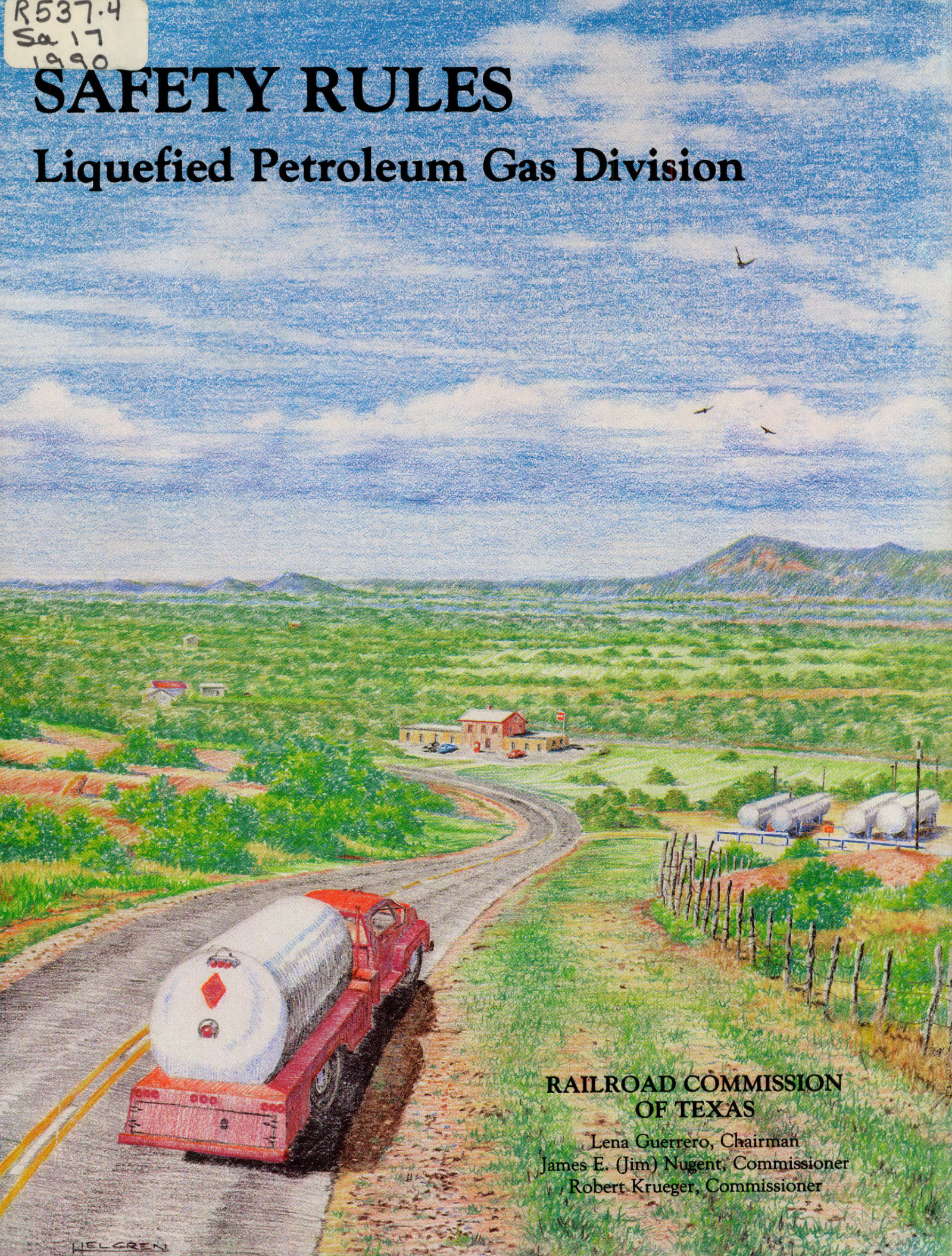
SAFETY RULES

Liquefied Petroleum Gas Division



RAILROAD COMMISSION OF TEXAS

Lena Guerrero, Chairman
James E. (Jim) Nugent, Commissioner
Robert Krueger, Commissioner

Safety Rules of the Liquefied Petroleum Gas Division

A manual of rules and procedures for handling and odorizing liquefied petroleum gases in Texas, including specifications for design, construction, and installation of equipment used in transportation, storage and distribution.

Revised November 1990

RAILROAD COMMISSION OF TEXAS

Lena Guerrero, Chairman
James E. (Jim) Nugent, Commissioner
Robert Krueger, Commissioner

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(B) Where ICC or DOT containers are not used in the manner prescribed by the DOT, they cease to be under the DOT jurisdiction. When installed in Texas and used as LP-gas consumer containers, they are subject exclusively to the rules of the Railroad Commission of Texas. Where such containers are privately owned and permanently installed, they are not operated as prescribed by DOT regulation.

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RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

L. P. GAS DOCKET NO. 1
201

IN RE: LIQUEFIED PETROLEUM GAS
DOCKET NO. 1: GENERAL REVISION

ORDER

WHEREAS, After due notice, for the time and in the manner prescribed by law, the Railroad Commission of Texas held a hearing on September 9, 1969 to consider the application of Texas L. P. Gas Association for a general review and revision of Liquefied Petroleum Gas Docket No. 1 and to adopt certain amendments, additions, and revisions of such Docket pertaining to the handling and odorization of Liquefied Petroleum Gases and specifications for the design, construction and installation of equipment used in the transportation, storage, and dispursing (sic) of liquefied petroleum gases; and

WHEREAS, From the testimony adduced at said hearing, from the interested parties in attendance, and from its own review of Liquefied Petroleum Gas Docket No. 1 and the proposed changes tendered, it appears to the Commission that the rules and regulations governing the Liquefied Petroleum gas industry as adopted in said Docket No. 1 have been effective for 15 years without major revision, that the technology of the industry has developed and changed to the extent that a modernization of the rules is considered reasonably necessary to assure the use of the most efficient safety regulation to protect the public and also to facilitate industry progress, that increased safety can be made effective without stifling the industry by adoption of certain changes in the rules; and

WHEREAS, The Commission is of the opinion and finds that revisions, amendments, and additions to the Liquefied Petroleum Gas Docket No. 1 are necessary and proper for the safety and protection of the public, it further finds that the body of rules attached to this order and made a part of this order should be adopted as Liquefied Petroleum Gas Docket No. 1, 1970 Revision.

NOW, THEREFORE, IT IS ORDERED By the Railroad Commission of Texas that effective January 1, 1970 that Liquefied Petroleum Gas Docket No. 1, being the rules and regulations heretofore adopted to govern the handling and odorization of liquefied petroleum gases and specifications for design, construction, and installation of equipment used in the transportation, storage, dispursing(sic), and consumption of liquefied petroleum gases, be and it is revised, and amended to read and provide as set out in the attached compilation.

IT IS FURTHER ORDERED By the Railroad Commission of Texas that this cause be and the same is held open on the Docket in order to permit and for the purpose of permitting any affected party to present to the Commission, after due notice and hearing, any matter pertaining to the application of the provisions of the order here entered in this cause, and for the further purpose of enabling such party to seek through the Commission such relief as he deems he is entitled to in the premises.

Done this the 22 day of December, 1969.

RAILROAD COMMISSION OF TEXAS

/s/ Ben Ramsey, *Chairman*
/s/ Byron Tunnell, *Commissioner*
/s/ Jim C. Langdon, *Commissioner*

ATTEST:
/s/ Fred Osborne, Secy.

(Seal)

Subchapter A. GENERAL APPLICABILITY AND REQUIREMENTS

§9.1. Application of Rules.

The Liquefied Petroleum Gas Division (LP-Gas) Safety Rules are intended to apply to the design, construction, location, and operation of liquified petroleum-gas systems, equipment, and appliances. These standards do not apply to marine terminals, natural gasoline plants, refineries, tank farms, gas manufacturing plants, plants engaged in processing liquefied petroleum gases, or to railroad loading racks used in connection with such establishments; provided that such standards shall apply to truck loading racks.

(1) **Basic Rules.** The basic rules apply to all divisions except as otherwise indicated.

(2) **Division I.**

(A) Division I applies to LP-gas systems utilizing containers constructed in accordance with specifications issued by the United States Interstate Commerce Commission (ICC) or United States Department of Transportation (DOT). When DOT or ICC containers are used in the manner prescribed by the DOT, then DOT rules shall apply to container transportation and handling.

(B) Where ICC or DOT containers are not used in the manner prescribed by the DOT, they cease to be under the DOT jurisdiction. When installed in Texas and used as LP-gas consumer containers, they are subject exclusively to the rules of the Railroad Commission of Texas. Where such containers are privately owned and permanently installed, they are not operated as prescribed by DOT regulation.

(3) **Division II.** Division II applies to consumer LP-gas systems utilizing containers constructed in accordance with the Boiler and Pressure Vessel Code of the American Society of Mechanical Engineers, Division I.

(4) **Division III.** Division III applies to bulk storage containers at installations where gas is stored, but not used on the premises.

(5) **Division IV.** Division IV applies to nonspecification cargo tanks used in the transportation and distribution of LP-gas, and each truck used principally for transporting LP-gas in portable containers.

(6) **Division V.** Division V applies to LP-gas motor fuel and mobile fuel containers installed and used on automobiles, trucks, buses, tractors, construction machinery, and farm tractors and other types of farm machinery.

(7) **Division VI.** Division VI applies to vaporizers used with portable, mobile, or stationary LP-gas installations.

(8) **Division VII.** Division VII applies to LP-gas piping and piping systems.

(9) **Division VIII.** Division VIII applies to approved LP-gas appliances and pertinent equipment used in making appliance installation and regulates their location, installation and connection.

(10) **Division IX.** Division IX applies to storage containers, dispensing devices, and pertinent equipment used in bottle filling plants and service stations where LP-gas is stored and dispensed from fixed LP-gas equipment.

(11) **Division X.** Division X applies to farm carts which are used for the transportation and distribution of LP-gas.

(12) **Division XI.** Division XI applies to industrial fork lifts, trucks, and other LP-gas powered vehicles and carburetion equipment specifically designed to be used in a building or on a consumer's premises.

(13) **Division XII.** Division XII applies to LP-gas fuel dispensers.

(14) **Division XIII.** Division XIII applies to the installation or repair of LP-gas container(s), piping, or appliances in recreational vehicles.

(15) **Division XIV.** Division XIV applies to cargo tanks constructed to MC-330 and 331 Department of Transportation (DOT) specifications used in the transportation and distribution of LP-gas.

§9.2. Definitions.

The following words and terms, when used in this chapter shall have the following meanings, unless the context clearly indicates otherwise.

Appliance—Any apparatus or fixture that uses or consumes LP-gas furnished or supplied by an LP-gas system to which it is connected or attached.

Approved—Authorized for LP-gas service and/or installation by the commission.

ASME container—Any LP-gas container manufactured to the specifications of the American Society of Mechanical Engineers, Division I, Section VIII in effect at the time of fabrication.

Automatic dispenser—A dispensing device to which access is controlled by a key, a card, or a code locking system, without which the dispenser cannot be operated.

Certified—Authorized to perform LP-gas related work as set forth in the Texas Natural Resources Code. Employee certification alone does not allow an individual to perform those activities which require licensing.

Commission—The Railroad Commission of Texas.

Container—Any receptacle, (i.e. American Society of Mechanical Engineers (ASME) container or Department of Transportation (DOT) container) designed for the transportation or storage of LP-gas, or any receptacle designed for the purpose of receiving injections of LP-gas for use or consumption by or through an LP-gas system.

Dispensing system—That combination of valves, meters, hoses, piping, electrical connections, and/or fuel connections at a stationary installation used to distribute LP-gas to portable DOT containers or DOT/ASME mobile or motor fuel containers.

Division—The Liquefied Petroleum Gas Division of the commission.

Division director— The division's executive head appointed by the commission to execute and enforce the LP-Gas Safety Rules and the Texas Natural Resources Code.

DOT container—Any LP-gas container manufactured to the specifications of the United States Department of Transportation and/or the United States Interstate Commerce Commission, regardless of whether those standards are still in effect or whether those agencies assert jurisdiction over a particular container.

Employee—Any individual who renders or performs any services or labor for compensation and includes individuals hired on a part-time or temporary basis or on a full-time or permanent basis, including an owner-employee.

Licensee—A person, partnership, corporation, joint ventureship, or other business entity which has applied for and been granted an LP-gas license by the commission.

Liquefied petroleum gas, LPG, or LP-gas—Any material that is composed predominantly of any of the following hydrocarbons or mixtures of hydrocarbons: propane, propylene, normal butane, isobutane, and butylenes.

LP-gas system—All piping, fittings, valves, and equipment, excluding containers and appliances, that connect one or more containers to one or more appliances that use or consume LP-gas.

Material handling equipment—Includes, but is not limited to, pumps, meters, filling connections, compressors, emergency shut-off valves, and bulkheads. Material handling equipment does not include any automatic dispenser or manual dispenser (i.e. pipe riser).

Outlet—A site operated by an LP-gas licensee at which the business conducted materially duplicates the operations for which the licensee is initially granted a license. A final determination as to what constitutes an outlet will be made by the director as per §9.8(a) of this title (relating to Designation of Operations Supervisor).

Person—An individual, partnership, corporation, joint ventureship or licensee.

Property line—That intangible boundary which designates the point at which one property interest ends and another begins.

PSI, PSIG, and PSIA—Pounds per square inch, pounds per square inch gauge, and pounds per square inch absolute, respectively.

Public building—Any building where the public conducts business on the premises which includes all commercial installations such as, but not limited to, forklift, private motor fuel and cylinder filling installations. A final determination as to what constitutes a public building will be made by the director.

Repair to container—The correction of damage or deterioration to an LP-gas container, or the alteration of the structure of such a container, or the welding on such container in a manner which causes the temperature of the container to rise above 400°F.

Representative—The person designated by a licensed applicant or licensee as the principal person in authority who is responsible for actively supervising the licensee's LP-gas activities.

Subframing—The attachment of supporting structural members to the pads of a container but does not include welding directly to or on the container.

Transfer system—All piping, fittings, valves, and equipment utilized in dispensing LP-gas between containers.

Transport—Any bobtail or semitrailer equipped with one or more containers.

Transport system—Any and all piping, fittings, valves, and equipment on a transport, excluding the container.

Water capacity—The amount of water, in pounds or gallons, at 60° F (15.6°C) required to fill a container liquid full of water.

§9.3. Categories of Licensees. (Amended 11-90)

A prospective licensee may apply to the LP-Gas Division for a license to engage in one or more of the following categories:

(1) Category A—Manufacturers and/or fabricators, which covers the manufacture, fabrication, assembly, repair, installation, subframing, and sale of LP-gas containers, including LP-gas motor fuel containers and systems, and the repair and installation of transport and transfer systems.

(2) Category B—Transport outfitters, which covers the subframing and sale of LP-gas transport containers, the installation and sale of LP-gas motor fuel containers, and the installation and repair of transport and motor fuel systems.

(3) Category C—Carriers, which covers the transportation of LP-gas by transport, including the loading and unloading of LP-gas, and the installation and repair of transport systems.

(4) Category D—General installers and repairmen, which covers the sale, service, and installation of containers, excluding motor fuel containers, and the service, installation, and repair of piping, certain appliances as defined by rule, and LP-gas systems, excluding motor fuel systems. The service and repair of an LP-gas appliance not required by the manufacturer to be vented to the atmosphere is exempt from Category D licensing. The installation of these unvented appliances to LP-gas systems by means of LP-gas appliance connectors is also exempt from Category D licensing.

(5) Category E—Retail and wholesale dealers, which covers the storage, sale, transportation, and distribution of LP-gas at retail and wholesale, and all other activities included in this section except the manufacture, fabrication, assembly, repair, and subframing of LP-gas containers.

(6) Category F—Cylinder exchangers, which covers the operation of a cylinder filling and container exchange dealership, including cylinder filling, the sale of bottled LP-gas in cylinders, and the replacement of a cylinder valve.

(7) Category G—Service station, which covers the operation of an LP-gas service station filling ASME containers designed for motor or mobile fuel.

(8) Category H—Cylinder dealers, which covers the transportation and sale of LP-gas in cylinders.

(9) Category I—Service station and cylinder exchanges, which covers any service station and cylinder activity set in Category F and Category G of this section.

(10) Category J—Service station and cylinder dealerships, which covers the operation of a cylinder filling and container exchange dealership, including cylinder filling and the sale, transportation, installation, and connection of LP-gas in cylinders, and the replacement of cylinder valves, and the operation of an LP-gas service station as set out in Category G.

(11) Category K—Distribution system, which covers the sale and distribution of LP-gas through mains or pipes and the installation and repair of LP-gas systems.

(12) Category L—Carburetion, which covers the sale and installation of LP-gas motor fuel containers, and the sale and installation of LP-gas motor fuel systems.

(13) Category M—Recreational vehicle installers and repairmen, which covers the sale, service, and installation of recreational vehicle containers, and the installation, repair, and service of recreational vehicle appliances, piping, and LPG systems including recreational vehicle motor fuel systems and containers.

(14) Category N—Manufactured housing installers and repairmen, which covers the service and installation of containers that supply fuel to manufactured housing, and the installation, repair, and service of appliances and piping systems for manufactured housing.

§9.4. Registration Fees for Testing Laboratories. New (11-90)

(a) Each testing laboratory that proposes to test any container for the purpose of determining the safety of the container for LP-gas service in the State of Texas must apply for registration with the division and renew thereafter by midnight April 30th of each year, by submitting a fee as required in paragraph (2) of this subsection, along with any information the division may reasonably require, but not limited to the following:

(1) LPG Form 27, Application for Testing Laboratories Registration;

(2) an original non-refundable registration fee of $300. The annual registration fee shall be $150. Late renewals are permitted by submitting the original registration fee plus a $75 penalty fee, which must be received by midnight June 30th;

(3) submit written procedures for the testing activities to be performed. Such written procedures shall be in accordance with the current publication "American Society for Non-Destructive Testing," Document SNT-TC-la, ASME Code, Section VIII, Division I. Procedures relating to hydrostatic testing must include the use of a pressure chart reorder; and

(4) certificates of insurance as required by the Texas Natural Resources Code, §113.135.

(b) After reviewing the necessary material for registration, the division will notify the applicant in writing of registration approval or denial.

(c) Any modifications of such procedures must be submitted for approval prior to implementation.

(d) Failure of any testing laboratory to renew its registration by midnight June 30th will result in a formal hearing to consider the cancellation of the registration as set forth in the Texas Natural Resources Code, §113.135.

§9.5. Course of Instruction.

(a) No more than one year prior to taking the LP-gas management examination, all representatives and operations supervisors for prospective Category D, E, F, G, I, J, K, and L licensees shall attend and complete an approved course of instruction.

(b) However, any Category D, E, F, G, I, J, K, and L representative or operations supervisor who has been in a qualified status for a minimum of three years with an active licensee immediately prior to taking the management examination for the category of his qualified status shall not have to attend the course of instruction.

(c) The Category E course of instruction shall be given in Austin at times to be determined by the division director, and shall be a minimum of 40 hours of classroom instruction.

(d) The course of instruction for Category D, F, G, I, J, K, and L representatives or operations supervisors shall be given monthly in selected sites around the state and shall be a minimum of one hour instruction effective September 1, 1990.

(e) No course of instruction is required for Category A, B, C, and H representatives and operations supervisors.

(f) The director of the LP-Gas Division may, for good cause shown, allow an individual to become conditionally qualified as a Category D, E, F, G, I, J, K and L representative or operations supervisor by taking the management examination if that individual attends and completes the appropriate course of instruction no more than 100 days after taking and passing the management examination. If such individual fails to complete the course of instruction within the time granted by the director, the conditional qualification shall be voided.

§9.6. Examination and Notification Generally.

(a) Each individual wishing to submit to examination by the LP-Gas Division shall file with the division, LPG Form 16 prior to the examination and within any deadlines established by the division.

(b) The LP-Gas Division will administer all examinations in Austin and at other selected sites, when appropriate, unless an applicant demonstrates good cause for administering examination elsewhere. Good cause includes, but is not limited to, severe economic hardship.

(c) Satisfactory completion of any required examination shall accrue to the individual.

(d) Failure of any examination shall immediately disqualify the individual from performing any LP-gas related activities covered by the examination which is failed.

(e) Information regarding examinations may be acquired from the Austin office of the LP-Gas Division.

(f) Any individual who fails to pass any test administered by the LP-Gas Division may not be re-examined for a period of at least 24 hours.

(g) A licensee shall notify the LP-Gas Division when a previously qualified person is hired, by immediately filing a Form 16-A with the division.

(h) Any notice, application, or statement submitted to the LP-Gas Division shall have effect only on the date of receipt in the Austin office, and not on the date of mailing. In this regard, the division charges the licensee with the duty to ensure by whatever means necessary that correspondence reaches the division promptly. Notice may be received by United States mail, by telegram, or by private postal carrier at the Austin office of the division. Notice may also be delivered in person or by any other appropriate means.

(i) Each person qualified by examination for a management level Category D, E, F, G, or I, and all employees qualified by examination for delivery truck driver, service and installation, DOT cylinder filling, and motor/mobile fuel dispensing must pass a subsequent examination or participate in a required seminar every fourth calendar year beginning with the fourth year following year of qualification. (For example: a person qualified in 1988 must attend another requalification seminar or pass a subsequent examination in 1992).

(j) Dates and locations of examinations and seminars shall be listed in a schedule made annually by the division. This schedule will be prepared no later than November 15th each year and shall state who is required to take examinations or participate in seminars. The division shall post the schedule in its Austin office and shall make the same available to any individual who requests one.

(k) In order to maintain qualified status, each person who has been qualified by examination shall pay the sum of $10 annually to the division, on or before the 31st day of May. If this fee is not received by the deadline, that person shall cease performing all LP-gas related activities. Upon receipt of the $10 fee, plus a $10 late filing penalty in the Austin office, which must be received by midnight the 31st day of August of each year, that person may resume performing LP-gas activities.

(l) Failure to meet a deadline set forth in this section shall result in a lapse of qualification. If a person suffers a lapse in qualification, that person must immediately cease performance of any LP-gas related activities which require qualification. Once lapsed, qualified status can only be regained by passing an appropriate examination.

§9.7. Examination of Representative.

(a) Each applicant for a license or license renewal shall file with the division LPG Form 1, designating a representative who shall be an owner or employee of the licensee and shall be directly responsible for actively supervising LP-gas operations of the licensee.

(b) An applicant for license may not engage in LP-gas related activities governed by the Texas Natural Resources Code, Chapter 113, until its representative has passed the management examination administered by the LP-Gas Division. The division shall not issue or renew a license unless the representative has passed this examination.

(c) The licensee shall notify the LP-Gas Division in writing upon termination of its representative of record and shall at the same time designate a replacement by submitting a new LPG Form 1.

(d) The licensee must cease operations if, at the termination of its representative, there is no other qualified representative of the licensee acknowledged and recorded by the LP-Gas Division at its Austin office. The licensee may not resume operation until such time as it has a qualified representative, or unless it has been granted an extension of time in which to comply under the Texas Natural Resources Code, Chapter 113.

(e) A licensee may have more than one representative.

§9.8. Designation of Operations Supervisor.

(a) The LP-Gas Division shall designate whether a site is an outlet for the purpose of this subchapter.

(b) A licensee maintaining more than one outlet shall designate a person as operations supervisor at each outlet. The operations of the licensee at the outlet may not commence or continue when the operations supervisor has not passed the management examination as administered by the LP-Gas Division.

(c) An operations supervisor may be a representative of the licensee, provided, however, that an individual may be designated as an operations supervisor at no more than one outlet.

(d) The operations supervisor shall be directly responsible for actively supervising LP-gas operations of the licensee at the designated outlet.

§9.9. Examination for Certification.

(a) No individual may work or be employed in any capacity which requires contact with LP-gas or LP-gas systems, until that person has submitted to and passed an LP-Gas Division examination which tests working knowledge of the Texas Natural Resources Code and the LP-Gas Division safety rules related to the type of LP-gas work anticipated. This section applies to all licensees and their employees who perform LP-gas related activities. This rule also applies to any ultimate consumer who has purchased, leased, or obtained other rights in any vessel defined as an LP-gas transport by this subchapter and includes any employee of such an ultimate consumer if that employee drives or in any way operates such an LP-gas transport.

(b) Notwithstanding the requirements of subsection (a) of this section, a licensee or consumer may employ an individual as a trainee for a period not to exceed 45 days, without that person having passed the necessary examination. During this training period, however, the trainee must be directly and individually supervised at all times by an individual who has passed the LP-Gas Division examination for the areas of work being performed by the trainee. In addition, the licensee or ultimate consumer is responsible for ensuring that an LPG Form 16 is on file with the LP-Gas Division for each employee in training, at the time that the training employee begins LP-gas related activities. No trainee may perform any work while unsupervised, if such work involves LP-gas of LP-gas systems.

(c) A trainee who attempts to pass an LP-Gas Division examination, and who fails the examination, shall cease to perform any LP-gas related activities covered by the examination failed. A trainee who has been in training for a total period of 45 days, in any combination or for any number of employers, shall cease to perform any LP-gas related activities.

(d) A trainee who continues to work in violation of this section may be held responsible for the violation. An employer who employs an individual in violation of this section may be held responsible for the violation. Possible penalties for violation are set forth in the Texas Natural Resources Code, Chapter 113, or an administrative hearing to show cause why a license should not be subject to revocation, suspension, or probation, or a combination of these penalties.

§9.10. Examination Fees.

Each applicant shall pay to the LP-Gas Division in advance a nonrefundable examination fee for each required examination. The fee for all categories of management examination shall be $25 per exam. The fee for all employee examinations shall be $10 per exam. If an applicant fails an examination, the full examination fee shall be charged for each subsequent examination.

§9.11. General Installers and Repairmen Exemption (New 11-90)

(a) Any person who is currently licensed as a master or journeyman plumber by the Texas State Board of Plumbing Examiners or who is currently licensed with a Class A or B air conditioning and refrigeration contractors license issued by the Department of Licensing and Regulation may apply for and be granted an exemption to the Category D management examination and seminar requirements by submitting to the commission the following information:

(1) LPG Form 16B, Application for Examination Exemption by a Master or Journeyman Plumber/Class A or B Air Conditioning and Refrigeration Contractor;

(2) a copy of the person's current license issued by either the State Board of Plumbing Examiners or the Department of Licensing and Regulation;

(3) a $15 original filing fee; and

(4) any information the division may reasonably require.

(b) This exemption does not become effective until the examination exemption card is issued by the commission.

(c) Exempted individuals as noted in subsection (a) of this section cannot perform LP-gas related activities until that individual's company complies with all other applicable licensing requirements of a Category D licensee.

(d) The examination exemption accrues to the applicant and is non-transferable.

(e) Any person granted such exemption must maintain qualified status at all times. Upon failure to maintain qualified status, all affected LP-gas operations must cease immediately until proper status has been regained.

(f) In order to maintain qualified status, each person issued an examination exemption card shall submit a copy of his current license issued either by the Texas State Board of Plumbing Examiners or the

Department of Licensing and Regulation and pay a $10 fee annually to the commission on or before the 31st day of May of each year. If both of these items are not received by the deadline, that person shall cease performing all LP-gas related activities granted by this exemption and may not resume such activities until that person is in receipt of his examination exemption card. Late renewals are permitted for a period of time not to exceed two years by paying a late filing penalty plus the yearly renewal fee(s) as follows:

(1) If the applicant's exemption has been expired for up to 92 days, the applicant's penalty fee is $10 plus a $10 annual fee.

(2) If the applicant's exemption has been expired for greater than 92 days, but not longer than two years, the applicant's penalty fee is $25 plus a $10 annual fee. If an applicant's exemption has been expired for longer than two years, the applicant cannot renew his exemption and must apply for a new original exemption.

(g) Failure to comply with any of the LP-Gas Safety Rules and/or the Texas Natural Resources Code, Chapter 113, will subject the exempted individual to the same enforcement provisions applicable to any licensee, registrant, or violator.

(h) Each applicant for license who plans to substitute a person as noted in subsection (a) of this section for his company representative may do so provided that person complies with all of the other requirements of a licensee's company representative as noted in § 9.7 of this title (relating to Examination of Representative).

(i) Each applicant for license who substitutes a person as noted in subsection (a) of this section may do so provided the person(s) listed on LPG Form 1A, Branch Outlet List, complies with all of the other requirements of a licensee's operations supervisor(s) as noted in § 9.8 of this title (relating to Designation of Operations Supervisor).

(j) Any person who is issued this exemption agrees to comply with the current edition of the LP-Gas Safety Rules. In the event the exempt individual surrenders, fails to renew, or has his license revoked either by the Texas State Board of Plumbing Examiners or Department of Licensing and Regulations, that person will immediately cease performing any LP-gas activity granted by this section. The examination exemption card must be returned immediately to the LP-Gas Division and all rights and privileges surrendered.

§9.12. Qualification of Inspectors.

All persons inspecting liquefied petroleum gas vessels during the process of fabrication shall be qualified in accordance with the provisions set forth in the ASME Boiler and Pressure Vessel Code, Division I, §VIII, in effect at the time of inspection. All such qualified inspectors shall file proof of qualification with the LP-Gas Division prior to inspecting any vessel which will be used in LP-gas service in Texas.

§9.13. Containers for Hot Air Balloons. (New 11-90)

Any fuel cell approved by the Federal Aviation Administration (FAA) and intended to be solely used as a fuel cell for hot air balloons is not subject to the rules of the LP-Gas Division.

§9.14. Severability. (New 11-90)

If any term, clause, or provision of these rules is for any reason declared invalid, the remainder of the provisions shall remain in full force and effect and shall in no way be affected, impaired, or invalidated.

§9.15. LP-Gas Report Forms. (Amended 11-90)

Under the provisions of the Texas Natural Resources Code, Chapter 113, the Railroad Commission of Texas has adopted by reference the following forms for use by the Liquefied Petroleum Gas (LP-Gas) Division. These forms are available to the public upon request directed to the LP-Gas Division in Austin.

(1) LPG Form 1. Application for License.

(2) LPG Form 1A. Branch Outlet List.
(3) LPG Form 3. Liquefied Petroleum Gas License.
(4) LPG Form 4. Liquefied Petroleum Gas Vehicle Identification.
(5) LPG Form 5. Manufacturer's Data Report, which shall be filed within 10 days after sale of containers by manufacturer.
(6) LPG Form 7. Liquefied Petroleum Gas Truck Registration.
(7) LPG Form 8. Manufacturer's Report of Pressure Vessel Repair or Modification.
(8) LPG Form 8A. Report of DOT Cylinder Repair.
(9) LPG Form 16. Application for Examination.
(10) LPG Form 16A. Qualified Employee Transfer Certification.
(11) LPG Form 16B. Application for Examination Exemption by a Master or Journeyman Plumber/Class A or B Air Conditioning and Refrigeration Contractor.
(12) LPG Form 17. Report of Odorization of Liquefied Petroleum Gases, which shall be filed within 30 days following calendar quarters ending March 31, June 30, September 30, and December 31, by any persons, firms, or corporations who odorize liquefied petroleum gases.
(13) LPG Form 18. Statement of Lost or Destroyed License.
(14) LPG Form 18B. Statement of Lost or Destroyed LPG Form 4 Decal.
(15) LPG Form 19. Inventory of Liquefied Petroleum Gas Bulk Storage Plants.
(16) LPG Form 20. Report of LP-Gas Incident/Accident.
(17) LPG Form 21. Notice of Intent to Appear (see §9.18 of this title (relating to Answer Requirement in Commission-Called Hearing)).
(18) LPG Form 22. Report of LP-Gas Safety Rule Violation(s).
(19) LPG Form 23. Statement in Lieu of Container Testing.
(20) **LPG Form 25. Application and Notice of Exception to the LP-Gas Safety Rules.**
(21) LPG Form 26. Franchise Tax Certification.
(22) LPG Form 27. Application for Testing Laboratories Registration.
(23) LPG Form 500. Application for Tentative Approval.
(24) LPG Form 500a. Notice of LP-Gas Installation.
(25) LPG Form 501. Completion Report.
(26) LPG Form 502. Application for Liquefied Petroleum Gas Equipment and Componet Approval.
(27) LPG Form 503. Application to Install a LP-Gas System on School Bus/Mass Transit Vehicles.
(28) LPG Form 504. Notice of Subsequent Installation or Conversion by the same Ultimate Consumer or Licensee.
(29) LPG Form 996A. Certificate of Insurance, Worker's Compensation and Employer's Liability.
(30) LPG Form 996B. Statement in Lieu of Worker's Compensation and Employer's Liability Insurance.
(31) LPG Form 997A. Certificate of Insurance, Motor Vehicle Bodily Injury, and Property Damage Liability.
(32) LPG Form 997B. Statement in Lieu of Motor Vehicle Bodily Injury, and Property Damage Liability Insurance.
(33) LPG Form 998A. Certificate of Insurance, General Liability.
(34) LPG Form 998B. Statement in Lieu of General Liability Insurance and/or Completed Operations and Products Liability Insurance.
(35) LPG Form 999. Notice of Insurance Cancellation.

§9.16. Franchise Tax Certification and Assumed Name Certificates. (New 11-90)

(a) Any applicant for an original or renewal license must file LPG Form 26, Franchise Tax Certification, with this office prior to the issuance of such license, certifying that its Texas franchise taxes are current or such taxes are not applicable to his company. Making a false statement as to franchise tax status is grounds for the denial, suspension, or revocation of the license granted by this division.

(b) Any applicant for license must list all names on LPG Form 1, Application for License, under which LP-gas related activities requiring licensing are to be conducted. Any company performing LP-gas

activities under an assumed name (dba) must file with this office copies of the assumed name certificates which are required to be filed with the respective county clerk's office and/or the Secretary of State's office.

§9.17. Registration of LP-Gas Transport.

(a) Each transport truck, trailer, or other motor vehicle equipped with an LP-gas cargo tank and each truck used principally for transporting LP-gas in portable containers shall be registered with the commission.

(b) A licensee who has purchased, leased, or obtained other rights to use any unit described in subsection (a) of this section shall register that unit in the name or names under which the licensee conducts business before the transportation of LP-gas by means of that unit.

(c) An ultimate consumer of LP-gas who has purchased, leased, or obtained other rights to use any unit described in subsection (a) of this section shall register that unit in the person's name before transportation of LP-gas by means of that unit on public roads or highways.

(d) The registration fee for each unit is $150 a year for any LP-gas cargo trailer or semitrailer and $100 a year for any bobtail or cylinder delivery unit. Such fee must be paid in full before any unit may be registered or reregistered.

§9.18. Answer Requirement in Commission-Called Hearing.

(a) Filing of answer. The respondent/dealership in any cause of action for which notice of hearing has been served and which cites such dealership to be in violation of the LP-Gas Code or any rule or standard promulgated by the Railroad Commission of Texas pursuant to its statutory authority shall have five days from the date notice is received to file an answer to the charge or charges set out therein with the LP-Gas Division. Filing under this section shall be deemed accomplished when an answer is posted with the United States mail before or on due date, properly addressed and stamped with sufficient postage, or at such other time as an answer is physically delivered to the LP-Gas Division, whichever occurs first. Extension of time for filing an answer shall be considered upon motion and granted for good cause where it should appear that time for filing is insufficient. Motions for postponement of hearing date will be granted for good cause where it should appear that time for filing under these rules cannot otherwise be met or where other grounds for postponement exist.

(b) Content of answer. The answer shall contain a written statement signed by one authorized to bind the respondent/dealership which shall admit or deny, in whole or in part, the charge or charges stated in the notice of hearing or shall state the reason or reasons why it can neither admit nor deny the charges against it and shall specifically state that part, including any allegation of fact made therein, which is denied where the charge or charges are disputed in part only. In the event that the respondent denies all or part of the charge(s) contained in the notice of hearing, the answer shall contain a concise account of the facts which the respondent contends will refute all or any part of the charge(s) against it. The respondent may additionally plead in his answer as many several matters, whether of law or fact, as he may think necessary for his defense. Further, the answer shall contain a waiver of attorney where the respondent/dealership does not choose to be represented by counsel at hearing; such waiver will not deny the respondent the right to legal representation should the respondent actually appear at hearing with or through an attorney. The answer shall also contain a statement of respondent's intent to appear at hearing or, alternatively, its decision to suffer a default judgment.

(c) Amendments to answer. The answer may be amended at any time prior to or on the date for filing such pleading and thereafter with consent of all parties or upon finding that amendment will not operate to prejudice or unduly surprise any party to the cause of action.

(d) Form of answer. An answer made pursuant to this section may be made on LPG Form No. 21, adopted for use by the LP-Gas Division and available to the public upon request directed to such division in Austin, Texas. Alternatively, a respondent may submit the information required by subsection (b) of this section on 8½ inch by 11 inch or 8½ inch by 14 inch paper, making reference to the dealership name and the docket number in the cause.

§9.19. Changes in Ownership and/or Form of Dealership.

(a) Transfer of dealership outlet/location(s) by sale, lease, or gift.

(1) Licensing. The purchaser, lessee, or donee of any dealership outlet or location shall apply for and be issued an LP-gas license prior to engaging in any dealership operation which requires such a license.

(2) Notice. The purchaser, lessee, or donee of any dealership outlet or location or the authorized representative thereof shall notify the division by certified mail of a completed transfer of such outlet or location prior to engaging in any operation through that outlet or location which requires an LP-gas license.

(b) Other changes in ownership.

(1) Licensing. Upon the death of a sole proprietor or partner, or the dissolution of a corporation or partnership, or any change in members of a partnership, or other change in ownership not specifically provided for elsewhere in this section, all operations of the previously existing dealership which require an LP-gas license shall cease immediately and no operation shall resume until an LP-gas license is issued to the successor(s) in interest and the notice requirement of subsection (b)(2) of this section has been satisfied.

(2) Notice. An authorized representative of the previously existing dealership or of successor(s) in interest shall notify the division by certified mail of the death of a sole proprietor or partner, or the dissolution of a partnership or corporation, or any change in partnership members, or other change in ownership not specifically provided for elsewhere in this section.

(3) Change in partnership members. A change in members of a partnership occurs upon the death, withdrawal, expulsion, or addition of a partner.

(c) Change in dealership business form.

(1) Licensing. When a dealership converts from one business entity into a different kind of business entity, the resulting dealership must apply for and be issued a license before engaging in any operation which requires an LP-gas license.

(2) Notice. A dealership's authorized representative shall notify the division by certified mail of an accomplished change in business form before the dealership, as altered, engages in any operation requiring an LP-gas license.

§9.20. Dealership Name Change.

(a) Duty to report. A licensee shall file the following forms, evidencing any change in the licensee's name(s), with the LP-Gas Division prior to engaging, under such name(s), in operations that require an LP-gas license:

(1) an amended application for license; and

(2) certificates of insurance or affidavits, or both, in lieu of insurance (where permitted by §9.24 of this title (relating to Insurance Requirements)).

(b) Duty to reregister. A licensee operating under a changed name(s) shall cause the reregistration of any LP-gas transport/delivery trailer or motor vehicle, or both, in the changed name(s) by filing an amended LPG Form Number 7 with the division prior to the use of any such unit in the transport or delivery of LP-gas.

§9.21. Application for an Exception to a Safety Rule. (Amended 11-90)

(a) Filing. Any person, firm, or corporation may apply for an exception to the provisions of this chapter by filing an application for exception with the Liquefied Petroleum Gas Division.

(b) Form. The application must be typewritten on paper not to exceed 8½ inches by **11** inches and have

an inside margin of at least one inch. Annexed exhibits must be folded to the same size as the plead. The content must be double-spaced and appear on one side of the paper only.**In lieu of the typewritten application, a LPG Form 25, Application and Notice of Exception to the LP-Gas Safety Rules, may be submitted.**

(c) Content. The application shall contain the following:

(1) a reference, by section number, to the applicable section which serves as the general rule.

(2) a statement of the type of relief desired; i.e., the exception applied for and those details which may be helpful in comprehending the exact nature of the exception.

(3) a concise statement of facts which support the applicant's case for the exception; e.g., the need for the exception and the reason for it, the safety aspects of the exception, and the social and/or economic impact of the exception.

(4) a description of the acreage and/or address upon which the exception, if granted, will be located should its location be stationary. The description shall be in writing and shall include a plat drawing and shall identify the site sufficiently to permit determination of property boundaries, state the ownership of the land, and state under what legal authority the applicant, if not the owner, is permitted occupancy.

(5) the name, business address, and telephone number of the applicant and of his authorized agent, if any.

(6) an original signature, in ink, by the party filing the application or by his authorized representative.

(7) a list of the names and addresses of all interested parties, as defined in subsection (d) of this section.

(d) Notice.

(1) The applicant shall send a copy of the application by certified mail, return receipt requested, to all affected parties on the same date on which the application is filed with or sent to the commission. The application shall include, in addition to the other requirement, a notice to the affected parties that any objection must be filed within 18 days of receipt. All return receipts shall be forwarded to the commission. All objections must be filed with the division within 18 days of receipt of application.

(2) In the case of an exception requested on a stationary site, affected parties to whom the applicant must give notice shall include, but not be limited to:

(A) persons and businesses owning or occupying property adjacent to the site;

(B) the city council, if the site is within municipal limits; and

(C) the county commission, if the site is not within any municipal limits.

(3) In the case of an exception requested on a nonstationary site, affected parties to whom the applicant must give notice shall include, but not be limited to:

(A) the Texas Department of Highways and Public Transportation;

(B) the Texas Department of Public Safety; and

(C) all processed gas loading and unloading facilities utilized by applicant.

(4) In the interests of justice, the director may require an applicant to give notice to persons in addition to those listed in paragraphs (2) and (3) of this subsection if doing so will not prejudice the rights of any party.

(e) Division review. The division director or his delegate shall review the application when it is complete. If the commission has received no objections from any affected parties as defined in subsection (d) of this section, the director may grant administratively the exception if it will neither imperil nor tend to imperil the health, welfare, or safety of the general public. If the director declines administratively to grant the exception, he shall notify the applicant of the reasons and of any specific deficiencies. The

applicant may modify the application to correct the deficiencies and resubmit the application, or may request a hearing on the matter.

(f) Hearings.

(1) When held. A hearing will be held when the commission receives objections from any affected party, or when the applicant requests one following an administrative denial. To be granted a hearing the applicant must file a request for hearing within two weeks of receiving notice of the administrative denial.

(2) Notice.

(A) The division shall prepare a notice of hearing which shall be mailed to the applicant by certified mail, return receipt requested, not less than 10 days prior to the date of the hearing.

(B) The division shall mail copies of the notice of hearing by certified mail to all objecting parties, return receipt requested, at such time that objecting parties should receive copies at least 10 days prior to the date of hearing.

(3) Hearing procedure. Hearings will be held in accordance with the requirements of the Administrative Procedure and Texas Register Act (Texas Civil Statutes, article 6252-13a), and the general rules of practice and procedure of the Railroad Commission of Texas.

(g) Penalties. Intentional misinformation submitted by an applicant or the authorized agent of such applicant shall be punishable as set out in Texas Natural Resources Code, §91.143, and shall be grounds for dismissing the application with prejudice.

(h) Finding requirement. After hearing, exceptions to this chapter may be granted by the commission when based on a determination that the grant of the exception will neither imperil nor tend to imperil the health, safety, or welfare of the general public.

(i) Temporary exception. For good cause shown, the director of the LP-Gas Division may grant a temporary exception, not to exceed 30 days, to the examination requirements for representatives and operations supervisors. Good cause shall include, but not be limited to, the death of a sole proprietor or partner, or severe economic hardship. An applicant for a temporary exception must agree to comply with all applicable safety requirements and furnish the director with evidence that granting the exception will not create a safety hazard or endanger the public.

(j) Application completion deadline. If any applicant for an exception is inactive for six months after the applicant has been notified by the division of an incomplete request, such application shall expire. The applicant may resubmit an application request.

§9.22. [RESERVED].

§9.23. Insurance Endorsement Requirements. (New 11-90)

(a) Each certificate of insurance filed with this division must have one of the following endorsements attached to the policy, which may not be cancelled without cancellation of the policy to which it is attached:

(1) LPG Form 996A, Worker's Compensation, including Employer's Liability, certificate of insurance must have a "Texas Notice of Material Change Endorsement" Number WC 42 06 01 attached to the policy and any successor policies;

(2) LPG Form 997A, Motor Vehicle Bodily Injury and Property Damage Liability, certificate of insurance must have "Liquefied Pertoleum Gas Licensee Motor Vehicle Endorsement-Texas Railroad Commission Form" Number TE 23 26A attached to the policy and to any successor policies;

(3) LPG Form 998A, General Liability, certificate of insurance must have "Texas Changes-Amendment or Cancellation Provisions or Coverage Change " Number CG 02 05 attached to the policy and any successor policies.

(b) Each endorsment issued and attached to a certificate of insurance noted in subsection (a) of this section requires the insurance carrier, noted as company on the certificates of insurance, to give the division 30 days' written notice before the insurance cancellation. The 30 days' notice commences to run from the date the notice is actually received by the division.

§9.24. Insurance Requirements. (Amended 11-90)

(a) Pursuant to the Texas Natural Resources Code, Chapter 113, the Railroad Commission of Texas has adopted the following minimum amounts of insurance for LP-gas dealers licensed by the State of Texas. A valid certificate of insurance shall be filed with the LP-Gas Division before the commission grants or renews a license.

(1) Category A—Manufacturers or fabricators.

(A) General liability, including premises and operations coverage and products and completed operations liability coverage: $300,000 bodily injury; $100,000 property damage; $300,000 aggregate; or $300,000 combined single limits.

(B) Workers' compensation, including employers' liability.

(2) Category B—Transport outfitters.

(A) General liability, including premises and operations coverage: $25,000 bodily injury; $10,000 property damage; $25,000 aggregate; or $25,000 combined single limits.

(B) Workers' compensation, including employers' liability.

(3) Category C—Carriers.

(A) General liability, including premises and operations coverage and products and completed operations liability coverage: $300,000 bodily injury; $100,000 property damage; $300,000 aggregate; or $300,000 combined single limits.

