



STATE OF WISCONSIN
Department of Safety and Professional Services

SAFETY AND BUILDINGS DIVISION
Gas System
141 NW Barstow St
Waukesha, Wisconsin 53188-3789
4TH FLOOR

Governor Scott Walker **Secretary Dave Ross**

TTY: Contact Through Relay

January 1, 2012

Potential Plan Designers for Liquid Petroleum Gas (LPG), Compressed Natural Gas (CNG), Including Dispensing Systems, Liquid Natural Gas (LNG), Anhydrous Ammonia (NH₃) Tanks and Systems, Gaseous Hydrogen Systems (H₂) and Liquefied Hydrogen Systems (H₂)

FROM: Department of Safety and Professional Services

SUBJECT: **PLAN SUBMITTAL PROCEDURES**

Under Chapters SPS 340.30/LPG, LNG, CNG, Hydrogen Systems and Dispensing Systems and Chapter SPS 343.10/NH₃ of the Wisconsin Administrative Codes, plans must be submitted with appropriate fees per SPS Chapter 302 for approval prior to commencing construction. Plans must be reviewed within 15 days of receipt or a 50% refund of the plan exam fee shall be made per section Chapter SPS 302.07(1). The electrical requirements, an integral part of most systems must comply with Chapter SPS 316 but are not addressed during this plan examination. Since this is an attempt to provide a "general" guideline for plan submittal in several areas, designers should reference all applicable code sections for details and requirements that may not be listed below. Therefore additional information may be requested for approval determination.

Plan submittal should include:

1. APPLICATION LPG, LNG, CNG, Hydrogen Systems and NH₃ tanks/systems: complete form **SBD-6038**
2. PLANS **Submit four (4) sets of scaled plans as required.**
Recommend scale minimum 1" = 20 feet. NOTE: For NH₃ plans, plot plan showing land use within 2000 feet does not require minimum scale but should indicate land use within 2000 foot radius drawn on such drawing.
3. FEES **Enclose \$700.00 fee** (Checks payable to Safety and Buildings Division)
LPG, CNG, LNG, Hydrogen Systems and Dispensing Systems: \$700.00 (Plan exam \$300.00 / site inspection 400.00 per SPS 302.43) NH₃: \$700.00 (Plan exam and external site inspection per SPS 302.12)
Note: Inspection fees for more than 2 site inspections shall be in accordance with s. SPS 302.04.
4. SPECIFICATIONS **Submit (2) copies of all applicable specifications**
Include materials, piping (welded or threaded), all valves, fittings, hoses, check/excess-flow valves, corrosion protection where applicable and etc
5. CALCULATIONS Include size, capacity and surface area of each tank (calculate if not provided on nameplate or MDR info), and state the system design pressure
6. NAME & ADDRESS Owner, Designer or Installer and Facility should be indicated on application
7. TANK SUPPORTS Clearances, type of venting, pressure relief used with combined capacity on each container or tank, foundation design and support should be provided with plan drawings

8. DISPENSERS Location of emergency controls, location of dispensers and details of dispensing devices should be indicated on plans

In addition to the above, scaled plans should be clear, legible and permanent, include names of adjacent streets, alleys, railways and highways, indicate property and lot lines in all directions, show all buildings on property with type of construction, the layout of buildings, containers, loading and unloading docks and any body of water within 150 feet of the containers must be identified. Welded piping requires qualified welders and welding documentation.

Please send your complete plans and information to:

DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES
SAFETY AND BUILDINGS DIVISION
141 NW BARSTOW STREET, 4th FLOOR
WAUKESHA, WI 53188

Call 262-548-8617/FAX-548-8614 for further information or assistance.

NOTE 1: **Chapter SPS 340 Gas Systems** Effective September 1, 2011, LPG, LNG, CNG, Hydrogen Systems, and Dispensing Systems, plans will be reviewed in accordance with Chapter SPS 340, which includes adoption of NFPA 58, 2011 edition.

NOTE 2: **Chapter SPS 343, Anhydrous Ammonia** Effective October 1, 2000 Anhydrous Ammonia plans will be reviewed in accordance with Chapter SPS 43, which includes adoption of ASME/ANSI K61.1 1999 edition.

NOTE 3: **Visit our website** for SPS 343 or any other code via the internet @ <http://dsps.wi.gov/sb/SB-DivCodesListing.html> scroll down and click on the code chapter you need, click for view or print.

(R-01-12)