

## Chapter ILHR 11

## LIQUEFIED PETROLEUM GASES

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Note: Ch. Ind 9 as it existed on December 31, 1984 was repealed and chs. ILHR 11 and 12 were created effective January 1, 1985.

## Subchapter 1 — Purpose and Application

**ILHR 11.001 Purpose.** The purpose of this code is to provide safe installation, operation, use, maintenance and transportation of liquefied petroleum gas equipment and systems.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85.

**ILHR 11.002 Application.** The rules of this chapter shall apply to the design, construction, location, installation, operation, repair and maintenance of equipment for the storage, handling and use of liquefied petroleum gases in dwellings, public buildings and places of employment. The rules shall also apply to the transportation of liquefied petroleum gases by tank truck or tank trailer but not to railroads engaged in interstate commerce or to equipment used by them.

Note: In addition to the requirements of this chapter, employes in public sector places of employment are protected by the provisions of ch. ILHR 32 - Safety and Health Standards for Public Employes. Employes in private sector places of employment are protected by the regulations of 29 CFR of the U.S. department of labor, occupational safety and health administration (OSHA).

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85.

## Subchapter II — Definitions

**ILHR 11.01 Definitions.** In this chapter:

(1) "Approved" means acceptable to the department.

Note: The department will ordinarily accept items approved by a nationally recognized testing laboratory.

(1h) "Authorized inspector" means a boiler or pressure vessel inspector who holds a valid certificate of competence issued by the department.

(2) "Container" means all vessels such as tanks, cylinders, bottles or drums used for transporting or storing of liquefied petroleum gas.

(3) "Department" means the department of industry, labor and human relations.

(4) "Dwelling unit" means a structure, or part of a structure, which is used or intended to be used as a home, residence or sleeping place by one person or by 2 or more persons maintaining a common household, to the exclusion of all others.

(5) "Place of employment" means every place, whether indoors or out or underground, and the premises appurtenant thereto, where either temporarily or permanently any industry, trade or business is carried on, or where any process or operation, directly or indirectly related to any industry, trade or business is carried on, and where any person is, directly or indirectly, employed by another for direct or indirect gain or profit, but does not include any place where persons are employed in private domestic service which does not involve the use of mechanical power or in farming.

Note: This definition is taken from s. 101.01 (2) (f), Stats.

(6) "Pressure vessel" means a container for the containment of pressure, either internal or external. This pressure may be obtained from an external source or by the application of heat from a direct or indirect source, or any combination thereof.

(7) "Public building" means any structure, including exterior parts of the building, such as a porch, exterior platform or steps providing means of ingress or egress, used in whole or in part as a place of resort, assemblage, lodging, trade, traffic, occupancy, or use by the public or by 3 or more tenants.

Note: This definition is taken from s. 101.01 (2) (g), Stats.

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(8) "Secondhand vessel" means a pressure vessel that has changed location subsequent to the original installation.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85; cr. (1h), am. (5), Register, June, 1993, No. 450, eff. 7-1-93.

### Subchapter III — Administration and Enforcement

**ILHR 11.10 Certificate of installation.** Every person, firm, association or corporation installing equipment using liquefied petroleum gas in containers of 125 gallons or larger water capacity shall complete a certificate of installation form. The certificate of installation form shall be completed at the time of installation, shall be kept at the liquefied petroleum gas installation and shall be available for review by an authorized representative of the department. For installations using containers of 2000 gallons or larger water capacity, a copy of the installation form shall also be submitted to the local fire department within 10 business days of the installation.

Note 1: The liquefied petroleum gas certificate of installation form (SBD-9656) is available from the Safety and Buildings Division, P.O. Box 7969, Madison, WI 53707.

Note 2: Section 101.16 (4), Stats., indicates that the installation form must be given to the customer or user and that the form state that the design, construction, location and installation of the equipment conforms with this chapter.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85; r. and recr. Register, June, 1993, No. 450, eff. 7-1-93.

**ILHR 11.11 Approval of proposed construction, installation and operation of liquefied petroleum gas facilities.** (1) **DEPARTMENT APPROVAL.** Department approval shall be obtained before commencing construction on any liquefied petroleum gas installation using containers of 2000-gallon or larger water capacity.