(B) Motor vehicle insurance coverage of a minimum of $500,000 combined single limit for bodily injuries to or death of all persons injured or killed in any accident, and loss or damage in any one accident to property of others.

(C) Workers' compensation, including employers' liability.

(4) Category D—General installers and repairmen.

(A) General liability, including premises and operations coverage: $25,000 bodily injury; $10,000 property damage; $25,000 aggregate; or $25,000 combined single limits.

(B) Workers' compensation, including employers' liability.

(5) Category E—Retail and wholesale dealers.

(A) General liability, including premises and operations coverage and products, and completed operations liability coverage: $300,000 bodily injury; $100,000 property damage; $300,000 aggregate; or $300,000 combined single limits.

(B) Motor vehicle insurance coverage of a minimum of $500,000 combined single limit for bodily injuries to or death of all persons injured or killed in any accident, and loss or damage in any one accident to property of others.

(C) Workers' compensation, including employers' liability.

(6) Category F—Bottle exchanges.

(A) General liability, including premises and operations coverage: $25,000 bodily injury; $10,000 property damage; $25,000 combined single limits.

(B) Workers' compensation, including employers' liability.

(7) Category G—Service station.

(A) General liability, including premises and operations coverage: $25,000 bodily injury; $10,000 property damage; $25,000 aggregate; or $25,000 combined single limits.

(B) Workers' compensation, including employers' liability.

(8) Category H—Bottle dealers.

(A) General liability, including premises and operations coverage: $300,000 bodily injury; $100,000 property damage; $300,000 aggregate; or $300,000 combined single limits.

(B) Motor vehicle insurance coverage of a minimum of $500,000 combined single limit for bodily injuries to or death of all persons injured or killed in any accident, and loss or damage in any one accident to property of others.

(C) Workers' compensation, including employers' liability.

(9) Category I—Service station and bottle exchanges.

(A) General liability, including premises and operations coverage: $25,000 bodily injury; $10,000 property damage; $25,000 combined single limits.

(B) Workers' compensation, including employers' liability.

(10) Category J—Service station and bottle dealerships.

(A) General liability, including premises and operations: $300,000 bodily injury; $100,000 property damage; $300,000 aggregate; or $300,000 combined single limits.

(B) Motor vehicle insurance coverage of a minimum of $500,000 combined single limit for bodily injuries to or death of all persons injured or killed in any accident, and loss or damage in any one accident to property of others.

(C) Workers' compensation, including employers' liability.

(11) Category K—Distribution system.

(A) General liability, including premises and operations coverage: $50,000 bodily injury; $25,000 property damage; $50,000 aggregate; or $50,000 combined single limits.

(B) Workers' compensation, including employers' liability.

(12) Category L—Carburetion.

(A) General liability, including premises and operations coverage: $25,000 bodily injury; $10,000 property damage; $25,000 aggregate; or $25,000 combined single limits.

(B) Workers' compensation, including employers' liability.

(13) Category M—Recreational Vehicle Installers and Repairmen.

(A) General liability, including premises and operations coverage: $25,000 bodily injury, $10,000 property damage; $25,000 aggregate; or $25,000 combined single limits.

(B) Worker's compensation, including employers' liability.

(14) Category N—Manufactured Housing Installers and Repairmen.

(A) General liability, including premises and operations coverage: $25,000 bodily injury, $10,000 property damage; $25,000 aggregate; or $25,000 combined single limits.

(B) Worker's compensation, including employers' liability.

(b) A licensee or applicant for a license that does not employ or contemplate employing any employee in LP-gas related activities may file LPG Form 996B in lieu of a certificate of workers' compensation, including employers' liability insurance. The licensee or applicant for license must file the required insurance certificate with the division before hiring any person as a dealership employee.

(c) A Category C, E, H, or J licensee or applicant for a license that does not operate or contemplate operating a motor vehicle equipped with an LP-gas cargo tank or does not transport or contemplate transporting LP-gas by vehicle in any manner may file LPG Form 997B in lieu of a certificate of automobile bodily injury and property damage insurance, if this certificate is otherwise required. The licensee or applicant for a license must file the required insurance certificate with the division before operating a motor vehicle equipped with an LP-gas cargo tank or transporting LP-gas by vehicle in any manner.

(d) A Category A, C, or E licensee or applicant for a license that does not engage in or contemplate engaging in any LP-gas operations that would be covered by completed operations and products liability insurance may file LPG Form 998C in lieu of a certificate of completed operations and products liability insurance. The licensee or applicant for a license must file the required insurance certificate with the division before engaging in any operations that require completed operations and products liability insurance.

(e) A licensee or applicant for a license that does not engage in or contemplate engaging in any operations that would be covered by general liability insurance may file LPG Form 998C in lieu of a certificate of general liability insurance. The licensee or applicant for a license must file the required insurance certificate with the division before engaging in any operations that require general liability insurance.

§9.25. Limitation/Avoidance of Licensee Liability.

(a) An LP-gas licensee may not limit or avoid its liability or that of its insurer for damages proximately resulting from any negligent act or acts of the licensee.

(b) An attempt to limit or avoid liability before the negligent act or acts, through indemnity clauses or otherwise, shall be null and void.

(c) This section does not apply to negotations or settlements, or both, made subsequent to a licensee's negligent act or acts.

(d) To the extent that any damage, occurring during or subsequent to any of the following acts, does not proximately result from any negligent act of the licensee, the licensee may limit liability based upon:

(1) unauthorized, unsafe, or improper application of LP-gas or any LP-gas system or equipment by any user or other person;

(2) any use or operation of LP-gas or any LP-gas system or equipment contrary to specific representations made by any user or other person to an LP-gas licensee during or preceding installation or servicing of such LP-gas system or equipment and relied upon by such LP-gas licensee in selecting, designing, installing, or servicing such system or equipment; or

(3) any modification, change, installation, alteration, tampering, or other action by any unlicensed person, to or upon any LP-gas system or equipment.

§9.26. [RESERVED].

§9.27. [RESERVED].

§9.28. Public Hearing.

(a) Definitions. The following words and terms, when used in this section, shall have the following meanings, unless the context clearly indicates otherwise.

(1) *Tentative approval*—The authority issued by the commission allowing construction of an LP-gas installation.

(2) *Final approval*—The authority issued by the commission allowing the introduction of LP-gas into a container and system.

(b) Notice of the proposed installation. Any application for approval of LP-gas installation (LPG Form 500) which is received at the Austin office of the LP-Gas Division on or after January 1, 1988, which pertains to a new stationary LP-gas installation of 10,000 gallons or more, aggregate capacity, or an addition to an existing facility whose aggregate capacity will be 10,000 gallons or more when complete, shall ensure that notice of the proposed installation, (LPG Form 500a) is sent to all owners of real property situated within 500 feet of the proposed tank location. Sufficient notice shall be deemed given when the applicant has provided evidence that LPG Form 500a has been sent to all such property owners whose names and addresses may be determined upon diligent investigation of readily available sources of information. If such owners are not determinable as set out in this subsection, the applicant may send LPG Form 500a to all persons shown as owners on the current county tax rolls.

Exception: Applicants submitting an LPG Form 500, Application for Tentative Approval of LP-Gas Installation, for installation of LP-gas containers of 10,000 water gallon capacity or greater used as a fuel storage supply for asphalt heating at "hot-mix" plants or sites for asphalt paving, need not file the LPG Form 500a, Notice of Installation, provided proof is submitted to the division that such "hot-mix" operations will not exceed one year at the specified location, and that fire marshal approval has been obtained if operations are within a city's limits or the extra-territorial jurisdiction of a city.

(c) Tentative approval considered. Each real property owner receiving notice shall have 18 days from the date of mailing of the notice to submit an objection in writing to the division. An objection is not deemed filed until it is actually received at the Austin office of the LP-Gas Division. The director of the division may grant tentative approval if each real property owner in this subsection has been given notice as certified by the applicant on LPG Form 500, even though objections have been received. Tentative approval may be granted by the director of the LP-Gas Division if he determines that the application meets all applicable rules of the LP-Gas Division, all applicable statutes of the State of Texas, and that the construction of the installation does not constitute a danger to the public health, safety, and welfare. If tentative approval, as defined herein, is granted, the applicant may begin construction of the proposed facility at its own risk that final approval may not be granted.

(d) When hearing held. The director of the division shall call a public hearing, pursuant to the provisions of this section, if any of the following exist:

(1) sufficient notice is not deemed given to each real property owner in subsection (c) of this section;

(2) proper objection to the proposed installation is received by the division in a timely manner. A proper objection to a proposed installation shall include a statement in support of the matters alleged, and is one which alleges either:

(A) noncompliance with the LP-Gas Division safety rules, with reference to the particular rule(s) relied upon;

(B) noncompliance with the statutes of the State of Texas, with reference to the particular provision relied upon;

(C) facts which indicate that the proposed installation constitutes a danger to the public health, safety, and welfare;

(3) the commission or the division director determines that a hearing is necessary to investigate the impact of the installation.

(e) Notice of public hearing. The division shall ensure that notice of the public hearing is given at least 10 days prior to the date of the hearing to the applicant and to all real property owners who have filed proper objections.

(f) Procedure at hearing. The public hearing will be conducted in accordance with the Administrative Procedure and Texas Register Act (Texas Civil Statutes Article 6252-13a, §14) and the General Rules of Practice and Procedure of the Railroad Commission of Texas and the LP-Gas Division Safety Rules. Once tentative approval has been granted by the division, it establishes a rebuttable presumption that all applicable LP-gas safety rules have been complied with by the applicant.

(g) Commission Orders. Following a public hearing, if the commission finds that the proposed installation is in accordance with the LP-gas safety rules, the statutes of the State of Texas, and that the installation does not constitute a danger to the public health, safety, and welfare, an order shall be issued granting interim approval. Any grant of interim approval will include a provision that such approval may be suspended or revoked if a physical inspection of the installation is not conducted by the division prior to the introduction of LP-gas or if a physical inspection of the installation indicates that it is not installed in accordance with the LP-gas safety rules, or the statutes of the State of Texas, or that the installation constitutes a danger to the public health, safety, and welfare. Following the physical inspection of the installation by the division, if the installation is found to be in accordance with the plans and specifications approved by interim order, and is in compliance with the LP-gas safety rules, the statutes of the State of Texas, and the installation does not constitute a danger to the public health, safety, and welfare, then the commission shall issue an order granting final approval. If no objection is filed to the proposed installation, final approval may be granted by the division director upon a similar finding and with a similar provision.

§9.29. Filings Required for LP-Gas Installations. (New 11-90).

(a) Prior to the installation of any LP-gas container at a school, convalescent home, hospital, retail LP-gas cylinder filling/motor fuel service station, or any LP-gas container installation which would result in an aggregate water capacity of 10,000 gallons or more, plans and specifications for the complete LP-gas installation must be submitted on LPG Form 500, Application for Tentative Approval of LP-Gas Installation, to the LP-Gas Division for tentative approval. Tentative approval must be obtained prior to the setting of the LP-gas container and prior to construction of the LP-gas installation. The LP-Gas Division must be notified prior to implementation of any field alterations or additions during construction (exept maintenance and repairs) that may necessitate resubmission of plans and specifications for reapproval consideration. No LP-gas shall be introduced into any LP-gas container at a school, convalescent home, or hospital that has not been granted final approval by the division. No LP-gas container may be placed into LP-gas service until after final approval has been granted by the division. When there is an immediate need for LP-gas supply under emergency circumstances the division director may waive the requirement for final inspection and final approval for a reasonable time period prior to introduction of a reasonable amount of LP-gas into the container and placement of such container into LP-gas service. Final approval will follow a physical inspection of the completed installation, which indicates that it was installed in accordance with the approved plans and specifications and was installed in full compliance with all applicable LP-Gas Safety Rules. The division will review all applications within 45 calendar days of receipt of the application. The division must mail written notification to the applicant of whether the application is accepted, rejected, or still under review within the 45 calendar day period. An application is not accepted (i.e. in compliance) until the applicant has received written notification of the acceptance.

(b) When LP-gas container replacements of the exact same size (not water gallon capacity) or less are being installed in the exact same location at LP-gas storage installations of 10,000 water gallon capacity or greater, a LPG Form 501, Completion Report, shall be filed with the division in accordance with this section.

(c) A LPG Form 501, Completion Report, may be filed in lieu of submission of plans and specifications for LP-gas container replacement at a school, convalescant home, hospital, or at retail LP-gas cylinder filling and motor fuel service stations, provided the replacement container:

(1) has an aggregate water capacity of less than 10,000 water gallons;

(2) is installed in the exact same location; and

(3) where the new aggregate water capacity will not increase the minimum distance requirements to buildings and property lines under §9.65 of this title (relating to LP-Gas Storage Distance Requirements). Such filing must be made in accordance with the applicable subsection(s) of this section.

(d) LPG Form 500, Application for Tentative Approval, LPG Form 500a, Notice of LP-Gas Installation,

and LPG Form 501, Completion Report, including plans and specifications, are not required prior to installation of bulkheads and emergency shutoff valves (ESV's) or when maintenance and improvements are being made to the piping system at existing LP-gas bulk storage, retail cylinder filling and motor fuel service stations, schools, convalescent homes, and hospitals which have been previously approved. The commission or division director may require the submission of plans and specifications when deemed necessary to ensure compliance with applicable LP-Gas Safety Rules.

(e) Prior to the installation of any individual LP-gas container referenced in subsection (a) of this section in a heavily populated or congested area, the director shall determine whether the proposed installation poses a threat to the health, safety, and welfare of the general public. The LP-Gas Division shall determine restrictions on LP-gas container capacities in accordance with the following:

(1) density of the population within 500 feet of the LP-gas installation;

(2) nature of the land use on those pieces of property located within 500 feet of the LP-gas installation;

(3) vehicular traffic in the area;

(4) types and numbers of roadways in the area;

(5) type of operations on the premises;

(6) potential sources of ignition in the area that might be affected by an LP-gas leak;

(7) existence of other dangerous or combustible materials in the area that might be affected in an emergency situation;

(8) the number of members of the general public who are concentrated in the area; and

(9) any other material factor related to the public health, safety, and welfare.

(f) If the division director declines administratively to approve the installation, the applicant shall be notified in writing. The applicant may modify the submission and resubmit for approval, or may request a hearing on the matter in accordance with the general rules of practice and procedure of the commission. The proposed installation shall not be operated or used in LP-gas service in this state until approved by the division director or by the commission following a hearing.

(g) After installation of any LP-gas container having an aggregate water capacity under 10,000 gallons at a public building as defined in §9.2 of this title (relating to Definitions), an LPG Form 501, Completion Report, must be submitted to the LP-Gas Division postmarked within 10 calendar days after completion of the LP-gas installation. No LP-gas shall be introduced into any LP-gas container that is not installed in accordance with the statutes of the State of Texas, or with the LP-Gas Safety Rules in effect at the time of installation.

(h) A Manufacturer's Data Report (LPG Form 5), Manufacturer's Report of Pressure Vessel Repair, Modification or Testing (LPG Form 8), and any other documentation pertinent to establishing installation compliance with the safety rules must be submitted when requested by the division.

(i) A nonrefundable fee of $25 shall be submitted with each set of plans and specifications as required by the applicable subsections of this section relating to the installation of container(s). A nonrefundable, resubmission fee of $5.00 shall be included with each incomplete or revised set of plans and specifications resubmitted.

(j) A nonrefundable fee of $5.00 shall be submitted with each LPG Form 501, Completion Report, as required by the applicable subsection(s) of this section, for each LP-gas container. A nonrefundable resubmission fee of $5.00 shall be included for each LPG Form 501 resubmitted.

(k) An applicant for a Category F, G, or I license or for a multiple category license that includes a Category F, G, or I license, submits plans and specifications for a retail LP-gas cylinder filling and/or motor fuel service station, the license to operate shall not be issued until tentative approval has been granted by the division even if all other licensing requirements have been met. For any multiple category licensee wishing to have part of the license issued not pertaining to the operations of a retail LP-gas cylinder filling

and/or motor fuel service station, the applicant must specifically indicate intent not to install or operate such installation until plans and specifications have been submitted and tentative approval granted. Final approval will follow a physical inspections of the completed installation in accordance with applicable subsections of this section. Note: The intent of this subsection is to eliminate misunderstanding between a prospective licensed operator and licensed installer.

(l) When an applicant is notified of an incomplete LPG Form 500, Application for Tentative Approval of LP-Gas Installation, or LPG Form 500a, Notice of LP-Gas Installation, the applicant has 120 calendar days from the date of the notification letter to resubmit with the deficiences corrected or the original application will expire. A new application must be filed should the applicant wish to reactivate division review of the proposed LP-gas site. However, if the applicant notifies the division in writing, which must be postmarked before the expiration date, and requests an extension of the time following the 120 calendar days, the application may be renewed for an additional number of days stipulated by the division director.

(m) If the tentatively approved installation is not completed within one year from the date original approval was granted, the applicant must notify the division in writing prior to the date of expiration and either request withdrawal of the original application or request an extension of time to complete the installation. The division director shall make final determination of the request for extension of time.

(n) It is the applicant's responsiblity to notify the LP-Gas Division when the installation is complete and is ready for inspection in order to deterime if final approval may be granted.

§9.30. Submission of Drawings, Plans, Reports, and Specifications.

The division director or his delegate shall examine all drawings, plans, reports, and specifications required by statute or commission regulation to be submitted for approval. The director shall determine whether the design, manufacture, construction, or use of the depicted item, system, operation, procedure, laboratory, or installation complies with division rules. The director shall also determine whether the subject of the submission poses a threat to the health, welfare, and safety of the general public. If the director declines administratively to approve the submission, he shall notify the applicant in writing of the deficiencies. The applicant may modify the submission and resubmit it for approval, or may request a hearing on the matter in accordance with the general rules of practice and procedure of the commission. The subject of the submission shall not be operated or used in LP-gas service in this state until approved by the director or by the commission following a hearing.

Subchapter B. BASIC RULES

§9.31. Odorizing Gases.

(a) All LP-gases shall be odorized by the refinery, processing plant, loading rack, pipeline terminal, marine terminal, or underground storage facility prior to delivery to a distributing plant, distributing point, or an industrial plant by the addition of a warning agent of such character that they are detectable by a distinct odor, down to a concentration in air of not over one-fifth of the lower limits of flammability. The odorization requirements shall be considered to be met by the use of 1.0 pound of ethyl mercaptan per 10,000 gallons of LP-gas. However, this listing of odorant and quantity shall not exclude the use of other odorants that meet the odorization requirements.

(b) It is not intended by these rules to require the odorization of liquefied petroleum gas used, or to be used, in natural gasoline extraction plants, recycling plants, chemical plants, carbon black plants, pipelines connected thereto or where liquefied petroleum gas to be used is harmful to the end product. Provided, however, in such plants where any liquefied petroleum gas is used, or to be used, for heating, domestic water heating, cooking, and/or liquefied petroleum gas used primarily for furnishing heat for office or living quarters, or vehicular use shall be odorized.

(c) The malodorant agent, when present in liquefied petroleum gases in such concentration as to meet the requirements of subsection (a) of this section shall be harmless and nontoxic and shall be noncorrosive to steel, iron, brass, bronze, synthetic rubber, or to leather, and shall not be soluble in water to a greater extent than 2½ parts by weight, of malodorant to 100 parts, by weight, of water at 60° F.

(d) The products of combustion from the malodorant agent when present in liquefied petroleum gases, in such concentrations as to meet the requirements of subsection (a) of this section shall be nontoxic to a person breathing air containing these products of combustion and shall not be corrosive or harmful to the materials with which such products of combustion would ordinarily come in contact in places where gas is burned.

(e) When in the opinion of the commission there exists the possibility of insufficient odorization, testing may be required to determine its sufficiency. The testing shall be performed by a recognized testing laboratory equipped for and experienced in testing of odorization.

(f) The malodorant agent shall be introduced by a closed measuring injection system.

(g) The person odorizing the gas shall be responsible for completing the required information on the manifest as set forth in §9.148 and §9.518 of this title (relating to Manifest).

§9.32. Report of Odorization.

Each person, firm, or corporation who odorizes liquefied petroleum gas is responsible for completing and filing LPG Form Number 17 within 30 days after the end of the calendar quarter covered by the report. This report shall show, in addition to the other information required, the specific type of odorant used or the trade name, the amount of odorant used, and the number of gallons of gas odorized.

§9.33. Authorized Containers.

(a) ASME containers. Any ASME container identified as such by manufacturer's nameplate is authorized for use in accordance with applicable rules of the Liquefied Petroleum Gas Division upon submission of filings required by subsection (b) of this section.

(b) Manufacturer's data report and plans and specifications.

(1) Submission and content. Manufacturers of liquefied petroleum gas containers or unfired pressure vessels shall submit to the Railroad Commission a manufacturer's data report and plans and specifications for the fabrication, assembly, and installation (where applicable) of each such container or vessel. The manufacturer's data report and the plans and specifications shall be complete in all details necessary to fully describe and illustrate, respectively, the fabrication, assembly and (if applicable) the installation thereof.

(2) Certification by manufacturer. The manufacturer of a liquefied petroleum gas container or unfired pressure vessel used to transport, store, or dispense liquefied petroleum gas shall certify on the plans and specifications thereof that, at the time of manufacture, the plans and specifications met or exceeded the requirements of the current edition of the American Society of Mechanical Engineers, Boiler and Pressure Vessel Code, Division I, Section VIII, and the rules of the commission pertaining thereto.

(3) Exceptions.

(A) Manufacturer's data report available. Where plans and specifications for a container presently in existence are unavailable or do not meet the requirements of paragraphs (1) or (2) of this subsection, that container is authorized for use in accordance with applicable rules upon submission of a manufacturer's data report which meets the requirements of paragraph (1) of this subsection.

(B.) Certification by testing laboratory.

(i) Manufacturer's data report unavailable. Where the manufacturer's data report is unavailable or does not meet the requirements of paragraph (1) of this subsection, a recognized testing laboratory registered with the Railroad Commission of Texas shall test the affected container or vessel and, prior to its use in the transport or storage of LP-gas in the State of Texas (other than that which may be incidental to such testing), the laboratory shall submit its certification to the Railroad Commission that the container or vessel is safe for LP-gas service.

(ii) Manner of testing. As necessary, in order to determine the safety of the container or vessel for LP-gas service, testing shall be by one or more ASME recognized testing methods.

§9.34. Examination of Containers.

(a) At the request of the division director, when in his opinion such action is necessary, containers and assemblies shall be examined by a recognized testing laboratory equipped for and experienced in the testing of liquefied petroleum gas containers and equipment and a comprehensive report on the findings of such testing laboratory shall be submitted to the Railroad Commission for its consideration. This subsection can be applied even though an acceptable LPG Form 23 (Statement in Lieu of Container Testing) has been recieved.

(b) Any stationary American Society of Mechanical Engineers (ASME) LP-gas container previously in LP-gas service which has not been subject to continuous LP-gas vapor pressure must be retested by at least two of the following nondestructive test methods recognized by ASME to determine if the container or assembly is safe for LP-gas use in the State of Texas. The test results must be submitted on an LPG Form 8 (Manufacturer's Report of Pressure Vessel Repair, Modification or Testing):

(1) Hydrostatic test;

(2) Ultrasonic thickness test; or

(3) Wet particle flourescent or magnaflux.

(c) Any stationary ASME LP-gas container which has been subject to continuous LP-gas vapor pressure need not be tested prior to installation, provided an acceptable LPG Form 23 (Statement in Lieu of Container Testing) is filed with the division at the time an LPG Form 500, Application for Tentative Approval of LP-Gas Installation, is submitted for any facility requiring submission of plans and specifications in accordance with §9.29 of this title (relating to Filings Required for LP-Gas Installations).

(d) Any stationary ASME LP-gas container brought into Texas from out-of-state and intended for stationary LP-gas installation in Texas at any facility requiring submission of plans and specifications, must be tested in accordance with subsection (b) of this section prior to tentative approval being granted by the division.

Exception: If any stationary ASME LP-gas container which has been under continuous LP-gas vapor

pressure, is owned by a company having a current LP-gas license in the State of Texas, such tests may not be necessary upon the receipt of an acceptable LPG Form 23 (Statement in Lieu of Container Testing).

§9.35. Sale of Unassembled Containers.

No unassembled liquefied petroleum gas vessel shall be sold for use in the State of Texas unless the seller has determined that the purchaser has obtained approval, from the Railroad Commission of Texas, of the plans and specifications covering assembly of such vessels.

§9.36. Approval of Valves, Fittings, and Equipment. (Amended 11-90)

All valves, fittings, and equipment (such as vaporizers, carburetors, relief valves, excess flow valves, regulators, cut-off valves, etc.) which are required in the complete assembly, shall be approved by the Railroad Commission of Texas. **A LPG Form 502, Application for Liquefied Petroleum Gas Equipment and Component Approval, and any other data the commission may reasonably require must be submitted to the LP-Gas Division for any equipment or components required to be approved. Exception: Valves, fittings, and equipment (excluding pressure vessels) need not be approved by the commission if they are listed by a nationally recognized testing laboratory, i.e., Underwriter's Laboratory (UL), Factory Mutual (FM), or American Gas Association (AGA), and such other laboratories approved by the LP-Gas Division provided the LP-Gas Safety Rules do not prohibit their use in LP-gas service. Approval under this section does not ensure conformity with other state and federal regulations. Any subsequent modifications to approved LP-gas systems, equipment, and components will require resubmission to the LP-Gas Division prior to installation or usage. The division will review all applications within 45 calendar days of receipt of the application. The division must mail written notification to the applicant of whether the application is accepted, rejected, or still under review with the 45 day calendar period. An application is not accepted (i.e. in compliance) until the applicant has received written notification of the acceptance.**

§9.37. Requirements for Construction of Containers.

All containers used for storing and/or dispensing liquefied petroleum gas in the State of Texas, except containers manufactured and maintained in accordance with the requirements of the Department of Transportation, shall be fabricated and marked in strict accordance with Division I, Section VIII, of the edition of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code in effect at the time of fabrication. A copy of Section VIII of the ASME Boiler and Pressure Vessel Code, Division I, is on file in the office of the LP-Gas Division of the Railroad Commission of Texas, Austin, Texas. Exception: conformity with paragraph UG-125 to UG-134 inclusive of this Code shall not be required.

§9.38. Inspection of Containers.

All containers except ICC or DOT containers shall be inspected during fabrication in accordance with the provisions of Division I, Section VIII, of the edition of the ASME Boiler and Pressure Vessel Code in effect at the time of inspection.

§9.39. Field Welding. (Repealed 11-90; New 11-90).

Field welding is permitted on saddle plates, lugs, or brackets attached to the container by the manufacturer.

§9.40. Manufacturer's Nameplate and Markings on ASME Containers. (Amended 11-90)

(a) LP-gas shall not be introduced into any ASME container which is not equipped with a manufacturer's original nameplate or a manufacturer's replacement nameplate permanently attached to the container. The following minimum information must be readable on the manufactuter's nameplate for containers built prior to September 1, 1984: name of container manufacturer, manufacturer's serial

number, working pressure, and water capacity. No American Society of Mechanical Engineers (ASME) container manufacturered on or after September 1, 1984, and embodied in Divisions II, III, IV, V, VI, IX, X, (and) XI, and **XIV,** shall be used in the State of Texas unless such container has a stainless steel nameplate permanently attached to the container by continuous fusion welding around the perimeter of the nameplate.

(b) Nameplate thickness shall be sufficient to resist distortion due to the application of markings and fusion welding.

(c) Container nameplates shall be stamped or etched with the following information in characters not less than 5/32 inch high:

(1) the mark or symbol approved by the ASME indicating compliance with the provisions of the ASME Pressure Vessel Code;

(2) the name and address of the manufacturer;

(3) the capacity of the container in water gallons;

(4) the maximum allowable working pressure of the container in pounds per square inch (PSI);

(5) the wording "This container shall not contain a product having a vapor pressure in excess of _____ pounds per square inch at a temperature of 100°F.";

(6) the thickness of the material used in both shell and heads;

(7) the overall length of the container, the outside diameter of the container, and the dish radius of the heads;

(8) the serial number of the container;

(9) the date of manufacture; and

(10) service for which the container is designed (i.e., underground or aboveground).

(d) Nameplates shall be attached to the containers so as to remain visible after installation of the containers.

(e) In addition to a container nameplate, underground containers shall have a system nameplate permanently attached to the system in such position as to be readily accessible for inspection when the system is buried.

§9.41. Retroactivity. (New 11-90).

Unless otherwise stated, the Safety Rules of the LP-Gas Division are not retroactive.

§9.42. Safety Relief Valves.

(a) Every liquefied petroleum gas container shall be equipped with one or more spring loaded relief valves having a suitable discharge capacity. The use of fusible plugs or frangible discs is prohibited.

(b) The discharge capacity of safety relief valves installed on ASME Code containers for use with LP-gas shall be in accordance with the provisions of §9.921, (relating to Appendix A), which is incorporated herein and made a part hereof for any and all purposes. Safety relief valves installed on DOT containers for use with LP-gas shall have a discharge capacity in accordance with the requirements of the Department of Transportation.

§9.43. Setting of Relief Valves.

(a) All safety relief valves installed on ASME Code containers for use with LP-gas shall have a marked set pressure equal to the design working pressure of the container, except as noted in §9.51(b). This does not apply to relief valves installed prior to the effective date of this rule, but does apply to replacements of relief valves made after the effective date. (Effective date March 7, 1983).

(b) Safety relief valves installed on DOT containers for use with LP-gas shall be set to start a discharge in accordance with the provisions of the Department of Transportation specifications under which such vessels are constructed.

(c) Safety relief valves installed on ASME Code containers for use with LP-gas shall have a discharge capacity rating not less than the rates shown in §9.921 of this title (relating to Appendix A), which is incorporated herein and made a part hereof for any or all purposes.

§9.44. Construction and Marking of Safety Relief Valves.

Safety relief valves shall be constructed and marked in accordance with applicable requirements of U.L. Standard 132, "Standards On Safety Relief Valves For Anhydrous Ammonia and LP-Gas" (adopted by reference by this section), or other equivalent applicable standards. Relief valves on ASME code containers shall be marked to include the set pressure (start-to-discharge) and the flow capacity rating in SCFM air at 120% of the marked set pressure. Relief valves on DOT containers shall be marked in accordance with DOT requirements. Original markings on safety relief valves shall not be changed. This does not apply to relief valves installed prior to the effective date of this section, but does apply to replacements of relief valves made after the effective date.

§9.45. Adjustment and Repair of Safety Relief Valves.

(a) No person other than the manufacturer shall make repairs or adjustments on safety relief valves used with liquefied petroleum gas.

(b) Manufacturer shall design or seal safety relief valves in such manner as to minimize the possibility of unauthorized tampering.

§9.46. Installation of Pressure Relief Valves.

(a) Pressure relief valves shall be installed directly to the appropriate nozzle opening of the container.

(b) Each pressure relief valve on all aboveground (AG) stationary containers of 2,000 water gallons capacity or more shall be vented upward and unobstructed to a minimum of seven feet above the top of the container. Each vent shall be metallic pipe or tubing, threaded and secured in place with proper relief valve pipeaway adapters and shall be of adequate size not to restrict discharge flow. Exception: vertical containers 15 feet or more in height shall be exempt from such venting requirement.

(c) All exposed pressure relief valves on stationary ASME containers shall discharge vertically upward and shall be fitted with loose fitting rain caps. A drain shall be provided to prevent any liquid or condensate that may accumulate inside the relief valve or its vents from rendering the relief valve inoperative. If a bottom drain is used, where necessary a weep hole deflector shall be installed to protect the container, adjacent containers, piping, or equipment against impingement of flame resulting from ignition of product escaping from the drain.

(d) No shut-off valve shall be placed between the container and pressure relief valves except where a positive mechanical means is provided to prevent the reduction of relieving capacity below that required for the vessel to which it is attached.

§9.47. Filling Density.

(a) The "filling density" is defined as the percent ratio of the weight of gas in a container to weight of water the container will hold at 60°F. The filling densities for storage containers used with systems embodied in Subchapter D of this chapter (relating to Division II), Subchapter E of this title (relating to Division III), Subchapter F of this chapter (relating to Division IV), Subchapter G of this chapter (relating to Division V), Subchapter K of this chapter (relating to Division IX), Subchapter L of this chapter (relating to Division X), and Subchapter M of this chapter (relating to Division XI) shall not exceed the ratios following:

MAXIMUM PERMITTED FILLING DENSITY

Specific Gravity at 60°F.	Aboveground Containers		Underground containers all Capacities
	0 to 1200 gals. Total Water Capacity	Over 1200 gals. Total Water Capacity	
.473–.480	38%	41%	42%
.481–.488	39%	42%	43%
.489–.495	40%	43%	44%
.496–.503	41%	44%	45%
.504–.510	42%	45%	46%
.511–.519	43%	46%	47%
.520–.527	44%	47%	48%
.528–.536	45%	48%	49%
.537–.544	46%	49%	50%
.545–.552	47%	50%	51%
.553–.560	48%	51%	52%
.561–.568	49%	52%	53%
.569–.576	50%	53%	54%
.577–.584	51%	54%	55%
.585–.592	52%	55%	56%
.593–.600	53%	56%	57%
.601–.608	54%	57%	58%
.609–.617	55%	58%	59%
.618–.626	56%	59%	60%
.627–.634	57%	60%	61%

(b) For ICC or DOT containers for use with LP-gas, filling densities shall be as prescribed by the Department of Transportation on the date of adoption of these rules.

(c) The maximum liquid volume in percent of the total container capacity may be determined for LP gases at any liquid temperature by using the formula shown in §9.924 of this title (relating to Appendix D), which is incorporated herein and made a part hereof for any and all purposes.

(d) The maximum volume in percent of total container capacity shown in §9.925 of this title (relating to Appendix E), which is incorporated herein and made a part hereof for any and all purposes, may be used in lieu of the table set forth in subsection (a) of this section to determine the maximum quantity that may be placed in a container.

§9.48. Transfer of Liquid.

(a) Liquid may be transferred from one tank to another by means of any of the following methods: pumping, pressure differential, or gravity.

(b) Pumps, where used, shall be of an approved type and may be either truck mounted or stationary.

(c) Where pressure differential is used to transfer liquid, such differential shall be obtained only with liquefied petrolem gas.

(d) Containers shall be filled by weight, by meter, or by an approved liquid level gauging device.

§9.49. Venting Gas or Liquid Prohibited.

Gas, either vapor or liquid, shall not be vented to the air before, during, or following the process of transferring LP-gas from one container to another. This shall not be construed as prohibiting the necessary purging of a container upon the initial filling or the use of approved gauging devices having bleed valves.

§9.50. Minimum Design Working Pressure and Temperature.

(a) All ASME containers constructed after January 1, 1988, for use in the State of Texas shall have a minimum design working pressure of not less than 250 psig. All DOT containers constructed after January 1, 1988, for use in the State of Texas shall have a minimum design working pressure of not less than 240 psig.

(b) All ASME, Division I, Section VIII, containers constructed after June 1, 1989, for use in Texas shall have a minimum design material temperature (MDMT) in accordance with the ASME Code.

§9.51. Maximum Vapor Pressure and Container Working Pressure. (Amended 11-90)

(a) The maximum vapor pressure of the product at 100°F. which may be transferred to a container shall not exceed the design working pressure of the container.

(b) Exception: 200 psig working pressure vessels in **LP-gas** service in Texas prior to September 1, 1981, may be continued in service for commercial propane provided that they are fitted with relief valves set for 250 psig normal start to discharge and are used in compliance with the other rules of this chapter. For the purpose of this exception, "commercial propane" is defined as having a vapor pressure not in excess of 210 psig at 100 degrees. This exception does not apply to LP-gas motor fuel and mobile fuel containers.

§9.52. Employee Instructions and Consumer Instructions.

(a) Any licensee who employs or utilizes an individual in LP-gas related activities shall provide that individual with instructions on the operation, installation, and maintenance of the LP-gas equipment and/or appliances with which the individual works.

§9.53. Proper Purging of LP-Gas Containers or Cylinders.

Prior to any new container having a water capacity of 2,000 gallons or less (or a container having a water capacity of 2,000 gallons or less which has been opened to the atmosphere) being placed into service, the container shall be properly purged.

§9.54. Hose Specifications.

(a) Hose shall be fabricated of materials that are resistant to the action of LP-gas in the liquid or vapor phases. If wire braid is used for reinforcing the hose, it shall be corrosion-resistant material such as stainless steel.

(b) Hose subject to container pressure shall be continuously marked in clearly legible letters and figures with the manufacturer's name or other identification, and the wording "LP-gas" or "LPG."

(c) Hose subject to container pressure shall be designed for a bursting pressure of not less than 1,750 psig, and a working presssure of 350 psig.

(d) Hose subject to container pressure shall have its correctness as to design construction and performance determined by:

(1) listing by Underwriter's Laboratories, Inc; or

(2) listing by a nationally recognized testing laboratory that is approved by the Railroad Commission of Texas.

(e) Hose connections subject to container pressure shall be capable of withstanding, without leakage, a test pressure of not less than 500 psig.

(f) Hose and hose connections on the low pressure side of the regulator or reducing valve shall be designed for a bursting pressure of not less than 125 psig.

§9.55. [RESERVED].

§9.56. Sales to Unlicensed Individuals.

A licensee shall not sell a liquefied petroleum gas container to an unlicensed individual for resale nor shall a licensee sell such containers to an unlicensed individual for installation without having definitely determined that such container will be installed by a person, firm, or corporation licensed to make such installation.

§9.57. Connecting Container to Unapproved Piping.

LP-gas piping shall be installed only by those persons, firms, corporations, or associations who have been licensed by the Railroad Commission of Texas in accordance with the provisions of Natural Resources Code §113.001 et seq. A licensee shall not connect a liquefied petroleum gas container to a piping installation made by a person, firm, or corporation who is not licensed to make such installations, except that connection may be made to piping installed by a person on his own premises, provided the piping system complies with all rules and regulations of this chapter.

§9.58. Filling Unapproved Containers Prohibited.

No licensee shall introduce liquefied petroleum gas into any container if he has knowledge or reason to believe that such container, piping, or the system or the appliance to which it is attached, was not installed in accordance with the statutes of the State of Texas, and with the rules and regulations of the Railroad Commission of Texas, in effect at the time of installation. This section does not apply to motor fuel or mobile fuel containers and systems installed on vehicles licensed in states other than Texas, provided that such motor fuel containers and systems are in a safe operating condition.

§9.59. Filling Unsafe Containers. (Amended 6–89).

(a) No licensee shall introduce liquefied petroleum gas into any container if he has knowledge or reason to believe that such container or the piping or the appliances attached thereto are in an unsafe operating condition, or fail in any way to meet the requirements of the LP-Gas Safety Rules or the provisions of the Natural Resources Code, Chapter 113.

(b) Any unsafe LP-gas installation may be reported to the LP-Gas Division by the use of LPG Form 22, Report of LP-Gas Safety Rule Violation(s). Upon receipt of a LPG Form 22, the division shall contact the licensee servicing said installation or owner or occupant thereof by letter, and at the discretion of the director a physical inspection may be ordered.

§9.60. Purchase of Nonapproved Containers.

No licensee shall purchase a liquefied petroleum gas container from the manufacturer of such container, who has not fully complied with the requirements of Natural Resources Code §113.001 et seq., and with the rules and regulations of the Railroad Commission of Texas. A list of manufacturers who have complied will be furnished by the director of the LP-Gas Division, on request.

§9.61. Report of LP-Gas Incident/Accident. (Amended 11–90).

(a) In case of an **incident involving a single release of LP-gas liquid during or following LP-gas transfer or during container transportation or an** accident at any location where liquefied petroleum gas (LP-gas) is the cause or is suspected to be the cause, the **licensee** owning, operating, or servicing **the equipment or** the installation shall notify the LP-Gas Division. This notification shall be by telephone as soon as feasibly possible after the **licensee** has knowledge of the **incident or** accident. **Any loss of LP-gas liquid which is less than 1.0% of the gross gallons delivered, stored, or withdrawn need not be reported. However, if any loss of LP-gas liquid occurs as a result of a pullaway (i.e. the accidental separation of a hose from a bulkhead, container, or dispensing equipment) it must be reported.**

(b) Information which must be reported to the division must include: **date and time of the incident or accident,** type of structure or equipment involved; resident's or operator's name; physical location; number of injuries and/or fatalities; whether a fire, explosion, or gas leak has occurred; whether gas is leaking now; and whether immediate assistance from the division is requested. Any person reporting must leave **his** name, and telephone number where **he may** be reached for further information.

(c) Any transport unit required to be registered with the commission under the Texas Natural Resources Code, §113.131 which is involved in an accident **in which** there is damage to the tank, piping, appurtenances, or **any release** of LP-gas liquid **resulting from an accident** must be reported to the commission in accordance with this section regardless of the accident location. **Any LP-gas powered motor vehicle used for school transportation or mass transit, including any state owned vehicle that is involved in an accident resulting in a substantial release of LP-gas liquid or damage to the LP-gas conversion equipment, must be reported to the commission in accordance with this section regardless of accident location.**

(d) Following the initial telephone report, an LPG Form 20, Report of LP-Gas Incident/Accident, must be submitted to the LP-Gas Division. The report must be postmarked within 14 calendar days of the date of initial notification to the division.

§9.62. Removal from LP-Gas Service. (Amended 11-90)

(a) If the commission or division director determines that any LP-gas container constitutes an immediate danger to the public health, safety, and welfare, it shall require the immediate removal of liquid and vapor LP-gas by a properly licensed company to the extent necessary to eliminate the danger. If the commission or division director determines that any LP-gas appliance, equipment, or system constitutes an immediate danger to the public health, safety and welfare, it shall require the immediate disconnection by a properly licensed company of such appliance, equipment, or system from the LP-gas container it services.

(b) If the affected entity disagrees with the placement of a warning tag he may request an investigation into the matter. The division director shall notify such entity of his finding. If the entity disagrees, the entity may request or the commission on its own motion may call a hearing. Such installation shall be brought into compliance or removed from service until such time as the final decision is rendered.

§9.63. Uniform Protection Standards. (Amended 11-90)

(a) All LP-gas transfer systems and storage containers shall be protected from tampering and damage and shall be maintained in good condition at all times and in accordance with one of the three standards set forth in this subsection. Cylinders in storage referred to in §9.272 of this title (relating to Cylinder Storage) and §9.303 of this title (relating to Cylinder Storage), however, shall be protected in accordance with paragraph (1) of this subsection.

(1) Fencing.

(A) Fencing material shall be chain link type with wire no smaller than 12½ American wire gauge in size.

(B) Fencing shall be no less than six feet in height at all points. Fencing may be five feet in height when topped with at least three strands of barbed wire, with the strands no more than four inches apart.

(C) All uprights, braces, and/or cornerposts of the fence shall be composed of noncombustible material if located within 25 feet of the enclosed LP-gas transfer system or LP-gas container.

(D) All fenced enclosures shall have at least one gate suitable for entrance and egress. All gates shall be locked whenever the area enclosed is unattended.

(E) A minimum clearance of **two** feet shall be maintained between the fencing and the container, material handling equipment, and the entire dispensing system.

(F) Fencing which is located more than 25 feet from any point of an LP-gas transfer system or container is designated as perimeter fencing. If an LP-gas transfer system or container is located inside perimeter fencing and is subject to vehicular traffic, it shall be protected against damage by the use of guardrails and guard posts, installed according to the specifications set forth in paragraph (2) of this subsection.

(G) The operating end of the container (including all material handling equipment and the entire dispensing system) must be completely enclosed by fencing.

(2) Guardrails.

(A) Where fencing is not used to protect the installation as provided in paragraph (1) of this subsection, then valve locks, electric control locks, or other suitable means shall be placed to prevent unauthorized withdrawal of LP-gas.

(B) Vertical supports for guardrails shall be a minimum of three-inch schedule 40 steel pipe, or material with equal or greater strength. The supports must be capped on the top and firmly anchored in concrete, with a minimum height of 30 inches above the level of the ground. Supports shall be spaced no more than four feet apart.

(C) Horizontal guardrailing shall be secured between the vertical guard posts. It shall be no less than three-inch schedule 40 steel pipe, or material with equal or greater strength. The railing shall be welded or bolted to the guard posts.

(D) No opening in the railing may exceed 36 inches.

(E) A minimum clearance of 24 inches shall be maintained between the railing and any part of an LP-gas transfer system or container. The two posts at the ends of any railing which protects a bulkhead, shall be located at 45^0 angles to the corners of the bulkhead (See Figure 1 and Figure 2 of this section for illustration).

(F) Guardrail protection shall extend at least 24 inches beyond any part of the LP-gas transfer system or container which is exposed to vehicular traffic.

(G) The operating end of the container (including all material handling equipment and the entire dispensing system) must be protected from damage by vehicular traffic.

(H) Each LP-gas storage installation of 4,000 gallons aggregate water capacity or more which is not protected by continuous fencing, pursuant to this chapter, shall have posted the following warning, printed in letters not less than four inches high: "WARNING—FLAMMABLE GAS," printed in red letters; "NO TRESPASSING," printed in black letters; and "NO SMOKING," printed in red letters. The background for such lettering shall be white or aluminum. All warning signs shall be readily visible to any person approaching such an installation. This applies to Division II (commercial), Divisions III, IX, XI, and XII.

(3) Fencing and Guardrails. A combination of the protection standards authorized by paragraphs (1) and (2) of this subsection shall not result in less protection than either standard.

