 / Mechanical refrigeration form
 *SBD-5204 / Welded refrigeration piping form
 Both by installing contractor ... no fee

Note: No fee for registration submittal but fees are levied for mandatory inspections per Chapt. SPS 302.

PERMIT TO OPERATE “PTO” REQUIRED

*Toxic-flammable refrigerant systems
 10 ton and above ... annual inspection
 *Regular refrigerant systems
 50 Ton & above ... inspect every 3 yrs
 *Equipment externally inspected

Note: Single family and duplex installations are exempt from PTO requirements but contact your local authority for permit or inspection requirements in your area.

HVAC CONTRACTOR REGISTRATION

*HVAC Contractor is a “Business registration”
 Initial Application \$15.00
 Registration/Renewal \$160.00 / 4 years
 *Refrigerant handling technician card
 Certification/Renewal...\$20.00 / 4 years
 + Proof of EPA Technician Certification
 *SPS Chapter 305 for specific credential details
 *Contact **Credential office @ 1-608-261-8500**

SBD-7833 (R-12-2011)

Note: Copy of EPA Section 608 certification may be required with application for state issuance of refrigerant handling technician “RHT” card. Federal EPA rules apply for ozone-depleting refrigerant recovery, recycling and reclaiming. Questions on Federal rules.

Contact EPA HOT LINE 1-800-296-1996

STRUCTURAL STEEL WELDING

*Structural welders shall be qualified in accordance with AWS D1.1, D1.2, D1.3 or D1.6
 *Structural steel weld test conductors are required to pass a written WI exam before conducting structural steel weld tests.
 Initial Application Fee \$15
 Exam \$20.00, certification \$80.00
 Renewal every 4 years

Note: A list of WI certified weld test conductors is provided on the welder’s application form.

*For WI structural welder qualification:
 1. Obtain a structural welder application
 2. Consult with a WI weld test conductor
 3. Perform weldment of test coupon
 4. Upon satisfactory test results
 5. Initial application fee \$15
 6. Return application with \$35.00 Fee
 7. Welder re-test/renewal every 4 years

*Applications, examination or renewals
 Contact Credentials .. **608-261-8500**

PLAN SUBMITTALS / ASSISTANCE

To: DSPS – Safety & Buildings
 141 NW Barstow St, 4th Floor
 Waukesha WI 53188

Contact: Mike Verhagen /262-548-8617
 Email: mike.verhagen@wi.gov

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BOILER PRESSURE VESSEL PROGRAM

Safety and Buildings Division
 201 W Washington Ave, 4th Floor
 Madison WI 53703



Inspection Districts

District 1 David Homan 262-424-1471	District 2 Terence Waldbillig 414-303-8575	District 4 Jon Wolf 920-723-0032
District 6 Duane Leetch 715-559-8817	District 7 Dean Yourchuck, Jr. 608-235-0607	District 3 Damarc-s Dresser WI 54009 886-361-4321
<u>Waukesha Office</u> Rick Merkle		