(2) **PLANS, SPECIFICATIONS AND INFORMATION.** Plans, specifications and information submitted to the department for review and approval shall contain the following:

(a) At least 4 sets of plans, which are clear, legible and permanent copies, and one copy of specifications, fees and a completed application;

(b) The name of the owner; the name of the person, firm or corporation proposing the construction or installation, if other than the owner; the address of the facility including the names of adjacent streets and highways;

(c) A plot plan, drawn to a minimum scale of one inch equals 20 feet, indicating the location of the facility or installation with respect to property lines, lot lines, adjoining streets or alleys and other buildings on the same lot or property. The layout of buildings, containers, loading and unloading docks, type of construction of each building and any stream or body of water within 150 feet of the containers shall also be indicated;

(d) The location, size and capacity of each container;

(e) The type of container supports, clearances, type of venting and pressure relief used and combined capacity of all venting and relief valves on each container; and

(f) Plans for service stations involving the use of key, card or code dispensing units shall indicate the location of

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emergency controls and shall include the following, if applicable:

1. The location and details of the key, card or code operated dispensing devices;

2. A copy of the agreement between the key, card or code holder and the station owner; and

3. A copy of the program used to train those persons who will operate the key, card or code dispensing devices.

(3) **ADDITIONAL APPROVAL.** Approval of plans is based upon compliance with the requirements of this chapter. Storage, handling and use of liquefied petroleum gases may be subject to compliance with additional requirements in applicable codes, local zoning and similar ordinances.

(4) **APPLICATION FOR APPROVAL.** Applications for approval of a liquefied petroleum tank installation shall be made in writing on form SBD-6038.

Note: See Appendix for an example of form SBD-6038.

(5) **APPLICATION PROCESSING TIME.** The department shall process all applications and shall approve, conditionally approve or deny the application in writing within 15 working days of receipt of the application.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85; r. and recr. (1) and (4), renum. (2) (a) to (e) to be (2) (b) to (f) and am. (2) (c), cr. (2) (a), Register, June, 1993, No. 450, eff. 7-1-93.

**ILHR 11.12 Revocation of approval.** The department may revoke any approval issued under the provisions of this chapter for any false statements or misrepresentation of facts upon which the approval was based.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85.

**ILHR 11.13 Departmental limitation and expiration of plan approval.** Plan approval by the department or its authorized deputy shall expire one year after the date indicated on the approved plans, if construction has not commenced within that year.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85.

**ILHR 11.14 Enforcement and inspections.** (1) **ENFORCEMENT.** The rules in this chapter shall be enforced by the department and its deputies, and by all local officials or bodies having jurisdiction to approve plans or specifications or issue permits for construction, alterations or installations within the scope of this chapter or having authority to investigate and eliminate related fire hazards.

(2) **INSPECTIONS.** Inspections shall be conducted during or after construction or installation by an authorized representative of the department or by local officials having jurisdiction to ascertain whether or not the construction or installations conform to the conditionally approved plans, the conditional approval letter, and the provisions of this chapter.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85.

**ILHR 11.15 Fees.** Fees shall be submitted to the department as specified in ch. ILHR 2. Fees shall be submitted at the time the application for approval is submitted. No

plan examinations, approvals or inspections may be made until the fees are received.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85; am. Register, June, 1993, No. 450, eff. 7-1-93.

**ILHR 11.16 Appeals.** As specified in s. 227.12, Stats., any municipality, corporation or any 5 or more persons having an interest in an administrative rule may appeal to the department requesting the adoption, amendment or repeal of the rule.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85; am. Register, June, 1993, No. 450, eff. 7-1-93.

**ILHR 11.17 Petition for variance. (1) PROCEDURE.** The department shall consider and may grant a variance to an administrative rule upon receipt of a fee, a completed petition for variance form from the owner and a position statement from the fire department having responsibility provided an equivalency is established in the petition for variance which meets the intent of the rule being petitioned. The department may impose specific conditions in a petition for variance to promote the protection of the health, safety or welfare of the employees or the public. Violation of those conditions under which the petition is granted shall constitute a violation of this chapter.

**(2) PETITION PROCESSING TIME.** Except for priority petitions, the department shall review and make a determination on a petition for variance within 30 business days of receipt of all calculations, documents and fees required to complete the review. The department shall process priority petitions within 10 business days.