(4) Exemptions. This subsection does not apply to the following:

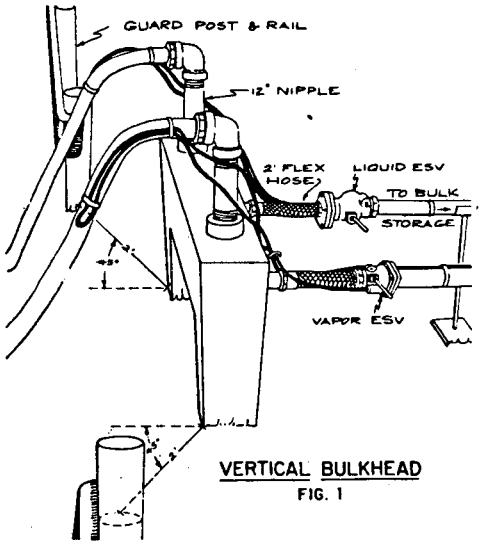
(A) LP-gas systems and containers located at a private residence;

(B) LP-gas systems and containers which service vapor systems, where the aggregate storage capacity of the installation is less than 4,000 gallons, and where the transfer system is not subject to vehicular traffic;

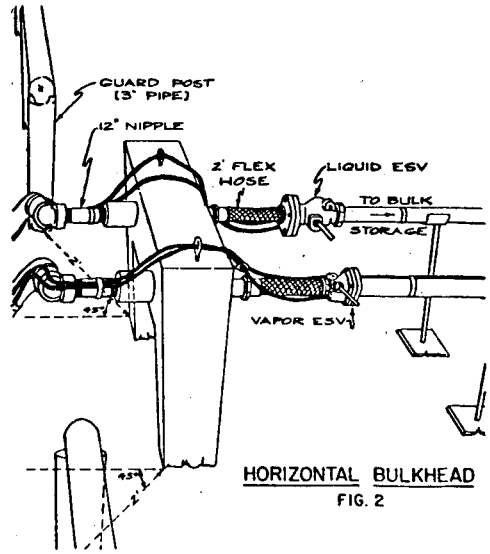
(C) LP-gas piping which contains no valves and which complies with the provisions of §9.218 of this title (relating to Exterior Piping); and

(D) LP-gas storage containers located on a rural consumer's property from which engine or mobile fuel containers are filled.

(b) The provisions of this section notwithstanding, the director of the division may require an installation to be protected in accordance with subsection (a) of this section when evidence exists that because of exceptional circumstances added safeguards are needed to adequately protect the health, safety, and welfare of the general public. If a person owning or operating such an installaton disagrees with the determination of the director made under this subsection, then that person may request a public hearing on the matter. However, until a decision is issued, subsequent to a hearing on the matter, the subject installation shall either be protected in the manner prescribed by the director, or it shall be closed with all product withdrawn from it.



VERTICAL BULKHEAD
FIG. 1



HORIZONTAL BULKHEAD
FIG. 2

§9.64. Uniform Safety Requirements. (Amended 11-90)

(a) Open flames and other sources of ignition. No source of ignition may be located within the vicinity of an LP-gas container or an LP-gas transfer system in accordance with the distances set forth in Figure 1 of this section, while LP-gas is being transferred, including the time of connection and disconnection, and for a reasonably safe period of time after the transfer has been completed. Potential sources of ignition include, but are not limited to, all smoking materials, open flames, pilot lights, nonexplosive proof lights, and electrical installations not constructed in accordance with the National Electrical Code (NEC) for Class I, Group D: Hazardous Locations. This shall not be construed to prohibit the operation of a transport engine which is required for the transfer of LP-gas. Vaporizers, tank heater burners, and pilots shall be extinguished during transfer operations, but need not be extinguished where located in accordance with the distances set forth in Figure 1 of this section, as they relate to the filling connection on the container.

(b) Combustible materials. The vicinity of a stationary LP-gas container, transfer, handling, or dispensing equipment shall be kept clear of all types of combustible materials which includes, but is not limited to, trash, weeds, and wood in accordance with the distances set forth in Figure 1 of this section. *NOTE: This applies only to Division II (commercial), Divisions III, IX, XI, and XII.*

Aggregate Water Capacity of LP-gas Containers	Required Distance
0 - 500 gallons	10 feet
501 - 2000 gallons	15 feet
2001 gallons and over	25 feet

FIGURE 1

(c) Transfer or dispensing of fuel. During the transfer or dispensing of LP-gas which includes the time period from connection to disconnection, at least one person shall remain in the immediate vicinity of the transfer or dispensing equipment in a position to monitor the flow of fuel and to control the transfer or dispensing equipment.

(d) Use of chock blocks. Each LP-gas transport shall carry no fewer than two chock blocks designed to effectively prevent the rolling of the transport. These blocks shall be used any time the transport is parked and during the transfer of fuel regardless of the level of the surrounding terrain.

(e) Storage of LP-gas next to flammable liquids. Suitable means shall be taken by diking, diversion curbs, and grading to prevent the accumulation of flammable liquids such as gasoline, diesel, etc., under LP-gas containers. LP-gas containers shall not be located within a diked area. The minimum separation between LP-gas containers and flammable liquid containers shall be 20 feet, and the minimum separation between a container and the center line to the dike shall be 10 feet. *NOTE: This applies to aboveground LP-gas containers as described in Division II (commercial), III, IX, and XI.* The minimum separation between LP-gas containers and oxygen or gaseous hydrogen containers shall be in accordance with Table 1 as follows, except that lesser distances are permitted where protective structures having a minimum fire resistance rating of two hours interrupt the line of sight between uninsulated portions of the oxygen or hydrogen containers and the LP-gas containers.

(f) Valves in closed position. Except in vaporizers and vapor systems, all vapor and liquid container shutoff valves shall be kept in the fully closed position when the LP-gas installation is unattended. All valves on any transport shall be kept in the fully closed position except during the transfer of fuel to or from the transport.

(g) Hydrostatic relief valve. Any closed portion of liquid piping or hose designed to operate up to 350 psig shall be equipped with a hydrostatic relief valve having a pressure setting of not less than 400 psig or more than 500 psig, or an approved bypass valve communicating directly with the storage container. Liquid piping or hose designed to operate above 350 psig shall be equipped with a hydrostatic relief valve having a pressure setting of not less than 110% or more than 125% of the system design pressure, or an approved bypass valve communicating directly with the storage container.

(h) Pump mounting. Pumps, when used, shall be secured against displacement and shall be mounted on a noncombustible support or base.

(i) Length of flexible connectors. Flexible connectors, other than LP-gas transfer hoses in excess of 3/4 inch in diameter shall not exceed 42 inches in length and shall not be used in lieu of pipe fittings to change direction in liquid or vapor piping.

(j) Container discharge outlet requirements. The discharge outlet shall be provided with an excess flow valve or an internal valve(s) with excess flow capabilities.

(k) Container filling and vapor return outlet requirements. Filling and vapor return outlets shall be provided with valves to prevent back flow.

(l) Other container outlet requirements. All other outlets to containers, except relief valves, filling connections, and liquid level gauging devices shall be equipped with excess flow valves.

(m) Excess flow valve design requirements. Excess flow valves, where required by these standards, shall be designed to close automatically and shut off the gas or liquid flow in case:

(1) the flow through the valve exceeds a predetermined flow, which flow must be less than the pipe line capacity to and from such excess flow valve; or

(2) the pressure on the inlet side of excess flow valve exceeds by a certain designed number of pounds per square inch, the pressure in pounds of the outlet of such valve.

(n) Excess flow valves bypass requirements. Excess flow valves may be designed with a bypass, not to exceed a Number 60 drill size opening, to allow equalization of pressure.

(o) Location of excess flow and back pressure check valve. Excess flow and back-pressure check valve, where required by these standards, shall be located inside the container, or at a point outside where the line enters the containers; in the latter case, installation shall be made in such manner that any undue strain beyond the excess flow or back-pressure check valve will not cause breakage between the container and such valve. Gauging devices which do not involve the flow of liquid or which are so constructed that outward flow of container contents shall not exceed that passed by a Number 54 drill size need not be equipped with an excess flow valve.

(p) Location of shutoff valves. All connections to containers shall have approved shutoff valves located as close to the container as practicable, except pressure relief connections, gauging devices, filler valves and vapor return valves.

TABLE 1

LP—Gas Containers Having An Aggregate Water Capacity of	Separation from Oxygen Containers Having an		
	Aggregate capacity of more than 400 Cubic Feet (CF)* to 20,000 CF* including unconnected reserves	Aggregate capacity of more than 20,000 Cubic Feet (CF)* including unconnected reserves	
1,200 gallons or less	20 feet	25 feet	
Over 1,200 gallons	20 feet	50 feet	
LP—Gas Containers Having An Aggregate Water Capacity of	Separation from Gaseous Hydrogen Containers Having an	**(Gaseous Hydrogen container is defined as: Any receptacle designed for the storage of hydrogen in a gaseous state)**	
	Aggregate capacity of less than 400 CF*	Aggregate capacity of 400 CF* to 3,000 CF*	Aggregate capacity of more than 3,000 CF*
500 gallons or less	None	10 feet	25 feet
Over 500 gallons	None	25 feet	50 feet

*Cubic Feet measured at 70°F. and atmospheric pressure.

(q) Lifting lugs. Lifting lugs in good repair on an ASME container filled to no more than five percent of water capacity may be used for lifting or lowering. Additional means must be utilized when lifting or lowering an ASME container with more than five percent of its water capacity.

(r) Protection Against Contamination. Any cargo, stationary, portable, mobile fuel, or motor fuel container that may have contained product other than LP-gas must be thoroughly cleaned and purged prior to introducing LP-gas into such container. Only grades of LP-gas determined to be "non-corrosive" may be introduced into a container. "Non-corrosive" means the corrosiveness of the gas does not exceed the limitation for classification 1 of the American Society of Testing Material (ASTM) Copper Strip Classifications when tested in accordance with ASTM D 1834-64, "Copper Strip Corrosion of Liquefied Petroleum (LP) Gases."

(s) Contents of Containers. Any LP-gas introduced into a container shall not contain anhydrous ammonia or hydrogen sulfide. The party responsible for such contamination shall have one of the following tests performed, and shall immediately submit the test results to the division director.

1. "Litmus Paper Test for NH_3";

2. "Lead Acetate Test for H_2S"; and

3. test contained in "For Contaminants Gas Processors Association (GPA) 2140."

§9.65. LP-Gas Storage Distance Requirements. (Amended 11-90)

(a) Distances to buildings and property lines. Stationary LP-gas storage containers and material handling equipment shall be located outside of and no closer to any building or to any adjacent property line as indicated in Figure 1. **Container(s) of 500 gallons, aggregate capacity, or less in vapor service are exempt from the adjacent property line requirements.**

Aggregate Water Capacity of Storage	Minimum Distance
0 - 500 gallons	10 feet
501 - 2000 gallons	15 feet
2001 - 4000 gallons	25 feet
4001 - 8000 gallons	50 feet
8001 - 12,000 gallons	75 feet
12,001 gallons and over	100 feet

FIGURE 1

(b) The minimum distance requirements to a building shall not be applicable at installations having an aggregate water capacity greater than 8,000 gallons when the building is single story, not used for human occupancy, the floor area of the building does not exceed 30 square feet, and is located in excess of 50% of the minimum distance. A maximum of one building at any one installation may be located in accordance with this paragraph.

Aggregate Water Capacity of Storage	Minimum Distance	
	Vertical Bulkhead and Pneumatically Actuated ESV's	Vertical or Horizontal Bulkhead and Cable or Pneumatically Activated ESV's
8,001 - 12,000 gallons	60 feet	67 feet
12,001 gallons and over	80 feet	90 feet

FIGURE 1a

Stationary LP-gas storage containers and material handling equipment may be located no closer to any buildings and/or adjacent property lines, in accordance with Figure 1a, provided bulkhead(s) and emergency shutoff valves (ESV's) have been installed and are maintained in good working order at all times.

(c) Distances to rights-of-way. Stationary LP-gas storage containers, automatic dispensing equipment, and material handling equipment shall be located no closer to any roadway, highway, railroad, **pipeline or utility** right-of-way, as indicated in Figure 2. **Where the LP-gas storage containers, automatic dispensing equipment, and material handling equipment are located adjacent to railroad pipeline or utility rights-of-way, a written waiver must be filed by the right-of-way owner indicating that a building will not be constructed within the distance requirements of subsection (a) of this section without prior written notification to the LP-Gas Division. The division director shall make final determination as to whether the affected LP-gas operations can continue on the premises once the building is completed.**

Aggregate Water Capacity of Storage	Minimum Distance
0 - 500 gallons	10 feet
501 - 2000 gallons	15 feet
2001 - 4000 gallons	25 feet
4001 gallons and over	50 feet

FIGURE 2

(d) Manufactured housing provisions.The following requirements apply only to manufactured housing.

(1) DOT container(s) of 105 pounds or less LP-gas capacity may be located within 10 feet of a manufactured house(s). When so located, total aggregate capacity of these containers shall not exceed 300 pounds of LP-gas capacity. No container(s) shall be located within 10 feet of any source of ignition.

(2) DOT container(s) of more than 105 pounds LP-gas capacity may be located within 10 feet of a manufactured house(s), where the 10-foot distance requirement is unobtainable.

(3) Where the distance required by subsection (a) of this section to manufactured home(s) can not be obtained, ASME containers of 500 gallons or less water gallon capacity may be located within 10 feet of the manufactured house(s).

(4) Under no circumstances may any container referred to in paragraphs (2) and (3) of this subsection be closer than three feet from any manufactured house nor closer than 10 feet from any source of ignition.

(5) When any DOT container is located less than 10 feet from a manufactured house, the relief valve shall be positioned to prevent the discharge of vapor toward any manufactured house(s).

(e) No stationary LP-gas storage container shall be placed in any area directly beneath an electric transmission line (does not include a customer service line) in that area directly beneath the transmission line and that area which is **six** feet to either side of the line. If this distance is not adequate to prevent the broken ends of the electric transmission lines from contacting the LP-gas container in the event of breakage of any conductor, then other suitable means of protection can be taken to prevent such contact which are acceptable to the director or the container must be located a sufficient distance from the transmission line to prevent such contact.

(f) LP-gas installations completed on or after June 1, 1989, involving multi-container installations of 1,000 water gallon individual container capacity or greater shall have a minimum three feet separation from adjacent LP-gas containers. LP-gas containers shall not be positioned end to end or perpendicular to other LP-gas containers.

(g) A retail operated cylinder filling and/or service station installation must be equipped with a pump. A remote control shall be provided outside the dispensing device, whereby the source of power to the pump may be readily shut off in the event of an accident. Any other LP-gas liquid dispensing installation need not be provided with a pump provided the storage container(s) are located one and one half times the required distances as shown in Figure 1 of subsection (a) of this section.

§9.66. Maximum Capacity of LP-Gas Storage Containers.

No LP-gas storage container used in Texas may exceed 30,000 gallons water capacity.

§9.67. LP-Gas Storage Protection. (Amended 11-90)

(a) Each LP-gas stationary storage installation of 4,000 gallons or more, aggregate capacity installed on or after January 1, 1988, shall incorporate in its design bulkheads and emergency shutoff valves (ESVs) for liquid and vapor transfer systems. *NOTE: This section shall not apply where the liquid transfer hose is connected directly to a 1 3/4 inch or less acme-threaded filler valve when such valve is installed directly into the container.*

(b) Bulkheads shall be of concrete or steel and anchored sufficiently to prevent displacement of piping and fittings in the event of a truck pull-away while the transfer hose is connected.

(1) Piping through a bulkhead shall be secured to the bulkhead to prevent shifting. Piping shall terminate through the bulkhead with a Schedule 80 pipe collar and a 12-inch length of Schedule 80 pipe and forged steel elbow between the bulkhead and hose coupling.

(2) Bulkheads shall not be less than 10 feet from a container.

(c) Emergency shutoff valves (ESVs) shall be installed in fixed piping of the transfer system upstream of the bulkhead and within four feet of the bulkhead with a flexible wire braided hose not more than 24 inches long installed between the ESVs and the bulkhead.

(1) ESVs shall be installed according to the manufacturer's instructions.

(2) ESVs shall incorporate all of the following means of closing:

(A) automatic shutoff through thermal (fire) actuation using fusible elements with a melting point not to exceed 250°F;

(B) manual shutoff at the installed location; and

(C) manual shutoff from a remote location. Remote controls shall be connected to each ESV. Emergency remote controls shall be conspicuously marked and shall be located and maintained to be readily accessible in emergencies.

(3) Where the flow of LP-gas is in one direction only, a back-flow check valve may be used in lieu of an ESV in the fixed piping, provided that the back-flow check valve has a metal-to-metal seat or a primary resilient seat with a secondary metal seat not hinged with combustible material.

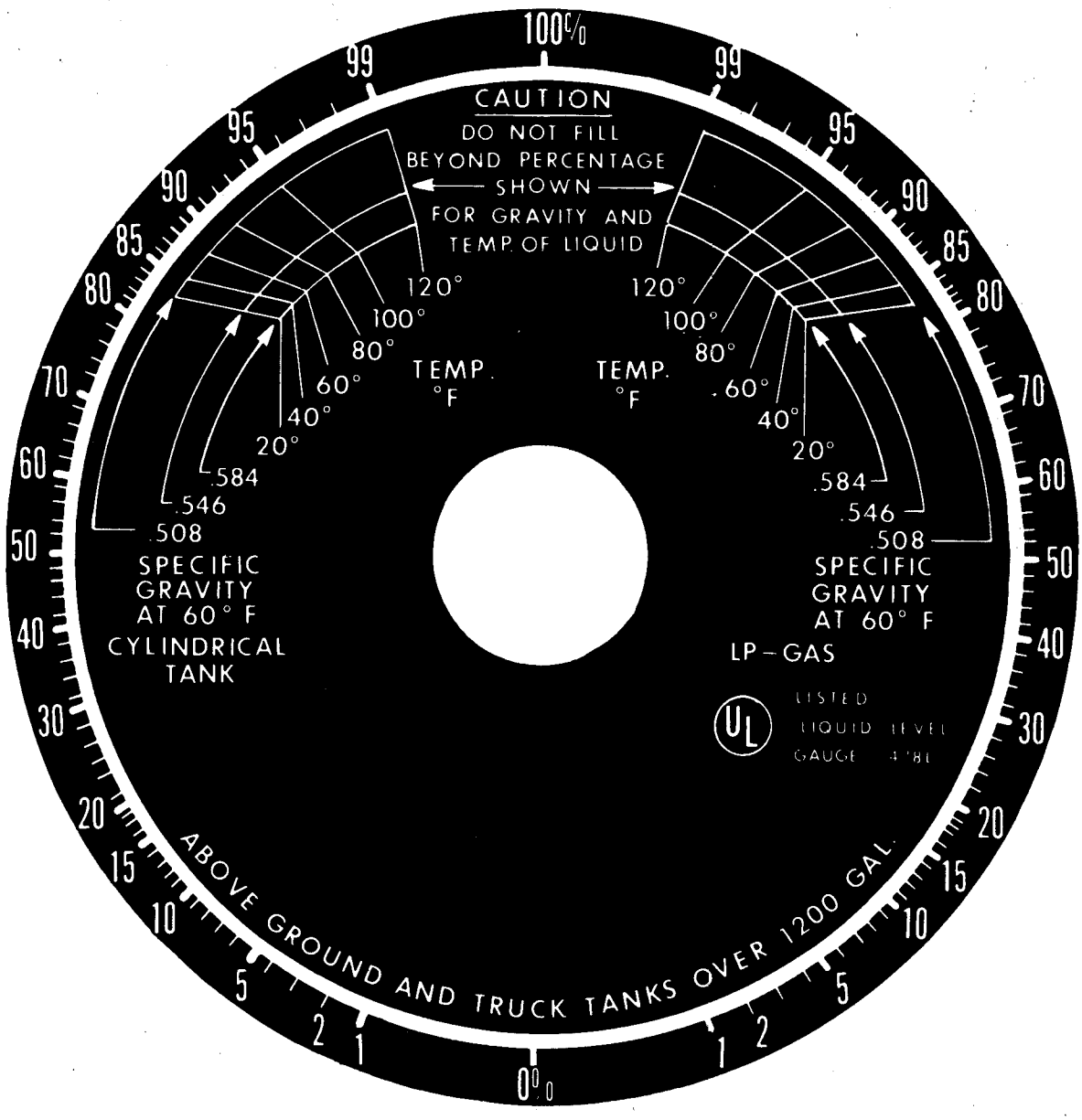
(4) ESVs or back-flow check valves shall be installed in the piping system in such a manner that any break resulting from a pull-away will occur on the transfer hose side of the bulkhead and the valves and piping on the container side of the bulkhead will remain intact.

(d) The bulkhead(s) and ESV's must be kept in proper working order at all times in accordance with the manufacturer's instructions and the LP-Gas Safety Rules. If the bulkhead(s) and ESV's are not in proper working order in accordance with the manufacturer's instructions and the LP-Gas Safety Rules, the installation is to be immediately removed from LP-gas service and not operated until the necessary repairs have been made.

§9.68. Approved Gauging Devices.

(a) All American Society of Mechanical Engineers (ASME) containers manufactured after June 1, 1989, shall be equipped with a fixed or rotary tube liquid level gauging device. Such devices shall be readily accessible and shall be used at time of filling operation to ensure the container is not filled in excess of the maximum permitted filling density as required by §9.47 of this title (relating to Filling Density). Refer to §9.923 of this title (relating to Appendix C) method of calculating length of fixed tube. If applicable, see Figure 1 in this section for quick reference to determine the maximum permitted filling density for aboveground and truck containers over 1,200 gallons. Gauging devices of the fixed or rotary tube may be used without the installation of an excess flow valve, provided bleed valve opening is not larger than a Number 54 drill size.

(b) Approved gauging devices for ASME containers constructed prior to June 1, 1989, are a slip tube, fixed tube, rotary-magnetic, or rotary tube. Refer to §9.923 in this title (relating to Appendix C), for method of calculating length of fixed tube. If applicable, see Figure 1 in this section for quick reference to determine the maximum permitted filling density for aboveground and truck containers over 1,200 gallons. Gauging devices of the slip tube, fixed tube, or rotary tube may be used without the installation of an excess flow valve provided the bleed valve opening is not larger than a Number 54 drill size.
(See illustration on following page.)


100%
99
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90
85
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CAUTION
DO NOT FILL
BEYOND PERCENTAGE
SHOWN
FOR GRAVITY AND
TEMP. OF LIQUID
120°
100°
80°
60°
40°
20°
TEMP.
°F
.584
.546
.508
SPECIFIC
GRAVITY
AT 60° F
CYLINDRICAL
TANK
LP-GAS
LISTED
LIQUID LEVEL
GAUGE
ABOVE GROUND AND TRUCK TANKS OVER 1200 GAL.

§9.69. Grounding and Electrical Fields.

(a) Stationary aboveground LP-gas storage containers exceeding 1,200 gallons shall be grounded by a separate and adequate ground. The grounding shall consist of a ground rod placed at a sufficient depth to ensure grounding of any static charge generated, and shall be connected to the container by copper wire equivalent in conductive capacity to a Number 10 American Wire Gauge wire. The ground wire must be attached by a means that ensures a good electrical bond.

(b) Electrical installations within the vicinity of LP-gas storage containers or LP-gas transfer, handling, or dispensing equipment shall be in accordance with the National Electric Code (NEC) for Class I, Group D: Hazardous Locations. The vicinity of storage containers or equipment is that area indicated by the following chart:

Aggregate Water Capacity	Distance Requirements from Container or Equipment for Class I, Group D, Hazardous Locations NEC Classification Measured in all Directions
0 - 500 gallons	10 feet
501 - 2000 gallons	15 feet
2001 gallons and over	25 feet

§9.70. Maintenance. (Amended 11-90)

All LP-gas storage containers, valves, dispensers, accessories, piping, and transfer equipment shall be maintained in good operating condition.

Subchapter C. DIVISION I

§9.71. Construction and Original Test of Cylinders.

All Division I containers for use with LP-gas shall be manufactured, tested, and inspected in accordance with the Department of Transportation regulations and specifications.

§9.72. Markings on Containers.

All Department of Transportation (DOT) containers for use with LP-gas must be marked in accordance with the regulations current at the time of fabrication.

§9.73. Requalification Requirement.

(a) DOT containers may not be refilled, continued in service, or transported unless they are properly qualified or requalified for LP-gas service in accordance with the DOT regulation.

(b) Such containers shall at all times be plainly stamped to show that they have been requalified within the required test period.

MOST PREVALENT DOT SPECIFICATION NUMBERS FOR LP-GAS CONTAINERS*

Commonly used	May Be Used
DOT 4B	DOT 3A
DOT 4BA	DOT 3AA
DOT 4BW	DOT 3B
DOT 4E	DOT 3E
DOT 4B - - - FLW	DOT 4B - - -ET
ICC 26-240	
ICC 26-300	

* These specification numbers serve as a guideline only and are not intended to be an exclusive listing of acceptable specification numbers.

(c) DOT containers must be requalified before filling after the expiration of 12 years from the original manufacturer's inspection date. This retest and/or inspection may be performed as follows:

Method	Requalifies For A Period of	Typical Mark
Hydrostatic Expansion Test	12 years	1-80
Internal Hydrostatic Test	7 years	1-80S
External Visual Inspection	5 years	1-80E

(d) A container manufactured in January 1980, requires test or inspection prior to January 1992. If it is then stamped 1-92 it is qualified until January 2004 (expansion test method); if it is stamped 1-92S (internal hydrostatic test method), it is qualified until January 1999; and, if it is stamped 1-92E, it is qualified until January 1997 (external visual inspection method).

(e) Regardless of tests performed, each container must be carefully inspected for defects at the time of each filling and removed from service if any signs of defects are observed as set forth in §9.79 of this title (relating to Examination of Containers).

§9.74. Installation of Containers.

(a) ICC or DOT containers for use with LP-gas shall not be installed either completely or partially buried in the ground.

(b) Containers shall be set upon a firm masonry or rock foundation so that the bottom of the container is not in contact with the ground. Such containers shall be securely strapped to a post, or other means shall be taken to insure container against being accidently displaced.

(c) To guard against the effects of possible settling, containers shall be connected to house piping by means of a semiflexible connector of copper tubing or its equivalent.

§9.75. [RESERVED].

§9.76. Container Valves and Accessories.

(a) Each ICC or DOT container for use with LP-gas shall be equipped with a hand operated cylinder valve, approved for use with liquefied petroleum gas.

(b) Where ICC or DOT containers for use with LP-gas form a part of a multicylinder installation, the individual containers shall be manifolded in such manner as to enable the removal and replacement of an individual container without shutting down the system. This manifolding may be accomplished by means of approved manually operated or automatic equipment.

(c) Container valves, accessory equipment, and connectors shall be protected against accidental injury or tampering in an approved manner.

(d) Container valves and connections to the container shall be protected during transit either by recessing such valves and connectors into the container, or by providing properly ventilated caps or collars. Where such caps or collars are used they shall be designed to withstand a blow from any direction equivalent to a 30-pound weight dropped from a height of four feet. Caps or collars shall be designed so that no part of a blow will be transmitted to the valve or connector.

§9.77. Filling of Department of Transportation Containers.

(a) DOT containers of less than 101 pounds LP-gas capacity shall be filled by weight only. The weight of such containers shall be determined by commercial scales currently registered with the Texas Department of Agriculture,except as provided in §9.305 of this title (relating to Charging of Containers).

(b) DOT containers of 101 pounds LP-gas capacity or more may be filled by either a fixed liquid level gauge or by weighing.

(c) Fixed tube devices, where permitted, shall be so arranged that the maximum liquid level to which the container may be filled is not in excess of the maximum permitted under the filling density table in §9.47 of this title (relating to Filling Density) based on an initial liquid temperature not in excess of 40° F.

(d) Forty-two percent of the water capacity in pounds equals total weight of LP-gas which can be put into a cylinder.

(1) The formula for filling LP-gas containers by weight under this section is as follows:

(A) The propane capacity in pounds is determined by multiplying the total water capacity in pounds by .42.

(B) Add the tare weight of a cylinder to the liquid weight of the product plus the weight of the hose and nozzle. The total weight of these three is the proper scale setting.

(2) The following chart is the list of typical filling limits for propane:

LIST OF TYPICAL FILLING LIMITS FOR PROPANE, SPECIFIC GRAVITY AT 60° OF 0.504 - 0.510.

CONTAINER CAPACITY IN POUNDS

Water	Propane	Water	Propane
12	5	80	33.5
15	6	96	40
24	10	104	43.5
26	11	120	50
48	20	144	60
60	25	239	100
67	28	477	200
69	29	715	300
72	30	1000	420

§9.78. Repair of Containers.

(a) United States Department of Transportation (DOT) containers which are not subject to the jurisdiction of the DOT or the Interstate Commerce Commission (ICC) (see Section 9.1(2)(B) of this title (relating to Application of Rules)) may be repaired and returned to LP-gas service under the following conditions.

(1) Repair work on a container covered by this section may be performed only by a Category A licensee of the division.

(2) Repair to a container covered by this section must be documented by the licensee making such repair. The licensee making repair must file an LPG Form 8-A with the division prior to placing a repaired container in service in Texas or to selling such container to any individual for use in Texas. On this form the licensee shall certify at the conclusion of any repair that the container, as repaired, is safe for use in LP-gas service in Texas.

(3) Each licensee who repairs containers pursuant to this section shall register with the division a numerical, alphabetical, or geometrical symbol. This symbol shall be used to identify the licensee's repair work and it must be unique to the licensee. The division shall not register a symbol as that of a licensee if that symbol, or one substantially like it, has been previously registered to another licensee.

(4) No symbol required by this section may be used for the purpose set forth in this section by any person other than the licensee to whom the symbol is registered.

(5) After repair of any container covered by this section, the licensee making repair shall stamp into the top head of the container the symbol of the licensee. The symbol shall be stamped in such a way that the marking does not diminish the integrity of the container, and in such a way as to be readily visible upon inspection of the container.

(6) No container covered by this section may be used in LP-gas service in Texas if it has been repaired and if there is no documentation on file with the division as required by paragraph (2) of this section.

(b) Repair work on a container covered by this section does not include routine maintenance or repair/replacement of valves and gauges.

§9.79. Examination of Containers.

(a) Before filling a DOT container, the person servicing shall examine such container. Where the container is found to be dented or bulged, where the metal is gouged, or where there is evidence of corrosion which substantially reduces the integrity of the containers, such container may not be filled.

(b) Before filling a DOT container the person servicing shall examine such container to detect any repair of the container. If there is visible evidence of repair to the container, and if there is no symbol on the container as required in section 9.78 of this title (relating to Repair of Containers), then such container may not be filled.

(c) The following disposition is to be made of rejected containers:

(1) Containers subjected to fire must be requalified, or repaired in accordance with §9.78 of this title (relating to Repair of Containers), or permanently removed from service except that DOT 4E (aluminum) containers must be permanently removed from service.

(2) Containers showing serious physical damage or leaks must be retested in accordance with §9.73 of this title (relating to Requalification Requirements) and, if necessary, repaired in accordance with §9.78 of this title (relating to Repair of Containers).

§9.80. Use of Containers Inside Building.

Portable liquefied petroleum gas containers may be used but not stored inside a building when required as a fuel supply container for approved torches being used in the construction, repair, or improvement of

the building or structure and its fixtures and equipment, or for other industrial uses. Such installations shall comply with the following additional requirements:

(1) Regulator shall be connected directly to cylinder valves.

(2) Containers shall not have an aggregate capacity in excess of 250 pounds.

(3) Such containers while being used in a building shall not be placed so that they are subject to excessive rises in temperature, mechanical injury, or to tampering by unauthorized persons.

§9.81. [RESERVED]

Subchapter D. DIVISION II

§9.91. Container Valves and Accessories.

(a) All valves shall be located on the container on any system installed for consumer use.

(b) Every container shall be equipped with a manually operated shutoff valve of a type approved by the Railroad Commission of Texas; such valves shall be installed on the service outlet of the container in such position as to be readily accessible at all times.

(c) Where the orifice of the shutoff valve on the tank does not exceed 5/16 inch for vapor withdrawal systems or 1/8 inch for liquid withdrawal systems, an excess flow valve will not be required, provided the regulator is directly attached to the valve outlet, or attached to the valve outlet with an approved connection of minimum practical length, and is rigidly supported.

§9.92. [RESERVED].

§9.93. Relief Valves on Underground Containers.

Containers which are intended only for underground installation, and which are not to be filled either fully or partially with liquid fuel until installed underground and completely covered, may be equipped with approved spring loaded relief valves having not less than 30% of the capacity specified in §9.921 of this title (relating to Appendix A), which is incorporated herein and made a part hereof for any and all purposes. Containers designed for underground installation shall not contain liquid fuel at any time when such containers are aboveground or uncovered.

§9.94. [RESERVED].

§9.95. [RESERVED].

§9.96. [RESERVED].

§9.96. Regulator Relief Valves.

Final stage regulators shall be equipped on the low pressure side with a relief valve having a start-to-leak pressure setting of not less than 1.7 times nor more than three times the delivery pressure of the regulator.

§9.97. Protection against Flooding.

On underground installations where there is a possibility of the manhole or housing becoming flooded, discharge from relief valves and regulator vent lines should be above the possible high water level. In loose soils, underground containers shall be further protected against flood damage by firmly anchoring the container to prevent floating.

§9.98. [RESERVED].

§9.99. [RESERVED]

§9.100. [RESERVED]

§9.101. Containers Installed Aboveground.

(a) Containers installed aboveground, except skid tanks, shall be provided with substantial masonry or noncombustible structural supports on firm masonry foundations.

(b) Except as modified by the note set forth in paragraph (2) of this subsection, aboveground containers shall be supported as follows:

(1) Horizontal containers shall be mounted on saddles and secured thereto in such manner as to permit expansion and contraction. Every container shall be so supported as to prevent the concentration of excessive loads on the supporting portion of the shell. Structural metal supports may be employed when they are protected against fire in an approved manner. Suitable means of preventing corrosion shall be provided on that portion of the container in contact with the foundations or saddles.

(2) Containers, while installed for use, shall not be stacked one above another.Note: Any container may be installed with fireproof ferrous metal supports if mounted on concrete pads or footings and if the distance from the outside bottom of the container to the ground does not exceed five feet, provided the container is in an isolated location and such installation is approved by the Railroad Commission.

(c) Upon completion of the consumer container installation, the licensee making the installation shall attach to one of the container valves a metal tag bearing the firm name of the licensee making the installation, his current license number, and the year installed.

§9.102. Containers Installed Underground.

(a) Containers installed underground shall be so placed that the top of the container is not less than two feet below the normal surface of the ground, except for approved underground/aboveground (UG/AG) containers marked as such in accordance with §9.40 of this title (relating to Manufacturer's NamePlates and Markings on ASME Containers), which may be installed not less than six inches below grade from the top of the UG/AG container. All containers referred to in this subsection shall be protected against mechanical injury if the container is subject to vehicular traffic by a system of guardrails in accordance with §9.63 of this title (relating to Uniform Protection Standards).

(b) Underground containers shall be set on a firm foundation (firm earth may be used) and surrounded with soft earth or sand, well tamped in place.

(c) Underground and UG/AG containers shall be properly prepared and primed by the manufacturer with a suitable corrosion resisting coating. All primer and subsequent coatings must be chemically compatible and must provide suitable protection from corrosion and abrasion.

(d) Upon completion of the consumer container installation, the licensee making the installation shall attach to one of the container valves a metal tag bearing the firm name of the licensee making the installation, his current license number, and the year installed.

§9.103. Reinstallation of Underground Containers.

(a) When an underground container is to be reinstalled it shall be thoroughly cleaned and given a careful inspection for evidence of corrosion.

(b) If corrosion is found, the container shall be sent to a licensed fabricator for inspection and testing.

(c) If repairs are necessary, such repairs shall be made by a licensed fabricator only.

(d) Upon completion of the container installation, the licensee making the installation shall attach to one of the container valves a metal tag bearing the firm name of the licensee making the installation, his current license number, and the year installed.

§9.104. Skid Tanks.

Containers with foundations attached (portable or semiportable containers with suitable steel "runners" or "skids," and popularly known in the industry as "skid tanks") shall be designed, installed, and used in accordance with these rules, subject to the following exceptions and additions:

(1) If skid tanks are to be used at a given general location for a temporary period not to exceed one year, they need not have fire-resisting foundations or saddles, but shall have adequate ferrous metal supports.

(2) Skid tanks shall not be installed with the outside bottom of the container shell more than one foot above the surface of the ground, unless fire-resisting supports are provided.

(3) The bottom of the skids shall not be less than two inches, or more than 12 inches below the outside bottom of the container shell.

(4) All fittings having communication with the interior of the container shall be protected against mechanical injury. Relief valves shall be on top in a vertical position in the vapor space with a guard welded to the tank extending two inches above the top of the valve, with a safety factor of at least four to one and open on two sides to permit removal.

(5) Skid tanks shall not be used as bulk storage containers unless all provisions of Division III are met.

(6) When connected to piping, and not permanently located on fire-resisting foundations, such connections shall be sufficiently flexible to minimize possibility of breakage or leakage of connections if container settles, moves, or is otherwise displaced.

(7) Skid or lugs for attachment to skids shall be secured to container in accordance with the provisions of Division I, Section VIII of the edition of the ASME Boiler and Pressure Vessel Code in effect at the time of fabrication with a minimum factor of safety of four times the weight of the container and attachments when filled to the maximum permissible loaded weight.

(8) Skid tank containers shall be mounted in steel cradles continuously welded to the container and supporting the container through an arc of 120°. Steel pads shall be provided at each cradle location to prevent the concentration of excessive stresses in the shell plate of the container. Skids shall be securely attached to cradles. Skids and cradles shall be designed and installed with a minimum factor of safety of four times the weight of the container and attachments when filled to the maximum permissible loaded weight. All welding to tank shall be continuous welding.

§9.105. [RESERVED].

§9.106. Painting.

Aboveground storage containers shall be finished with a heat-reflecting surface equivalent to white or aluminum and shall be maintained in good condition.

§9.107. Protection of Tank and Accessories.

(a) Tanks and tank accessory equipment shall be protected against tampering and mechanical damage in an approved manner. Such accessories shall also be protected during the transit of tanks intended for installation underground.

(b) In the case of underground containers, all such connections to container shall be located within a substantial dome, housing, or manhole, and with access thereto by means of a substantial cover.

§9.108. [RESERVED].

§9.109. Venting Regulators.

Regulator vents shall be kept free of obstructions at all times. Provision shall be made to prevent water from entering the regulator through the regulator relief valve in case the dome of the tank is flooded.

§9.110. Draining Condensate.

Liquid which has collected in the house line or yard line due to condensation shall be drained to the open air only. Under no circumstances shall such liquid be drained in or under a house or building.

§9.111. [RESERVED].

§9.112. Mounting of Containers.

All Division II containers in excess of 1,200 w.g. capacity shall be supported through an arc of 120 degrees in such a manner as to prevent the concentration of excessive stresses on the shell plate of the container.

§9.113. [RESERVED].

Subchapter E. DIVISION III

§9.121. [RESERVED].

§9.122. Installation of Containers.

(a) All bulk storage containers in excess of 1,200 w.g. capacity shall be supported through an arc of 120 degrees in such manner as to prevent the concentration of excessive stresses in the shell plate of the container.

(b) All bulk storage containers shall be mounted on substantial masonry supports or structural steel supports on substantial masonry footings.

(c) Bulk storage containers, while installed for use, shall not be stacked one above the other.

§9.123. [RESERVED].

§9.124. Painting.

All bulk storage containers shall be painted a heat-reflecting color, either white or aluminum. Painting containers red or other heat-absorbing colors is prohibited.

§9.125. Lettering. (Amendend 11-90)

All bulk storage installations shall be lettered in letters not less than **four** inches high to indicate the name of the licensee operating the installation. **Each container shall be lettered in letters not less than four inches in height to indicate the nature of contents, i.e. LP-gas, Butane or Propane. Such lettering shall be in sharp contrast to the background. A final determination as to whether the name of the installation is sufficient to properly identify the name of the installation will be made by the director.** The previously stated lettering shall be so placed as to be readily visible to the public.

§9.126. [RESERVED].

§9.127. [RESERVED].

§9.128. [RESERVED].

§9.129. Container Valves and Pressure Gauge.

(a) All valves and connections shall be of approved type suitable for use with liquefied petroluem gas and designed for not less than the maximum pressure to which they may be subjected.

(b) A pressure gauge shall be required on all bulk storage containers. Container openings to which a pressure gauge is attached need not be equipped with a shutoff valve or excess flow valve if such openings are restricted to not larger than a Number 54 drill size opening, and are piped to the vapor space of the container.

§9.130. [RESERVED].

§9.131. [RESERVED].

§9.132.[RESERVED].

§9.133. Loading Area.

Loading and unloading areas in and around bulk storage installations shall not have a roof, overhead partition, or a cover of any kind over LPG trucks and semi-trailer tanks during transfer operations.

§9.134. [RESERVED].

§9.135. Bulkheads and Emergency Shutoff Valves. (Amended 11-90)

(a) Bulk storage facilities installed on or after June 1, 1984, shall include bulkheads and emergency shutoff valves (ESVs) for liquid and vapor transfer areas.

(b) Bulkheads, piping, and hoses shall be protected in accordance with §9.63 of this title (relating to Uniform Protection Standards).

(c) Emergency shutoff valves (ESVs) shall be installed in fixed piping of the transfer system upstream of the bulkhead with a flexible wire braided hose not more than 24 inches long installed between the ESVs and the bulkhead.

(1) ESVs shall be installed according to the manufacturer's instructions.

(2) ESVs shall incorporate all of the following means of closing:

(A) automatic shutoff through thermal (fire) actuation using fusible elements with a melting point not to exceed 250°F;

(B) manual shutoff at the installed location; and

(C) manual shutoff from a remote location. Remote controls shall be connected to each ESV. Emergency remote controls shall be located and maintained to be readily accessible in emergencies. **Each emergency remote control location shall be lettered "push-emergency shutoff valve" or "pull-emergency shutoff valve", whichever is applicable, in letters not less than one inch in height. Such lettering shall be readily visible from the location of the bulkhead and ESV.**

(3) Where the flow of LP-gas is in one direction only, a back-flow check valve may be used in lieu of an ESV in the fixed piping, provided that the back-flow check valve has a metal-to-metal seat or a primary resilient seat with a secondary metal seat not hinged with combustible material.

(4) ESVs or back-flow check valves shall be installed in the piping system in such manner that any break resulting from a pull-away will occur on the transfer hose side of the bulkhead and the valves and piping on the container side of the bulkhead will remain intact.

Subchapter F. Division IV

§9.139. Subchapter F.

Division IV applies to nonspecification cargo containers, used in the transportation and distribution of LP-gas and to each truck used principally for transporting LP-gas in portable containers.

§9.141. Protection of Safety Relief Valves.

Any container fabricated for use in the State of Texas after March 7, 1983, designed or used for transport of LP-gas shall have only full internal type safety relief valves, in order to provide maximum protection against breakage or dislocation in the event of an accident.

§9.142. Protection of Valves and Accessories.

All valves (other than safety relief valves), pumps and piping which are a part of truck and trailer tanks used in the transportation of liquefied petroleum gases shall be located and/or protected by recessing or by heavy guard rails so as to provide maximum protection against breaking off or dislocation in case of an accident.

§9.143. Labels.

All container inlets and outlets, except relief valves, liquid level gauging devices, and pressure gauges, shall be labeled to designate whether they communicate with vapor or liquid space. Labels may be on valves.

§9.144. Thermometer Well. (Repealed 10-90)

§9.145. Pressure Gauge.

A pressure gauge shall be required on truck tanks and semi-trailer containers. Container openings to which a pressure gauge is attached need not be equipped with shut-off valve or excess flow valve if such openings are restricted to not larger than Number 54 drill size and are piped to the vapor space of the container.

§9.146. Piping and Fittings.

Refer to §9.510 in Division XIV of this title (relating to Protection, Piping, and Fittings).

§9.147. Transfer of Liquids.

Truck and trailer containers shall be loaded by weight, by meter, or any approved liquid level gauging device.

§9.148. Manifest.

Refer to §9.518 in Division XIV of this title (relating to Manifest).

§9.149. Mounting of Transfer Equipment.

Refer to §9.503 in Division XIV of this title (relating to Mounting of Transfer Equipment).

§9.150. Securing of Portable Containers.

Portable containers shall be braced so as to prevent relative motion while in transit and secured in such position that the relief valve communicates with the vapor space of the container.

§9.151. Mounting Containers.

(a) Truck and semi-trailer containers shall be mounted in steel cradles continuously welded to the

container and supporting the container through an arc of 120 degrees. Steel pads shall be provided at each cradle location to prevent the concentration of excessive stresses in the shell plate of the container. All attachments to the container shall be made by the container manufacturer before testing.

(b) Containers shall be mounted on truck or semi-trailer frame by suitable hold-down bolts or other approved means and shall be provided with stops to prevent shifting on such frames. U-bolts or J- bolts are not approved.

§9.152. Electrical Equipment and Lighting.

Refer to §9.514 in Division XIV of this title (relating to Electrical Equipment and Lighting.

§9.153. Liquid Level Gauging Devices.

Each truck and trailer container shall be equipped with a liquid level gauging device of approved design, for example, a rotary gauge, slip tube, or a fixed tube device. Fixed tube devices shall be so arranged that the maximum liquid level to which the container may be filled is not in excess of the maximum permitted under the filling density table in §9.47 of this title (relating to Filling Density), but based on an initial liquid temperature not to exceed 40 degrees Fahrenheit. Liquid level gauging devices of the rotary tube, fixed tube, and slip tube type may be used without installation of an excess flow valve, provided the bleed valve opening is not larger than a Number 54 drill size. (Refer to §9.923 of this title (relating to Appendix C), which is incorporated herein and made a part hereof for any and all purposes for method of calculating length of fixed tube.)

§9.154. Truck Containers and Semi-Trailer Containers.

(a) All semi-trailer containers shall be of the fifth wheel type and shall be attached to the tractor in such manner as to positively prevent separation of the tractor and semi-trailer while the combination is in motion.

§9.155. Baffles.

All truck tanks and semitrailer tanks shall be equipped with suitable full baffles, adequate to prevent surging of tank contents.

§9.156. [RESERVED].

§9.157. Testing Requirements.

Refer to §9.501 in Division XIV of this title (relating to Testing Requirements).

§9.158. Exhaust System.

(a) The exhaust system, including muffler and exhaust line, shall have ample clearance from the fuel system and combustible materials, and shall not be exposed to accumulation of greases, oil, or gasoline.

(b) The exhaust system, including all units, shall be constructed and installed in a workmanlike manner. Muffler cut-outs shall not be used.

§9.159. Extinguishers Required.

Refer to §9.517 in Division XIV of this title (relating to Extinguishers Required).

§9.160. Maintenance of Equipment

Refer to §9.521 in Division XIV of this title (relating to Uniform Protection Standards).

§9.161. Protection Against Contamination.

Refer to §9.507 in Division XIV of this title (relating to Protection Against Contamination).

§9.162. Lighted Materials Prohibited

No person may have lighted materials (i.e. cigarettes, cigars, pipes) within 25 feet of an LP-gas bobtail or transport.

§9.163. Protection Against Collisions.

Each tank truck and semi-trailer shall be provided with properly attached steel bumpers or chassis extension at the rear which shall be so arranged as to adequately protect the tank, piping, valves, and fittings in case of collision.

§9.164. Parking of Liquefied Petroleum Gas Transports.

Refer to §9.520 in Division XIV of this title (relating to Parking of LP-Gas Transports and Container Delivery Units).

§9.165. Filling Containers on Highways, Roads, Streets, or Alleys.

Refer to §9.519 in Division XIV of this title (relating to Transfer of Fuel on Highways, Streets, or Alleys).

§9.166. Issuance of LPG Form 4 Decal.

Refer to §9.524 in Division XIV of this title (relating to Issuance of LPG Form 4 Decal).

§9.167. Painting.

Refer to §9.512 in Division XIV of this title (relating to Painting).

§9.168. Lettering. (Amended 11-90)

(a) Refer to §9.502 in Division XIV of this title (relating to Markings and Inspection Requirements).

(b) The month and year of the retest date shall be located on the curb side of the unit at the forward head to shell seam of the container.

§9.169. Delivery of Inspection Report to Licensee.

Refer to §9.523 in Division XIV of this title (relating to Delivery of Inspection Report to Licensee).

§9.170. Inspection of Cargo Containers.

Refer to §9.522 in Division XIV of this title (relating to Inspection of Cargo Containers).

Subchapter G. DIVISION V

§9.171. Definitions and Applicability. (Amended 11-90)

(a) The following words and terms, when used in this division, shall have the following meanings, unless the context clearly indicates otherwise:

(1) *Approved*—Unless otherwise noted, means approved by the Railroad Commision.

(2) *Auxiliary engine*—An engine used for purposes other than propelling a vehicle.

(3) *Public transportation vehicle*—Includes, but is not limited to, taxis, buses (other than school buses), airport courtesy cars, and any vehicle for hire to transport persons.

(4) Mass transit vehicle—Any vehicle used by a political subdivision of a state, city, or county which is used in the conveyance of the general public

(5) *School bus*—A vehicle that is sold or used for purposes that include carrying students to and from school or related events but does not include a bus designed and sold for operation as a common carrier in urban transportation.

(b) Provisions of Division V apply to motor fuel and mobile fuel installations made after March 21, 1983.

§9.172. Containers. (Amended 11-90)

(a) All motor fuel containers and permanently mounted mobile fuel containers shall be designed, fabricated, tested, and marked (or stamped) in accordance with Division I, Section VIII, of the edition of the ASME Boiler and Pressure Vessel Code in effect at the time of manufacture, or in accordance with the regulations of the United States Department of Transportation (DOT). (Note: Motor fuel containers installed on self-propelled vehicles used on public roads shall be constructed only in accordance with Division I, Section VIII, of the edition of the ASME Boiler and Pressure Vessel Code in effect at the time of manufacture.)

(b) The minimum design working pressure for DOT containers shall be not less than 240 psig. The minimum design working pressure for ASME containers shall be not less than 250 psig, except that containers installed on any vehicle within enclosed spaces (including recesses or cabinets) shall have a minimum design working pressure not less than 312 psig. **A pickup type vehicle, equipped with a camper shell not used for human occupancy, shall not be required to comply with the minimum 312 psig container requirement.**

(c) LP-gas motor fuel containers on passenger-carrying vehicles shall not exceed 200 gallons aggregate water capacity. No more than two containers shall be mounted on a vehicle. **This subsection shall not prevent a LP-gas motor fuel line from being connected to a cargo container on a LP-gas bobtail delivery unit properly registered with this division.**

(d) LP-gas motor fuel containers on other than passenger vehicles normally operating on the highways shall not exceed 175 gallons individual water capacity, 300 gallons aggregate water capacity. No more than two containers shall be mounted on a vehicle.

(e) All motor fuel containers of 130 gallons water capacity or more shall be baffled and shall have steel pads continuously welded to the container and supported through an arc of 120 ° in such a manner as to prevent the concentration of excessive stresses in the shell plate of the container.

(f) Containers covered by this section shall be equipped for filling into the vapor space only. Motor fuel and mobile fuel containers shall not be filled in excess of the maximum permitted filling density.

§9.173. Safety Relief Valves.

(a) All ASME motor fuel and mobile fuel containers shall be equipped with internal type spring loaded safety relief valves which comply with §9.42 of this title (relating to Safety Relief Valves), §9.43 of this title (relating to Setting of Relief Valves), and §9.44 of this title (relating to Construction and Markings of Safety Relief Valves).

(b) Prior to reinstallation of a motor fuel or mobile fuel container equipped with an external relief valve, such container must be retrofitted with an internal safety relief valve of proper size and capacity in compliance with §9.42 of this title (relating to Safety Relief Valves), §9.43 of this title (relating to Setting of Safety Relief Valves), and §9.44 of this title (relating to Construction and Markings of Safety Relief Valves).

(c) Safety relief valve discharge shall be directed upward within 15° of vertical so that any gas released will not impinge upon containers, any part of the vehicle, adjacent persons or vehicles, or the inside of the passenger or luggage compartment.

(d) Safety relief valve discharge vent lines shall be steel or approved high pressure LP-gas hose sized, located, and secured so as to permit sufficient safety relief valve relieving capacity. Discharge vent lines shall be able to withstand the pressure from the relief vapor discharge when the relief valve is in the full open position. A spring-loaded dust or rain cap shall be provided to minimize the possibility of the entrance of dirt or water into either the relief valve or its discharge vent line, and such dust or rain cap shall remain in place except when the relief valve operates. In this event, it shall permit the relief valve to operate at sufficient capacity.

(e) Threaded safety relief valve collars shall be connected to the discharge vent line by means of threaded fittings or manufactured hose fittings designed specifically for this purpose.

§9.174. Protection of Valves and Fittings.

(a) Container valves, appurtenances, and connections shall be adequately protected to minimize the possibility of damage due to accidental contact with stationary objects or objects thrown up from the ground. This protection shall be provided by the container manufacturer by means of a heavy metal fitting guard with a minimum of seven gauge thickness, adequately extended to protect all valves when such valves are in full open position. The guard shall be permanently welded to the container or bolted to the guard tabs. Where used, guard tabs shall have a minimum tensile strength of 55,000 p.s.i.g. and shall be welded to the vessel at the time of fabrication. The bolts securing the guard to the container must be a minimum of 3/8 inch grade five steel machine bolts. Exception: A motor fuel container which is located within an automobile's trunk area, with parts of the vehicle providing protection and all valves and fittings protected by a vapor tight shroud, will be deemed to comply with the foregoing requirement.

(b) Float gauges, relief valves, and other container appurtenances located outside the valve guard area shall be recessed inside the container or protected by a welded guard surrounding the appurtenances.

§9.175. Container Appurtenances.

(a) All valves, gauging devices, and appurtenances shall have a minimum rated working pressure of 250 p.s.i.g.

(b) Manual shut-off valves shall be designed to provide positive closure under service conditions and shall be equipped with an internal excess flow check valve designed to close automatically at the rated flow of vapor or liquid specified by the manufacturer.

(c) Containers shall be installed in such manner that access to main shut-off valves is not hindered by the vehicle's frame, body, or any equipment or appurtenance attached to or mounted on the vehicle. This is not to be construed to prohibit the installation of containers inside a vehicle's passenger or luggage compartments where access doors to these compartments may be locked to secure the vehicle and its contents.

(d) Double back flow check valves shall be of the spring-loaded type and shall close when the flow of LP-gas is either stopped or reversed. This valve shall be installed in the fill valve opening of the container, whether used for remote or direct filling.

(e) All motor fuel and mobile fuel containers installed on public transportation vehicles shall be equipped with an automatic means to prevent filling in excess of the maximum permitted filling density.

(f) An overfilling prevention device may be installed on the container or exterior of the compartment when remote filling is used, provided that a double back flow check valve is installed in the remote fill valve opening.

(g) All container openings, except those for safety relief valves and gauging devices, shall be permanently labeled by appropriate means to designate whether they communicate with the liquid or vapor space.

(h) A solid steel plug shall be installed in unused openings.

§9.176. Vapor and Liquid Service Valves.

When not in use, motor fuel and mobile fuel container withdrawal devices, either liquid or vapor, shall be properly fitted with threaded caps to prevent accidental withdrawal of product to the atmosphere.

§9.177. Gauging Devices.

(a) LP-gas motor fuel containers shall be fabricated so that they may be equipped with a fixed liquid level gauge capable of indicating the maximum permitted filling level computed in accordance with procedures contained in §9.923 of this title (relating to Appendix C).

(b) The fixed liquid level gauge opening in the container shall be designed so the bleeder valve maximum opening to the atmosphere is no larger than a No. 54 drill size. If the bleeder valve is installed at a remote location away from the container, the container fixed liquid level gauge opening and the remote bleeder valve shall be orificed to a No. 54 drill size.

§9.178. Carburetion Equipment.

LP-gas carburetion equipmet shall be listed or approved equipment and recommended for such service by the manufacturer.

§9.179. Motor Fuel Vaporizers.

(a) Vaporizers shall be fabricated of material suitable for LP-gas service and resistant to the action of LP-gas under service conditions. Such vaporizers shall be designed for engine fuel service and listed by Underwriter's Laboratory or other nationally recognized testing agency approved by the Railroad Commission and shall comply with the following:

(1) §9.36 of this title (relating to Approval of Valves, Fittings, and Equipment).

(2) The vaporizer proper, its component parts and any device used with it which may be subjected to container pressure shall have a design pressure of at least 250 p.s.i.g.

(b) Vaporizers shall be plainly and permanently marked at a readily visible point as follows:

(1) design pressure of the fuel containing portion in p.s.i.g.;

(2) water capacity of the gas containing portion of the vaporizer in pounds; and

(3) the name and address of the manufacturer.

(c) The vaporizer shall not be equipped with a fusible plug. The heat exchange surface area between the fuel in the vaporizer and the heating medium shall be of sufficient area to transfer necessary heat to complete vaporization of the gas at all times.

(d) Each vaporizer shall have a valve or suitable plug at or near the lowest portion of the section occupied by the water to permit complete drainage.

(e) Vaporizers shall be securely mounted to the vehicle body or to the engine in such a manner as to minimize the possibility of it becoming loose due to vibrations or impact.

§9.180. Regulators.

(a) Approved automatic pressure reducing equipment, properly secured, shall be installed between the fuel supply container and the carburetor to regulate the pressure of the fuel delivered to the carburetor.

(b) Regulators may be either part of the vaporizer or a separate unit.

§9.181. Automatic Shut-Off Devices.

An approved automatic shut-off device shall be provided in the fuel system. This device shall prevent flow of fuel to the carburetor when the engine is not running even if the ignition switch is in the "on" position.

§9.182. Fuel Filters.

Fuel filters shall be of an approved type and can be either separate or a part of a combination unit.

§9.183. Hose Specifications, Hose Connections and Flexible Connectors.

Hose, hose connections, and flexible connectors used for conveying LP-gas liquid or vapor at pressures exceeding five p.s.i.g. shall be fabricated of materials resistant to the action of LP-gas liquid and vapor, shall be of stainless steel wire braid reinforced construction and shall comply with §9.54 of this title (relating to Hose Specifications).

§9.184. Installation of Containers and Container Appurtenances.

(a) Containers shall be located in a place and in a manner to minimize the possibility of damage to the container and its fittings. All containers shall be located within the physical limits of the vehicle and shall be protected by the vehicle's bumpers. Extending a chassis or bumper for the purpose of mounting containers is prohibited. Containers shall not be installed less than eight inches from the engine or exhaust system, or shall be shielded against direct heating to prevent increased internal pressure of the container.

(b) Containers not exceeding 85 gallons water capacity may be mounted in an elevated position, provided such containers are installed within the confines of an overhead steel framework which is common with or attached to the vehicle's frame and is capable of supporting 1.5 times the weight of the vehicle. No container shall be located directly above another container.

(c) Containers shall not be mounted on roofs, ahead of the front axle, or beyond the rear bumper of the vehicle, and no part of the container or its appurtenances shall be above the highest level of the vehicle proper.

(d) Containers shall be installed with as much road clearance as possible, but never less than the minimum normal road clearance of the vehicle under maximum load conditions. Minimum clearance shall be to the bottom of the container or to the lowest fitting on the container or housing, whichever is lower.

§9.185. Interior Container Installation.

(a) Containers mounted in the interior of a vehicle (including camper shells) shall be installed in such a manner that any LP-gas released will not communicate with the driver or passenger carrying compartments, or with any space containing radio equipment. This may be accomplished by:

(1) Locating the container and the appurtenances in an enclosure which is securely attached to the vehicle and is gas tight. The enclosure shall be vented to the outside of the vehicle. The luggage compartment (trunk) of a vehicle may constitute such an enclosure provided it complies with this provision; or

(2) Enclosing the container appurtenances and their connections in a shroud type structure, which is securely attached to the container and is gas tight. The shroud shall be vented to the outside of the vehicle. Shroud access doors shall be secured in place by fasteners such as wing nuts or spring-loaded latches and shall not require the use of tools for removal. The use of locks on shroud access doors is prohibited.

(b) Enclosures, structures, seals, and conduits used to vent enclosures shall be fabricated of durable materials resistant to damage or dislodging.

(c) Containers installed within any type of enclosure shall be filled remotely. Remote filling connections

(double back flow check valves) and fixed liquid level gauging devices shall be permanently installed on the outside of the vehicle so that no gas from fueling and gauging operations will be released inside the passenger or luggage compartments.

(d) Coiling an attached filter and fixed liquid level gauge remote hose inside the luggage compartment is prohibited.

§9.186. Pipe and Hose Installation.

(a) The piping system shall be designed, installed, supported, and secured in such a manner as to minimize the possibility of damage due to expansion, contraction, vibration, strains, or wear.

(b) Piping shall be installed in a protected location with a minimum distance of eight inches from the exhaust, catalytic converter, and exhaust manifold, or shall be insulated to prevent heat deterioration. If piping is installed outside, under the vehicle and below any insulation or false bottom, fastenings and protection shall be provided to prevent abrasion or damage due to vibration. At a point where the piping passes through structural members or floors, a rubber grommet or bulkhead fitting shall be installed to prevent chafing. Aluminum fittings are prohibited.

(c) Fuel line piping shall be installed to enter the vehicle through the floor directly beneath, or adjacent to, the container. If a branch line is required, the "tee" connection shall be in the main fuel line under the floor and outside the vehicle.

(d) When two containers are installed and connected by a common fuel line (liquid or vapor), a single seated back pressure check valve shall be installed in each fuel line ahead of the "tee" fitting, or a cross fitting which incorporates a hydrostatic relief valve and two backflow check valves may be used.

(e) Exposed parts of the piping system shall be of either corrosion resistant material or adequately protected against exterior corrosion.

(f) At the completion of the installation, piping systems, including hoses, shall be tested and proved free of leaks at not less than normal operating pressure.

(g) There shall be no fuel connection between a tractor and trailer or other vehicle units while such units are in motion.

(h) A hydrostatic relief valve shall be installed away from the container in each section of piping (including hose) in which liquid LP-gas can be isolated between shut-off valves so as to relieve to a safe atmosphere (away from other pressure parts of the system) the pressure which could develop from the trapped liquid. Hydrostatic relief valves shall have a pressure setting of not less than 400 p.s.i.g. nor more than 500 p.s.i.g.

§9.187. School Bus and Mass Transit Installations. (Amended 11-90)

(a) The application. This section applies to LP-gas systems supplying LP-gas to propel school bus and mass transit vehicles. Prior to the initial installation of or conversion to a LP-gas system on any vehicle to be used as a school bus by either public or private educational institutions or mass transit vehicles, an applicant (the ultimate consumer or licensee, as the case may be) making the initial installation or conversion shall submit a LPG Form 503, Application to Install a LPG System on School Bus/Mass Transit Vehicles, and other information deemed necessary by the LP-Gas Division for review.

(b) The application process. After completion of the division's review of the application within the time described in paragraph (7) of this subsection, the application will be returned to the applicant, indicating the submission complies with the LP-gas rules or indicating that corrections are required, and such corrections shall be noted specifically on the returned application.

(1) Rejected applications. An applicant may make the corrections required on a rejected application and may resubmit the application for review by the division in accordance with the process described in this section.

(2) Accepted applications. Subject to the provisions of paragraph (3) of this subsection, once the application is returned to the applicant with an indication that the application complies with the LP-gas safety rules, LP-gas converted vehicle(s) may be placed immediately into LP-gas service upon competion of the LP-gas system.

(3) Inspections. At any time, including any time prior to the LP-gas system being placed into service, the commission or division director may require an inspection of any LP-gas converted vehicle system. No LP-gas system shall be placed into LP-gas service that does not comply with the rules promulgated by the Railroad Commission of Texas in effect at the time of installation.

(4) Notice of completion. The applicant shall notify the division in writing when any school bus or mass transit installation is completed.

(5) Material variances. If division director determines the completed intallation or conversion varies materially from the application originally accepted, resubmission of the specifications is required. The division's review of such resubmitted application will follow the described procedure(s) in this section.

(6) Subsequent applications. Any subsequent installation of or conversion to a LP-gas system by the same applicant for the same user will not require resubmission of an application, provided the conversions are made in accordacne with the application originally accepted. However, a LPG Form 504, Notice of Subsequent Conversion by the Same Ultimate Consumer or Applicant, must be filed with and approved by the LP-Gas Division prior to the completion of any subsequent installation or conversion is completed and ready for inspection.

(7) Time for review of applications. The division will review all applications within 45 calendar days of receipt of the application. The division must mail written notification to the applicant of whether the application is accepted, rejected, or still under review within the 45 calendar day period. An application is not accepted (i.e. in compliance) until the applicant has received written notification of the acceptance.

(c) Each container shall be fitted with an approved automatic means to prevent filling in excess of the maximum permitted filling density. The motor fuel container shall be installed on the underside of the vehicle on the streetside. Installation of the container on top or at the rear of the bus is prohibited.

(d) LP-gas containers used on school buses shall not exceed 115 gallons aggregate water capacity.

(e) The container shall be secured to the school bus frame (not to the floor of the bus) by fastenings designed with a safety factor of four, to withstand loadings in any direction equal to four times the filled weight of the container. The container shall have a minimum of two padded mounting frame brackets, continuously welded to the container at the time of manufacture, supporting the container through an arc of 120°. Container brackets shall be secured in place using lock washers and double nutted 1/2 inch grade eight tensile strength bolts.

(f) Containers shall be installed with as much clearance as practical, but never less than the minimum normal road clearance of the vehicle under maximum load conditions. Minimum clearance shall be to the bottom of the container or to the lowest fitting on the container or housing, whichever is lower. All container valves and fittings shall be protected by means of a heavy gauge metal guard having a minimum thickness of seven gauge steel.

(g) An 8 inch by 14 inch minimum size plumbing chamber door shall be provided in the street sidewall of the bus to allow easy access for filling or securing the service valve in the event of an emergency. The plumbing chamber door shall be hinged and latched, but not locked.

(h) All safety relief valves shall be vented through the street sidewall of the bus skirting. The relief valve discharge vent line shall be metallic pipe or tubing (other than aluminum) and shall be sized, located, and secured, so as not to restrict full discharge.

(i) The relief valve discharge vent lines shall run vertically upward and shall be secured against the outside skirting, continuing upward between windows, terminating at the rolling eaves of the bus roof. A spring-loaded dust or rain cap must be provided which will not divert the discharge of LP-gas onto the container or vehicle. A flexible high pressure LP-gas hose connection shall connect the relief valve

threaded collar to the discharge vent line by means of threaded fittings or manufactured hose fittings designed specifically for this purpose. The relief valve discharge vent line and the flexible high pressure LP-gas hose shall withstand the pressure from the relief discharge when the relief valve is in the full open position.

§9.188. Use of Extra Liquid Outlet on Motor Fuel Containers.

A.S.M.E. motor fuel containers fitted by the manufacturer with extra liquid outlets may be used for filling other motor fuel containers, provided the container and its appurtenances are installed and protected as follows:

(1) Motor fuel containers used in this service shall be installed and limited to trucks of up to one ton capacity with open cargo space.

(2) The cargo space shall not be enclosed at anytime in a manner that would prevent a complete exposure of the container.

(3) The container's extra liquid outlet shall be fitted with an approved manual shut-off valve and an internal excess flow valve (or an approved manual shut-off valve incorporating an internal excess flow valve) designed to close automatically at the rated flow of vapor or liquid specified by the manufacturer.

(4) The manual shut-off valve shall incorporate a hydrostatic relief valve set at 400 to 500 p.s.i.g.

(5) Rigid piping is prohibited.

(6) The extra liquid opening in the container shall be located in the upper shell of the container. Any appurtenances attached to this opening shall be adequately protected against mechanical injury or dislocation. This may be accomplished by adding to the existing fitting guard or by constructing a new fitting guard with a minimum thickness of seven gauge steel. (Note: Welding shall not be permitted on the container or pressure parts except by a licensed fabricator.)

(7) The liquid hose must be of an approved type as set out in §9.54 of this title (relating to Hose Specifications) and shall not exceed 20 feet in length and 3/4 inch in diameter.

(8) All transfer of product must be done by pressure differential only.

(9) The hose end must be equipped with an approved shut-off valve. When not in use, the hose end and shut-off valve shall be kept locked in a ventilated metal box to prevent tampering by unauthorized persons. The metal box shall be attached to the vehicle to prevent accidental displacement. Bottle filling from motor or mobile fuel containers is prohibited.

§9.189. Auxiliary Engines-General Provisions for Vehicle Mounting.

(a) This section includes provisions for the installation of equipment and mobile fuel containers on vehicles to supply LP-gas as a fuel to auxiliary engines and for other uses on these vehicles.

(b) Mobile fuel containers shall not exceed 500 gallons individual water capacity, 1,000 gallons aggregate capacity. All mobile fuel containers having 130 gallons water capacity or more shall be baffled and shall have steel pads continuously welded to the container and shall be supported through an arc of 120° in such a manner as to prevent the concentration of excessive stresses in the shell plate of the container.

(c) Mobile fuel containers in excess of 250 gallons water capacity to be installed on truck beds to supply fuel to auxiliary engines or equipment (other than to propel vehicles) shall require the submission of plans and specifications to the Railroad Commission for prior approval. Plans and specifications shall be complete in all detail to indicate purpose and location of container mounting, as well as the complete layout of piping system, noting piping, valves, fitting material, brand name, and model number.

(d) Gas vaporizers, regulators, and carburetion equipment to provide LP-gas as a fuel for auxiliary engines shall be installed in accordance with Division V of the LP-Gas Safety Rules.

(e) The source of air for combustion shall be completely isolated from the driver and passenger compartments, ventilation system, or the air condition system.

§9.190. Filling of Motor Fuel and Mobile Fuel Containers. (Amended 11-90)

(a) Filling of containers shall be done in a safe manner as provided in §9.47 of this title (relating to Filling Density), §9.64 of this title (relating to Uniform Safety Requirements), and §9.49 of this title (relating to Venting Gas or Liquid Prohibited).

(b) Any vehicle used in public transportation service or any recreational vehicle shall not be refueled while occupied. Any vehicle containing appliances shall have all pilot lights extinguished prior to refueling. Signs shall be prominently displayed, **with letters not less than 1/2 inch in height,** stating:

(1) Turn off engine.

(2) Extinguish all pilot lights and open flames.

(3) Vehicles must be vacated during the filling process.

(c) The use of a vapor return coupling to vent LP-gas to the atmoshpere is prohibited. This, however, does not prohibit the use of a vapor return hose to equalize pressure when properly connected between the supply container and the container to be filled.

§9.191. Identification Labels.

LP-gas may not be introduced into any vehicle powered by LP-gas designed for regular use on public roadways unless such vehicle is properly identified pursuant to this section. Such vehicles shall be identified by a weather-resistant diamond-shaped label located on an exterior vertical or near-vertical surface on the lower right rear of the vehicle inboard from any other markings. When LP-gas mobile fuel containers are located in compartments or cabinets which act to obstruct view of said containers, such a label shall be placed on the access door of the compartments or cabinets. The label shall be approximately 4 3/4 inches (120 millimeters) long by 3 1/4 inches (83 millimeters) high. The markings shall consist of a border and letters "PROPANE" (letters one inch minimum height centered in the diamond) of silver or white reflective luminous material on a black background as follows:

NOTE: This section shall not be applicable to any LP-gas transport.

Subchapter H. Division VI

§9.201. Indirect Heating Vaporizers.

(a) In domestic installations no liquid gas shall be led into buildings. All pressure reducing devices shall be installed outside of buildings except in the case of a vaporizer house.

(b) The vaporizer shall be located outside of buildings, except those buildings devoted exclusively to gas manufacturing and distribution operations but may be located in a house or shed of fire resistive construction, well ventilated from points near the floor and roof.

(c) Vaporizers having a liquid capacity of one quart or less designed primarily for the purpose of domestic service employing artificial heat for vaporization and with vaporizer chamber integral may be installed in separate house or building used exclusively for this purpose or may be installed under a canopy type of protection. Units of this nature shall be so located that they will not be subject to tampering or mechanical injury.

(d) The device that supplies the necessary artificial heat for producing the steam, hot water, or other heating medium shall be located in a separate compartment or room, which shall be separated from compartments or rooms containing liquefied petroleum gas vaporizers, pumps, or central gas mixing devices, by the substantially vapor-tight fire wall.

(e) If such house or shed is a lean-to or a building addition it shall be separated there from by a substantially vapor-tight fire wall.

(f) No gas in the liquid phase shall be piped into any building for fuel purposes other than those which are devoted exclusively to gas manufacturing or distribution operations of those used principally to house internal combustion engines.

(g) Gas from the vaporizer or storage tank, if it is taken direct from the storage container in the gaseous phase, shall pass through a suitable regulator before entering the meter or the mixing device.

(h) In the case of vaporizers employing artificial heat, at or near discharge of vaporizer, a relief valve shall be provided having an effective discharge complying with §9.203(d) of this title (relating to Direct Gas-Fired Vaporizers).

(i) Each vaporizer utilizing artificial heat shall be permanently marked as follows:

(1) With a marking signifying compliance with the rules of the Code covering specifications to which vaporizer is constructed.

(2) With the working pressure in pounds per square inch gauge for which it is designed.

(3) Outside and inside heat exchange surface area.

(4) The name and address of the manufacturer, and manufacturer's serial number.

(j) Artificially heated vaporizers shall be provided with suitable automatic means to prevent liquid passing from the vaporizer to the gas discharge piping.

§9.202. Atmospheric Vaporizers.

Atmospheric vaporizers employing heat from the ground or surrounding air shall be installed as follows:

(1) Such vaporizers shall be buried underground or installed inside of building provided that in case where vaporizer is installed inside of building the vaporizer capacity shall not exceed one quart.

(2) Vaporizers of less than one quart capacity heated by the ground or surrounding air need not be equipped with safety relief valve provided such equipment is approved by the Railroad Commission.

(3) All vaporizers shall be protected against tampering or mechanical injury.

(4) No gas in liquid phase shall be piped into any building for fuel purposes, except buildings devoted exclusively to gas manufacturing and distribution operations or buildings housing internal combustion engines.

§9.203. Direct Gas-Fired Vaporizers.

(a) Direct gas-fired vaporizers shall be constructed in accordance with the requirements of the ASME Code applicable to the design of the particular vaporizer.

(b) Vaporizers may be directly connected to the liquid portion or the vapor portion of the storage container, or both.

(c) Vaporizers shall be located outside of buildings except those buildings devoted exclusively to gas manufacturing and distribution operations, but may be located in a separate house or shed of fire-resistant construction, well ventilated at points near floor and roof.

(d) Vaporizers shall have a relief valve providing an effective rate of discharge in accordance with the following formula:

(1) obtain the total surface area by adding the surface area of the vaporizer shell in square feet directly in contact with LP-gas and the heat exchange surface in square feet directly in contact with LP-gas;

(2) obtain the minimum required ratio of discharge in cubic feet of air per minute, at 60 degrees Fahrenheit and (at atmospheric pressure 14.7 psia) from §9.921 of this title (relating to Appendix A).

(e) Vaporizers shall be provided with an effective means of preventing liquid from passing from the vaporizer into the discharge gas piping.

(f) Vaporizers shall be provided with a means of manually turning off the gas to the main burner and pilot light.

(g) Vaporizers shall be equipped with automatic safety devices to shut off the flow of gas to the main burners if the pilot light should fail. Where the flow of gas through the pilot exceeds 2,000 B.T.U. per hour the pilot shall also be equipped with an automatic shut-off device.

(h) Pressure-regulating and pressure-reducing equipment, if located within 10 feet of a direct gas-fired vaporizer, shall be separated from the open flame by a substantially airtight fire-resisting partition or partitions.

(i) Direct gas-fired vaporizers shall be spaced from any building, and adjacent property line, roadway, highway, and railroad right-of-way as indicated in figure 1.

Aggregate Water Capacity of Storage	Minimum Distance
0 - 500 gallons	10 feet
501 - 2000 gallons	15 feet
2001 - 4000 gallons	25 feet
4001 gallons and over	50 feet

FIGURE 1

(j) No direct gas-fired vaporizer shall raise the vapor pressure within the storage container to a pressure in excess of the design working pressure of the container.

§9.204. Direct Gas-Fired Tank Heaters.

(a) Direct gas-fired tank heaters and tanks to which they are attached shall be installed only aboveground.

(b) Tank heaters shall be permanently marked with the name and address of the manufacturer.

(c) Tank heaters may be an integral part of a fuel storage container or a separate piece of equipment attached to the storage container by any means approved by the Railroad Commission.

(d) Tank heaters shall be provided with a means for manually turning off the gas to the main burner and pilot.

(e) Tank heaters shall be equipped with automatic safety devices to shut off the flow of gas to the main burners should the pilot fail. Where the flow of gas through the pilot exceeds 2,000 B.T.U. per hour, the pilot shall also be equipped with an automatic shut-off device.

(f) Pressure-regulating and pressure-reducing equipment shall be separated from the open flame by a substantially airtight fire-resisting partition or partitions.

(g) In the case of buildings devoted exclusively to gas manufacturing and distributing operations, the distances prescribed in §9.65 of this title (relating to LP-gas Storage Distance Requirements) may be reduced, provided that in no case shall containers exceeding 500 gallons water capacity be located closer than 10 feet to such gas manufacturing and distributing buildings.

(h) No direct-fired tank heater shall raise the vapor pressure of the product within the storage container to a pressure exceeding the working pressure of the container.

§9.210. Low Pressure-High Pressure Piping.

(a) Sections 9.211-9.222 of this subchapter pertain to low pressure gas piping.

(b) Low pressure gas piping covers materials and installation methods for piping with pressures to 50 psig or less.

(c) Section 9.223 and §9.224 of this subchapter pertain to high pressure gas piping.

(d) High pressure gas piping covers gas piping for conveying liquid LP-gas or vapor with pressures in excess of 50 psig.

§9.211. Piping Installation Identification Tag.

(a) LP-gas piping shall be installed, altered, or repaired and tested only by those persons, firms, corporations, or associations that have been licensed in accordance with the provisions of Texas Natural Resources Code Chapter 113.

(b) Upon completion of the installation, alteration, or repair and testing of an LP-gas piping system, the licensee shall attach to the end of the piping nearest the container a metal tag bearing the firm name of the licensee, his current license number, and the year the piping is installed, altered, or repaired.

§9.212. Specifications for Approved Piping Materials.

(a) All pipe, tubing, and fittings shall have a minimum design working pressure of 125 psi and shall be made of one or more of the following materials:

(1) Wrought iron or steel.

(2) Seamless copper or brass tubing or pipe.

(b) All valves and valve seats shall be approved for use with LP-gas.

(c) All unions shall be of the ground joint type.

(d) Valves designed for use with a slip-on hose connection are prohibited.

§9.213. Corrosion Protection.

All metallic piping installed underground, except copper, shall be protected against corrosion by the application of a commercially available, nonmetallic, corrosion-resistant material specifically designed for this purpose. Exceptions can be granted to this requirement when adequate proof is submitted to the LPG Division that the soil is noncorrosive.

§9.214. Piping Layout.

(a) When piping is installed in attics or under floor areas, minimum ventilation shall be provided as follows: a minimum opening of 75 square inches free area on each of two sides shall be provided at the lowest possible point when the area of the building is 1,500 square feet or less. For each additional 1,000 square feet of area, or fraction thereof, an additional 48 square inches free area shall be provided at the lowest possible point on each of two sides. When ventilating under floor areas, one of the above openings shall be at ground level at the lowest point of grade. Caution: If the design and free area of grilles and louvers are not known, it may be assumed that wood louvers have 25% free area and metal louvers have 65% free area.

(b) Piping shall not be installed in any basement or semibasement.

(c) Gas pipe or tubing may be installed in walls or partitions using the minimum number of connections. Bushings, ground joint unions, or swing joints shall not be used within a wall. When a recessed wall furnace is installed, the test specified in §9.222 of this title (relating to Pressure Test of Piping)

shall be used. Tubing installed inside walls or partitions, rather than through them, shall be protected against physical damage by means of a substantial covering, such as pipe. Pipe or tubing shall not be installed in the same stud space with electrical junction boxes or switches.

(d) Piping shall not be installed under a concrete floor slab, but may be installed in the upper half or above the slab.

(e) Swing joints, expansion coils, or loops, shall be used in piping systems in each instance where underground piping is brought aboveground and connected to building piping, or where undue stress of joints in rigid piping cannot be avoided. Swing joints shall not be used in piping inside buildings.

(f) Piping shall not be installed in areas subject to damage unless adequately protected.

§9.215. Joining Methods.

(a) Wrought iron or steel pipe may be joined by threading, welding, or flanging.

(b) Fittings for copper or brass tubing shall be the flare type.

(c) Copper pipe may be joined with sweat joints using silver solder having a melting temperature of at least 1,000° F.

§9.216. Drainage and Drips.

(a) Drainage. All exposed piping exceeding 12 inches in length, including attic piping, shall be graded at least 1/4 inch to 10 feet so that any possible condensate will drain to underground piping.

(b) Drips. When drainage cannot be provided, a buried drip shall be installed at the lowest point of each trapped portion. Also, a buried drip shall be installed when a meter, regulator, or any other device is installed in exposed piping, when such device would prevent condensate from draining back to underground piping. A buried drip shall be of at least the same pipe size as the running line and shall extend to a minimum depth of 24 inches underground.

§9.217. Piping Support.

(a) All horizontal runs of aboveground piping shall be supported by means of pipe hangers in accordance with the following table:

Size of pipe	Spacing of hangers
½ inch and less	6 feet
¾ to 1 inch	8 feet
1¼ inch and larger	10 feet

(b) Other pipe shall be supported in such manner as to ensure that strain shall not be placed on the fittings.

§9.218. Exterior Piping.

(a) Exterior piping installed underground shall be buried at least 18 inches, unless protected against mechanical injury by means of curbs, slabs, substantial posts, or other suitable means.

(b) Exterior piping installed aboveground shall be protected against mechanical injury by means of curbs or substantial guard rails. Where risers are within 4 inches of building walls, protection for the risers shall not be deemed necessary.

§9.219. Joint Compound.

Joint compound for use with LP-gas piping shall be of an approved type resistant to the action of LP-gases. Joint compound, where used, shall be used only on the male thread.

§9.220. Bending Pipe.

Gas pipe turns. Changes in direction of gas pipe may be made by use of fittings or by bends made under the following limitations:

(1) Bends shall be made only with approved bending equipment and procedures especially intended for that purpose.

(2) All bends shall be smooth and free from buckling, cracks, and other effects of mechanical damage.

(3) Bends shall be permitted only in seamless steel pipe.

(4) Pipe shall not be bent through an arc of more than 90 degrees.

(5) The inside radius of a bend shall be not less than six times the outside diameter of the pipe.

(6) Lap or butt welded wrought iron or steel pipe shall not be bent. Where a change in direction of such pipe is necessary, proper fittings shall be used.

§9.221. Cap Outlets.

(a) All gas outlets shall be capped with a threaded metal plug or cap immediately upon installation and shall be left capped until the gas cock is installed.

(b) After a gas cock is installed, it must either be connected to an appliance or capped with a threaded cap.

§9.222. Pressure Test of Piping.

(a) After the piping installation is completed, but before the gas cocks are installed, the piping shall be tested only with LP-gas or air at a pressure of 15 pounds per square inch. There shall be no loss of pressure on the gauge or manometer for a period of 30 minutes. The source of pressure shall be disconnected before pressure tests are made.

(b) After the gas cocks are installed, the complete installation shall again be tested only with LP gas or air at a pressure of five pounds per square inch. There shall be no loss of pressure shown on the gauge or manometer for a period of 15 minutes. The source of pressure shall be disconnected before pressure tests are made.

(c) Whenever appliances are installed at the same time as piping installation, a final pressure test shall be made in accordance with the following: The system (including appliance valves) shall stand a pressure of not less than 10 inches or more than 14 inches water column (8 ounces per square inch) for a period of not less than 15 minutes without showing any drop in pressure. Such pressure tests shall be measured with an instrument capable of measuring within the above specified pressure range.

(d) Care must be taken in making these tests to insure that the temperature of the piping installation is not rising in order that the resultant rise in pressure will not mask small leaks.

§9.223. Specifications for Approved Piping Materials.

(a) Pipe shall be ASTM Steel Schedule 80, or better.

(b) Copper or brass tubing shall be type "K" or "L" with a minimum wall thickness of .032 inches.

(c) All pipe fittings shall be forged steel, stamped 2,000 psi or greater.

(d) Approved POL and pigtail assemblies.

§9.224. Joining of High Pressure Piping.

All high pressure piping shall be joined by welding, threading, flaring, or flanging, and all such piping shall be gas tight.

Subchapter J. DIVISION VIII

§9.231. Approved Appliances.

(a) All LP-gas appliances shall be approved by the Railroad Commission of Texas or certified by a nationally recognized testing laboratory, such as American Gas Association, Inc., or Underwriters' Laboratories, Inc. If such gas appliances are not certified for use with LP-gas, they may be converted to use LP-gas as a fuel by a licensee, provided that the licensee tests such appliances for proper operation before placing them in service.

(b) Upon completion of the conversion and testing of LP-gas appliances, the licensee shall attach to each such appliance a metal tag bearing the words: "converted to LP-gas", the licensee's name and LP-gas license number, and the year the appliance is converted.

§9.232. Installation of Appliances.

Appliances shall be installed according to their listings and manufacturer's instructions.

§9.233. Automatic Shut-off Devices.

Automatic shut-off devices of the complete shutoff-type (100% safety shut-off) shall be installed on automatically controlled appliances except domestic ranges and commercial cooking equipment having pilot input ratings of 500 B.T.U. per hour or less.

§9.234. Room Heaters in Public Building.

Room heaters installed in transient sleeping quarters, schools, homes for the aged, sanatoriums, convalescent homes, orphanages, and other institutions of this type shall be vented, and equipped with a 100% safety shut-off device.

§9.235. Provision for Combustion Air.

Gas appliances installed in rooms where ventilation is insufficient to allow adequate air for complete combustion, under conditions of maximum demand, shall be provided sufficient air by the installation of a louver or other means to provide one square inch of free area per 1,000 B.T.U. of appliance rating.

§9.236. Open Flame Appliances.

Open flame appliances shall be installed in a manner to avoid a hazard to surrounding combustible materials.

§9.237. Testing Appliances.

Before placing any appliance in service, it shall be tested for leaks and normal operation.

§9.238. Appliances Made for Venting.

All appliances made for venting shall be vented to the outside atmosphere.

§9.239. Appliance Connectors.

(a) Maximum length of appliance connectors shall be six feet. If an appliance is to be installed more than six feet from existing piping, additional piping shall be installed in accordance with Division VII.

(b) A flexible or semiflexible connector shall consist of approved copper tubing, type "K" or "L", corrugated copper or brass connectors, flexible LP-gas hose of 125 psi working pressure, or greater, equipped with approved end fittings.

(c) All appliances of 200,000 B.T.U. input or less shall be connected to supply piping with an approved flexible or semiflexible connector.

(d) All appliance connectors shall be attached by means of a threaded fitting or a listed quick disconnect device. Slip-on type connectors are prohibited.

(e) Any appliance connected to a piping system shall have an accessible manual shut-off valve installed upstream of the union or connector and within six feet of the appliance it serves. Appliance connectors may be connected to the building piping by means of a listed quick disconnect device, and when installed indoors, a manual shut-off valve shall be installed immediately upstream of the quick disconnect device.

§9.240. Water Heaters.

A temperature and pressure relief valve shall be installed on all water heaters.

§9.241. Appliance Repairs and Conversions.

All appliance installations, alterations, repairs, and conversions shall be made in a workmanlike manner.

§9.242. Venting of Appliances Definitions. (Amended 11-90)

(a) *Venting system.* A continuous open passageway from the flue collar or draft hood of a fuel burning appliance to the outside atmosphere for the purpose of removing products of combustion.

(b) Types of approved venting materials.

(1) Type "B" is an UL listed vent pipe, marked as Type B, generally of double wall construction, round or oval, with an aluminum liner.

(2) Type "BW" is an UL listed vent pipe, marked as Type BW, of oval double wall construction with an aluminum liner, used with fire stops and other listed components for venting gas appliances in walls. (See Figure 1, of this section.)

(3) Type "L" is an UL listed vent pipe, marked as Type L, of round, double wall construction with an inner lining of stainless steel.

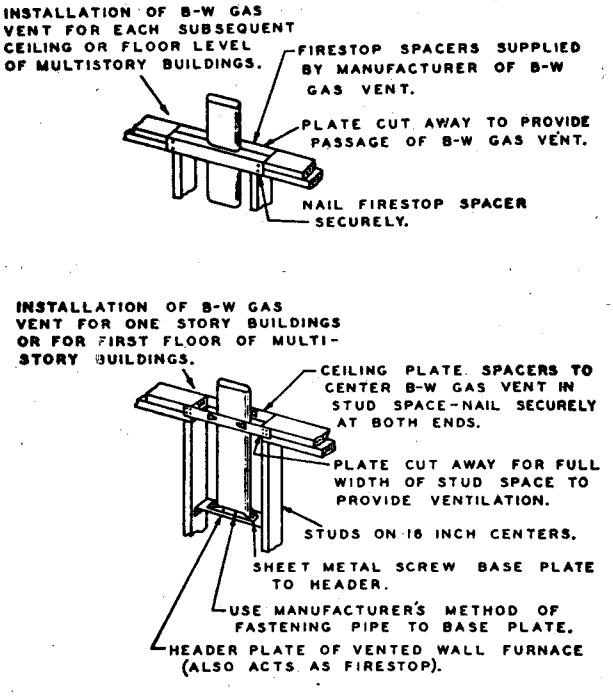


Figure 1. Installation of Type B-W Gas vents for Vented Wall Furnaces.

(c) Types of chimneys.

(1) Factory-built chimneys are composed of UL listed components, marked "factory-built," of round, multiwall construction.

(2) Masonry chimneys are composed of solid brick, stone, or concrete with a suitable liner.

(3) Metal chimneys shall be made of 10 gauge or heavier metal or of UL listed components.

§9.243. Minimum Safe Performance.

(a) Venting systems shall be designed and constructed so as to develop a positive flow adequate to remove flue gases to the outside atmosphere.

(b) A venting system shall be deemed to meet minimum safe performance standards when, after the appliance or appliances have been placed in operation, air can be shown to be flowing into the draft hoods around their entire perimeter.

§9.244. Appliances To Be Vented and Approved Venting Systems.

(a) All gas appliances capable of using solid and liquid fuels, such as incinerators, or any appliance producing vent gases in excess of 550° F. (measured at the outlet of the draft hood), shall be vented through factory-built, masonry, or metal chimneys or Type L venting systems.

(b) Clothes dryers shall be exhausted to the outside atmosphere. This may be done with single wall or flexible duct or venting systems. Gas appliance vents shall not be connected to exhaust ducts from clothes dryers.

(c) All other appliances, with draft hoods, listed as vented appliances, shall be vented with listed Type B, BW, or Type L venting systems or chimneys.

§9.245. Maximum Unvented B.T.U. Input.

The total unvented B.T.U. input into any enclosed space shall not exceed 30 B.T.U. per hour per cubic foot of enclosed volume.

§9.246. Installation. (Amended 11-90)

(a) Type B, BW, and Type L venting systems shall be installed in accordance with the terms of their respective listings and the manufacturer's instructions.

(b) Venting systems shall not extend into, nor pass through, any circulating air duct or plenum.

(c) Venting systems shall be sized in accordance with approved engineering methods or, as an alternate method for sizing an individual vent for a single appliance only, the effective area of the venting system shall be not less than the area of the appliance draft hood outlet. As an alternate method for sizing a venting system connected to more than one appliance, the effective area of the vent shall be not less than the area of the largest draft hood outlet plus 50% of the areas of additional draft hood outlets.

(d) The vent pipe of a venting system shall extend continuously through the roof flashing and shall terminate with an UL listed cap.

(e) All portions of venting systems shall be adequately supported.

(f) Venting systems shall extend not less than five feet in vertical height above the highest connected appliance draft hood. Wall furnace venting systems shall extend a minimum of 12 feet above the bottom of the furnace.

(g) Sealed combustion appliances having integral (built-in) venting systems shall be installed in accordance with their listings and the manufacturer's instructions.

(h) A vent connector shall not be connected to a fireplace chimney unless the fireplace opening is

permanently sealed. Before connecting a venting system to any chimney, the chimney shall be inspected and found free of obstructions.