Note 1: See Appendix for an example of the Petition for Variance Form (form SBD-8) and the Fire Department Position Statement Form (form SBD-8A).

Note 2: Section 101.02 (6), Stats., outlines the procedure for submitting petitions to the department and the department's procedures for hearing petitions.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85.

**ILHR 11.18 Penalties.** Penalties for violations of this chapter shall be assessed in accordance with s. 101.16 (5), Stats.

Note: Section 101.16 (5), Stats., indicates that any person, firm, association or corporation who violates s. 101.16, Stats., or any standard, rule or regulation adopted by the department under that section, or issuing a false installation statement under s. 101.16 (4), Stats., will be fined not less than \$25 nor more than \$100, or imprisoned not less than 30 days nor more than 6 months.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85; r. and recr. Register, June, 1993, No. 450, eff. 7-1-93.

#### Subchapter IV — Standards

**ILHR 11.20 Adoption of standards by reference. (1) CONSENT.** Pursuant to s. 227.21, Stats., the attorney general and the revisor of statutes have consented to the incorporation by reference of the standards listed in sub. (4).

**(2) INTERIM AMENDMENTS.** Interim amendments of the listed standards shall have no effect in the state until such time as this section is correspondingly revised to reflect those changes.

**(3) COPIES OF STANDARDS.** Copies of the listed standards are on file in the offices of the department, the secretary of state and the revisor of statutes. Copies for personal use may be obtained, at a cost, from the organization listed.

**(4) STANDARDS.** The following standards are hereby incorporated by reference into this chapter, subject to the changes specified in s. ILHR 11.21:

(a) American Petroleum Institute, 1220 L Street Northwest, Washington D.C. 20005. Design and Construction of Liquefied Petroleum Gas Installations, API Standard 2510, 6th Edition, April 1989.

(b) National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269.

1. National Fuel Gas Code, NFPA No. 54-1992.

2. Storage and Handling of Liquefied Petroleum Gases, NFPA No. 58-1992.

3. Storage and Handling of Liquefied Petroleum Gases at Utility Gas Plants, NFPA No. 59-1992.

4. Recreational Vehicles, NFPA No. 501C-1990, Chapter 2 - Fuel Systems and Equipment.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85; r. and recr. Register, June, 1993, No. 450, eff. 7-1-93.

**ILHR 11.21 Amendments to NFPA standards. (1) QUALIFICATION OF PERSONNEL.** Substitute the following wording for NFPA No. 58 section 1-6:

In the interest of safety, all persons employed in handling liquefied petroleum gases shall be trained in proper handling and operating procedures, which the employer shall document.

**(2) LOCATION OF CONTAINERS.** The following are department rules in addition to the requirements in NFPA No. 58 section 3-2.2.2:

(a) The setbacks for aboveground containers specified in Table 3-2.2.2 of NFPA No. 58 may be reduced to a minimum of 15 feet if a 4-hour fire-rated wall is placed between the container and the building or property line that may be built upon. The 15-foot distance shall be measured from the side of the fire wall away from the tank to the building or property line.

(b) Fire walls used for setback reduction shall:

1. Extend laterally 3 feet beyond the container and 3 feet above the container;

2. Be placed at least 10 feet from the container;

3. Allow fire department access to the building and the container; and

4. Be constructed on no more than 2 sides of the container.

(c) The setback reduction allowed in par. (a) applies to containers of 1201 to 50,000 gallons water capacity.

**(3) CONTAINERS TO BE FILLED.** Substitute the following wording for NFPA No. 58 section 4-2.2.1:

Containers shall be filled only by the owner or upon the owner's authorization.

Note: Section 101.16 (3), Stats., indicates that no person, firm or corporation, except the owner thereof and those duly authorized by the owner so to do, shall fill, refill or use in any manner a liquefied petroleum gas container or receptacle for any purpose whatsoever.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85; r. and recr. Register, June, 1993, No. 450, eff. 7-1-93.

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**ILHR 11.22 Construction, installation, operation and maintenance of liquefied petroleum gas facilities.** All liquefied petroleum gas facilities shall be constructed, installed, operated and maintained as specified in the following standards:

(1) **AMERICAN PETROLEUM INSTITUTE.** Design and Construction of Liquefied Petroleum Gas Installations, API Standard 2510.