(i) Type B, BW, and Type L venting systems shall terminate in a listed cap, marked "UL." **Refer to Figure 2 in §9.247 of this title (relating to Power Venting) to** determine the minimum height a venting system shall extend above a roof surface.

§9.247. Power Venting.

(a) Gas appliances, except incinerators, requiring venting may be vented by means of mechanical draft systems of either forced or induced systems.

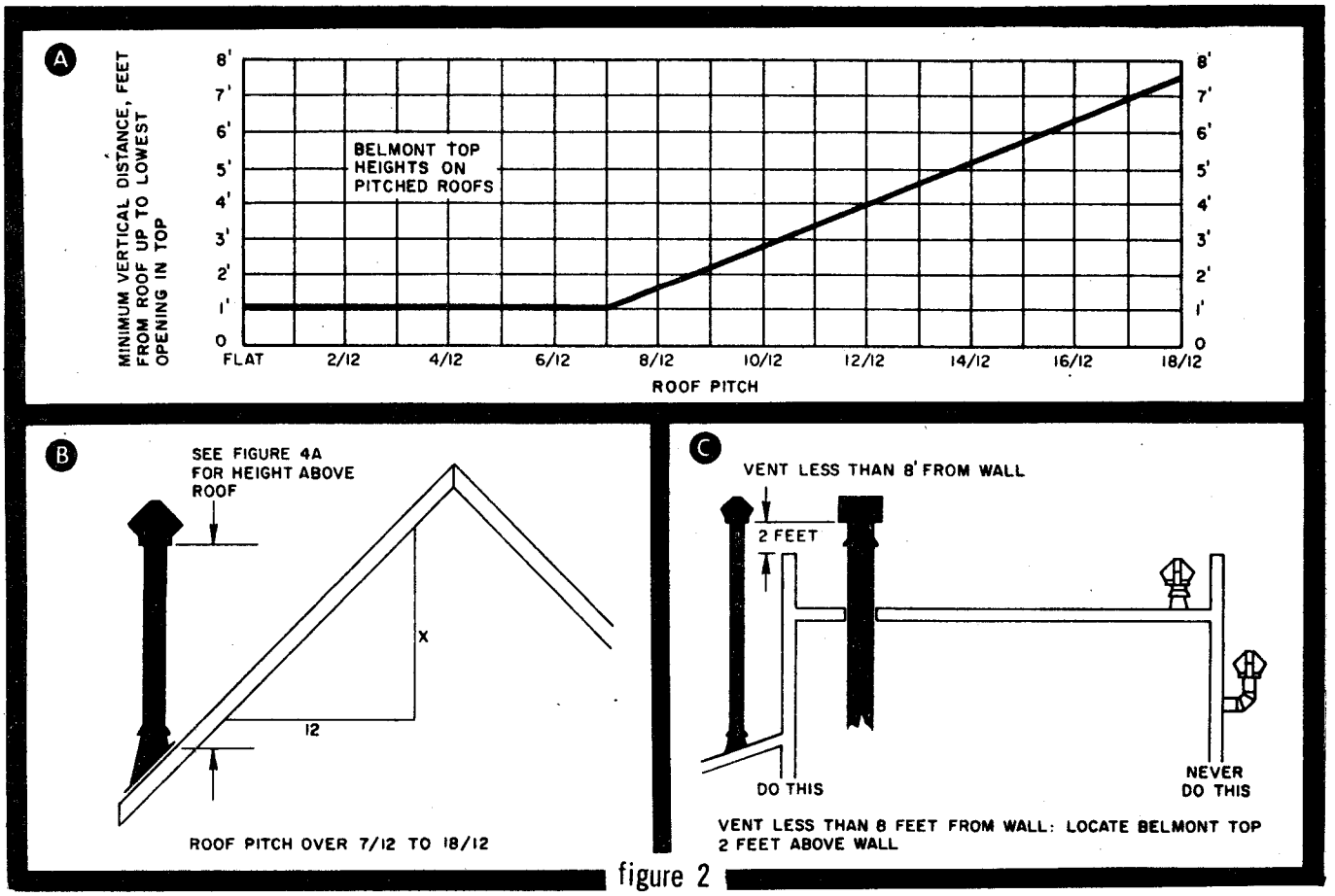


figure 2

(b) All portions of such systems under positive pressure shall be designed, constructed, and installed to prevent leakage of combustion products into a building.

(c) Vents from other gas appliances shall not be connected into vents under positive pressure.

(d) Gas appliances employing mechanical draft systems shall be provided with means to prevent the flow of gas to the main burner(s) when the mechanical draft system fails to provide proper draft.

(e) The exit terminals of mechanical draft systems shall be located not less than 12 inches from any opening through which combustion products could enter the building, nor less than two feet from an adjacent building, and not less than seven feet above grade when located adjacent to public walkways.

Subchapter K. Division IX

§9.261. [RESERVED].

§9.262. Fuel Storage Container Valves and Accessories.

(a) The filling pipe inlet terminal shall not be located inside a building and such terminal shall be located not less than ten feet from any building, and shall have adequate protection against collision by substantial guard rails or concrete.

(b) The filling connection shall be fitted with one of the following:

(1) Combination back-pressure check valve and excess flow valve.

(2) One double or two single back-pressure check valves.

(3) A positive shut-off valve, in conjunction with either:

(A) an internal back pressure valve; or

(B) an internal excess flow valve.

(c) When the length of pipe from the container to the filling pipe inlet terminal is in excess of 15 feet, or the container is not directly accessible from the filling pipe inlet terminal, the filling pipe inlet terminal shall be fitted with a positive shut-off valve in conjuction with either:

(1) a back-pressure check valve, or

(2) an excess flow check valve.

(d) All inlet and outlet connections except safety relief valves, liquid level gauging devices, and pressure gauges on storage containers shall be permanently marked "vapor" or "liquid" to designate whether they communicate with vapor or liquid space. Labels shall be on both containers and valves.

(e) Each storage container shall be provided with an approved pressure gauge.

§9.263. [RESERVED].

§9.264. [RESERVED].

§9.265. Installation of LP-Gas Service Station and Cylinder Filling Storage Containers. (Amended 11-90)

(a) Approval and training requirements.

(1) Due diligence shall be exercised by trained personnel in the maintenance of storage locations; and in the operations of equipment during the filling of, and dispensing from, storage containers; and in the protection of containers and equipment against mechanical injury or against tampering by unauthorized persons.

(2) All fuel storage containers shall be mounted on substantial masonry supports or structural steel supports on substantial masonry footings. Fuel storage containers in excess of 1,200 w.g. capacity shall be supported through an arc of 120 ° to prevent the concentration of excessive stresses in the shell plate of the container. Containers may mounted horizontally or vertically.

(3) All fuel storage containers shall be painted white or aluminum.

(4) All fuel storage installations shall be lettered in letters not less than four inches high to indicate the name of the licensee operating the installation. Each tank shall be lettered in letters not less than four inches high to indicate the nature of contents. The lettering prescribed in this paragraph shall be placed as to be readily visible to the public. **A final determination as to whether the name of the installation is sufficient to properly identify the name of the installation will be made by the director.**

(b) Underground containers.

(1) As a means of resisting corrosion and prior to being placed underground, the container shall be given a suitable protective coating consisting of a suitable metal priming, followed by a coating of anticorrosive mastic enamel or paint.

(2) Underground containers shall be set on a firm foundation and surrounded with soft earth or sand firmly tamped in place.

(3) Container locations subject to vehicular traffic shall be buried four feet and shall be protected by a concrete slab or other adequate cover to prevent the weight of a loaded vehicle imposing concentrated direct loads on the container shell. Where ground conditions make compliance with this requirement impractible, installation shall be made otherwise to prevent physical damage.

§9.266. Protection of Storage Containers and Fittings.

An exception to the fencing requirements may be granted for completely self-contained and securely housed LP-gas service station or bottle filling units. Such units shall have been specifically approved for this use by the Railroad Commission in accordance with plans and specifications covering the design, fabrication, assembly, and method of mounting. Such units shall be locked when not in use.

§9.267. Transport Truck Unloading Location.

The transport truck during unloading shall be located so as to be clear of public thoroughfare traffic.

§9.268. Piping, Valves, and Fittings.

(a) Piping may be underground, aboveground, or both, and shall be well supported and protected against physical damage and corrosion.

(b) When piping is laid beneath driveways, it shall be run through a protective conduit, such as oversized pipe, to prevent physical damage by vehicles using the driveway.

(c) Piping shall be of Schedule 80 steel. Pipe joints may be screwed, flanged or welded.

(d) All shut-off valves (liquid or vapor) shall be suitable for liquefied petroleum gas service and designed for a rated working pressure of at least 250 psi.

(e) Fittings shall be of forged steel.

(f) All piping and fitting assemblies shall be tested after assembly and proved free from leaks at not less than normal operating pressures.

(g) Joint compound for use with liquefied petroleum gas piping shall be of an approved type resistant to the action of liquefied petroleum gases. Joint compound, where used, shall be used only on the male thread.

§9.269. Pumps and Pump Accessories.

All pumps and pump accessory equipment (liquid or vapor) shall be of a type suitable for liquefied petroleum gas service, and designed for not less than 250 psi. Accessories shall have a minimum rated working pressure of 250 psi. Positive displacement pumps shall be equipped with suitable pressure actuated by-pass valves permitting flow from pump discharge to storage container.

§9.270. Dispensing Devices. (Amended 11-90)

(a) Meters, vapor eliminators, if used, valves, and fittings, in the dispenser shall be of a type suitable for LP-gas service and shall be designed for a minimum working pressure of 250 psi.

(Text of previous (b) deleted; c, d & e became c & d)

(b) A remote control shutoff valve or an excess flow check valve is required at the dispenser inlet.

(c) Dispensing Hose Specifications. (see *§9.54 (a)-(e) of this title (relating to Hose Specifications.)*)

(1) Hose unions shall be of substantial construction and shall be maintained in a safe condition.

(2) Hose used for transferring liquid from one container to another shall be equipped with shutoff valves at the discharge end.

(d) Location.

(1) LP-gas dispensers shall be placed in a separate location, entirely removed from units dispensing other fuels, and shall be locked when not in use.

(2) LP-gas dispensing devices shall be installed on a concrete island or as part of a complete storage and dispensing assembly and shall be adequately protected from physical damage by guardrails or fencing. Guardrails and fencing must be installed in accordance with §9.63 of this title (relating to Uniform Protection Standards).

(3) LP-gas dispensing devices shall not be installed within the confines of a building or any other enclosed area which is conducive to the collection of vapors; nor shall motor vehicles be serviced from LP-gas dispensers within such confined areas.

§9.271. Extinguishers Required.

Each installation shall be provided with at least two hand fire extinguishers, one of a type and size not less than five pounds capacity, and one of 15 or 20 pounds capacity, suitable for extinguishing LP-gas fires. Extinguishers shall be at all times fully charged and shall be kept in good mechanical condition.

§9.272. Cylinder Storage.

(a) LP-gas cylinders that have been in service shall not be stored closer than 10 feet to any building or group of buildings or to any line of adjoining property.

(b) Cylinders in storage shall be protected against tampering by unauthorized persons in accordance with §9.63(a)(1) of this title (relating to Uniform Protection Standards).

§9.273. [RESERVED].

§9.274. [RESERVED].

§9.275. Safety During Fueling Operations.

Conspicuous signs prohibiting smoking shall be posted within sight of the customer being served. Letters on such signs shall be not less than four inches high. The motors of all vehicles being fueled shall be shut off during the fueling operations.

Subchapter L. Division X

§9.281. [RESERVED].

§9.282. Protection of Valves and Accessories.

All valves, relief valves, pumps, and piping which are a part of farm cart tanks used in the transportation of liquefied petroleum gases shall be located or protected, or both, by recessing or by heavy guard rails so as to provide maximum protection against breaking off or dislocation in case of an accident.

§9.283. Labels.

All container inlets and outlets, except safety relief valves, liquid level gauging devices, and pressure gauges, shall be labeled to designate whether they communicate with vapor or liquid space. Labels may be on valves.

§9.284. Piping and Fittings. (Amended 11-90)

(a) All piping, tubing, and fittings shall be securely mounted and shall be amply protected against damage and breakage.

(b) All piping and fittings shall be extra heavy steel. The use of cast iron fittings is prohibited.

(c) Deleted

§9.285. [RESERVED].

§9.286. Filling Containers.

(a) Marketers and users shall not introduce a liquid petroleum gas, or a mixture thereof, into any container when the vapor pressure of such gas at 100° F. exceeds the design working pressure of the container.

(b) Farm carts shall not be refilled on a public road or highway.

§9.287. Mounting and Connecting Pumps.

(a) Pumps of approved design and properly protected may be mounted upon liquefied petroleum gas farm carts if the owner so desires.

(b) Such pumps shall be connected to the tank by means of an approved flexible connection to prevent undue stresses being imposed on the piping.

§9.288. [RESERVED].

§9.289. Mounting Containers.

(a) Farm cart containers shall be mounted in steel cradles supporting the container through an arc of 120 degrees. If welded to the container, such cradles may be installed only by an approved fabricator.

(b) Containers shall be mounted on farm cart frame by suitable hold down bolts or other approved means and shall be provided with stubs to prevent shifting on such frames. U-bolts or J-bolts are not approved.

§9.290. Liquid Level Gauging Devices.

Each farm cart container shall be equipped with a liquid level gauging device of approved design; for example, a rotary gauge, slip tube, or a fixed tube device. A fixed tube device consists of a dip pipe of small size, equipped with a valve at the outer end. Fixed tube devices shall be so arranged that the maximum liquid level to which a container may be filled is not in excess of the maximum permitted under the filling

density table in §9.47(a) of this title (relating to Filling Density), but based on an initial temperature not to exceed 40 degrees Fahrenheit. Liquid level gauging devices of the rotary tube and slip tube type may be used without installation of an excess flow valve, provided that the bleed valve opening is not larger than a Number 54 drill size. *(Refer to* §9.923 of this title (relating to Appendix C), which is incorporated herein and made a part hereof for any and all purposes for method of calculating length of fixed tube).

§9.291. Baffles.

Farm cart containers in excess of 500 water gallon capacity shall be equipped with suitable baffles.

§9.292. Liquefied Petroleum Vehicle Identification.

Vehicle Identification, LPG Form 4, and authority created thereby to transport liquefied petroleum gas, is not applicable to liquefied petroleum gas farm carts.

§9.293. Transportation of LP-Gas Tractor Fuel.

(a) LP-gas tractor motor fuel shall be transported from the source of supply to the place of consumption only, by LP-gas licensees or their authorized representatives.

(b) Means of tractor fuel transportation shall be by containers and equipment approved by the Railroad Commission.

§9.294. Painting.

All farm cart containers shall be finished with a heat-reflecting surface, either white or aluminum, and shall be maintained in good condition.

Subchapter M. DIVISION XI

§9.301. Fuel Storage Containers. (Amended 11-90)

(a) Approval and training requirements. Due diligence shall be exercised by trained personnel in the maintenance of storage locations, and in the operation of equipment during the filling of and dispensing from storage containers; and in the protection of containers and equipment against mechanical injury or against tampering by unauthorized persons.

(b) Installation of fuel storage containers.

(1) All fuel storage containers shall be mounted on substantial masonry supports or structural steel supports on substantial masonry footings. Fuel storage containers in excess of 1,200 w.g. capacity shall be supported through an arc of 120 ° to prevent the concentration of excessive stresses in the shell plate of the container.

(2) All fuel storage containers shall be painted white or aluminum.

§9.302. Protection of Fuel Storage Containers and Fittings.

Completely self-contained and securely housed LP-gas fuel storage units which have been approved for use by the Railroad Commission of Texas, and are locked when not in operation, may be excepted from such fencing requirements.

§9.303. Cylinder Storage. (Amended 11-90)

(a) Storage indoors. The quantity of LP-gas stored within buildings shall be limited to the actual cylinders in use on an operating industrial truck.

(b) Storage outdoors. Cylinders in storage shall be protected against tampering by unauthorized persons in accordance with §9.63(a)(1) of this title (relating to Uniform Protection Standards). Completely self-contained, securely housed, and well ventilated cylinder storage racks which have been approved for use by the Railroad Commission of Texas, and which are locked when not in operation, may be exempt from such fencing requirements. **Cylinders which have been in service shall not be stored closer than 10 feet to any combustible building or group of buildings or to any line of adjoining property. Except,** cylinders may be located against a noncombustible building with the following provisions:

(1) that they be stored in a protected, ventilated area, so as to be inaccessible to unauthorized persons;

(2) such protected, ventilated areas shall be so located as to comply with regulations of the Railroad Commission in conjunction with the local authority having jurisdiction.

(c) General rules governing cylinders in storage. The outlet valves of cylinders in storage shall be closed.

§9.304. Garaging and Use of Industrial Trucks Inside Buildings.

(a) LP-gas fueled industrial trucks of either liquid or vapor fuel withdrawal systems are permitted to be used in buildings and structures.

(b) The filling of a fork lift motor fuel tank either DOT (ICC) or ASME, inside a building is not permitted.

(c) Exchange of removable fuel containers preferably should be done outdoors, but may be done indoors. When removable fuel containers are used, means shall be provided in the fuel system to minimize the escape of fuel when the containers are exchanged. This may be accomplished by either of the following methods:

(1) Using an approved automatic quick-closing coupling (a type closing in both directions when uncoupled in the fuel line).

(2) Closing the valve in the fuel container and allowing the engine to run until the fuel in the line is consumed.

(d) Not more than two ICC or DOT LP-gas containers shall be used on an industrial truck for motor fuel purposes. The total capacity of each ICC or DOT container on each industrial truck shall not exceed 50 pounds of LP-gas.

(e) If the capacity of an ASME container exceeds 10.5 water gallon capacity, the ASME container shall be permanently mounted and shall be fueled outdoors.

§9.305. Charging of Containers.

(a) Removable ASME, ICC, or DOT containers, fabricated specifically as fuel containers for industrial trucks, shall be filled by either weight or fixed liquid level gauge.

(b) Permanently mounted ASME motor fuel tanks shall be filled by a fixed liquid level gauge.

§9.306. Converting Industrial Trucks.

(a) Industrial trucks originally designed for the use of gasoline for fuel may be converted to liquefied petroleum gas.

(b) All conversions of industrial trucks, installed by licensed LP-gas dealers, shall be done only by duly-qualified personnel having passed the test for carburetion installation of the LP-Gas Division, Railroad Commission of Texas.

(c) All component parts of the LP-gas carburetion system used in such conversions shall be approved by the Railroad Commission.

(d) Upon completion of the LP-gas conversion, the licensee making the installation shall attach in a visible and accessible place on the converted unit, a metal tag bearing the firm name of the licensee making the conversion, his current license number, and year installed.

§9.307. Requirements for Construction, Original Test, and Working Pressure of ICC or DOT Containers.

(a) All ICC or DOT containers for use with LP-gas shall be manufactured, tested, and inspected in accordance with applicable Department of Transportation regulations and specifications having a minimum working pressure of 240 psi.

(b) Containers shall be specifically designed for this use with fitting guards attached permanently to the containers.

(c) Containers shall be designed with special mounting brackets which positively orient the container in the proper position on the vehicle, whereby the relief valve will be in the vapor space of the container.

(d) Relief valves shall be so located that they communicate directly with the vapor space when the container is in operating position and also when the container is in storing or handling position.

(e) Containers shall be located on the truck in a place and in a manner to minimize the possibility of mechanical injury.

(f) Discharge from relief valves shall be directed upward within 45 degrees of vertical and away from truck operator.

(g) All outlets except safety relief, filling and vapor return connections, and liquid level gauging devices shall be equipped with suitable excess flow valves.

§9.308. Requirements for Construction, Test, and Working Pressure of ASME Containers.

(a) ASME containers for use with LP-gas shall be constructed in accordance with Division I, Section VIII, of the edition of the ASME Boiler and Pressure Vessel Code in effect at the time of construction.

(b) The minimum design working pressure of ASME containers used on industrial trucks shall not be less than 250 pounds per square inch gauge.

(c) Containers shall be specifically designed for this use with fitting guards attached securely to the containers.

(d) Containers shall be designed with special mounting brackets which positively orient the container in the proper position on the vehicle, whereby the relief valve will be in the vapor space of the container.

(e) Relief valves shall be so located that they communicate directly with the vapor space when the container is in operating position and also when the container is in storing or handling position.

(f) Containers shall be located on the truck in a place and in a manner to minimize the possibility of mechanical injury.

(g) Discharge from relief valves shall be directed upward within 45 degrees of vertical and away from truck operator.

(h) All outlets except safety relief, filling and vapor return connections, and liquid level gauging devices shall be equipped with suitable excess flow valves.

§9.309. [RESERVED].

Subchapter N. DIVISION XII

§9.321. Limited Use Only.

Automatic dispensers may not be used by the general public, but only by personnel of commercial consumers who use the LP-gas dispensed from automatic dispensers for business purposes. No licensee may install an automatic dispenser for use by the general public.

§9.322. [RESERVED]

§9.323. [RESERVED]

§9.324. [RESERVED]

§9.325. Written Instructions and Procedures Required.

(a) A licensee who installs an automatic dispenser shall provide to the commercial consumer written instructions and safe operating procedures. The consumer should be cautioned to study and preserve such instructions and procedures, and to educate all those with access to the automatic dispenser in the proper operating procedures. The instructions and procedures shall be delivered to the individual responsible for the operation of the automatic dispenser.

(b) Step-by-step operating instructions shall be posted at each automatic dispenser, readily visible to the operator during transfer operations.

§9.326. [RESERVED]

§9.327. Cylinder Filling Prohibited.

Automatic dispensers shall be for dispensing LP-gas motor/mobile fuel only. Filling single-opening DOT containers is prohibited.

§9.328. [RESERVED]

§9.329. Consumer Lists.

Each licensee shall maintain a current list of all commercial consumers, serviced by the licensee, who have access to automatic dispensers.

§9.330. [RESERVED]

§9.331. [RESERVED]

§9.332. [RESERVED]

§9.333. [RESERVED]

§9.334. [RESERVED]

§9.335. Safety Requirements.

Automatic dispenser installations shall comply with the following:

(1) Meters, pumps, switches, hoses, valves, and fittings, as well as the key, card, or code system, shall be enclosed in a structured cabinet, providing ventilation at ground level on three sides, with a locked entrance to prevent tampering.

(2) All valves, metering equipment, vapor eliminators, and other related equipment installed on an automatic dispenser shall meet all applicable requirements of the safety rules.

(3) All dispensing equipment shall be fabricated of material suitable for LP-gas, and resistant to the action of LP-gas under service conditions. Pressure containing parts shall be of steel, ductile iron, forged steel, or brass or an equivalent material. Aluminum may be used for approved meters. All piping shall be schedule 80, and all pipe fittings shall be forged steel having a minimum design pressure of 2000 p.s.i.

(4) In addition to the key, code, or card system, at least one approved safety device shall be installed on each dispenser to prevent pump activation by unauthorized individuals.

(5) The automatic dispensing system shall incorporate a cutoff valve with an opening and closing device upstream of the pump which ensures the valve is in a closed position when the dispenser is deactivated.

(6) An excess flow valve shall be installed in the liquid and vapor piping in such a manner that displacement of the dispenser will result in the shearing of such piping on the downstream side of the excess flow valve.

(7) The transfer hose downstream from the meter shall incorporate an approved pull-away device to stop the uncontrolled discharge of LP-gas.

(8) Fire emergency telephone numbers shall be posted in a conspicuous place in the immediate vicinity of the automatic dispenser.

(9) The immediate vicinity of automatic dispensers shall be well lit during all hours of darkness.

(10) All electric installations within the automatic dispenser enclosure and the entire pit or open space beneath the dispenser, shall comply with the National Electric Code, Class 1, Group D, Division 1, except for dispenser components located at least 48 inches above the dispenser base which are intrinsically safe according to the National Electric Code.

(11) Each automatic dispensing system shall include a switch which requires the operator's constant manual activation to maintain fuel flow. Overriding of such switch is prohibited.

§9.336. [RESERVED]

§9.337. [RESERVED]

§9.338. [RESERVED]

§9.339. [RESERVED]

§9.340. Automatic Dispenser Installation. (Amended 11-90)

(a) Prior to the installation of an automatic dispenser, plans (drawings) for the installation shall be submitted to the LP-Gas Division for examination. Tentative approval shall be granted if the plans indicate the installation will meet the requirements of the division. Final approval shall be issued only after a field inspection confirms that the dispenser, as installed, meets all the requirements of the safety rules. Plans shall detail the area within 150 feet of the dispenser and the fuel storage container, including the following information:

(1) distance in all directions from the storage container to all buildings and to the easement or right-of-way of any roadway, alley, electric utility, or railway; and

(2) distance in all directions from the dispenser to the fuel storage container, to all buildings, and to the curb line or edge of the roadway, easement, and right-of-way of any roadway, alley, electric utility, or railway.

(b) Fuel storage containers shall meet all distance requirements set forth in §9.65 of this title (relating to LP-gas Storage Distance Requirements). No dispenser may be closer to a building, easement, or right-of-way than the fuel storage container to which it is connected, although the distance need not, in any case, exceed 50 feet between the dispenser and any building, easement, or right-of-way.

(c) No dispenser may be less than 15 feet from an LP-gas fuel storage container.

(d) LP-gas fuel storage system piping at installations with automatic dispensers shall be equipped with an approved electrical emergency shut off system with a control accessible to the operator of the dispenser during transfer operations.

(e) The requirements of plans and specifications as noted in subsections (a)-(d) of this section shall not apply to existing LP-gas installations previously approved by the division, provided that LPG Form 501, Completion Report, is filed and received by the division, postmarked within 10 calendar days of the date of completion of the LP-gas automatic dispenser installation addition.

§9.385. Protection of Manual Dispensers.

(a) Each LP-gas storage installation installed on or after November 1, 1985, which includes a liquid dispensing system, which is not an automatic dispenser as set forth in this subchapter, shall incorporate into that dispensing system an approved pull-away device to stop the uncontrolled discharge of LP-gas.

(b) The pull-away device shall be adequately secured against displacement and shall be installed in accordance with manufacturer's instructions.

§9.395. Distance of Manual Dispensers.

Manual dispensers and pipe risers associated with manual dispensers shall be located no closer than 15 feet from the nearest building, property line, easement, or right-of-way.

Subchapter O. DIVISION XIII

§9.400. Applicability of Subchapter O.

The requirements of this subchapter shall govern the installation or repair of all LP-gas container(s), fuel systems in the vapor state, or appliances installed on any recreational vehicle. None of the requirements listed in this subchapter shall apply to the piping supplied as a part of a listed appliance. Refer to Subchapter G of this chapter (relating to Division V) for requirements concerning LP-gas liquid withdrawal or engine fuel installations.

§9.401. Definitions.

Refer to §9.2 of this title (relating to Definitions) and to the Natural Resources Code, §113.002 (relating to Definitions) for any term not defined in this section. The following words and terms, when used in this subchapter, shall have the following meanings, unless the context clearly indicates otherwise:

Approved—That which is in compliance with National Fire Protection Association (NFPA) 501C or which is acceptable to the LP-Gas Division.

Camping trailer—A vehicular portable unit mounted on wheels and constructed with collapsible partial side walls which fold for towing by another vehicle and unfold at the camp site to provide temporary living quarters for recreational, camping, or travel use. (See the definition of recreational vehicle in this section).

Connection, gas supply—The terminal end or connection to which a gas supply connector is attached.

Connector, gas supply—Tubing or pipe connecting the recreational vehicle to the gas supply source.

Frame—Chassis rail and any addition thereto of equal or greater strength.

Fuel system—Any arrangement of pipe, tubing, fittings, connectors, controls, valves, and devices designed and intended to supply or control the flow of fuel.

Gas appliance—An appliance listed for use with LP-gas only or for use with both natural gas and LP-gas (convertible from natural gas to LP-gas and vice versa).

Labeled—Equipment or materials to which has been attached a label, symbol or other identifying mark of an organization acceptable to the LP-Gas Division.

Listed—Equipment or materials included in a list published by a nationally recognized testing organization acceptable to the LP-Gas Division.

Main gas piping manifold—The gas piping which conveys gas from the gas supply connection to the first appliance branch piping.

Motor home—A vehicular unit designed to provide temporary living quarters for recreational, camping, or travel use built on or permanently attached to a self-propelled motor vehicle chassis or on a chassis cab or van that is an integral part of the completed vehicle. (See the definition of recreational vehicle in this section).

Recreational vehicle—A vehicular type unit primarily designed as temporary living quarters for recreational, camping, or travel use, which either has its own motive power or is mounted on or towed by another vehicle. The basis entities are: travel trailer, camping trailer, truck camper, and motor home.

Travel trailer—A vehicular unit, mounted on wheels, designed to provide temporary living quarters for recreational, camping, or travel use, and of such size or weight as not to require special highway movement permits when towed by a motorized vehicle, and of gross trailer area less than 320 square feet. (See the definition of recreational vehicle in this section).

Truck camper—A portable unit constructed to provide temporary living quarters for recreational, travel, or camping use, consisting of a roof, floor, and sides, designed to be loaded onto and unloaded from the bed of a pick-up truck. (See the definition of recreational vehicle in this section).

§9.402. Quality of Design and Installation of Gas Systems and Equipment.

All designs, construction, and workmanship of gas systems and equipment shall be in conformance with accepted engineering practices.

§9.403. LP-Gas Container Working Pressure.

(a) American Society of Mechanical Engineers (ASME) containers utilizing vapor withdrawal shall have a minimum design pressure of at least 312.5 pounds per square inch gauge (psig).

(b) Department of Transportation (DOT) containers shall have a minimum design working pressure of not less than 240 psig.

§9.404. Maximum Container Capacities.

Each recreational vehicle shall be provided with:

(1) no more than three nonpermanently mounted DOT or ASME containers having individual water capacities of 105 pounds maximum; or

(2) permanently mounted ASME container(s) having an aggregate water capacity of no more than 200 gallons LP-gas capacity.

§9.405. Location and Mounting of LP-Gas Containers.

(a) LP-gas containers shall not be installed nor shall provisions be made for installing or storing any LP-gas containers, even temporarily, inside any recreational vehicle.

(b) LP-gas containers shall not be installed in compartments or under hoods or housings that contain flame or spark producing equipment.

(c) LP-gas containers with their control valves shall be installed in compliance with one of the following:

(1) in a recess or compartment other than on the roof that is vaportight to the inside of the recreational vehicle;

(2) mounted on the tongue or on the A frame of a travel or camping trailer or forward of the front bulkhead below the overhang of a fifth wheel travel trailer and not lower than the bottom of the trailer frame;

(3) mounted on the chassis or to the floor of a motor home or chassis-mount camper, provided neither the container nor its support is located ahead of the front axle. Containers mounted between the front and rear axles shall be installed with as much road clearance as practical but not lower than the front axle height. Containers mounted behind the rear axle of a motor home or chassis-mount camper shall be installed in such a manner that the bottom of the container and any connection thereto shall not be lower than either the rear axle height (excluding the differential) or any section of the frame immediately to the rear of the container, whichever is higher. All clearances shall be determined from the bottom of the container, or from the lowest fitting, support, or attachment on the container or container housing, whichever is lower when all axles are simultaneously loaded to their gross axle weight rating. Containers shall not extend beyond the rear bumper of the vehicle. Extending a chassis or bumper for the purpose of mounting containers is prohibited.

(d) Container openings for vapor withdrawal shall be located in the vapor space when the container is in service or shall be provided with a suitable permanent internal withdrawal tube which communicates with the vapor space in or near the highest point in the container when it is mounted in service position, with the vehicle on a level surface. ASME containers shall have vapor withdrawal located midway between tank ends. Each container shall be permanently and legibly stamped to show the correct mounting position. Stamping shall be 1/4 inch minimum letter height. The method of mounting in place shall be such as to minimize the possibility of an incorrect positioning of the container.

§9.406. Securing of LP-Gas Containers.

(a) Containers shall be secured in place so they will not become dislodged when a load equal to eight times the container's filled weight is applied to the filled container's center of gravity in any direction. If the recreational vehicle is supplied with the containers not in place, the recreational vehicle manufacturer shall provide mounting instructions and required materials with the vehicle.

(b) Container compartments or carriers shall be provided with hold-down fastenings complying with subsection (a) of this section for as many containers as the carriers or compartments are capable of holding.

§9.407. Shielding of LP-Gas Containers from Heat of Internal Combustion Engine Exhaust System Components.

LP-gas containers located less than 18 inches from any component of an internal combustion engine exhaust system shall be shielded by a vehicle frame member or by a noncombustible baffle to dissipate heat with an air space on both sides of the frame member or baffle.

§9.408. Ventilation and Labeling of Compartments Containing LP-Gas Containers.

(a) Compartments shall be ventilated at or near the top and at the extreme bottom to facilitate diffusion of vapors. The compartment shall be ventilated with at least two vents having an aggregate free area equal to at least one square inch for each seven pounds of the total LP-gas fuel capacity of the container(s). The vents shall be equally distributed between the floor and ceiling of the compartment. If the lower vent is located in the access door or wall, the bottom edge of the vent shall be flush with the floor level of the compartment. The top vent shall be located in the access door or wall with the bottom of the vent within 12 inches of the ceiling of the compartment. Vents shall have an unrestricted discharge to the outside atmosphere. Doors or panels providing access to valves shall not be equipped with locks or require special tools to open.

(b) LP-gas may not be introduced into any recreational vehicle to be used in LP-gas service unless such vehicle is properly identified in accordance with subsection (c) of this section.

(c) When LP-gas mobile fuel containers are located in compartments or cabinets which obstruct the view of said containers, a label shall be placed on the access door of the compartments or cabinets. The label shall be approximately 4 3/4 inches in length by 3 1/4 inches in height. The markings shall consist of a border and letters "PROPANE" (letters one inch minimum height centered in the diamond) of silver or white reflective luminous material on a black background as follows:

§9.409. Securing LP-Gas Container Housings.

Doors, hoods, domes, housings (or portions of housings), and enclosures required to be removed or opened for the replacement of containers shall incorporate means for clamping them firmly in place and for preventing them from working loose during transit. Hoods or housings covering valves shall not be equipped with locks or require special tools to open.

§9.410. LP-Gas Container Appurtenances.

(a) Appurtenances such as safety relief devices, container shutoff valves, automatic stop fill devices, back-flow check valves, internal valves, excess-flow valves, liquid level gauges, pressure gauges and pressure regulators shall be listed and shall be acceptable to the LP-Gas Division.

(b) Appurtenances shall be located so as to be accessible and visible for servicing and operation, as applicable.

(c) The discharge from safety relief devices shall not be less than three feet horizontally measured along the surface of the vehicle, fuel-burning appliances intake and exhaust vents, and from all the internal combustion engine exhaust terminations below the level of such discharge. When the safety relief devices are located in a compartment vapor tight to the vehicle interior, discharge from these devices shall be considered to be located at the compartment vents and shall meet the location requirements of this paragraph. Doors not having openable windows or screens below the level of the gas compartment vents are exempt from this requirement.

(d) Each ASME mobile fuel container manufactured on or after September 1, 1990, shall be fitted with a full internal spring-loaded relief valve. The use of a container-type valve incorporating a spring-loaded relief valve is prohibited.

§9.411. Valves for Multiple LP-Gas Container Assembly Systems.

Valves in a multiple LP-gas container assembly system shall be arranged so that replacement of containers can be made without shutting off the flow of gas to the appliance(s). This subsection is not to be construed as requiring an automatic changeover device.

§9.412. Automatic Stop Fill Devices.

Permanently installed containers shall be equipped with a listed automatic stop fill device which is acceptable to the LP-Gas Division.

§9.413. Protection of LP-Gas Container Valves.

(a) ASME container valves shall be protected by recessing such valves into the container to prevent them from damage, or by means of a heavy metal fitting guard with a minimum of seven gauge thickness, adequately extended to protect all valves when such valves are in full open position. The guard shall be permanently welded to the container or bolted to the guard tabs. Where used, guard tabs shall have a minimum tensile strength of 55,000 psig and shall be welded to the vessel at the time of fabrication. The bolts securing the guard to the container must be a minimum of 3/8 inch grade five steel machine bolts.

(b) DOT container valves shall be protected by a ventilated cap or collar, fastened to the container, which is capable of withstanding a blow from any direction equivalent to that of a 30 pound weight dropped four feet. Construction must be such that the blow will not be transmitted to the valve.

§9.414. LP-Gas Regulators.

(a) Listed two-stage regulator(s) which are acceptable to the LP-Gas Division shall be installed.

(b) Regulator(s) shall have a capacity of not less than the total input of all LP-gas appliances installed in the recreational vehicle.

(c) The regulator(s) shall be mounted only in a position downward within 45° of vertical and the diaphragm area being drained. Containers installed below floor level shall have the regulator(s) installed

in a compartment which provides protection against the weather and wheel spray. The compartment shall be of sufficient size to permit tool operation for connection to and replacement of the regulator(s), shall be vaportight to the interior of the vehicle, shall have a one square inch minimum vent opening to the exterior located within one inch of the bottom of the compartment, and shall not contain flame or spark producing equipment. The regulator vent outlet shall be at least two inches above the compartment vent opening.

(d) Regulators installed elsewhere and not installed in compartments as specified shall be equipped with a durable cover (i.e. one that will not become brittle at temperatures as low as -40°F).

(e) If the regulator(s) are not mounted by the recreational vehicle manufacturer, instructions for proper installation shall be supplied.

(f) Final stage regulators shall be equipped on the low pressure side with a relief valve having a start-to-leak pressure setting of not less than 1.7 times nor more than three times the delivery pressure of the regulator.

§9.415. LP-gas Excess Flow Valves.

A listed LP-gas excess flow valve acceptable to the LP-Gas Division shall be provided in accordance with the following.

(1) The inlet or outlet of each container service valve of a permanently mounted container shall be equipped with such a listed excess flow valve or a listed Prest-O-Lite (POL), Canada Gas Association (CGA) 510, adapter with an integral excess flow valve.

(2) Vehicles with removable DOT containers shall have furnished or installed a listed POL adapter with an integral listed excess flow valve.

§9.416. [RESERVED].

§9.417. Maximum Vapor Pressure.

Vapor pressure, not to exceed 14 inches water column, shall be delivered from the system into the gas appliance supply connection.

§9.418. Gas Piping System Materials.

Materials used for the installation, extension, alteration, or repair of any gas piping system shall be new and free from defects or internal obstructions. It shall not be permissible to repair defects in gas piping or fittings. Inferior or defective materials shall be removed and replaced with acceptable material. The system shall be made of materials having a melting point of not less than 1,450°F except as provided in §9.421 of this title (relating to Joint Materials), and §9.427 of this title (relating to Appliance Connections) or of materials (used in piping or fittings) listed for the specific use intended. They may consist of one or more of the following materials.

(1) Gas pipe shall be steel or wrought-iron pipe complying with American National Standards Institute (ANSI) B36.10, Wrought-Steel or Wrought-Iron Pipe. Threaded copper or brass pipe in iron pipe sizes may be used.

(2) Fittings for gas piping shall be wrought iron, malleable iron, steel, or brass (containing not more than 75% copper).

(3) Copper tubing shall be annealed Type K or L, conforming to American Society for Testing Materials (ASTM) B88, **Specifications for Seamless Copper Water Tube,** or shall comply with ASTM B280, **Specifications for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service.**

(4) Seamless brass tubing shall be composed of not more than 75% copper (cartridge brass 70%) and shall have a minimum thickness of 0.030 inch.

(5) Steel tubing shall be constructed in accordance with ASTM A539, **Specifications for Electric-Resistance Welded Coiled Steel Tubing for Gas and Fuel Oil Lines,** and shall be externally corrosion-protected.

(6) Flexible nonmetallic tubing shall be part of an assembly which is listed for the use intended.

§9.419. Gas Piping Design.

Each recreational vehicle requiring fuel gas for any purpose shall be equipped with a gas piping system that is designed for LP-gas only or with a natural gas piping system acceptable for LP-gas.

§9.420. Gas Pipe Sizing.

Gas piping systems shall be sized so that the pressure drop to any appliance inlet connection from the gas supply connection(s), when all appliances are in operation at maximum capacity, is not more than 0.5 inch water column when used with natural gas if the system is designed for both natural and LP-gas, or when used with LP-gas if the system is designed for LP-gas only. Conformance may be determined on the basis of test, or the gas piping system may be sized in accordance with one of the following Tables 9.420(a) through (d) in this section or other approved method. See Table 9.420(e) in this section for further guidance on how to calculate piping size. The natural gas supply connection shall be not less than 3/4 inches nominal pipe size.

TABLE 9.420(a)

Sizing of Low-Pressure Gas Piping Systems Maximum Capacity of Iron Pipe Sizes in Thousands of BTU per Hour Combination of LP-gas/Natural Gas System

Nominal Iron Pipe Size (I.D.), Inches	Length of Pipe in Feet						
	10	15	20	25	30	35	40
1/4	43	33	29	27	24	32	20
3/8	95	77	65	57	52	49	45
1/2	175	135	120	108	97	90	82
3/4	360	279	250	225	200	186	170
1	680	536	465	404	375	330	320

TABLE 9.420(b)

Sizing of Low-Pressure Gas Piping Systems Maximum Capacity of Semi-Rigid Tubing in Thousands of BTU per Hour Combination of LP-gas/Natural Gas System

Tubing Size, Inches		Length of Pipe in Feet						
		10	15	20	25	30	35	40
Outside Diameter	Inside Diameter							
3/8	1/4	27	21	18	16	15	14	13
1/2	3/8	56	42	38	34	31	28	26
5/8	1/2	113	86	78	70	62	59	53
3/4	5/8	197	157	136	122	109	99	93
7/8	3/4	280	227	193	172	155	141	132

TABLE 9.420(c)

Sizing of Low-Pressure Gas Piping Systems Maximum Capacity of Iron Pipe Sizes in Thousands of BTU per Hour LP-gas System

Nominal Iron Pipe Size (I.D.), Inches	Length of Pipe in Feet						
	10	15	20	25	30	35	40
1/4	67	52	46	41	37	34	31
3/8	147	112	101	87	81	74	70
1/2	275	212	189	166	152	138	129
3/4	567	500	393	338	315	276	267
1	1071	1005	732	667	590	530	504

TABLE 9.420(d)

Sizing of Low-Pressure Gas Piping Systems Maximum Capacity of Semi-Rigid Tubing in Thousands of BTU per Hour LP-gas System

Tubing Size, Inches		Length of Pipe in Feet						
		10	15	20	25	30	35	40
Outside Diameter	Inside Diameter							
3/8	1/4	39	32	26	23	21	19.5	19
1/2	3/8	92	72	62	56	50	45	41
5/8	1/2	199	159	131	118	107	94	90
3/4	5/8	329	249	216	193	181	154	145
7/8	3/4	501	380	346	300	277	246	233

TABLE 9.420(e) **Required Gas Supply Pipe Sizes**

To determine the required gas supply pipe sizes for each piping section as set out in the typical example diagrammed below, assuming an LP-gas supply system/Natural gas supply system, take the following steps:

Figure Sizing By	Front Gas Supply Connection	Rear Gas Supply Connection
Step 1. Measure the length of piping from the gas supply connection to the inlet of the most remote appliance.	28' (A + J + C + E + G) (Total: 82,000 BTUH)	19' (F + E + C + H) (Total: 82,000 BTUH)
Step 2. In Tables 9.420 (a)-(d), select the column showing that distance or the next longer distance (if the Table does not give the exact length). In this example use Table 9.420(a) since it presumes using an LP-gas/natural gas piping system using steel/wrought iron pipe.	30' column (which for 82,000 BTUH means 1/2 " iron pipe or 3/4 " tubing)	20' column (which for 82,000 BTUH means 1/2 " iron pipe or 3/4 " tubing)

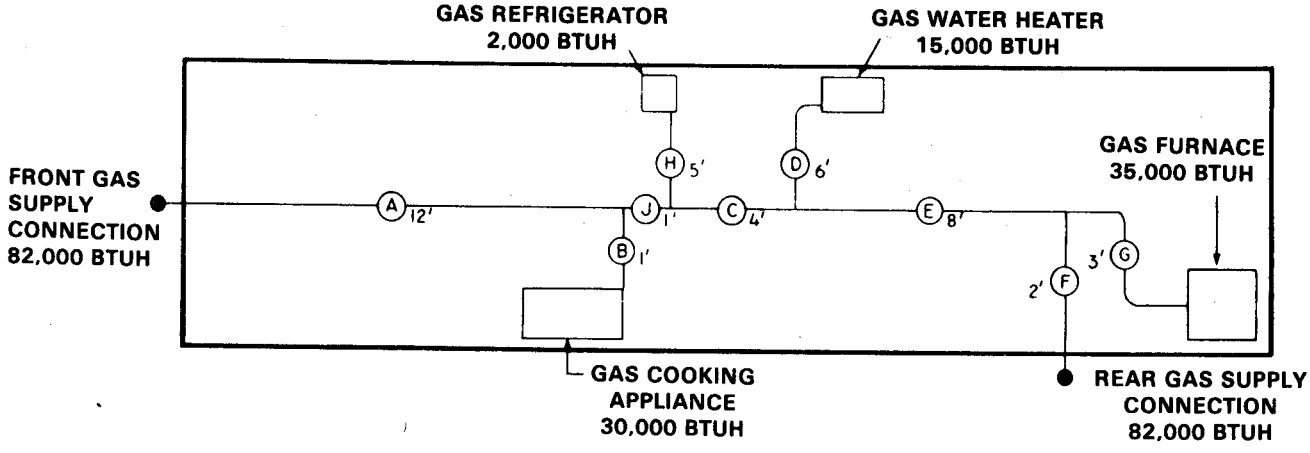
Step 3. Use the vertical column in Table 9.420(a) selected in Step 2 for all LP-gas pipe sizing. For each section of piping, determine the total demand for that section. In the vertical column selected in Step 2 locate the BTUH demand equal to or just greater than the demand for that section of pipe.

Step 4. Choose the larger size piping required from either the front or rear gas supply connection. If a single gas supply connection is provided, this step is not required.

30' Column Front Connection				20' Column Rear Connection			
Piping Section	BTUH Demand (1,000's)	Nominal I.D. Pipe Inches	Tubing O.D. Inches	Piping Section	BTUH Demand (1,000's)	Nominal I.D. Pipe Inches	Tubing O.D. Inches
A	82	1/2	3/4	A	—	—	—
B	30	3/8	1/2	B	30	3/8	1/2
C	50	3/8	5/8	C	32	3/8	1/2
D	15	1/4	3/8	D	15	1/4	3/8
E	35	3/8	5/8	E	47	3/8	5/8
F	—	—	—	F	82	1/2	3/4
G	35	3/8	5/8	G	35	3/8	1/2
H	2	1/4	3/8	H	2	1/4	3/8
J	52	3/8	5/8	J	30	3/8	1/2

EXAMPLE OF GAS PIPE SIZING

Typical Example of Gas Piping System Sizing For a Recreational Vehicle



A typical recreational vehicle showing location of alternate gas supply inlet connections, gas piping system (including sample lengths), and gas appliances (including assumed BTUH gas demand of each).

§9.421. Joint Materials.

(a) Pipe joints in the piping system, unless welded or brazed, shall be screw joints that comply with American National Standards Institute (ANSI) B2.1, *Pipe Threads (except Dryseal)*. Right and left nipples or couplings shall not be used. Unions, if used, shall be of the ground joint type. The material used for welding or brazing pipe connections shall have a melting temperature in excess of 1,000°F.

(b) Tubing joints shall be made with a single or double flare of 45° conforming to Society of Automotive Engineers (SAE) J 553 as recommended by the tubing manufacturer; by means of listed vibration-resistant fittings; or the joints may be brazed with a material having a melting point exceeding 1,000°F. Brazing alloys shall not contain phosphorous. Sealants shall not be used on tubing joints. Ball sleeve or one-piece internal compression-type tubing fittings shall not be used. See Table 9.420(e) in §9.420 of this title (relating to Gas Pipe Sizing).

(c) Threaded joints shall be made up tight with approved pipe joint material, insoluble in liquefied petroleum gas, which shall be applied to the male threads only.

§9.422. Routing and Protection of Tubing and Piping.

(a) Tubing shall not be run inside walls, floors, partitions, or roofs. Where tubing passes through walls, floors, partitions, roofs, or similar installations, such tubing shall be protected by the use of weather resistant grommets that shall tightly fit both the tubing and the hole through which the tubing passes.

(b) Pipe or tubing joints shall not be located in any floor, wall, partition, or similar concealed construction space.

§9.423. Location of Supply Connections.

For LP-gas only systems and for combination LP-gas and natural gas systems, the supply connection shall be located at the container location. An additional supply connection may be installed, located on the left (road) side, or at the rear left of the longitudinal center of the vehicle, within 18 inches of the outside wall. Combination LP-gas and natural gas additional supply connections shall be within 15 feet of the rear of the vehicle.

§9.424. LP-Gas Supply Connectors.

Connectors used in LP-gas systems shall be listed as conforming to Underwriter's Laboratory (UL) Publication 569, **Standard for Pigtails and Flexible Hose Connectors for LP-gas.**

§9.425. High-Pressure LP-Gas Connections.

(a) If the regulator is not directly connected to a permanently mounted container shutoff valve, it shall be connected to the container shutoff valve by a listed high-pressure connector or by material conforming to §9.418 of this title (relating to Gas Piping System Materials).

(b) The connection between the shutoff valve of a container intended to be removed and mounted on the tongue (A frame) and a regulator mounted on a container support bracket shall be made with a listed high-pressure connector.

(c) The connection between the shutoff valve of a container intended to be removed and mounted on the tongue (A frame) and a regulator permanently mounted other than as described in subsection (b) of this section shall be made with a listed high-pressure flexible hose connector.

(d) The connection between the shutoff valve of a container intended to be removed and mounted within a compartment shall be made with a listed high-pressure flexible hose connector if the regulator is not directly attached to the shutoff valve.

§9.426. Low-Pressure LP-Gas Connections.

(a) The connection between a permanently mounted regulator or a regulator directly attached to a permanently mounted container and the gas supply system shall be made with a listed flexible hose connector or with material conforming to §9.418 of this title (relating to Gas Piping System Materials).

(b) The connection between a regulator mounted on a removable container support bracket or a regulator directly attached to the shutoff valve of a removable container and the gas supply system shall be made with a listed flexible hose connector.

§9.427. Appliance Connections.

Except as provided herein, all gas-burning appliances shall be connected to the fuel piping with materials as provided in §9.418 of this title (relating to Gas Piping System Materials). Where a flexible connector is required to connect a gas appliance, such as a fold-down range, the connector shall be a listed flexible hose connector conforming to Underwriter's Laboratory (UL) Publication 569, **Standard for Pigtails and Flexible Hose Connectors for LP-gas.** Flexible gas connectors shall be permitted to pass through a wall or partition provided the entire length of the hose is readily available for visual inspection, provision is made to protect against chaffing and no part of the flexible connector is concealed in the hollow space of a wall or partition.

§9.428. Gas Shutoff Valves.

Shutoff valves used in connection with gas piping shall be listed for use with LP-gas, acceptable to the LP-Gas Division, and have nondisplaceable rotors.

§9.429. Gas Inlet Cap.

(a) For combination LP-gas and natural gas systems, suitable cap(s) to effectively close the gas inlet(s) when disconnected from the source of supply and not in use shall be attached to the recreational vehicle. Inlets shall be effectively capped when disconnected from source of supply.

(b) The LP-gas only supply inlet shall be effectively capped to prevent entrance of water and foreign materials when the recreational vehicle is shipped with the LP-gas containers disconnected from the system.

§9.430. Prohibiting Use of Gas Piping as Electrical Ground.

Gas piping shall not be used for a grounding electrode.

§9.431. Gas Pipe Hangers and Supports.

All gas piping shall be adequately supported by galvanized, painted, or equivalently protected metal straps or hangers at intervals of not more than four feet except where adequate support and protection is provided by structural members. Iron-pipe gas supply connection(s) shall be rigidly anchored to a structural member within six inches of the supply connection(s). Iron piping shall be anchored within six inches of tubing connections at the end of pipe runs and within 12 inches of tubing connections within runs.

§9.432. Testing for Gas Leakage.

(a) Before appliances are connected. Piping systems shall be proven by test to be leak-free by maintaining an air pressure of at least six inches mercury or three pounds per square inch gauge (psig) for a period of at least 10 minutes. Before the test is begun, temperature of the air and of the piping shall be approximately the same, and a uniform temperature shall be maintained thorughout the period. Leaks, if observed, shall be located and corrected. Defective material shall be replaced. Tests shall be conducted by either of the following methods.

(1) Source of air pressure to the piping system shall be shut off. The pressure in the system shall be measured over a period of 10 minutes with a mercury manometer, or equivalent device, calibrated so as to be read in increments of not greater than 1/10 pound per square inch (psi). During the 10-minute period, a drop in pressure shall not occur.

(2) A bubble-type leak detector shall be installed between the source of air pressure and the piping system. After a 10-minute equalization period, the bubble detector shall not indicate any air flow for a period of one minute. Products that contain ammonia or chlorine shall not be used for testing.

(b) After appliances are connected. When appliances are connected to the piping system, pressure test shall be conducted by either of the following methods.

(1) The entire piping system shall be pressurized to not less than 10 inches nor more than 14 inches water column and the appliance connections tested for leakage with either soapy water or bubble solution. Products containing ammonia or chlorine shall not be used.

(2) The entire system shall be pressurized to not less than 10 inches nor more than 14 inches water column, the appliance shutoff valves closed, and the source of pressure shut off. Before the test is begun, temperature of both the air and piping shall be approximately the same and a uniform temperature shall be maintained through the test period. The pressure in the system shall be measured over a period of 10 minutes with a mercury manometer or with a pressure measuring device designed and calibrated to read, record, or indicate a pressure loss due to leakage during the pressure test period. During the 10-minute period, a drop in pressure shall not occur.

§9.433. Gas Appliances.

(a) Gas appliances and vents necessary for their installation shall be listed for installation in recreational vehicles.

(b) Gas appliances shall not be converted from one fuel to another unless converted in accordance with the terms of their listings and the appliance manufacturer's instructions.

(c) The installation of each appliance shall conform to the terms of its listing and the appliance manufacturer's installation instructions. Floor-mounted gas burning appliances shall not be installed on carpeting unless the appliance is listed for such installation. Every appliance shall be secured in place to avoid displacement.

§9.434. Venting Requirements.

(a) Gas appliances. Gas appliances, including furnaces and refrigerators (but not including ranges and ovens), shall be of the vented type and vented to the outside.

(b) Installation of venting and combustion air systems. Venting and combustion air systems shall be installed in accordance with the following.

(1) Components shall be securely assembled and properly aligned using the method shown in the appliance manufacturer's instructions.

(2) Vent connectors shall be firmly attached to the flue collars by sheet metal screws, or the equivalent, or as specified in the manufacturer's installation instructions.

(3) Every joint of a vent, vent connector, exhaust duct and combustion air intake shall be secure and in alignment.

(c) Requirement for direct vent system appliances. All gas burning appliances, except ranges and ovens, shall be designed and installed to provide for the complete separation of the combustion system from the interior atmosphere of the recreational vehicle. Combustion air inlets and flue gas outlets shall be listed as components of the appliance. The required separation shall be obtained by the installation of direct vent system (sealed combustion system) appliances. A gas refrigerator may be installed to meet the requirements of this subsection by using panels supplied by the recreational vehicle manufacturer provided that the refrigerator manufacturer furnishes the necessary vents and grills as specified by the listing requirements and, in addition, the refrigerator is equipped with the necessary means to ensure the integrity of the separation of the combustion system when the refrigerator is removed for field service and reinstalled.

(d) Gas appliances.

(1) Any portion of a combustion air inlet or a flue gas outlet of a gas heating appliance shall be located at least three feet from any gasoline filler spout on the vehicle if the inlet or outlet is located above or at the same level. If any portion of such inlet or outlet is located below the spout the distance shall be the sum of the vertical distance below the spout plus three feet.

(2) Vent terminations from gas appliances shall not be less than three feet from any motor-driven air intake discharging into habitable areas of the recreational vehicle. Vents shall not terminate underneath a recreational vehicle.

(e) Forced-air heating appliances. A forced-air heating appliance and its return-air system shall be designed and installed so that negative pressure created by the air-circulating fan cannot affect its or another appliance's combustion air supply or act to mix products of combustion with circulating air.

(f) Ventilation of areas accommodating gas cooking appliances. The space in which any cooking appliance is located shall be ventilated by a gravity or mechanical vent extending through the roof to the outside. A gravity vent shall have a free, clear, openable area not less than one square inch for every 2,000 BTUH rated input of the appliance(s). The location of the vent shall be in the roof within five feet of any point directly above the cooking appliance. Vent hood ducts shall be designed so that the duct outlet is located at such a point as to preclude the trapping of products of combustion. Exception to these requirements of this subsection are as follows:

(1) Vehicles with fabric exterior walls are permitted to utilize an opening through the sidewall not more than 15 inches below the highest point of that roof within five feet of any point directly above the appliance.

(2) Hooded gravity vents located directly above the appliance are permitted to exhaust through the sidewall. See §9.438(b) of this title (relating to Clearance of Heat-Producing Appliances).

(3) Mechanical vents (exhaust fans) having flow rating of two cubic feet per minute for every 1,000 BTUH rated input of the appliance are permitted to be located on an adjacent wall higher than the appliance within a horizontal distance of not more than five feet from the nearest edge of the appliance.

§9.435. Installation of Internal Combustion Engine Generators.

Internal combustion engine-driven generator units (subject to the provisions of this standard) shall be secured in place to avoid displacement in accordance with manufacturer's instructions and shall be installed in a compartment which is vaportight to the interior of the vehicle.

§9.436. Marking of Appliances.

(a) Information on clearances, input ratings, lighting, and shutdown shall be attached to the appliance with the same permanence as the appliance nameplate, and shall be so located that it is easily readable when the appliance is properly installed.

(b) Each gas appliance shall bear the appliance manufacturer's permanent marking designating the type(s) of fuel for which it is listed. If listed and installed for use with either LP-gas or natural gas, the appliance manufacturer's instructions regarding conversion from one fuel to the other shall be attached to the appliance with the same permanence as the appliance nameplate.

§9.437. Location of Appliances.

(a) Every appliance shall be accessible for inspection, service, repair, and replacement without removing permanent construction. Sufficient room shall be available to enable the operator to operate the controls, start the appliance, and observe the ignition.

(b) Heat-producing appliances shall be so located that doors, drapes, or other such material cannot be placed or swung closer to the appliance than the clearance specified on the labeled appliance.

§9.438. Clearances of Heat-Producing Appliances.

(a) Clearances between heat-producing appliances and adjacent surfaces shall not be less than as specified in the terms of their listing. Clearance spaces shall be framed in or guarded to prevent creation of storage space within the clearance specified. The only exception to framing-in or guarding such spaces will be those necessary to allow access to shutoff valves or controls in order to comply with §9.422(b) of this title (relating to Routing and Protection of Tubing and Piping) and §9.433 of this title (relating to Gas Appliances), in which case the unguarded area must have a warning tag, posted in an easily readable location, as follows:

WARNING
DO NOT STORE COMBUSTIBLE MATERIAL
IN THIS AREA

(b) Ranges shall have a vertical clearance between the cooking top and combustible material or metal cabinets in accordance with the following table of the terms of their listings.

TABLE 9.438(b)

Type of Protection Provided to Combustible Material or Metal Cabinets above Range	Top Burner Rating	Oven Burner Rating	Vertical Clearance Required above Range Top
1. No protection provided.	Any combination, number, or input.	Any	30 inches
2. 1/4 inch thick minimum insulating millboard covered with 28 US gauge sheet metal extending 9 inches beyond the sides of the range and covering the entire bottom of the material to be protected extending over the top of the range. In lieu of 28 gauge sheet metal, a hood, 28 US gauge sheet metal, may be used. Hood shall be not less than the width of the range and shall be centered over the range and cover the entire bottom of the material to be protected.	Any combination, number, or input.	Any	24 inches
3. Range hood, 28 US gauge, with minimum 2 inch vertical sides and provided with a bead or flange around top of hood to provide a minimum 1/4 inch dead air space between hood and protected material. Hood shall be less than the width of the range and shall be installed centered over range and cover the entire bottom of the material to be protected extending over the top of range.	Not more than 4 top burners—input not to exceed 6,000 BTUH (1758w) each.	10,000 BTUH	19 1/2 inches
	Not more than 4 top burners—input not to exceed 9,000 BTUH.	24,000 BTUH	20 3/4 inches
	2 rear burners—input not to exceed 9,000 BTUH each and 2 front burners - input not to exceed 12,000 BTUH each.	22,000 BTUH	23 1/2 inches
4. Same as No. 3, except no dead air space clearance provided.	Not more than 4 burners—input not to exceed 9,000 BTUH each.	22,000 BTUH	23 inches

§9.439. Sizing and Materials of Supply Ducts.

(a) Ducts shall be designed so that when a labeled forced-air furnace is installed and operated continually at its normal input rating in the recreational vehicle, with all registers in full open position, the static pressure measured in the duct plenum shall not exceed that shown on the label of the appliance. When an air-cooling coil is installed in the system, the total static pressure of the coil and the system shall

not exceed that shown on the label of the appliance. The minimum dimension of any branch duct shall be at least 1½ inches and the minimum dimension of any main duct shall be at least 2½ inches.

(b) A supply duct system shall be considered substantially air-tight when the static pressure in the duct system, with all registers sealed and with the furnace air circulator at high speed, is at least 80% of the static pressure measured in the duct plenum, with its outlets sealed and the furnace air circulator operating at high speed. Pressures shall be measured with a water manometer or equivalent device calibrated to read in increments not greater than 1/10 inch water column.

(c) Air supply ducts shall be made of galvanized steel, tin-plated steel, aluminized steel or aluminum, or made of Class 0 or Class 1 listed air duct material as tested in accordance with Underwriter's Laboratory (UL) Publication 181, **Standard for Factory Made Air Duct Materials and Air Duct Connectors**. A duct system integral with the structure shall be of durable construction that can be demonstrated to be equally resistant to fire and deterioration. Air ducts and plenums constructed of sheet metal shall be in accordance with the following table.

TABLE 9.439(c)

Minimum Metal Thickness for Ducts*

	Diameter 14 inches or less	**or**	**Width Over 14 inches**
Round Exposed	0.013 inches		0.016 inches
Enclosed Rectangular or Round	0.013 inches		0.016 inches
Exposed Rectangular	0.016 inches		0.019 inches

* When "nominal" thicknesses are specified, 0.003 inches shall be added to these "minimum" metal thickness.

§9.440. Sizing, Materials, and Openings of Return Air Ducts.

(a) The cross-sectional area of the return air duct shall not be less than two square inches for each 1,000 BTUH input rating of the appliance. A complete ducted heating system need not comply with this return air duct sizing requirement if the numerical total of the static pressure at the inlet and the outlet of the appliance is equal to or less than that shown on the label of the appliance. Example: Supply duct static pressure % +0.10 inch water column and return air duct static pressure - 0.04 inch water column. Numerical total is 0.14 inch water column static pressure. Dampers shall not be placed in any return air duct, except that a diverting damper may be placed in a combination fresh air intake and return air duct so arranged that the required cross-sectional area will not be reduced at all possible positions of the damper.

(b) Return air ducts, if used, shall be in accordance with the following.

(1) Portions of return air ducts directly above the heating surfaces, or closer than two feet from the outer jacket or casing of the furnace, shall be constructed of metal in accordance with Table §9.439(c) of this title (relating to Sizing and Materials of Supply Ducts).

(2) Return air ducts, except as required in paragraph (1) of this subsection, shall be constructed of one-inch nominal, wood boards (flame spread classification of not more than 200), or other suitable material no more combustible than one inch board. The interior of such combustible ducts (ducts of material other than as specified in Table 9.439(c) of this title (relating to Sizing and Materials of Supply Ducts) shall be lined with noncombustible material at points susceptible to damage where there might be danger from incandescent particles dropped through the register or from the furnace, such as directly under floor registers and bottom of vertical ducts or directly under furnaces having bottom return.

(c) Provisions shall be made to permit the return of circulating air from all rooms and living spaces to the circulating air supply inlet of the furnace, except that toilet rooms shall not be required to have return air openings.

§9.441. Air Duct Joints and Seams.

(a) Joints and seams of ducts shall be securely fastened and made substantially airtight. Slip joints shall have a lap of at least one inch and shall be individually fastened. Tape or caulking compound may be used for sealing mechanically secure joints. Where used, tape or caulking compound shall not be subject to deterioration under long exposures to temperatures up to 200°F and to conditions of high humidity, excessive moisture, or mildew.

(b) Ducts shall be securely supported.

(c) Fittings connecting the register to the duct system shall be constructed of metal or material which complies with the requirements for Class 0, or Class 1 air ducts under Underwriter's Laboratory (UL) 181, **Standard for Factory Made Air Duct Materials and Air Duct Connectors.**

(1) Registers or grills, shall be constructed of metal or be made of a material classified 94 V-0 or 94 V-1 when tested as described in UL Publication 94, **Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances.**

(2) Registers or grills, when installed in the floor, shall resist without structural failure a 200 pound concentrated load on a two inch diameter disc applied to the most critical area of the exposed face of the register or grill. For this test the register or grill is to be at a temperature of not less than 165°F and is to be supported in accordance with the manufacturer's instructions.

§9.442. Air Conditioning (Other than Automotive-type).

(a) General requirement—air-conditioning appliances. Every air-conditioning appliance or combination air-conditioning and heating appliance used in a recreational vehicle shall be listed or certified for the application for which the air-conditioning appliance is intended and shall be installed in accordance with the terms of its listing.

(b) Applicable standards—air-conditioning appliances.

(1) Electrically driven mechanical compression-type air-conditioning appliances shall be rated in accordance with American Refrigeration Institute (ARI) Standard 250-74, **Electrically Driven Mechanical Compression-type Air-Conditioners.**

(2) Gas-fired absorption air-conditioning appliances shall be rated in accordance with ANSI Z21.40.1, **Gas-Fired Absorption Summer Air Conditioning Appliances**, with Addenda Z21.40.1a.

(c) Installation of air-conditioning appliances. The installation of each appliance shall conform to the terms of its listing and the manufacturer's installation instructions. Appliances shall be secured in place to avoid displacement and movement from vibration and road shock.

(d) Rating plates for air-conditioning appliances. The air-conditioner rating plate shall be located so that it is easily readable when the appliance is installed.

(e) Accessibility of air-conditioning appliances. Each air-conditioning appliance shall be accessible for inspection, service, repair, and replacement without removing permanent construction.

§9.443. Required Information.

(a) Installation and instructions for appliances. Operating instructions shall be provided for each appliance, including air conditioning appliances (other than automotive-type).

(b) Owner's manual. Each recreational vehicle equipped with listed gas utilization equipment shall be provided with an owner's manual that shall contain the following information as a minimum:

(1) Warning: LP-gas containers shall not be placed or stored inside the vehicle. LP-gas containers are equipped with safety devices that relieve excessive pressure by discharging gas to the atmosphere.

(2) Warning: It is not safe to use cooking appliances for comfort heating. Cooking appliances need fresh air for safe operation. Before operation, open the overhead vent or turn on exhaust fan and

open the window. This warning label has been located in the cooking area to remind the user to provide an adequate supply of fresh air for combustion. Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle, and proper ventilation when using the cooking appliance(s) will avoid dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating as the danger of asphyxiation is greater when the appliance is used for long periods of time.

(3) A warning label has been located near the LP-gas container. This label reads: "Do not fill container(s) to more than 80% of capacity." Overfilling the LP-gas container can result in uncontrolled gas flow which can cause fire or explosion. A properly filled container will contain approximately 80% of its volume as liquid LP-gas.

(4) A warning that portable fuel-burning equipment, including wood and charcoal grills and stoves, shall not be used inside the recreational vehicle. The use of this equipment inside the recreational vehicle may cause fires or asphyxiation.

(5) A warning that states not to bring or store LP-gas containers, gasoline, or other flammable liquids inside the vehicle because a fire or explosion may result.

(6) A label has been placed in the vehicle near the range area. This label reads: "If you smell gas: extinguish any open flames, pilot lights, and all smoking materials; do not touch electrical switches; shut off the gas supply at the tank valve(s) or gas supply connection; open doors and other ventilating openings; leave the area until odor clears; and have the gas system checked and leakage source corrected before using again."

(7) LP-gas regulators must always be installed with the diaphragm vent facing downward. Regulators that are not in compartments have been equipped with a protective cover. Make sure that regulator vent faces downward and that cover is kept in place to minimize vent blockage that could result in excessive gas pressure causing fire or explosion.

§9.444. Required Labels and Identification Plates.

(a) Exterior labels. All exterior labels required under Subchapter O of this chapter (relating to Division XIII) shall be made of etched, metal-stamped, or embossed brass, stainless steel, anodized or alclad aluminum not less than 0.020 inch thickness. These labels shall be mounted by permanent attachment methods compatible with the surface to which it is applied. Other types of labels may be approved if there is adequate proof of permanency and comparable life expectancy to those types specified herein.

(b) Identification of gas supply connections. Each recreational vehicle shall have permanently affixed to the exterior skin at or near each gas supply connection, or at the end of the pipe, a plate complying with the requirements for exterior labels of subsection (a) of this section three inches by 1 3/4 inches minimum size which reads (as appropriate) either of the following.

(1) "This gas piping system is designed for use of liquefied petroleum gas only. Do not connect natural gas to this system." Securely cap inlet(s) when not connected for use. After turning on gas, except after normal container replacement, test gas piping and connections to appliances for leakage with soapy water or bubble solution. Do not use products that contain ammonia or chlorine.

(2) "This gas piping system is designed for use of either LP-gas or natural gas. Before turning on gas be certain appliances are designed and arranged for the gas connected. (See each appliance instruction plate.)" Securely cap this inlet when not connected for use. After turning on gas, except after normal container replacement, test gas piping and connections to appliances for leakage with soapy water or bubble solution. Do not use products that contain ammonia or chlorine.

(c) Warning relative to refueling.

(1) Each vehicle shall have a permanent label adjacent to the LP-gas container that reads: "Do not fill LP-gas container(s) to more than 80% of capacity."

(2) Each motor home or truck camper having exterior combustion air inlet(s) at a level below the roof shall have a permanent label which reads "Warning: All pilot lights and appliances shall be

turned off during refueling of motor fuel tanks and/or LP-gas containers." On truck campers this label shall be placed near the front on both the left and right exterior walls. On motor homes and chassis-mounted truck campers, this label shall be placed by the gasoline filler spout and the container.

(3) The previous labels, where required near the LP-gas containers, may be incorporated in the plates required in §9.444(b) of this title (relating to Required Labels and Identification Plates).

(d) Warning if gas odor is detected. When LP-gas fuel-burning equipment is installed by the recreational vehicle manufacturer, a permanent label with 3/8 inch high title letters and 1/8 inch high text letters shall be affixed in a noticeable location near the range. This label may be affixed to the back of a cabinet door providing the cabinet door will be frequently used. This label reads: "If you smell gas: extinguish any open flames, pilot lights, and all smoking materials; do not touch electrical switches; shut off the gas supply at the tank valve(s) or gas supply connection; open doors and other ventilating openings; leave the area until odor clears; and have the gas system checked and leakage source corrected before using again."

(e) Warning label for cooking appliances. A permanent warning label with the word "warning" with 3/8 inch high letters and body text with 1/8 inch high letters shall be affixed in a conspicuous manner adjacent to fuel-burning ranges and shall read: "Warning: It is not safe to use cooking appliances for comfort heating." Cooking appliances need fresh air for safe operation. Before operation open the overhead vent or turn on exhaust fan and open the window.

§9.445. [RESERVED].

Subchapter P. DIVISION XIV

§9.499. Subchapter P.

Division XIV applies to cargo containers constructed to MC-330 and 331 Department of Transportation (DOT) specifications used in the transportation and distribution of LP-gas.

§9.500. MC-330, MC-331 Department of Transportation Specification Requirements.

All transports not currently registered with this division prior to June 1, 1989, must meet MC-330 or MC-331 DOT specifications.

§9.501. Testing Requirements. (Amended 11-90)

(a) Each cargo container unit required to be registered with this division must be tested at least once every five years and each test prescribed in this section must be conducted in accordance with the applicable provision(s) of the ASME Code and in accordance with the quality procedures documentation approved by the division. Any cargo container which has been out of LP-gas service for a period of one year or more shall not be returned to LP-gas service until it has fulfilled the testing requirements in this section (which shall include any test the division director may reasonably require). Such documentation must be filed by either an ASME Code fabricator licensed by the division or by a testing laboratory registered with the division. Upon completion of any test or repairs required under this section, the results of any such test or repair must clearly indicate whether such unit is safe for LP-gas service and must be submitted by the licensed fabricator or registered testing laboratory that tested or repaired the affected cargo container unit on a LPG Form 8 (Manufacturer's Report of Pressure Vessel Repair, Modification, and Testing) and must be received at the division within 30 days of the date of repair or the due date of the test(s) required under this section. If evidence of any unsafe condition is discovered as a result of any of the tests performed under this section, the cargo container unit must be immediately removed from LP-gas service. Such units may not be returned to LP-gas service until an official communication is received from the division, which will include written notice that authorizes returning such unit to LP-gas service.

(b) Each container **less** fittings must be subjected to a hydrostatic chart-recorded test for a continuous period of 30 minutes. **The phrase "less fittings" as used in this subsection shall not be construed to prevent the safety relief valve(s) from being blocked and applicable shutoff valve(s) for the container opening(s) being closed at the time of the hydrostatic testing. If the safety relief valve(s) will be blocked, the blocks must be placed immediately prior to the test and must be removed immediately upon completion of the hydrostatic test. Each container safety relief valve must be removed from the cargo tank and tested. Each safety relief valve must open at the required set pressure and reset to a leak-tight condition at 90% of the set-to-discharge pressure or be replaced.** During such test, the internal pressure must be hydraulically generated to 1½ times the working pressure of the container.

(1) The container shall be inspected for corroded areas, dents, or other conditions (including leakage under test pressure) which could indicate weakness that might render the container unsafe for LP-gas service.

(2) When testing insulated cargo containers, the insulation and jacketing need not be removed unless it is otherwise impossible to reach test pressure and maintain a condition of pressure equilibrium after test pressure is reached.

§9.502. Markings and Inspection Requirements.

(a) Each LP-gas transport and each container delivery unit in LP-gas service shall be lettered with the name of the licensee or in the name of the ultimate consumer operating the unit. Such lettering shall be placed in accordance with the table in §9.502 of this title (relating to Markings and Inspection Requirements). The name shall be in legible letters not less than two inches in height in sharp color contrast to the background. NOTE: A final determination as to whether the name of such unit is sufficient to properly identify the name of the operator will be made by the director.

(b) Each LP-gas transport in LP-gas service shall be lettered "liquefied petroleum gas" with "propane" or "butane" as acceptable substitutes and shall be placed in accordance with the table in §9.502 of this title (relating to Markings and Inspection Requirements). Such lettering shall be in legible letters not less than two inches in height in sharp color contrast to the background.

(c) The month and year of the latest date(s) on which a retest was conducted as required by §9.501 of this title (relating to Testing Requirements) shall be legibly marked on the tank(s) in numerals not less than 1¼ inches in height and placed near the DOT specification plate.

(d) All markings required under this section must be maintained in good, legible condition and visible at all times.

(e) Where a transport unit is loaned or leased for a period of time not to exceed 30 days, the unit may have painted or permanently affixed thereon, in lieu of the name of the licensee operating the transport unit, the name of the owner of the transport unit in letters not less than two inches in height.

TABLE 9.502

Markings and Inspection Requirements

	Name of Licensee or Ultimate Consumer	Content		Re-test every ____ years	Visual Requalification every ____ years
	Both Sides or Rear	Both Sides	Rear		
Cylinder Delivery Units	X				
LP-Gas Transports	X	X	X	5	5

§9.503. Mounting of Transfer Equipment.

(a) Transfer equipment, including pumps or compressors, may be mounted on a cargo unit, but shall not be located forward of the cab. Transfer equipment must be either hydraulically driven, or must be powered by the engine (which does not include an auxiliary engine) to which it is attached.

(b) When flexible connectors are necessary, pumps shall be connected to the container(s) by means of an approved flexible wire braided reinforced hose connector.

(c) All flexible hose connector(s) shall be protected against abrasion or wear.

§9.504. Pressure Gauge.

Each cargo container must be equipped with a pressure gauge for LP-gas service which must be maintained in good operating condition at all times. The container opening for the pressure gauge must have an orifice no larger than .060 inch in diameter.

§9.505. Thermometers and Thermometer Wells Required. (Amended 11-90)

Each cargo container unit shall be equipped with a thermometer well that is threaded and filled **with an acceptable heat transfer meduim** to adequately determine the temperature of the product. A **readable** thermometer must be installed in the thermometer well at all times.

§9.506. Liquid or Vapor Discharge Openings. (Amended 11-90)

(a) Each liquid or vapor discharge opening (except safety relief valves and liquid gauging device openings) in an MC-330 /331 cargo container must be equipped with a remotely controlled internal shutoff valve. However, **on any liquid or vapor discharge opening of less than 1 1/4 inch National Pipe Thread (NPT), an excess flow valve together with a manually operated external valve may be used in place of a remotely controlled internal shutoff valve. The requirements of this subsection do not apply to** an engine fuel line on a truck-mounted container opening of not over 3/4 inch **NPT** equipped with a valve having an integral excess flow valve. **Any product inlet opening (i.e. sprayfill) must be equipped with a remotely controlled internal shutoff valve or back-pressure check valve.**

(b) Each remotely controlled internal valve must comply with the following requirements:

(1) The seat of the valve shall be inside the container, or in the nozzle opening or flange, or in a companion flange bolted to the nozzle or flange.

(2) All parts of the valve inside the container, nozzle, or companion flange shall be made of material not subject to corrosion or other deterioration due to the presence of the product.

(3) Parts shall be arranged so that the valve will be effectively seated in the event of damage to the parts exterior to the container.

(4) The valve shall be operated normally by mechanical means, by hydraulic means, by air, or by gas pressure.

(5) On a container over 3,500 gallons water capacity, each internal shutoff valve must be provided with remote means of automatic closure, both mechanical and thermal, that are installed at the ends of the container in at least two diagonally opposite locations. If the discharge connection at the container is not in the general vicinity of one of the two locations specified above, one additional fusible element must be installed so that heat from a fire in that area will activate the emergency control system. Fusible elements shall not have a melting point exceeding 250 degrees Fahrenheit.

(6) Each filling and discharge line must be provided with a manual shutoff valve located as close to the cargo container as practicable. However, when an internal shutoff valve that closes automatically is used, a manual shutoff valve must be located in the line ahead of the hose connection. The use of a so-called "stop-check" or excess flow valve is prohibited except as otherwise provided for in this section.

(7) On a container of 3,500 gallons water capacity or less, each internal shutoff valve shall be provided with at least one remote control station, and the actuating means may be mechanical. This station shall be at one end of the container, away from the discharge connection area.

§9.507. Protection Against Contamination. (Repealed 11-90)

§9.508. Rear Bumper Protection.

Each transport shall be provided with at least one rear bumper designed to protect the container(s), piping, and other LP-gas related appurtenances. The bumpers shall be designed to withstand the impact of the fully loaded vehicle with a deceleration of 2 "g" (i.e. two times the force of gravity), using a safety factor of four based on the ultimate strength of the bumper material.

§9.509. Safety Relief Devices.

Safety relief valves shall be of the spring-loaded full internal type and protected so that in the event of overturn of the vehicle onto a hard surface, their opening will not be prevented and their discharge will not be restricted. Such protection shall be designed, fabricated, repaired, and maintained to withstand static loading in any direction equal to twice the weight of the container and attachments when filled with product, using a safety factor of not less than four, based on the ultimate strength of the material to be used, without damage to the fittings protected, and must be made of metal at least 3/16 inch thick.

§9.510. Protection, Piping, Valves, and Fittings.

(a) All piping, valves, relief devices, and fittings shall be securely mounted and shall be protected against damage and breakage.

(b) All piping shall be a minimum of Schedule 80. Fittings shall be forged steel.

§9.511. Supports—120 Degree Arc Required.

Cargo containers must be supported by external cradles with pads, both of which are continuously welded and support at least 120 degrees of the shell circumference. The design calculations for the supports must include beam stress, shear stress, torsion stress, bending moment, and acceleration stress for the loaded vehicle as a unit, using a safety factor of four based on the ultimate strength of the material and on a two "g" longitudinal and lateral loading and three times the static weight in vertical loading.

§9.512. Painting.

(a) All cargo transport containers shall be painted white or aluminum. Undercarriage painting, if of contrasting color, shall not extend above the 120 degree support cradle.

(b) Insulated cargo containers equipped with either a stainless steel or aluminum outer shell or insulation cover, need not be painted.

§9.513. [RESERVED]

§9.514. Electrical Equipment and Lighting.

LP-gas transports and container delivery units shall not be equipped with an artifical light other than electrical. Lighting circuits shall have suitable overcurrent protection (fuses or automatic circuit breakers); the wiring shall have sufficient current carrying capacity and mechanical strength, and shall be secured, insulated, and protected against physical damage.

§9.515. Liquid Level Gauging Devices.

Each truck and trailer container shall be equipped with a liquid level gauging device of approved design, for example, a rotary gauge, or a fixed tube device. Fixed tube devices shall be so arranged that the maximum liquid level to which the container may be filled is set at the maximum permitted under the filling density table in §9.47 of this title (relating to Filling Density), but based on an initial liquid temperature not to exceed 40 degrees Fahrenheit. Liquid level gauging devices of the rotary tube type may be used without installation of an excess flow valve, provided the bleed valve opening is not larger than .060 inch in diameter. The container opening for the fixed liquid gauging device shall be restricted inside the container with an opening not larger than .060 inch in diameter. (Refer to §9.923 of this title (relating to Appendix C for Method of Calculating Length of Fixed Tube.))

§9.516. Exhaust System.

No part of the exhaust system on any LP-gas transport or container delivery unit shall be located less than six inches unless shielded from any piping, pump and/or compressor. The exhaust system discharge shall not impinge on the container(s), piping, or related appurtenances.

§9.517. Extinguishers Required.

(a) Each transport power unit shall be equipped with a fire extinguisher having an Underwriter's Laboratory (UL) rating of 10 B:C or more. Each fire extinguisher must be labeled or marked with its Underwriter's Laboratory rating.

(b) Fire extinguishers shall be fully charged and kept in good mechanical condition and located so as to be accessible for use. Fire extinguisher shall be mounted with a mounting bracket which will permit visual determination of being fully charged.

§9.518. Manifest.

All manifest or bills of lading shall indicate the amount and type of odorant per gross gallons, the vapor pressure of the product at 100 degrees Fahrenheit, the net gallons, the loading temperature, specific gravity at 60 degrees Fahrenheit, the type of product, and United Nations number with verification by the loading entity and loader. A copy of the manifest or bill of lading shall be left with the entity receiving the shipment. Exception: Excluding those loads covered by permanent shipping paper(s) authorized by the Department of Transportation.

§9.519. Transfer of Fuel on Highways, Streets, or Alleys.

Transferring LP-gas on highways, streets, or alleys, is prohibited except in an emergency or where such containers are on machinery being used for the construction or maintenance of such highways, streets or alleys.

§9.520. Parking of LP-Gas Transports and Container Delivery Units.

LP-gas transport or container delivery units (except in emergency) shall not be parked at night on any public street, highway, or alley. This does not prevent the driver from necessary absences from the vehicle in connection with normal duties, nor shall it prevent parking for meals and rest stops. Such units must not be parked in a congested area and must be parked a minimum distance of 50 feet from any building, except buildings devoted exclusively to the transaction of LP-gas business operations.

§9.521. Uniform Protection Standards.

(a) All LP-gas transport units and container delivery units (including appurtenances) shall be maintained in a safe operating condition at all times.

(b) Any transport unit or container delivery unit discovered to be in an unsafe condition while being operated on a public roadway may be continued in operation only to the nearest place where repairs can safely be made. Such operation shall be conducted only if it is less hazardous to the public than to permit the transport unit or container delivery unit to remain on the public roadway.

§9.522. Inspection of Cargo Containers.

Every cargo container shall receive an external visual inspection by division personnel at least once in evey four fiscal years. (September 1 - August 31).

§9.523. Delivery of Inspection Report to Licensee.

The transport driver of any transport unit receiving an inspection report from the commission shall deliver it to the licensee in whose name the transport unit is registered.

§9.524. Issuance of LPG Form 4 Decal. (Amended 11-90)

(a) An LPG Form 4 shall not be issued to any transport that has not been tested as required by §9.501 of

this title (relating to Testing Requirements) at least once in the preceding five years, and physically inspected by the division as required by §9.522 of this title (relating to Inspection of Cargo Containers). Example: An LP-gas transport registered as of September 1, 1988, shall be tested in accordance with §9.501 of this title (relating to Testing Requirements) and physically inspected in accordance with §9.522 of this title (relating to Inspection of Cargo Containers) by September 1, 1993, or an LPG Form 4 decal will not be issued until the requirements of this subsection have been met. An LPG Form 4 shall not be issued to any transport that has been determined as unsafe for LP-gas service by the division or a testing agency registered with this division in accordance with §9.501 of this title (relating to Testing Requirements).

(b) LPG Form 4, when issued by the director of the LP-Gas Division, Railroad Commission of Texas, and properly affixed in accordance with placement instructions, shall authorize the licensee or ultimate consumer to whom it has been issued and to no other person to operate such unit in the transportation of LP-gas and further shall authorize the filling of the cargo container(s).

(c) No person shall operate an LP-gas transport unit or container delivery unit in this state unless an LPG Form 4 authorizing its operation has been affixed in accordance with placement instructions or unless its operation has been specifically approved by a communication from the Railroad Commission of Texas.

(d) No person shall introduce LP-gas into a cargo container(s) unless an LPG Form 4 issued for that unit is properly affixed in accordance with placement instructions or unless specifically approved by a communication from the Railroad Commission of Texas.

(e) The LPG Form 4 is not transferrable by the person, firm, or corporation to whom it has been issued, but must be registered by any subsequent licensee or ultimate consumer prior to being placed into LP-gas service.

(f) This subsection shall not prevent a container manufacturer/fabricator from introducing a reasonable amount of LP-gas into a newly constructed container in order to properly test the vessel, piping system, and appurtenances prior to the initial sale of the container. The liquid LP-gas must be removed from the cargo container prior to the unit leaving the container manufacturer/fabricator premises.

(g) A maximum of 150 gallons of LP-gas can be introduced into a newly constructed cargo container, when such container will provide the motor fuel to the chassis engine for the purpose of providing sufficient fuel to allow the unit to reach its destination.

§9.525. Container Appurtenances and Related Equipment. (Amended 11-90)

(a) All transport containers shall be equipped with full baffles, adequate to prevent surging of container contents.

(b) Stops or other means must be provided to prevent relative motion between the container and the vehicle chassis when the vehicle is in operation.

(c) Cargo container(s) shall be mounted on vehicle frame with minimum grade of 8, 5/8 inch, hold down bolts. "U" or "J" bolts are prohibited.

(d) Acme-threaded adapters or hose couplings must be of brass material. **Extended type hose coupling (steel-aluminum construction) with a female acme connection of 1 3/4 inch or less are acceptable.**

(e) All transport trailers shall be of the fifth wheel type and shall be directly attached to the tractor; the towing of additional trailers is prohibited.

(f) Each cargo container constructed after June 1, 1989, shall meet the following requirements.

(1) The minimum gross vehicle weight (GVW) must be stamped in letters not less than 3/8 inches in height on the Department of Transportation specification plate by the cargo container manufacturer.

(2) The chassis manufacturer's stated gross vehicle weight rating (GVWR) shall not be exceeded.

(3) The completed delivery unit (with chassis mounted cargo container) must have a container length to container diameter ratio of 2.25 or greater to one.

Subchapter Z. APPENDICES

§9.921. APPENDIX A

§9.921. Spring Loaded Pressure Relief Valve(s) for Aboveground and Cargo Containers

MINIMUM REQUIRED RELIEVING CAPACITY IN CUBIC FEET PER MINUTE OF AIR AT 120% OF THE MAXIMUM PERMITTED START-TO-LEAK PRESSURE FOR RELIEF VALVES TO BE USED ON CONTAINERS OTHER THAN THOSE CONSTRUCTED IN ACCORDANCE WITH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.

Surface area = Total outside area of container in square feet.

When the surface area is not stamped on the nameplate or when the marking is not legible, the area can be calculated by using one of the following formulas:

(1) Cylindrical container with hemispherical heads: Surface area = Overall length × outside diameter × 3.1416.

(2) Cylindrical container with other than hemispherical heads: Surface area = (Overall length + 0.3 outside diameter) × outside diameter × 3.1416.

(3) Spherical container: Surface area = Outside diameter squared × 3.1416.

Flow rate CFM Air = Cubic Feet per minute of air required at standard conditions, 60° F. and atmospheric pressure (14.7 PSIA).

Surface Area Sq. Ft.	Flow Rate SCFM Air	Surface Area Sq. Ft.	Flow Rate SCFM Air	Surface Area Sq. Ft.	Flow Rate SCFM Air
20	626	170	3620	600	10170
25	751	175	3700	650	10860
30	872	180	3790	700	11550
35	990	185	3880	750	12220
40	1100	190	3960	800	12880
45	1220	195	4050	850	13540
50	1330	200	4130	900	14190
55	1430	210	4300	950	14830
60	1540	220	4470	1000	15470
65	1640	230	4630	1050	16100
70	1750	240	4800	1100	16720
75	1850	250	4960	1150	17350
80	1950	260	5130	1200	17960
85	2050	270	5290	1250	18570
90	2150	280	5450	1300	19180
95	2240	290	5610	1350	19780
100	2340	300	5760	1400	20380
105	2440	310	5920	1450	20980
110	2530	320	6080	1500	21570
115	2630	330	6230	1550	22160
120	2720	340	6390	1600	22740
125	2810	350	6540	1650	23320
130	2900	360	6690	1700	23900
135	2990	370	6840	1750	24470
140	3080	380	7000	1800	25050
145	3170	390	7150	1850	25620
150	3260	400	7300	1900	26180
155	3350	450	8040	1950	26750
160	3440	500	8760	2000	27310
165	3530	550			

The rate of discharge may be interpolated for intermediate values of surface area. For containers with total outside surface area greater than 2,000 sq. ft. the required flow rate can be calculated using the formula. Flow Rate CFM Air = $53.632 A^{0.82}$. Where A = total outside surface area of container in square feet.

Air Conversion Factors

(Factors by which discharge rates for LP-gas are to be multiplied in order to get corresponding discharge rates for air.)