(2) **NATIONAL FIRE PROTECTION ASSOCIATION.** (a) National Fuel Gas Code, NFPA No. 54 as referenced in NFPA No. 58.

(b) Storage and Handling of Liquefied Petroleum Gases, NFPA No. 58.

(c) Storage and Handling of Liquefied Petroleum Gases at Utility Gas Plants, NFPA No. 59.

(d) Recreational Vehicles, NFPA No. 501C Chapter 2 - Fuel Systems and Equipment.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85; r. and rec. (1) and (2), Register, June, 1993, No. 450, eff. 7-1-93.

### Subchapter V — General Requirements

**ILHR 11.30 Self-service to vehicle fuel tanks and recreational equipment.** (1) **GENERAL.** No person, except the following, may dispense any liquefied petroleum gases unless the dispensing is through approved liquefied petroleum gas dispensing devices or devices pending approval:

(a) Trained authorized employe of a bulk storage plant, container charging plant or service station; or

(b) Trained authorized motor vehicle fleet employes.

(2) **LOCATION OF KEY, CARD OR CODE DISPENSING SYSTEMS.** (a) *Attended locations.* Liquefied petroleum fueling facilities may be located in areas accessible or open to the general public provided the facility is equipped with key, card or code operated dispensing devices listed or approved by a nationally recognized testing laboratory and an attendant is on duty at all times when liquefied petroleum gas is being dispensed.

(b) *Nonattended locations.* Dispensing of liquefied petroleum gas may be permitted without an attendant provided the dispensing facility is not freely accessible or open to the general public and the facility is equipped with approved key, card or code operated dispensing devices.

(3) **POSTING OF SIGNS.** A permanent sign providing a 24 hour service call telephone number in letters at least one

inch high shall be posted at the dispensing device in all nonattended locations.

(4) **PUBLIC SELF-SERVICE PROHIBITED.** Self-service of liquefied petroleum gas by the general public shall be prohibited.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85.

**ILHR 11.31 Identification of vehicles powered by liquefied petroleum gases.** History: Register, December, 1984, No. 348, eff. 1-1-85; r. Register, June, 1993, No. 450, eff. 7-1-93.

**ILHR 11.32 Dispensing prohibition.** History: Register, December, 1984, No. 348, eff. 1-1-85; r. Register, June, 1993, No. 450, eff. 7-1-93.

**ILHR 11.33 Fuel supply tanks for liquefied petroleum cargo tank trucks.** Every motor vehicle operated by liquefied petroleum gas fuel shall be equipped with a liquefied petroleum gas fuel supply tank separate from and in no way connected to any liquefied petroleum cargo tank on or attached to the motor vehicle.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85.

**ILHR 11.34 Piping.** History: Cr. Register, December, 1984, No. 348, eff. 1-1-85; r. Register, June, 1993, No. 450, eff. 7-1-93.

**ILHR 11.35 Containers and pressure vessels.** Design, construction, and repairs and alterations by welding to liquefied petroleum gas containers and pressure vessels shall conform to the requirements of chs. ILHR 41 and 42.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85.

**ILHR 11.36 Secondhand pressure vessels.** The use of secondhand pressure vessels, having a water capacity in excess of 2,000 gallons and intended for liquefied petroleum gas service, shall be prohibited, unless the following conditions are satisfied:

(1) **MANUFACTURER'S DATA REPORT.** The original manufacturer's data report is available. If the original manufacturer's data report is unavailable, documentation acceptable to the department shall be submitted;

(2) **ALTERATIONS AND REPAIRS BY WELDING.** All alterations and repairs by welding are documented in writing to verify compliance with chs. ILHR 41 and 42; and

(3) **OTHER REQUIREMENTS.** An inspection of the pressure vessel has been performed at its new location by an authorized inspector.

History: Cr. Register, December, 1984, No. 348, eff. 1-1-85; am. (1) and (3), Register, June, 1993, No. 450, eff. 7-1-93.

**ILHR 11.37 Valve outlet seals.** History: Cr. Register, December, 1984, No. 348, eff. 1-1-85; r. Register, June, 1993, No. 450, eff. 7-1-93.