Container Type					
100	125	150	175	200	250
1.162	1.142	1.113	1.078	1.010	1.010

§9.922. APPENDIX B

APPROXIMATE PROPERTIES OF LP-GASES

Vapor Pressure in psig at:	Commercial Propane	Commercial Butane
70°F	127	17
100°F	196	37
105°F	210	41
130°F	287	69
Specific Gravity of Liquid at 60°F	0.504	0.582
Initial Boiling Point at 14.7 psia, Degrees F	- 44	15
Weight per Gallon of Liquid, at 60°F, lb	4.20	4.81
Specific Heat of Liquid, Btu/lb at 60°F	0.630	0.549
Cu. ft. of Vapor per Gallon at 60°F	36.38	31.26
Cu. ft. of Vapor per Pound at 60°F	8.66	6.51
Specific Gravity of Vapor (Air = 1) at 60°F	1.50	2.01
Ignition Temperature in Air, Degrees °F	920–1120	900–1000
Maximum Flame Temperature in Air, Degrees °F	3,595	3,615
Limits of Flammability in Air Percent of Vapor in Air-Gas Mixture:		
(a) Lower	2.15	1.55
(b) Upper	9.60	8.60
Latent Heat of Vaporization at Boiling Point		
(a) Btu per pound	184	167
(b) Btu per gallon	773	808
Total Heating Values after Vaporization:		
(a) Btu per Cubic Foot	2,488	3,280
(b) Btu per Pound	21,548	21,221
(c) Btu per Gallon	90,502	102,032

§9.923. APPENDIX C

METHOD FOR CALCULATING LENGTH OF FIXED TUBES

1. Calculate the Maximum Volume, for which length fixed tubes shall be set by the following formula:

$$\frac{\text{Total Capacity of Container (Gals.)} \times \text{Filling Density}}{\text{Specific Gravity of L.P. Gas} \times \text{Volume Correction Factor} \times 100} = \text{Maximum Volume for which length that fixed tube shall be set.}$$

NOTE: Volume Correction Factor shall be based on the thermal coefficient of expansion of the liquefied petroleum gas from 40° F. for aboveground containers (or 50° F. for underground containers) to 60° F. (for example, propane with specific gravity of 0.510 has a Volume Correction Factor of 1.031 from 40° F. to 60° F). The following table gives representative Volume Correction Factors:

VOLUME CORRECTION FACTORS

Specific Gravity									
0.500	0.510	0.520	0.530	0.540	0.550	0.560	0.570	0.580	0.590
(Aboveground) From 40° F to 60° F									
1.034	1.031	1.028	1.026	1.025	1.023	1.021	1.020	1.019	1.018
(Underground) From 50° F to 60° F									
1.018	1.016	1.014	1.013	1.012	1.011	1.010	1.009	1.009	1.009

2. Calculate the length of the fixed tube so that when its lower end touches the surface of the liquid in the container, the contents of the container will be the Maximum Volume as determined by the formula above.

§9.924. APPENDIX D

LP-GAS CAPACITY OF CONTAINERS

The maximum LP-gas content of any container shall be that quantity which equals the maximum permitted filling density given in the Maximum Filling Density Chart in §9.47.

Filling density is defined as the ratio of the weight of LP-gas in a container to the weight of water at 60° F. that the container will hold.

The maximum liquid LP-gas content of any container depends upon the size of the container, whether it is installed aboveground or underground, the maximum permitted filling density and the temperature of the liquid (see Tables 2, 3, and 4).

The maximum volume "V_t" (in percent of container) capacity of LP-gas at temperature "t," having a specific gravity "G" and a filling density of "L," shall be computed by use of the following formula.

$$V_t = \frac{L}{G} \div F, \quad \text{or} \quad V_t = \frac{L}{G \times F} \quad \text{where:}$$

V = percent of container capacity which may be filled with liquid

L = filling density

G = specific gravity of particular LP-gas

F = correction factor to correct volume at temperature "t" to 60°F

EXAMPLE 1: The maximum liquid content, in percent of container capacity, for an aboveground 500 gallon water capacity container of an LP-gas having a specific gravity of 0.550 and at a liquid temperature of 45°F is computed as follows:

From the Maximum Permitted Filling Density Chart in §9.47 L = 0.47, and from Table 1 in Appendix D, °F = 1.019.

Thus $V_{45} = \frac{0.47}{0.550 \times 1.019} = 0.838$ (84%), or 415 gallons.

EXAMPLE 2: The maximum liquid content, in percent of container capacity, for an aboveground 30,000 gallon water capacity container of an LP-gas having a specific gravity of 0.508 and at a liquid temperature of 80°F is computed as follows:

From the Maximum Permitted Filling Density Chart in §9.47 L = 0.45 and from Table 1 in Appendix D, °F = 0.967.

Thus $V_{80} = \frac{0.45}{0.508 \times 0.967} = 0.915$ (91%), or 27,300 gallons.

APPENDIX D
TABLE 1
LIQUID VOLUME CORRECTION FACTOR

SPECIFIC GRAVITIES AT 60°F./60°F.

Observed Temperature Degrees Fahrenheit	0.500	Propane 0.5079	0.510	0.520	0.530	0.540	0.550	0.560	Iso-Butane 0.5631	0.570	0.580	Normal Butane 0.5844	0.590
	VOLUME CORRECTION FACTORS												
- 50	1.160	1.155	1.153	1.146	1.140	1.133	1.127	1.122	1.120	1.116	1.111	1.108	1.106
- 45	1.153	1.148	1.146	1.140	1.134	1.128	1.122	1.117	1.115	1.111	1.106	1.103	1.101
- 40	1.147	1.142	1.140	1.134	1.128	1.122	1.117	1.111	1.110	1.106	1.101	1.099	1.097
- 35	1.140	1.135	1.134	1.128	1.122	1.116	1.112	1.106	1.105	1.101	1.096	1.094	1.092
- 30	1.134	1.129	1.128	1.122	1.116	1.111	1.106	1.101	1.100	1.096	1.092	1.090	1.088
- 25	1.127	1.122	1.121	1.115	1.110	1.105	1.100	1.095	1.094	1.091	1.087	1.085	1.083
- 20	1.120	1.115	1.114	1.109	1.104	1.099	1.095	1.090	1.089	1.086	1.082	1.080	1.079
- 15	1.112	1.109	1.107	1.102	1.097	1.093	1.089	1.084	1.083	1.080	1.077	1.075	1.074
- 10	1.105	1.102	1.100	1.095	1.091	1.087	1.083	1.079	1.078	1.075	1.072	1.071	1.069
- 5	1.098	1.094	1.094	1.089	1.085	1.081	1.077	1.074	1.073	1.070	1.067	1.066	1.065
0	1.092	1.088	1.088	1.084	1.080	1.076	1.073	1.069	1.068	1.066	1.063	1.062	1.061
2	1.089	1.086	1.085	1.081	1.077	1.074	1.070	1.067	1.066	.064	1.061	1.060	1.059
4	1.086	1.080	1.080	1.076	1.072	1.069	1.065	1.062	1.061	1.059	1.057	1.055	1.054
6	1.084	1.080	1.080	1.076	1.072	1.069	1.065	1.062	1.061	1.059	1.057	1.055	1.054
8	1.081	1.078	1.077	1.074	1.070	1.066	1.063	1.060	1.059	1.057	1.055	1.053	1.052
10	1.078	1.075	1.074	1.071	1.067	1.064	1.061	1.058	1.057	1.055	1.053	1.051	1.050
12	1.075	1.072	1.071	1.068	1.064	1.061	1.059	1.056	1.055	1.053	1.051	1.049	1.048
14	1.072	1.070	1.069	1.066	1.062	1.059	1.056	1.053	1.053	1.051	1.049	1.047	1.046
16	1.070	1.067	1.066	1.063	1.060	1.056	1.054	1.051	1.050	1.048	1.046	1.045	1.044
18	1.067	1.065	1.064	1.061	1.057	1.054	1.051	1.049	1.048	1.046	1.044	1.043	1.020
20	1.064	1.062	1.061	1.058	1.054	1.051	1.049	1.046	1.044	1.044	1.042	1.041	1.040
22	1.061	1.059	1.058	1.055	1.052	1.049	1.046	1.044	1.044	1.042	1.040	1.039	1.038
24	1.058	1.056	1.055	1.052	1.049	1.046	1.044	1.042	1.042	1.040	1.038	1.037	1.036
26	1.055	1.053	1.052	1.049	1.047	1.044	1.042	1.039	1.039	1.037	1.036	1.036	1.034
28	1.052	1.050	1.049	1.047	1.044	1.041	1.039	1.037	1.037	1.035	1.034	1.034	1.032
30	1.049	1.046	1.044	1.044	1.041	1.039	1.037	1.035	1.035	1.033	1.032	1.032	1.030
32	1.046	1.044	1.043	1.041	1.038	1.036	1.035	1.033	1.033	1.031	1.030	1.030	1.028
34	1.043	1.041	1.040	1.038	1.036	1.034	1.032	1.021	1.020	1.029	1.028	1.028	1.026
36	1.039	1.038	1.037	1.035	1.033	1.031	1.030	1.028	1.028	1.027	1.025	1.025	1.024
38	1.036	1.035	1.034	1.032	1.031	1.029	1.027	1.026	1.025	1.025	1.023	1.023	1.022
40	1.033	1.032	1.031	1.029	1.028	1.026	1.025	1.024	1.023	1.021	1.021	1.037	1.020
42	1.030	1.029	1.028	1.027	1.025	1.024	1.023	1.022	1.021	1.021	1.019	1.019	1.018
44	1.027	1.026	1.025	1.023	1.022	1.021	1.020	1.019	1.019	1.018	1.017	1.017	1.016
46	1.023	1.022	1.022	1.021	1.020	1.018	1.018	1.017	1.016	1.016	1.015	1.015	1.014
48	1.020	1.019	1.019	1.018	1.017	1.016	1.015	1.014	1.014	1.013	1.013	1.013	1.012
50	1.017	1.016	1.016	1.015	1.014	1.013	1.013	1.012	1.012	1.011	1.011	1.011	1.010
52	1.014	1.013	1.012	1.012	1.011	1.010	1.010	1.009	1.009	1.009	1.009	1.009	1.008
54	1.010	1.010	1.009	1.009	1.008	1.008	1.007	1.007	1.007	1.007	1.006	1.006	1.006
56	1.007	1.007	1.006	1.006	1.005	1.005	1.005	1.005	1.005	1.005	1.004	1.004	1.004
58	1.003	1.003	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.002	1.002	1.002
60	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
62	0.997	0.997	0.997	0.997	0.997	0.997	0.997	0.998	0.998	0.998	0.998	0.998	0.998
64	0.993	0.993	0.994	0.994	0.994	0.994	0.995	0.995	0.995	0.995	0.996	0.996	0.996
66	0.990	0.990	0.990	0.990	0.991	0.992	0.992	0.993	0.993	0.993	0.993	0.993	0.993
68	0.986	0.986	0.987	0.987	0.988	0.989	0.990	0.990	0.990	0.990	0.991	0.991	0.991
70	0.983	0.983	0.984	0.984	0.985	0.986	0.987	0.988	0.988	0.988	0.989	0.989	0.989
72	0.979	0.980	0.981	0.981	0.982	0.983	0.984	0.985	0.986	0.986	0.987	0.987	0.987
74	0.976	0.976	0.977	0.978	0.980	0.980	0.982	0.983	0.983	0.984	0.985	0.985	0.985
76	0.972	0.973	0.974	0.975	0.977	0.978	0.979	0.980	0.981	0.981	0.982	0.982	0.983
78	0.969	0.970	0.970	0.972	0.974	0.975	0.977	0.978	0.978	0.979	0.980	0.980	0.981
80	0.965	0.967	0.967	0.969	0.971	0.972	0.974	0.975	0.976	0.977	0.978	0.978	0.979
82	0.961	0.963	0.963	0.966	0.968	0.969	0.971	0.972	0.973	0.974	0.976	0.976	0.977
84	0.957	0.959	0.960	0.962	0.965	0.966	0.968	0.970	0.971	0.972	0.974	0.974	0.975
86	0.954	0.956	0.956	0.959	0.961	0.964	0.966	0.967	0.968	0.969	0.971	0.971	0.972
88	0.950	0.952	0.953	0.955	0.958	0.961	0.963	0.965	0.966	0.967	0.969	0.969	0.970
90	0.946	0.949	0.949	0.952	0.955	0.958	0.960	0.962	0.963	0.964	0.967	0.967	0.968
92	0.942	0.945	0.946	0.949	0.952	0.955	0.957	0.959	0.960	0.962	0.964	0.965	0.966
94	0.938	0.941	0.942	0.946	0.949	0.952	0.954	0.957	0.958	0.959	0.962	0.962	0.964

(Continuation of Appendix D, Table 1)

96	0.935	0.938	0.939	0.942	0.946	0.949	0.952	0.954	0.955	0.957	0.959	0.960	0.961
98	0.931	0.934	0.935	0.939	0.943	0.946	0.949	0.952	0.953	0.954	0.957	0.957	0.959
100	0.927	0.930	0.932	0.936	0.940	0.943	0.946	0.949	0.950	0.952	0.954	0.955	0.957
105	0.917	0.920	0.923	0.927	0.931	0.935	0.939	0.943	0.943	0.946	0.949	0.949	0.951
110	0.907	0.911	0.913	0.918	0.923	0.927	0.932	0.936	0.937	0.939	0.943	0.944	0.946
115	0.897	0.902	0.904	0.909	0.915	0.920	0.925	0.930	0.930	0.933	0.937	0.938	0.940
120	0.887	0.892	0.894	0.900	0.907	0.912	0.918	0.923	0.924	0.927	0.931	0.932	0.934
125	0.876	0.881	0.884	0.890	0.898	0.903	0.909	0.916	0.916	0.920	0.925	0.927	0.928
130	0.865	0.871	0.873	0.880	0.888	0.895	0.901	0.908	0.909	0.913	0.918	0.921	0.923
135	0.854	0.861	0.863	0.871	0.879	0.887	0.894	0.901	0.902	0.907	0.912	0.914	0.916
140	0.842	0.850	0.852	0.861	0.870	0.879	0.886	0.893	0.895	0.900	0.905	0.907	0.910

APPENDIX D
TABLE 2
MAXIMUM PERMITTED LIQUID VOLUME
(PERCENT OF TOTAL WATER CAPACITY)

ABOVEGROUND CONTAINERS 0 TO 1,200 GALLONS

SPECIFIC GRAVITY

Liquid Temperature of	.496 to .503	.504 to .510	.511 to .519	.520 to .527	.528 to .536	.537 to .544	.545 to .552	.553 to .560	.561 to .568	.569 to .576	.577 to .584	.585 to .592	.593 to .600
- 50	70	71	72	73	74	75	75	76	77	78	79	79	80
- 45	71	72	73	73	74	75	76	77	77	78	79	80	80
- 40	71	72	73	74	75	75	76	77	78	79	79	80	81
- 35	71	72	73	74	75	76	77	77	78	79	80	80	81
- 30	72	73	74	75	76	76	77	78	78	79	80	81	81
- 25	72	73	74	75	76	77	77	78	79	80	80	81	82
- 20	73	74	75	76	76	77	78	79	79	80	81	81	82
- 15	73	74	75	76	77	77	78	79	80	80	81	82	83
- 10	74	75	76	76	77	78	79	79	80	81	81	82	83
- 5	74	75	76	77	78	78	79	80	80	81	82	82	83
0	75	76	76	77	78	79	79	80	81	81	82	83	84
5	75	76	77	78	78	79	80	81	81	82	83	83	84
10	76	77	77	78	79	80	80	81	82	82	83	84	84
15	76	77	78	79	80	80	81	81	82	83	83	84	85
20	77	78	78	79	80	80	81	82	83	84	84	84	85
25	77	78	79	80	80	81	82	82	83	84	84	85	85
30	78	79	79	80	81	81	82	83	83	84	85	85	86
35	78	79	80	81	81	82	83	83	84	85	85	86	86
40	79	80	81	81	82	82	83	84	84	85	86	86	87
45	80	80	81	82	82	83	84	84	85	85	86	87	87
50	80	81	82	82	83	83	84	85	85	86	86	97	88
55	81	82	82	83	84	84	85	85	86	86	87	87	88
60	82	82	83	84	84	85	85	86	86	87	87	88	88
65	82	83	84	848	5	85	86	86	87	87	88	88	89
70	83	84	84	85	85	86	86	87	87	88	88	89	89
75	84	85	85	85	86	86	87	87	88	88	89	89	90
80	85	85	86	86	87	87	87	88	88	89	89	90	90
85	85	86	87	87	88	88	88	89	89	89	90	90	91
90	86	87	87	88	88	88	89	89	90	90	90	91	91
95	87	88	88	88	89	89	89	90	90	91	91	91	91
100	88	89	89	89	89	90	90	90	91	91	92	92	92
105	89	89	90	90	90	90	91	91	91	92	92	92	93
110	90	90	91	91	91	91	92	92	92	92	93	93	93
115	91	91	92	92	92	92	92	92	93	93	93	94	94
120	92	92	93	93	93	93	93	93	93	94	94	94	94
125	93	94	94	94	94	94	94	94	94	94	94	95	95
130	94	95	95	95	95	95	95	95	95	95	95	95	95

APPENDIX D
TABLE 3
MAXIMUM PERMITTED LIQUID VOLUME
(PERCENT OF TOTAL WATER CAPACITY)

ABOVEGROUND CONTAINERS OVER 1,200 GALLONS

SPECIFIC GRAVITY

.496 to .503	.504 to .510	.511 to .519	.520 to .527	.528 to .536	.537 to .544	.545 to .552	.553 to .560	.561 to .568	.569 to .576	.577 to .584	.585 to .592	.593 to .600
75	76	77	78	79	80	80	81	82	83	83	84	85
76	77	78	78	79	80	81	81	82	83	84	84	85
76	77	78	79	80	80	81	82	83	83	84	85	85
77	78	78	79	80	81	82	82	83	84	84	85	86
77	78	79	80	80	81	82	83	83	84	85	85	86
78	79	79	80	81	82	82	83	84	84	85	86	86
78	79	80	81	81	82	83	83	84	85	85	86	87
79	79	80	81	82	82	83	84	85	85	86	87	87
79	80	81	82	82	83	84	84	85	86	86	87	87
80	81	81	82	83	83	84	85	85	86	87	87	88
80	81	82	82	83	84	84	85	86	86	87	88	88
81	82	82	83	84	84	85	86	86	87	87	88	88
81	82	83	83	84	85	85	86	87	87	88	88	89
82	83	83	84	85	85	86	87	87	88	88	89	90
82	83	84	85	85	86	86	87	88	88	89	89	90
83	84	84	85	86	86	87	88	88	89	89	90	90
83	84	85	86	86	87	87	88	89	89	90	90	91
84	85	86	86	87	87	88	89	89	90	90	91	91
85	86	86	87	87	88	88	89	90	90	91	91	92
85	86	87	87	88	88	89	89	90	91	91	92	92
86	87	87	88	88	89	90	90	91	91	92	92	93
87	88	88	89	89	90	90	91	91	92	92	92	93
88	88	89	89	90	90	91	91	92	92	93	93	93
88	89	90	90	91	91	91	92	92	93	93	93	94
89	90	90	91	91	91	92	92	93	93	94	94	94
90	91	91	91	92	92	92	93	93	94	94	94	95
91	91	92	92	92	93	93	93	94	94	95	95	95
92	92	93	93	93	93	94	94	95	95	95	96	96
93	93	93	94	94	94	95	95	95	95	96	96	96
94	94	94	95	95	95	95	96	96	96	96	97	97
94	95	95	95	95	96	96	96	96	97	97	97	98
96	96	96	96	96	97	97	97	97	97	98	98	98
97	97	97	97	97	97	97	98	98	98	98	98	99
98	98	98	98	98	98	98	98	98	99	99	99	99

APPENDIX D
TABLE 4
MAXIMUM PERMITTED LIQUID VOLUME
(PERCENT OF TOTAL WATER CAPACITY)

ALL UNDERGROUND CONTAINERS

SPECIFIC GRAVITY												
.496 to .503	.504 to .510	.511 to .519	.520 to .527	.528 to .536	.537 to .544	.545 to .552	.553 to .560	.561 to .568	.569 to .576	.577 to .584	.585 to .592	.593 to .600
77	78	79	80	80	81	83	83	83	84	85	85	86
77	78	79	80	81	82	82	83	84	84	85	86	87
78	79	80	81	81	82	83	83	84	85	86	86	87
78	79	80	81	82	82	83	84	85	85	86	87	87
79	80	81	81	82	83	84	84	85	86	86	87	88
79	80	81	82	83	83	84	85	85	86	87	87	88
80	81	82	82	83	84	84	85	86	86	87	88	89
80	81	82	83	84	84	85	86	86	87	87	88	89
81	82	83	83	84	85	85	86	87	87	88	88	89
81	82	83	84	84	85	86	86	87	88	88	89	89
82	83	84	84	85	85	86	87	87	88	89	89	90
82	83	84	85	85	86	87	87	88	88	89	90	90
83	84	85	85	86	86	87	88	88	89	90	90	91
84	84	85	86	86	87	88	88	89	89	90	91	91
84	85	86	86	87	88	88	89	89	90	90	91	91
85	86	86	87	87	88	89	89	90	90	91	91	92
85	86	87	87	88	89	89	90	90	91	91	92	92
86	87	87	88	88	89	90	90	91	91	92	92	93
87	87	88	88	89	90	90	91	91	92	92	93	93
87	88	89	89	90	90	91	91	92	92	93	93	94
88	89	89	90	90	91	91	92	92	93	93	94	94
89	89	90	91	91	91	92	92	93	93	94	94	95
90	90	91	91	92	92	92	93	93	94	94	95	95
90	91	91	92	92	93	93	94	94	94	95	95	96
91	91	92	93	93	93	94	94	94	95	95	96	96
92	93	93	93	94	94	94	95	95	95	96	96	97
93	93	94	94	94	95	95	95	96	96	96	97	97
94	94	95	95	95	95	96	96	96	97	97	97	97
95	95	95	95	96	96	96	97	97	97	98	98	98
96	96	96	96	97	97	97	97	98	98	98	98	98
97	97	97	97	97	98	98	98	98	99	99	99	99
98	98	98	98	98	98	99	99	99	99	99	99	99

§9.925. APPENDIX E

ALTERNATE PERMITTED MAXIMUM LIQUID VOLUMES IN PER CENT OF TOTAL CONTAINER CAPACITY, FOR FILLING CONTAINERS UP TO 1200 GALLONS TOTAL WATER CAPACITY AS SPECIFIED IN 9.47 (a).

MAXIMUM LIQUID VOLUME PER CENT

L.P. Gas	Aboveground Containers Liq. Temp. Assumed to be 40° F.	Underground Containers Liq. Temp. Assumed to be 50° F.
Propane (Approx. sp. gr. 0.51)	80	89
Mixtures (Approx. sp. gr. 0.55)	83	91
Butane (Approx. sp. gr. 0.58)	86	93

§9.926. APPENDIX F

METHOD OF CALCULATING MAXIMUM VOLUME OF LP-GAS WHICH CAN BE PLACED IN A CONTAINER FOR WHICH LENGTH OF FIXED DIP TUBE IS SET.

1. Formula for determining maximum volume of Liquefied Petroleum Gas for which a fixed length of dip tube shall be set.

$$\frac{\text{Water Cap. (Gals.) of Container (a)} \times \text{Filling Density(b)}}{\text{Sp. G. of LP-Gas (a)} \times \text{Volume Correction Factor (c)} \times 100} = \text{Maximum Volume of LP-Gas}$$

NOTE: (a) Measured at 60^0 F.

(b) From §9.47 "Filling Densities".

(c) For aboveground containers the liquid temperature is assumed to be 40° F. and for underground containers the liquid temperature is assumed to be 50° F. To correct the liquid volumes at these temperatures to 60° F. the following factors shall be used:

VOLUME CORRECTION FACTORS

Specific Gravity	Aboveground	Underground
0.500	1.033	1.107
.510	1.031	1.016
.520	1.029	1.015
.530	1.028	1.014
.540	1.026	1.013
.550	1.025	1.013
.560	1.024	1.012
.570	1.023	1.011
.580	1.021	1.011
.590	1.020	1.010

Example: Assume a 100 gallon total water capacity tank for aboveground storage of propane having a specific gravity of 0.510 at 60° F.

$$\frac{\text{100 (Gals)} \times 42 \text{ (Filling Density from 9.47)}}{\text{0.510} \times \text{1.031 (Correction Factor from Table in (1) above)} \times 100} = \frac{4{,}200}{52.6}$$

$= \frac{4{,}200}{52.6}$ 79.8 gallons propane, the maximum amount permitted in a 100 gallon total water capacity aboveground container equipped with a fixed dip tube.

2. The maximum volume of Liquefied Petroleum Gas which can be placed in a container when determining the length of the dip tube expressed as a percentage of total water content of the container is calculated by the following formula:

$$\frac{\text{Maximum Vol. of LP Gas (From Formula in (1) above)} \times 100}{\text{Total water content of container in gallons}} = \text{Maximum Per Cent of LP-Gas}$$

3. The maximum weight of Liquefied Petroleum Gas which may be placed in a container for determining the length of a fixed tube is determined by multiplying the maximum volume of liquefied petrolem gas obtained by the formula in (1) above by the pounds of liquefied petroleum gas in a gallon at 40° F. for aboveground and at 50° F. for underground containers. For example, typical pounds per gallon are specified below:

	Aboveground pounds per gallon	Underground pounds per gallon
C. Propane	4.20	4.31
C. Butane	4.81	4.92

§9.927. APPENDIX G

FLOW OF LP-GAS THROUGH FIXED ORIFICES

LP - Gases
(Btu per hour at sea level)

	COMMERCIAL PROPANE	COMMERCIAL BUTANE
Btu per Cubic Foot = ...	2,488	3,280
Specific Gravity = ...	1.50	2.01
Pressure at Orifice, Inches Water Column = ...	11	11
Orifice Coefficient = ...	0.9	0.9

For altitudes above 2,000 feet, first select the equivalent orifice size at sea level from Table B.
For Appendix G

TABLE A

Orifice or Drill Size	Propane	Butane or Butane-Propane Mixtures	Orifice or Drill Size	Propane	Butane or Butane-Propane Mixtures
.008	500	554	51	35,300	39,400
.009	641	709	50	38,500	42,800
.010	791	875	49	41,850	45,350
.011	951	1,053	48	45,450	50,300
.012	1,130	1,250	47	48,400	53,500
80	1,430	1,590	46	51,500	57,000
79	1,655	1,830	45	52,900	58,500
78	2,015	2,230	44	58,050	64,350
77	2,545	2,815	43	62,200	69,000
76	3,140	3,480	42	68,700	76,200
75	3,465	3,840	41	72,450	80,200
74	3,985	4,410	40	75,400	83,500
73	4,525	5,010	39	77,850	86,200
72	4,920	5,450	38	81,000	89,550
71	5,320	5,900	37	85,000	94,000
70	6,180	6,830	36	89,200	98,800
69	6,710	7,430	35	95,000	105,300
68	7,560	8,370	34	97,000	107,200
67	8,040	8,910	33	101,000	111,900
66	8,550	9,470	32	105,800	117,000
65	9,630	10,670	31	113,200	125,400
64	10,200	11,300	30	129,700	143,600
63	10,800	11,900	29	145,700	163,400
62	11,360	12,530	28	154,700	171,600
61	11,930	13,280	27	163,100	180,000
60	12,570	13,840	26	169,900	187,900
59	13,220	14,630	25	175,500	194,600
58	13,840	15,300	24	181,700	201,600
57	14,550	16,090	23	186,800	206,400
56	16,990	18,790	22	193,500	214,500
55	21,200	23,510	21	198,600	220,200
54	23,850	26,300	20	203,700	225,000
53	27,790	30,830	19	217,100	241,900
52	31,730	35,100	18	225,600	249,800

TABLE B

EQUIVALENT ORIFICE SIZES AT HIGH ALTITUDES

(Includes 4% input reduction for each 1,000 feet)

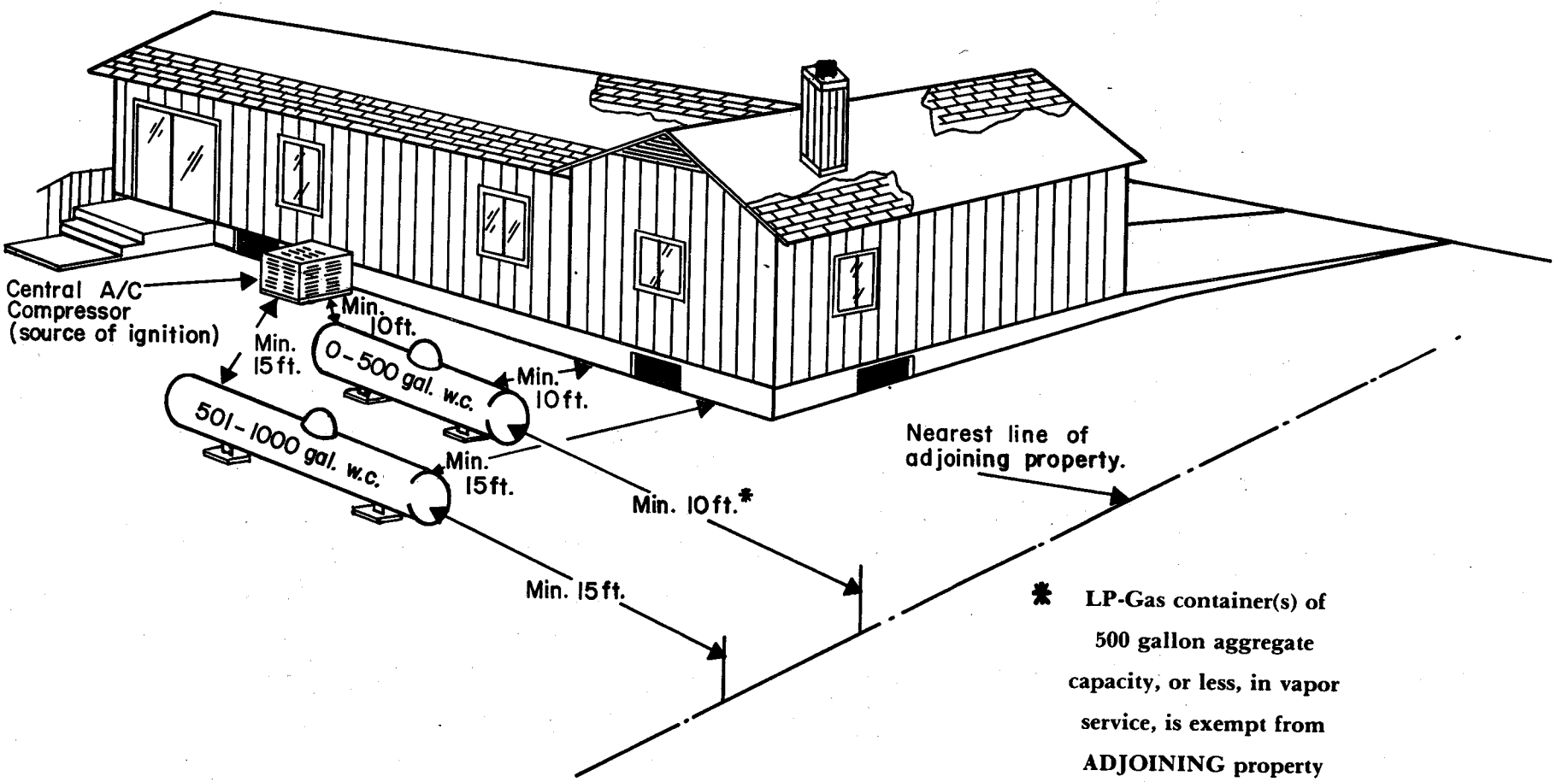
Orifice Size at Sea Level	Orifice Size Required at Other Elevations								
	2000	3000	4000	5000	6000	7000	8000	9000	10000
1	2	2	3	3	4	5	7	8	10
2	3	3	4	5	6	7	9	10	12
3	4	5	7	8	9	10	12	13	15
4	6	7	8	9	10	12	13	14	16
5	7	8	9	10	12	13	14	15	17
6	8	9	10	11	12	13	14	16	17
7	9	10	11	12	13	14	15	16	18
8	10	11	12	13	13	15	16	17	18
9	11	12	12	13	14	16	17	18	19
10	12	13	13	14	15	16	17	18	19
11	13	13	14	15	16	17	18	19	20
12	13	14	15	16	17	17	18	19	20
13	15	15	16	17	18	18	19	20	22
14	16	16	17	18	18	19	20	21	23
15	16	17	17	18	19	20	20	22	24
16	17	18	18	19	19	20	22	23	26
17	18	19	19	20	21	22	23	24	26
18	19	19	20	21	22	23	24	26	27
19	20	20	21	22	23	25	26	27	28
20	22	22	23	24	25	26	27	28	29
21	23	23	24	25	26	27	28	28	29
22	23	24	25	26	27	27	28	29	29
23	25	25	26	27	27	28	29	29	30
24	25	26	27	27	28	28	29	29	30
25	26	27	27	28	28	29	29	30	30
26	27	28	28	28	29	29	30	30	30
27	28	28	28	29	29	29	30	30	31
28	29	29	29	30	30	30	30	31	31
29	29	30	30	30	30	31	31	31	32
30	30	31	31	31	31	32	32	33	35
31	32	32	32	33	34	35	36	37	38
32	33	34	35	35	36	36	37	38	40
33	35	35	36	36	37	38	38	40	41
34	35	36	36	37	37	38	39	40	42
35	36	36	37	37	38	39	40	41	42
36	37	38	38	39	40	41	41	42	43
37	38	39	39	40	41	42	42	43	43
38	39	40	41	41	42	42	43	43	44
39	40	41	41	42	42	43	43	44	44
40	41	42	42	42	43	43	44	44	45

Orifice Size at Sea Level	Orifice Size Required at Other Elevations								
	2000	3000	4000	5000	6000	7000	8000	9000	10000
41	42	42	42	43	43	44	44	45	46
41	42	43	43	43	44	44	45	46	47
43	44	44	44	45	45	46	47	47	48
44	45	45	45	46	47	47	48	48	49
45	46	47	47	47	48	48	49	49	50
46	47	47	47	48	48	49	49	50	50
47	48	48	49	49	49	50	50	51	51
48	49	49	49	50	50	50	51	51	52
49	50	50	50	51	51	51	52	52	52
50	51	51	51	51	52	52	52	53	53
51	51	52	52	52	52	53	53	53	54
52	52	53	53	53	53	53	54	54	54
53	54	54	54	54	54	54	55	55	55
54	54	55	55	55	55	55	55	56	56
55	55	55	55	56	56	56	56	56	57
56	56	56	57	57	57	58	59	59	60
57	58	59	59	60	60	61	62	63	63
58	59	60	60	61	62	62	63	63	64
59	60	61	61	62	62	63	64	64	65
60	61	61	62	63	63	64	64	65	65
61	62	62	63	63	64	65	65	66	66
62	63	63	64	64	65	65	66	66	67
63	64	64	65	65	65	66	66	67	68
64	65	65	65	65	66	66	66	67	68
65	65	66	66	66	67	67	68	68	69
66	67	67	68	68	68	69	69	69	70
67	68	68	68	69	69	69	70	70	70
68	68	69	69	69	70	70	70	71	71
69	70	70	70	70	71	71	71	72	72
70	70	71	71	71	71	72	72	73	73
71	72	72	72	73	73	73	74	74	74
72	73	73	73	73	74	74	74	74	75
73	73	74	74	74	74	75	75	75	76
74	74	75	75	75	75	76	76	76	76
75	75	76	76	76	76	77	77	77	77
76	76	76	77	77	77	77	77	77	77
77	77	77	77	78	78	78	78	78	78
78	78	78	78	79	79	79	79	80	80
79	79	80	80	80	80	.013	.012	.012	.012
80	80	.013	.013	.013	.012	.012	.012	.012	.011

§9.928. APPENDIX H

Example Of Distance Requirements at Residence and Public Bldgs.

(This figure for illustative purposes only; text shall govern)



* LP-Gas container(s) of 500 gallon aggregate capacity, or less, in vapor service, is exempt from ADJOINING property line requirements.

ASME Containers

LAWS OF THE STATE OF TEXAS PERTAINING TO THE LIQUEFIED PETROLEUM GAS OPERATIONS IN TEXAS

Revised September 1989

NATURAL RESOURCES CODE

CHAPTER 113. LIQUEFIED PETROLEUM GAS INDUSTRY

(As Amended by H. B. 2008)

Subchapter A. GENERAL PROVISIONS

Section

(Sections 113.004-113.010 reserved for expansion)

Subchapter B. ADMINISTRATIVE PROVISIONS

(Sections 113.016-113.050 reserved for expansion)

Subchapter C. RULES AND STANDARDS

(Sections 13.054-113.080 reserved for expansion)

Subchapter D. LICENSING

(Sections 113.103-113.130 reserved for expansion)

Subchapter E. MOTOR VEHICLES AND TESTING LABORATORIES

(Sections 113.136-113.160 reserved for expansion)

Subchapter F. SUSPENSION AND REVOCATION OF LICENSES AND REGISTRATIONS

(Sections 113.165-113.200 reserved for expansion)

Subchapter G. FEES AND FUNDS

(Sections 113.202-113.230 reserved for expansion)

Subchapter H. ENFORCEMENT

H. B. NO. 4

Act repealing Subsections 3 through 19 of Section 1 of Senate Bill No. 269, Acts, 1945, Forty-ninth Legislature, page 629, Chapter 358, as amended by Senate Bill No. 256, Acts, 1949, Fifty-first Legislature, page 411, Chapter 220, as further amended by Senate Bill No. 143, Acts, 1951, Fifty-second Legislature, page 612, Chapter 363, also known as Article 6053 and 6052a of the Revised Civil Statutes of Texas; with savings clause as to pending proceedings or actions; establishing a comprehensive code regulating the liquefied petroleum gas industry; authorizing and directing the Railroad Commission of Texas to promulgate adequate rules, regulations and/or standards pertaining to said industry for the health, welfare and safety of the general public and authorizing it to adopt all or part of the codes of nationally recognized associations or societies in connection therewith; providing for the establishment of a Liquefied Petroleum Gas Division as a separate and distinct Division of the Railroad Commission of Texas for the administration and enforcement of this Act; directing the Railroad Commission of Texas to appoint a full time Director of such Division and providing for sufficient employees; requiring certain safeguards for motor vehicles with LPG facilities; requiring and assessing fees for licenses, permits and cards for persons, activities and objects covered by this Act; establishing categories of and assessing fees for LPG dealers; providing for publication of notice and quarterly public hearings on applications for licenses as an LPG dealer; prohibiting LPG dealers from hiring service, and/or installation men or delivery or transport truck drivers unless such person shall have passed an examination of his competency therefor with a temporary exemption for trainee employees for a forty-five day (45) day period, establishing a fee for such examinations; requiring the registration of delivery and transport trucks or other motor vehicles and establishing an annual fee therefor; providing for the proration of fees over a certain amount; providing for the disposition of funds for the administration and enforcement of this Act; authorizing the Commission to suspend or revoke any license, permit or registration for violation of or failure to comply with this Act; providing for notice by registered or certified mail to parties charged with a written complaint and requiring a public hearing thereon within ten (10) days and empowering the Director to conduct investigations, summon witnesses, to require production of books, documents and records, providing for the taking of depositions and the use of interrogatories and admissions; granting such party the right to be heard at such hearing; requiring written findings and judgment by the Commission after such hearing and requiring permanent public records to be kept thereof; authorizing the Commission to suspend for ninety (90) days or revoke the license, registration and/or permit of a party found guilty of such complaint; providing for an action for reinstatement thereof in a proper district court by way of a trial de novo and the stay of enforcement of such a judgment if timely appealed until final disposition thereof by such district court; prescribing the same procedure for the appeal of an order denying a license, registration, and/or permit; authorizing the Director to enjoin violations or failures to comply with this Act; requiring a surety bond and public liability, property damage and workmen's compensation and/or employer's liability insurance coverage for LPG dealers; prescribing penalties for the violation of this Act; providing for entry at reasonable times by authorized persons onto public or private premises of licensees under this Act and authorizing such person to declare same unsafe if not in compliance with this Act and to attach a warning tag to this effect thereon; constituting it a misdemeanor to remove such tags or to knowingly sell, furnish, deliver or supply LPG to any such container, tank, apparatus, system or equipment so tagged; defining certain terms; providing for the severability of any Section of this Act found to be void or unconstitutional; repealing all or part of laws in conflict with this Act; and declaring an emergency.

Vernon's Ann. Civ. St. Art. 6066d

SECTION 1. Chapter 113, Natural Resources Code, is amended to read as follows:

CHAPTER 113. LIQUEFIED PETROLEUM GAS

Subchapter A. GENERAL PROVISIONS

§113.001. Title.

This chapter may be cited as the Liquefied Petroleum Gas Code or LPG Code.

§113.002. Definitions.

In this chapter:

(1) "Commission" means the Railroad Commission of Texas.

(2) "Division" means the liquefied petroleum gas division of the commission.

(3) "Employee" means any individual who renders or performs any services or labor for compensation and includes individuals hired on a part-time or temporary basis or on a full-time or permanent basis including an owner-employee.

(4) "Liquefied petroleum gas," "LPG," or "LP-gas" means any material that is composed predominantly of any of the following hydrocarbons or mixtures of hydrocarbons: propane, propylene, normal butane, isobutane, and butylenes.

(5) "Container" means any receptacle designed for the transportation or storage of LPG or any receptacle designed for the purpose of receiving injections of LPG for use or consumption by or through an LPG system.

(6) "Appliance" means any apparatus or fixture that uses or consumes LPG furnished or supplied by an LPG system to which it is connected or attached.

(7) "LPG system" means all piping, fittings, valves, and equipment, excluding containers and appliances, that connect one or more containers to one or more appliances that use or consume LPG.

(8) "Transport system" means any and all piping, fittings, valves, and equipment on a transport, excluding the container.

(9) "Transfer system" means all piping, fittings, valves, and equipment utilized in dispensing LPG between containers.

(10) "Transport" means any bobtail or semitrailer equipped with one or more containers.

(11) "Subframing" means the attachment of supporting structural members to the pads of a container but does not include welding directly to or on the container.

(12) "Representative" means the individual designated to the commission by a license applicant or licensee as the principal person in authority and responsibility actively supervising the conduct of the licensee's LPG activities.

(13) "Person" means any individual, partnership, firm, corporation, association, or any other business entity.

(14) "Registrant" means any person exempt from the licensing requirements, as established by rule pursuant to Section 113.081 of this code, who is required to register with the commission, any person qualified by examination by the commission, or any person who applies for registration with the commission.

§113.003. Exceptions.

None of the provisions of this chapter apply to:

(1) the production, refining, or manufacture of LPG;

(2) the storage, sale, or transportation of LPG by pipeline or railroad tank car by a pipeline company, producer, refiner, or manufacturer;

(3) equipment used by a pipeline company, producer, refiner, or manufacturer in a producing, refining, or manufacturing process or in the storage, sale, or transportation by pipeline or railroad tank car;

(4) any deliveries of LPG to another person at the place of production, refining, or manufacturing; or

(5) underground storage facilities other than LP-gas containers designed for underground use.

(Sections 113.004-113.010 reserved for expansion)

Subchapter B. ADMINISTRATIVE PROVISIONS

§113.011. Liquefied Petroleum Gas Division.

There is created and organized a separate and distinct division of the commission known as the liquefied petroleum gas division or the LPG division.

§113.012. General Duties.

The LPG division shall administer and enforce the laws of this state and the rules and standards of the commission relating to liquefied petroleum gas.

§113.013. Director of LPG Division.

The commission shall appoint and employ a director of the LPG division, who shall serve at the pleasure of the commission and who shall devote full time and attention to administering the provisions of this chapter.

§113.014. Employees.

Sufficient employees shall be provided to the LPG division for the enforcement of this chapter.

§113.015. Funds for Financing LPG Division

The commission shall look only to the revenue derived from the operation of this chapter and appropriated by the legislature for expenses of conducting the liquefied petroleum gas division and administering this chapter.

[*Sections 113.016-113.050 reserved for expansion*]

Subchapter C. RULES AND STANDARDS

§113.051. Adoption of Rules and Standards.

Except as provided in Section 113.003 of this code, the commission shall promulgate and adopt rules or standards or both relating to any and all aspects or phases of the LPG industry that will protect or tend to protect the health, welfare, and safety of the general public.

§113.0511. Limitations on Rulemaking Authority.

(a) The commission may not adopt rules restricting competitive bidding or advertising by a person regulated by the commission except to prohibit false, misleading, or deceptive practices by the person.

(b) The commission may not include in any rules to prohibit false, misleading, or deceptive practices by a person regulated by the commission a rule that:

(1) restricts the person's use of any medium for advertising;

(2) restricts the person's personal appearance or use of his voice in an advertisement;

(3) relates to the size or duration of an advertisement by the person; or

(4) restricts the person's advertisement under a trade name.

§113.052. Adoption of National Codes.

The commission may adopt by reference, in whole or in part, the published codes of the National Board of Fire Underwriters, the National Fire Protection Association, the American Society for Mechanical Engineers, and other nationally recognized societies or any one or more of these codes as standards to be met in the design, construction, fabrication, assembly, installation, use, and maintenance of containers, tanks, appliances, systems, and equipment for the transportation, storage, delivery, use, and consumption of LPG or any one or more of these purposes.

§113.053. Effect on Certain Containers.

Rules, standards, and codes adopted pursuant to Sections 113.051 through 113.052 of this code do not apply to containers used in accordance with and subject to regulations of the United States Department of Transportation or to containers that are owned or used by the United States government.

[*Sections 113.054-113.080 reserved for expansion*]

Subchapter D. LICENSING

§113.081. License Requirement.

(a) Unless otherwise stated in this chapter, no person may engage in any of the following activities unless that person has obtained a license from the commission authorizing that activity:

(1) container activities: the manufacture, assembly, repair, sale, installation, or subframing of containers for use in this state, except that no license is required for the sale of a new container of 96 pounds water capacity or less;

(2)systems activities: the installation, service, and repair of systems for use in this state, including the laying or connecting of pipes and fittings connecting with or to systems or serving a system and appliances to be used with liquefied petroleum gas as a fuel;

(3) appliance activities: the service, installation, and repair of appliances used or to be used in this state in connection with systems using liquefied petroleum gas as a fuel, except that no license shall be required for installation or connection of unvented type appliances to LPG systems by means of LPG appliance connectors; or

(4) product activities: the sale, transportation, dispensation, or storage of liquefied petroleum gas in this state, except that no license shall be required to sell LPG where the vendor never obtains possessory rights to the product sold or where the product is transported or stored by the ultimate consumer for personal consumption only.

(b) The provisions of Subsection (a) of this section do not apply to LPG handled in a container of less than one gallon water capacity that is an integral part of a device for its use, nor to original and replacement containers for the device, nor to a person who is not engaged in business as provided in Section 113.082 of this code.

(c) A mobile home park operator will not be deemed to be a person engaged in business as provided in Section 113.082 of this code if such mobile home park operator obtains no possessory rights to LP-gas products, and utilizes only LP-gas licensees in the installation and maintenance of the LP-gas containers and system. For purposes of this subsection, the term "mobile home park operator" means an individual or business entity owning or operating a place, divided into sites, at which the primary business is the rental or leasing of the sites to persons for use in occupying mobile homes as dwellings. "Mobile home" has the meaning set out in the Texas Manufactured Housing Standards Act (Article 5221f, Vernon's Texas Civil Statutes).

(d) The commission by rule may exempt from Section 113.082(D) of this code journeymen or master plumbers licensed by the Texas State Board of Plumbing Examiners. A person exempted under this subsection remains subject to Sections 113.097, 113.098, and 113.099 of this code.

(e) The commission by rule may exempt from Section 113.082(D) of this code a person licensed under the Air Conditioning and Refrigeration Contractor License Law (Article 8861, Vernon's Texas Civil Statutes). A person exempted under this subsection remains subject to Sections 113.097, 113.098, and 113.099 of this code.

Historical Note - 1989 Legislation

The 1989 amendment added subsections (d) and (e).

§113.082. Categories of Licensee; Fees.

A prospective licensee in LPG may apply to the LPG division for a license to engage in any one or more of the following categories:

(A) manufacturers/fabricators: the manufacture, fabrication, assembly, repair, installation, subframing, and sale of LPG containers, including LPG motor fuel containers and systems, and the repair and installation of transport and transfer systems; the category "A" application and original license fee is an amount not to exceed $1,000 as determined by the commission; the annual renewal license fee is an amount not to exceed $600 as determined by the commission;

(B) transport outfitters: the subframing and sale of LPG transport containers, the installation and sale of LPG motor fuel containers, and the installation and repair of transport and motor fuel systems; the category "B" application and original license fee is an amount not to exceed $200 as determined by the commission; the annual renewal license fee is an amount not to exceed $100 as determined by the commission;

(C) carriers: the transportation of LPG by transport, including the loading and unloading of LPG, and the installation and repair of transport systems; the category "C" application and original license fee is an amount not to exceed $1,000 as determined by the commission; the annual renewal license fee is an amount not to exceed $300 as determined by the commission;

(D) general installers and repairmen: the sale, service, and installation of containers, excluding motor fuel containers, and the service, installation, and repair of piping, certain appliances as defined by rule, **exluding recreational vehicle appliances** and LPG systems, excluding motor fuel **and recreational vehicle** systems; the category "D" application and original license fee is an amount not to exceed $100 as determined by the commission; the annual renewal license fee is an amount not to exceed $70 as determined by the commission;

(E) retail and wholesale dealers: the storage, sale, transportation, and distribution of LPG at retail and wholesale, and all other activities included in this section except the manufacture, fabrication, assembly, repair, and subframing of LPG containers; the category "E" application and original license fee is an amount not to exceed $750 as determined by the commission; the annual renewal license fee is an amount not to exceed $300 as determined by the commission;

(F) cylinder exchanges: the operation of a cylinder-filling and container exchange dealership, including cylinder filling, the sale of LPG in cylinders, and the replacement of a cylinder valve; the category "F" application and original license fee is an amount not to exceed $100 as determined by the commission; the annual renewal license fee is an amount not to exceed $50 as determined by the commission;

(G) service station: the operation of an LPG service station filling ASME containers designed for motor and mobile fuel; the category "G" application and original license fee is an amount not to exceed $100 as determined by the commission; the annual renewal license fee is an amount not to exceed $50 as determined by the commission;

(H) cylinder dealers: the transportation and sale of LPG in cylinders; the category "H"

application and original license fee is an amount not to exceed $1,000 as determined by the commission; the annual renewal license fee is an amount not to exceed $300 as determined by the commission;

(I) service station and cylinder exchanges: any service station and cylinder activity set out in categories "F" and "G" of this section; the category "I" application and original license fee is an amount not to exceed $150 as determined by the commission; the annual renewal license fee is an amount not to exceed $70 as determined by the commission;

(J) service station and cylinder dealerships: the operation of a cylinder-filling and container-exchange dealership, including cylinder filling and the sale, transportation, installation, and connection of LPG in cylinders, and the replacement of cylinder valves, and the operation of an LPG service station as set out in category "G"; the category "J" application and original license fee is an amount not to exceed $1,000 as determined by the commission; the annual renewal license fee is an amount not to exceed $300 as determined by the commission;

(K) distribution system: the sale and distribution of LPG through mains or pipes and the installation and repair of LPG systems; the category "K" application and original license fee is an amount not to exceed $1,000 as determined by the commission; the annual renewal license fee is an amount not to exceed $300 as determined by the commission;

(L) carburetion: the sale and installation of LPG motor fuel containers, and the sale and installation of LPG motor fuel systems; application and original license fee is an amount not to exceed $100 as determined by the commission; annual renewal license fee is an amount not to exceed $50 as determined by the commission.

(M) recreational vehicle installers and repairmen: the sale, service, and installation of recreational vehicle containers, and the installation, repair, and service of recreational vehicle appliances, piping, and LPG systems, including recreational vehicle motor fuel systems and containers; the category "M" application and original license fee is an amount not to exceed $100 as determined by the commission; the annual renewal license fee is an amount not to exceed $70 as determined by the commission.

(N) manufactured housing installers and repairmen: the service and installation of containers that supply fuel to manufactured housing, and the installation, repair, and service of appliances and piping systems for manufactured housing; the category "N" application and original license fee is an amount not to exceed $100 as determined by the commission; the annual renewal license fee is an amount not to exceed $70 as determined by the commission.

Historical Note - 1989 Legislation

The 1989 amendment, in par. (D), inserted "excluding recreational vehicle appliances" and "and recreational vehicle"; and added pars. (M) and (N).

(Section 113.085-113.086 reserved for expansion)

§113.084. Application.

(a) An application for a license as a dealer in LPG shall be submitted to the commission on forms furnished by the commission or on a facsimile of those forms.

(b) A prospective licensee shall submit the required application together with the original nonrefundable license fee required by Section 113.082 of this code for each category for which a license application is made. The applicant shall submit additional information and data with each application as the commission may reasonably require.

(c) A licensee shall submit the nonrefundable renewal fee for each category for which license is sought along with information and data the commission may reasonably require.

(Section 113.085-113.086 reserved for expansion)

§113.087. Course of Instruction, Examination, and Seminar Requirements.
1987)

(a) The satisfactory completion of the requirements of this section is mandatory, and operations requiring an LP-gas license may not commence, continue, or resume unless examination and seminar requirements are fulfilled.

(b) Before license issuance, the commission shall require the individual designated as the licensee's representative to the commission to provide good and sufficient proof through examination prepared and administered by the commission of working knowledge of this chapter and rules of the commission which affect the category of license for which application is made. Thereafter, each licensee shall maintain a qualified representative at all times.

(c) Each individual who will be actively supervising those operations requiring any license under this chapter at any outlet or location, as designated by the commission, shall be required to provide good and sufficient proof through examination prepared and administered by the commission that the supervisor has a working knowledge of the safety requirements and penalties in this chapter and the rules of the commission which apply to that category of license.

(d) As determined by commission rule, each individual who is or will be utilized by a licensee **or a public employee of the state, the federal government, or a state or federal subdivision** in LPG-related activities shall be required to provide good and sufficient proof through examination prepared and administered by the commission that the employee has a working knowledge of the safety requirements in the rules of the commission relating to the activity or activities. Should the commission determine that an individual has a history of failure to comply with the requirements of this code or with the rules of the commission, the commission shall promptly mail written notification of failure to qualify for LP-gas employee certification and the reasons therefor to the registrant. Written notice by the commission, a written request for a hearing, and the public hearing itself shall be governed by Section 113.091 of this code.

(e) No licensee may employ or otherwise utilize any person as a representative to the commission, nor as a supervisor or employee in LPG-related activities, unless and until the person has qualified by satisfactory completion of the examination requirements established by this section.

(f) The commission shall promulgate rules relating to changes in representatives, supervisors, and employees, and may permit temporary exemption from the examination requirements for a maximum period of 45 days.

(g) In no event shall an original or renewal license be issued to an applicant whose listed representative has not maintained qualified status, as defined by rule, or to any person who has a history of failure to comply with the requirements of this code or with the rules of the commission. The commission shall have written notification of license denial and the reasons therefor prepared promptly and mailed to both the representative and the license applicant. Written notice by the commission, a written request for a hearing, and the public hearing itself shall be governed by Section 113.091 of this code.

(h) Satisfactory completion of any required examination under this section shall accrue to the individual.

(i) Not later than the 30th day on which an examination is administered under this section, the commission shall notify each examinee of the results of the examination. If the notice of the examination results will be delayed longer than 90 days after the examination date, the commission shall notify the examinee of the reason for the delay before the 90th day.

(j) If requested in writing by a person who fails the licensing examination administered under this section, the commission shall furnish the person with an analysis of the person's performance on the examination.

(k) The commission, by appropriate rule, may require, in addition to examination requirements as set out in Subsections (b), (c), and (d) of this section, attendance at approved academic, trade, professional, or commission-sponsored seminars, other continuing education programs, and periodic reexaminations.

l) Prior to qualifying an individual to perform LP-gas work, the commission may establish by rule an initial course of instruction for any person who has not yet passed the category of examination for which the person seeks qualification; for any person who has not maintained qualified status, as defined by rule; and for any person whose certification has been revoked pursuant to Subchapter F of this code. If an initial course of instruction is established by the commission, it shall be available at least once every 90 days.

Historical Note - 1989 Legislation

The 1989 amendment, in subsec. (d), inserted a reference to a public employee of the state, the federal government, or a state or federal subdivision.

§113.088. Examination; Seminar Fees.

(a) The commission shall establish reasonable examination, course of instruction, and seminar registration fees.

(b) Before seminar attendance or examination of any person, except as provided in Subsection (c) of this section, the commission shall receive a nonrefundable fee for each examination or seminar registration.

(c) The commission may exempt voluntary firemen, or public employees of the State of Texas, federal government, or state or federal subdivisions from **the examination fee, the examination renewal fee, and** seminar fees.

Historical Note - 1989 Legislation

The 1989 amendment, in subsec. (c), inserted "the examination fee, the examination renewal fee, and"

§113.089. Special Requirements for Licensing.

(a) If application is made for a license under category "E" of Section 113.082 of this code or any other category specified by commission rule, the commission, in addition to other requirements, shall have an actual inspection conducted of any and all facilities, bulk storage equipment, transportation equipment, and dispensing equipment of the applicant to verify satisfactory compliance with all current safety laws, rules, and practices.

(b) The inspection shall be performed before licensing, but in no event later than 15 days after the inspection is requested in writing by the applicant for license.

(c) A category "E" license and any other license specified by commission rule shall not be issued until the inspection under Subsection (a) of this section verifies the applicant to be in satisfactory compliance with all current safety laws, rules, and practices.

§113.090. Filing and Registration Fees.

(a) The commission by rule may establish reasonable fees for the examination of plans and specifications related to the installation of containers when plans and specifications are reviewed by the commission before such installation is placed into LP-gas service.

(b) The commission by rule may establish reasonable fees for recording the location of containers at public buildings and commercial installations when prior approval of plans and specifications is not required.

(c) The commission by rule may establish reasonable fees for any registration required under this code.

§113.091. License Denial.

(a)Should an applicant fail to meet the requirements for original or renewal licensing set out in this chapter, the commission shall have written notification prepared promptly and mailed to the applicant. The notice shall specify the reason for the applicant's failure to qualify for license and advise the applicant of the right to request a hearing.

(b) Within 30 days of the notice of denial, an applicant for license under this chapter who is denied a license may request a hearing to determine whether or not the applicant has complied in all respects with the licensing procedure applicable to the category or categories of license sought. The applicant's request for hearing must be in writing and delivered to the director of the LP-gas division.

(c) A hearing to determine an applicant's compliance with the licensing procedure applicable to the category or categories of license sought must be scheduled within 30 days following receipt of a request under Subsection (b) of this section.

(d) If the record made at the hearing supports the applicant's claim, the commission shall enter an order in its records to that effect, noting the category or categories for which the applicant is found entitled to be licensed, and the commission shall have the license or licenses issued. If the applicant is found unqualified, the commission shall likewise enter an order in its records to that effect, and no license may be issued to the applicant.

§113.092. License Issuance.

(a) The commission shall issue the appropriate license to an applicant who has satisfied the licensing procedures and requirements set out in this chapter and in the rules of the commission, except where a prior license has been revoked as provided for in Subsection (a) of Section 113.163 of this code.

(b) The license shall be issued in the name under which the applicant proposes to conduct business.

(c) The license shall belong to the applicant to which it is issued and shall be nontransferable.

§113.093. License Renewal.

(a) A license issued pursuant to this chapter is renewable on the timely payment or tender of the renewal license fee before the expiration date of the license each year.

(b) If a person's license has been expired for not longer than 90 days, the person may renew the license by paying to the commission the required renewal fee and a fee that is one-half of the amount of the renewal fee for the license.

(c) If a person's license has been expired for longer than 90 days but less than two years, the person may renew the license by paying to the commission all unpaid renewal fees and a fee that is equal to the amount of the unpaid renewal fees for the license.

(d) If a person's license has been expired for two years or longer, the person may not renew the license. The person may obtain a new license by complying with the requirements and procedures for obtaining an original license.

(e) A renewal license will be issued to a licensee as soon as is practicable after compliance with this section, and fulfillment of insurance, examination, and seminar requirements established by this chapter, and submission of any information and data the commission may reasonably require.

(f) Renewal license fees shall be nonrefundable.

(g) At least 30 days before the expiration of a person's license the commission shall notify the person in writing of the impending license expiration and shall attempt to obtain from the person a signed receipt confirming receipt of the notice.

§113.094. Staggered Renewal of Licenses.

The commission, by rule, may adopt a system under which licenses expire on various dates during the year. For the year in which the license expiration date is changed, license fees payable on a specified date shall be prorated on a monthly basis so that each licensee shall pay only that portion of the license fee that is allocable to the number of months during which the license is valid. On renewal of the license on the new expiration date, the total license fee is payable.

§113.095. License by Endorsement.

The commission may waive any license requirement for an applicant with a valid license from another state having license requirements substantially equivalent to those of this state.

(Section 113.096 reserved for expansion)

§113.097. Insurance Requirement.

(a) The commission shall not issue a license authorizing activities under Section 113.082 of this code or renew an existing license unless the applicant for license or license renewal provides proof of required insurance coverage with an insurance carrier authorized to do business in this state or, if the applicant is unable to obtain coverage from such a carrier, provides, on approval of the commission, proof of required insurance coverage issued by a surplus lines insurer that meets the requirements of Article 1.14-2 of this code* and rules adopted by the State Board of Insurance under that article.

(b) A licensee shall not perform any licensed activity under Section 113.082 of this code unless the insurance coverage required by this chapter is in effect.

(c) Except as provided in Section 113.099 of this code, the types and amounts of insurance provided in Subsections (d) through (g) of this section are required while engaged in any of the activities set forth in Section 113.082 of this code or any activity incidental thereto.

(d) A category "C," "E," "H," or "J" licensee must carry **motor vehicle** bodily injury and property damage liability coverage on each motor vehicle, including trailers and semitrailers, used to transport LP-gas. The commission shall establish by rule a reasonable amount of coverage to be maintained, except that coverage shall not be less than the amounts required as proof of financial responsibility under the Texas Motor Vehicle Safety-Responsibility Act, as amended (Article 6701h, Vernon's Texas Civil Statutes).

(e) All licensees must carry general liability coverage in a reasonable amount, based on the type or types of licensed activities, which shall be established by commission rule.

(f) All licensees must carry workers' compensation, including employer's liability coverage.

(g) A category "A," "C," or "E" licensee must carry completed operations and products liability insurance in a reasonable amount, based on the type or types of licensed activities, which shall be established by commission rule.

Historical Note - 1989 Legislation

The 1989 amendment, in subsec. (d), substituted "motor vehicle" for "automobile" before "bodily injury"

§113.098. Insurance Conditions.

(a) As evidence that required insurance has been secured and is in force, certificates of insurance which are approved by the division shall be filed with the division before licensing, license renewal, and during the entire period that the license is in effect. Any document filed with the division in a timely manner which is not completed in accordance with the instructions indicated on the insurance certificate forms supplied by the division, but which complies with the substantive requirements of this section and with the rules adopted under this section may be considered by the division to be evidence that required insurance has been secured and is in force for a temporary period not to exceed 45 days. During this temporary period, a licensee shall file with the division an amended certificate of insurance which complies with all procedural and substantive requirements of this section and the rules adopted hereunder.

(b) All certificates filed under this section shall be continuous in duration.

(c) Cancellation of a certificate of insurance becomes effective on the occurrence of any of the following events and not before:

* In reviewing the legislation, it appears the wording "this code" should have been "Insurance Code". REFERENCE: S.B. 292 passed by the 70th Texas Legislature.

(1) division receipt of written notice stating the insurer's intent to cancel a policy of insurance and the passage of time equivalent to the notice period required by law to be given the insured before the insurance cancellation;

(2) receipt by the division of an acceptable replacement insurance certificate;

(3) voluntary surrender of a license and the rights and privileges conferred by the license; or

(4) division receipt of a statement made by a licensee stating that the licensee is not actively engaging in any operations which require a particular type of insurance and will not engage in those operations unless and until all certificates of required insurance applicable to those operations are filed with the division.

(d) Cancellation under subsection (c) of this section shall not become effective until approved by the commission.

§113.099. Statements in Lieu of Insurance Certificates.

(a) A category "C," "E," "H," or "J" licensee or applicant for license that does not operate or contemplate the operation of a motor vehicle equipped with an LP-gas cargo tank and does not transport or contemplate the transportation of LP-gas by vehicle in any manner, may make and file with the division a statement to that effect in lieu of filing a certificate of automobile bodily injury and property damage insurance.

(b) A licensee or applicant for a license that does not engage in or contemplate engaging in any operations which would be covered by general liability insurance for a period of time may make and file with the division a statement to that effect in lieu of filing a certificate of general liability insurance.

(c) A licensee or applicant for license that does not employ or contemplate the hiring of an employee or employees to be engaged in LPG-related activities **in this state** may make and file with the division a statement to that effect in lieu of filing a certificate of workers' compensation insurance including employer's liability insurance.

(d) A category "A," "C," or "E" licensee or applicant for a license that does not engage in or contemplate engaging in any LP-gas operations which would be covered by completed operations and products liability for a period of time may make and file with the division a statement to that effect in lieu of filing a certificate of completed operations and products liability insurance.

(e) Any statement filed pursuant to Subsections (a) through (d) of this section must further state that the licensee or applicant agrees to file a certificate of insurance evidencing appropriate coverage before engaging in any activities that require insurance coverage under this subchapter.

Historical Note - 1989 Legislation
The 1989 amendment, in subsec. (c), inserted "in this state".

(Sections 113.100 and 113.101 reserved for expansion)

§113.102. Prior Licenses.

(a) Except as provided in Subsection (c) of this section, all prior LP-gas licenses authorizing activities previously defined by this chapter as categories 1 through 12 shall, on an applicant's compliance with the renewal procedure set out in this chapter, be converted to a license identified by category letter as specified in Subsection (b) of this section.

(b) A category "1" license shall become a category "A" license, and a category "4" shall become a category "C"; a "5," a "D"; a "6," an "E"; an "8," an "F"; a "9," a "G"; a "10," a "K"; an "11," an "H"; an "8," and "9," an "I"; an "8," "9," "11," and "12," a "J"; and an "8," "9," "11," and "5," a "J"; a "7," an "L", as those letter categories are defined in Section 113.082 of this code.

(c) Previously issued licenses designated as authorizing category "2" or "3" activities shall expire.

(Sections 113.103-113.130 reserved for expansion)

Subchapter E. MOTOR VEHICLES AND TESTING LABORATORIES

§113.131. Transport Trucks and Trailers.

(a) Each transport truck, trailer, or other motor vehicle equipped with an LPG cargo tank and each truck used principally for transporting LPG in portable containers shall be registered with the commission.

(b) A licensee who has purchased, leased, or obtained other rights to use any unit described in Subsection (a) of this section shall register that unit in the name or names under which the licensee conducts business before the transportation of LPG by means of that unit.

(c) An ultimate consumer of LPG who has purchased, leased, or obtained other rights to use any unit described in Subsection (a) of this section shall register that unit in the person's name before the transportation of LPG by means of that unit on public roads or highways.

(d) The **nonrefundable** registration fee for each unit is $150 a year for any LPG cargo trailer or semitrailer and $100 a year for any bobtail or cylinder-delivery unit.

(e) Any unit registered pursuant to this section shall be covered by **motor vehicle** bodily injury and property damage liability insurance as prescribed by Section 113.097 of this code.

(f) Any delivery or transport driver shall meet the applicable examination and seminar requirements set out in Section 113.087 of this code.

Historical Note - 1989

The 1989 amendment, in subsec. (d), inserted "nonrefundable"; and in subsec. (e) substituted "motor vehicle" for "automobile".

(Section 113.132 reserved for expansion)

§113.133. Motor Carrier Laws.

No provision of this chapter shall be construed to modify, amend, or revoke any motor carrier law of this state.

§113.134. Department of Public Safety.

The Department of Public Safety shall cooperate with the commission in the administration and enforcement of this chapter and the rules promulgated under this chapter to the extent that they are applicable to motor vehicles.

§113.135. Testing Laboratories.

(a) Any person that proposes to test any container for the purpose of determining the safety of the container for LP-gas service shall apply for registration with the commission and provide any information the commission shall reasonably require. The commission shall not issue a registration authorizing activities under this section until the registrant has complied with the insurance requirements pertaining to a category "A" licensee as set out in Sections 113.097 and 113.099 of this code except that no products liability insurance is required. All certificates of insurance filed under this section are subject to the insurance conditions as set out in Section 113.098 of this code. When the terms "licensee," "license," "license renewal," and "entire period that license is in effect" are used in Sections 113.097, 113.098, and 113.099 of this code, they will, for the purpose of this section mean: registrant, registration, registration renewal, and entire period that registration is in effect.

(b) The commission shall determine the sufficiency of the application and shall act on each application

by approving or denying the registration pursuant to the standards set out in Subsections (c) and (d) of this section.

(c) Should it appear to the commission that an applicant is unqualified to conduct or continue to conduct container testings with the expertise or thoroughness necessary to accurately determine the safety of a container for LP-gas service, a formal hearing shall be held following notice of the hearing, and a determination of the qualifications of the applicant or registrant shall be made.

(d) Should competent evidence presented at the hearing establish that the applicant or registrant is unqualified to determine the safety of a container for LP-gas service, the registration of that person shall be denied or revoked.

(Sections 113.136 - 113.160 reserved for expansion)

Subchapter F. SUSPENSION AND REVOCATION OF LICENSES AND REGISTRATIONS

§113.161. Violations of Chapter or Rules; Informal Actions.

(a) The commission shall notify a licensee or registrant in writing when it finds probable violation or noncompliance with this chapter or the safety rules promulgated under this chapter.

(b) The notification shall specify the particular acts, omissions, or conduct comprising the alleged violation and shall designate a date by which the violation must be corrected or discontinued.

(c) The licensee or registrant shall report timely compliance or shall request extension of time for compliance if deemed necessary.

(d) If a licensee or registrant objects to the complaint or requirements under this section, or if the commission determines that the licensee or registrant is not proceeding adequately to compliance, then, on written request of the licensee or registrant or order of the commission, a public hearing shall be conducted as provided in Section 113.162 of this code.

(e) If the commission or division determines that the probable violation or noncompliance constitutes an immediate danger to the public health, safety, and welfare, it shall require the immediate cessation of the probable violation or noncompliance and proceed with a hearing as provided in Section 113.162 of this code.

§113.162. Hearings.

Any hearing or proceeding under this chapter shall be subject to the provisions of the Administrative Procedure and Texas Register Act.

§113.163. Findings and Judgment.

(a)If the commission finds that the licensee or registrant has violated or failed to comply with or is violating or failing to comply with this chapter or a rule or standard promulgated and adopted under this chapter, or both, the commission may suspend the license or registration for a definite period not to exceed 90 days or may revoke the license or registration. If the commission determines that no violation has occurred or is occurring, its order shall so state. Whenever a license or registration is revoked by order of the commission, a new license or registration shall not be issued for at least 90 days from the effective date of the order. Such time period shall be stated in the order.

(b) The commission may place on probation a person whose license or registration has been suspended under Subsection (a) of this section for a definite period not to exceed one year, but if the commission does place the licensee or registrant on probation and does allow him to continue to operate, the fact that the license or registration has been suspended and the licensee or registrant has been put on probation shall appear in the records of the commission relating to the suspension and probation.

§113.164. Appeal.

Any party to a proceeding before the commission is entitled to judicial review under the substantial evidence rule.

(Sections 113.165-113.200 reserved for expansion)

Subchapter G. FEES AND FUNDS

§113.201. Deposit and Expenditure of Fees and Funds.

Money received by the commission under this chapter shall be deposited in the state treasury to the credit of the General Revenue Fund and spent in accordance with the appropriations made by law.

(Sections 113.202-113.230 reserved for expansion)

Subchapter H. ENFORCEMENT

§113.231. Injunctions.

(a) On request of the commission, the attorney general may bring an action in the name and on behalf of the state to enjoin a person from committing any act that violates or does not comply with any provision of this chapter or of any rule promulgated under this chapter.

(b) A suit for injunction instituted pursuant to Subsection (a) of this section shall be in addition to any other remedies at law or in equity.

(c) A district court of any county in which it is shown that all or part of the acts have been or are about to be committed has jurisdiction of an action brought under Subsection (a) of this section.

(d) No bond for injunction may be required of the commission or the attorney general in relation to a proceeding instituted pursuant to Subsection (a) of this section.

§113.232. General Penalty.

(a) In addition to injunctive relief and other penalties provided in this chapter, a person who knowingly violates or fails to comply with this chapter or rules adopted under this chapter is guilty of a Class C misdemeanor and is punishable by a fine of not less than $100 nor more than the maximum fine as set out in Section 12.23 of the Penal Code.

(b) A person previously convicted under Subsection (a) of this section who knowingly violates or fails to comply with this chapter is guilty of a Class A misdemeanor punishable by a fine of not less than the maximum fine allowed by law for a Class C misdemeanor, nor more than the maximum fine as set out in Section 12.21 of the Penal Code.

(c) A penalty prescribed by this section is in addition to injunctive relief and other penalties provided by this chapter.

(d) Each day the violation or failure to comply continues constitutes a separate offense.

§113.233. Entry for Inspection and Investigation.

(a) An inspector, employee, or agent of the commission may enter the premises of a licensee under this chapter or any building or other premises open to the public at any reasonable time for the purpose of determining and verifying compliance with this chapter and the safety rules of the commission. This same authority shall extend to private property with the permission of the owner of such private property or an authorized agent of the owner.

(b) Any authorized representative of the LP-Gas Division may enter any buildings or premises where an accident has occurred in which LP-gas was a probable cause for purposes of investigating the cause, origin, and circumstances of such accident. The LP-Gas Division may request that any state or local

authority having jurisdiction take appropriate action, to the extent permitted by law, as may be necessary for preservation of property and premises.

§113.234. Warning Tag.

An inspector, employee, or agent of the commission may declare any container, appliance, equipment, transport, system, or LP-gas operation that does not conform to the safety requirements of this chapter or rules adopted under this chapter, or which is otherwise defective, as unsafe or dangerous for LP-gas service and shall attach a warning tag in a conspicuous location.

§113.235. Supplying or Removing LPG After Warning Tag Attached.

(a) Any person who knowingly sells, furnishes, delivers, or supplies LPG for storage in or use or consumption by or through a container, appliance, transport, or system to which a warning tag is attached is guilty of a misdemeanor and on conviction is punishable by a fine of not less than $50 and not more than $2,000.

(b) LP-gas shall be removed from a container to which a warning tag is attached only under the direction of the commission.

§113.236. Penalty for Unauthorized Removal of Tag.

An unauthorized person who knowingly removes, destroys, or in any way obliterates a warning tag attached to a container, appliance, transport, or system is guilty of a misdemeanor and on conviction is punishable by a fine of not less than $50 and not more than $2,000.

TEX. REV. CIV. STAT. ART. 6053. REGULATION OF UTILITIES.

SECTION 1. *(This Section not reprinted as it pertains exclusively to Natural Gas Operations.)*

Malodorants, investigation and regulation

SECTION 2. In addition to the duties and powers of the Commission hereinabove set forth, it is empowered and it shall be its duty to investigate the use of malodorants by persons, firms, or corporations engaged in the business of handling, storing, selling, or distributing natural and liquefied petroleum gases, including butane and other odorless gases, for private or commercial uses, or supplying the same by pipe lines or otherwise, to any public building or buildings, or to the general public, and the Commission is empowered to require such persons, firms, or corporations to odorize such gas by the use of a malodorant agent of such character as to indicate by a distinctive odor the presence of gas; such malodorant agent so required to be used, however, shall be non-toxic and non-corrosive and not harmful

to leather diaphrams in gas equipment, the method of its use and containers and equipment to be used in connection therewith to be under the direction of and as approved by the Railroad Commission of Texas; the Commission having full power and authority to prescribe such rules and regulations as in its wisdom may be deemed necessary to carry out the purposes of this Act. Nothing herein contained shall apply to gas transported out of the State of Texas.

As amended Acts 1939, 46th Leg., p. 501, §1.

CHAPTER 81. RAILROAD COMMISSION OF TEXAS

Subchapter C. JURISDICTION, POWERS, AND DUTIES

Section

[Sections 81.055 to 81.090 reserved for expansion]

CHAPTER 81. RAILROAD COMMISSION OF TEXAS

Subchapter C. JURISDICTION, POWERS, AND DUTIES

§81.053. Commission Powers.

In the discharge of its duties and the enforcement of its jurisdiction under this title, the Commission shall:

(1) institute suits;

(2) hear and determine complaints;

(3) require the attendance of witnesses and pay their expenses out of funds provided for that purpose;

(4) obtain the issuance of writs and process which may be necessary for the enforcement of its orders; and

(5) punish for contempt or disobedience of its orders in the manner provided for the district courts.

§81.0531. Administrative Penalty.

(a) If a person violates provisions of this title which pertain to safety or the prevention or control of pollution or the provisions of a rule, order, license, permit, or certificate which pertain to safety or the prevention or control of pollution and are issued under this title, the person may be assessed a civil penalty by the Commission.

(b) The penalty may not exceed $10,000 a day for each violation. Each day a violation continues may be considered a separate violation for purposes of penalty assessments.

(c) In determining the amount of the penalty, the Commission shall consider the permittee's history of previous violations, the seriousness of the violation, any hazard to the health or safety of the public, and the demonstrated good faith of the person charged.

Added by Acts 1983, 68th Leg., p. 1407, ch. 286, §1, eff. Sept. 1, 1983.

§81.0532. Penalty Assessment Procedure.

(a) A civil penalty may be assessed only after the person charged with a violation described under Section 81.0531 of this code has been given an opportunity for a public hearing.

(b) If a public hearing has been held, the Commission shall make findings of fact, and it shall issue a written decision as to the occurrence of the violation and the amount of the penalty that is warranted, incorporating, when appropriate, an order requiring that the penalty be paid.

(c) If appropriate, the Commission shall consolidate the hearings with other proceedings.

(d) If the person charged with the violation fails to avail himself of the opportunity for a public hearing, a civil penalty may be assessed by the Commission after it has determined that a violation did occur and the amount of the penalty that is warranted.

(e) The Commission shall then issue an order requiring that the penalty be paid.

Added by Acts 1983, 68th Leg., p. 1407, ch. 286, §1, eff. Sept. 1, 1983.

§81.0533. Payment of Penalty; Refund.

(a) On the issuance of an order finding that a violation has occurred, the Commission shall inform the person charged within 30 days of the amount of the penalty.

(b) Within the 30-day period immediately following the day on which the decision or order is final as

provided in Section 16(c), Administrative Procedure and *Texas Register Act* (Article 6252-13a, Vernon's Texas Civil Statutes), the person charged with the penalty shall:

(1) pay the penalty in full; or

(2) if the person seeks judicial review of either the amount of the penalty or the fact of the violation, or both:

(A) forward the amount to the Commission for placement in an escrow account; or

(B) in lieu of payment into escrow, post with the Commission a supersedeas bond in a form approved by the Commission for the amount of the penalty, such bond to be effective until all judicial review of the order or decision is final.

(c) If through judicial review of the decision or order it is determined that no violation occurred or that the amount of the penalty should be reduced or not assessed, the Commission shall, within the 30-day period immediately following that determination, if the penalty has been paid to the Commission, remit the appropriate amount to the person, with accrued interest, or where a supersedeas bond has been posted, the Commission shall execute a release of such bond.

(d) Failure to forward the money to the Commission within the time provided by Subsection (b) of this section results in a waiver of all legal rights to contest the violation or the amount of the penalty.

(e) Judicial review of the order or decision of the Commission assessing the penalty shall be under the substantial evidence rule and shall be instituted by filing a petition with the district court of Travis County, Texas, and not elsewhere, as provided for in Section 19, Administrative Procedure and *Texas Register Act* (Article 6252-13a, Vernon's Texas Civil Statutes).

Added by Acts 1983, 68th Leg., p. 1407, ch. 286, §1, eff. Sept. 1, 1983.

§81.0534. Recovery of Penalty.

Civil penalties owed under Sections 81.0531-81.0533 of this code may be recovered in a civil action brought by the Attorney General at the request of the Commission.

Added by Acts 1983, 68th Leg., p. 1407, ch. 286, §1, eff. Sept 1, 1983

§81.054. Enforcement by Attorney General.

The Attorney General shall enforce the provisions of this title by injunction or other adequate remedy and as otherwise provided by law.

[Sections 81.055 to 81.090 reserved for expansion]

LP-Gas Forms

LICENSE NO. _____

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

APPLICATION FOR LICENSE

NOTICE: ALL LICENSES MUST BE RENEWED ON AN ANNUAL BASIS. NO PERSON MAY CONDUCT LP-GAS RELATED ACTIVITIES COVERED BY THE TEXAS NATURAL RESOURCES CODE, CHAPTER 113, UNTIL AN APPROPRIATE LICENSE IS ISSUED.

Please type or print in black ink as all documents are microfilmed.

Applicant's Name:

(1) Co. Name _____

DBA _____ DBA _____

DBA _____ DBA _____

DBA _____ DBA _____

Official Communications:

(2) _____ Contact Person (3) _____ (A/C) Phone (4) _____ County

(5) _____ Applicant's Address (6) _____ City (7) _____ State (8) _____ Zip

Applicant is a (9)

Check Appropriate Box

- ☐ Sole Proprietor
- ☐ Partnership
- ☐ Corporation, which is incorporated under the laws of the State of (10) _____. If other than Texas, is the corporation registered with the Secretary of State and authorized to do business in Texas? (11) _____
- ☐ Other (specify type) _____

(12) List owner of sole proprietorship, partners in partnership, or officers of corporation.

Name	Capacity	Address	Zip

(13) **Category of license** under which business is to be conducted: _____

(14) **Company Representative:** Any individual of the company who is directly responsible for and actively supervising the LP-gas operations passed the examination for license:

Name	Social Security Number	Phone

Return to:
Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 1
Revised 12/90

RRC USE ONLY
Register No. _____
Amt. _____ Type _____
Approved _____ Date _____

(COMPLETE BACK SIDE)

X-2

Please answer each of the following by checking either the "yes" or "no" blanks as they pertain to your company's operations.

NOTE: ALL QUESTIONS BELOW MUST BE ANSWERED AND FORMS ATTACHED WHERE REQUIRED.

(15) **Branch Manager: Does your company have a branch office?**

Yes ☐ Form **1A** must be completed

No ☐ No form required.

(16) **Truck Registration: Does your company operate any LPG bobtails, transports, or cylinder delivery trucks?**

Yes ☐ Form **7** must be completed.

No ☐ No form required.

(17) **Storage Container(s): Does your company have any LPG bulk storage containers, cylinder filling plants, or service station containers?**

Yes ☐ Form **19** must be completed.

No ☐ No form required.

Franchise Tax Certification. All corporations applying for an original or renewal license must file LPG Form 26, Franchise Tax Certification, with the LP-Gas Division prior to the issuance of such license.

IT IS FURTHER UNDERSTOOD THAT I, OR WE, ARE FAMILIAR WITH THE REQUIREMENTS OF CHAPTER 113, TEXAS NATURAL RESOURCES CODE, WITH REGARD TO PROVISIONS PERTAINING TO THE DUTIES OF A LICENSEE AND THAT I, OR WE, WILL COMPLY WITH EACH PROVISION CONTAINED IN SAID ACT, AND WILL FURNISH ALL ADDITIONAL INFORMATION REQUESTED BY THE RAILROAD COMMISSION OF TEXAS PURSUANT TO ITS REGULATORY AUTHORITY.

I, OR WE, AGREE THAT ANY CHANGE IN OWNERSHIP, OR CHANGE IN NAME, WILL BE REPORTED TO THE RAILROAD COMMISSION OF TEXAS BY REGISTERED MAIL EITHER PRIOR TO THE CHANGE IN OWNERSHIP, CHANGE IN NAME, OR PRIOR TO OPERATING AS A LPG DEALERSHIP UNDER NEW OWNERSHIP, OR UNDER A CHANGED NAME.

I DECLARE UNDER PENALTIES PRESCRIBED IN SECTION 91.143, TEXAS NATURAL RESOURCES CODE, I AM AUTHORIZED TO SIGN THIS REPORT, AND I HAVE EXAMINED THIS REPORT AND MADE ANY CORRECTIONS, ADDITIONS, OR DELETIONS NECESSARY, AND THE DATA AND FACTS STATED HEREIN ARE TRUE, CORRECT, AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

(18) **FOR USE BY SOLE PROPRIETOR OR PARTNERSHIP ONLY:**

Date

Signature of Owner or Partner

(19) **FOR CORPORATE USE ONLY:**

(Corporate Seal)

Name(s) under which business is to be transacted

(20) Signature of Subscriber *

ATTEST:

Capacity of Subscriber */**

(21) Corporate Secretary

Date

* Subscriber must be president or vice-president of corporation unless exception is granted by LP-Gas Division.

** The Board of Directors may file with this form a Power of Attorney designating a corporate officer whose signature will bind the corporation. In such case only one signature is necessary.

LICENSE NO. _____

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
BRANCH OUTLET LIST

LIST EACH BRANCH OUTLET WHERE YOUR COMPANY CONDUCTS LP-GAS BUSINESS IN TEXAS. INDIVIDUALS LISTED AS MANAGERS MUST HAVE PASSED THE EXAMINATION(S). (TEXAS NATURAL RESOURCES CODE, SECTION 113.087). Please type or print in black ink as all documents are microfilmed.

COMPANY NAME: _____

ADDRESS OF OUTLET: _____

(City) (County) (State) (Zip Code) (Telephone Number)

MANAGER NAME: _____ (Social Security Number)

ADDRESS OF OUTLET: _____

(City) (County) (State) (Zip Code) (Telephone Number)

MANAGER NAME: _____ (Social Security Number)

ADDRESS OF OUTLET: _____

(City) (County) (State) (Zip Code) (Telephone Number)

MANAGER NAME: _____ (Social Security Number)

ADDRESS OF OUTLET: _____

(City) (County) (State) (Zip Code) (Telephone Number)

MANAGER NAME: _____ (Social Security Number)

I DECLARE UNDER PENALTIES PRESCRIBED IN SECTION 91.143, TEXAS NATURAL RESOURCES CODE, THAT I AM AUTHORIZED TO SIGN THIS REPORT, AND THE INFORMATION STATED HEREIN IS TRUE, CORRECT, AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

_____
Printed Name

_____
Signature

( )
_____
Area Code/Telephone No. Date

LPG FORM 1A
Revised 12/90

RAILROAD COMMISSION OF TEXAS

VOID

LIQUEFIED PETROLEUM GAS DIVISION

LICENSE

NON - TRANSFERABLE

Expires at midnight, August 31, 1991.

DIRECTOR, LP-GAS DIVISION

LPG FORM 3

X-6

X-7

IMPORTANT LEGAL NOTICE

THE INTENT TO CHANGE OWNERSHIP OF OR PROPERTY RIGHTS IN TRUCK TANK(S) MUST BE REPORTED TO THE LPG DIVISION EITHER:

*1 PRIOR TO SUCH CHANGE
OR
*2 PRIOR TO THE USE OF TRANSFERRED TANK(S)
FOR LPG STORAGE OR TRANSPORT AFTER SUCH CHANGE

APPLICATION INSTRUCTIONS

*1. CLEAN APPLICATION SURFACE OF GREASE, OIL OR DIRT & LET DRY BEFORE APPLYING STICKER
*2. CAREFULLY REMOVE STICKER FROM IT'S BACKING AT SCORE LINE
*3. TO AVOID "AIR POCKETS" PLACE CORNER EDGE OF STICKER ON SLOWLY PRESSING AIR POCKETS OUT. AS STICKER IS PRESSED DIAGONALLY TOWARD OPPOSITE CORNER. IF BUBBLES APPEAR, BURST WITH NEEDLE POINT OBJECT & PRESS SECURELY DOWN.

ONCE AFFIXED, STICKER CANNOT BE REPOSITIONED OR REMOVED WITHOUT GREAT DAMAGE.

VOID

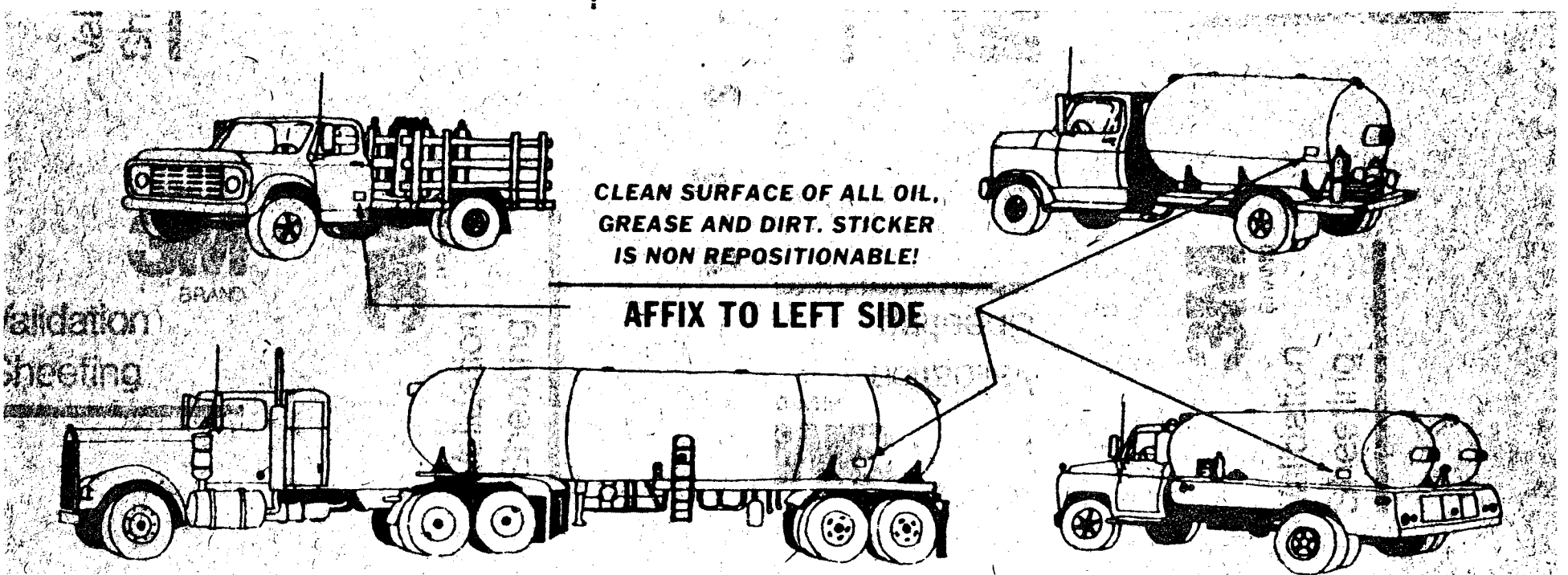
LIQUEFIED PETROLEUM GAS DIVISION

1990 1991

NO. 004500

L.P.G. Form 4

Expires August 31, 1991



LPG FORM 4

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by _____ (Name and address of manufacturer)

2. Manufactured for _____ (Name and address of purchaser)

3. Location of installation _____ (Name and address)

4. Type _____ (Horiz. or vert., tank) _____ (Mfgr's serial No.) _____ (CRN) _____ (Drawing No.) _____ (Nat'l. Bd. No.) _____ (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 _____ (Year)

to _____ (Addenda (Date)) _____ (Code Case Nos.) _____ (Special Service per UG 120(d))

6. Shell: _____ (Matl. (Spec. No., Grade)) _____ (Nom. Thk. (in.)) _____ (Corr. Allow. (in.)) _____ (Diam. I.D. (ft. & in.)) _____ (Length (overall) (ft. & in.))

7. Seams: _____ (Long. (Welded, Dbl., Sngl., Lap, Butt)) _____ (R.T. (Spot or Full)) _____ (Eff. (%)) _____ (H.T. Temp. (°F)) _____ (Time (hr)) _____ (Girth (Welded, Dbl., Sngl., Lap, Butt)) _____ (R.T. (Spot, Partial, or Full)) _____ (No. of Courses)

8. Heads: (a) Matl. _____ (Spec. No., Grade) (b) Matl. _____ (Spec. No., Grade)

	Location (Top Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)										
(b)										

If removable, bolts used (describe other fastenings) _____ (Matl., Spec. No., Gr., Size, No.)

9. MAWP _____ psi at max. temp. _____ °F

Min. design metal temp. _____ °F at _____ psi. Hydro., pneu., or comb. test pressure _____ psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location

11. Supports: Skirt _____ (Yes or no) Lugs _____ (No.) Legs _____ (No.) Other _____ (Describe) Attached _____ (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: _____ (Name of part, item number, Mfgr's. name and identifying stamp)

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. _____ expires _____, 19___.

Date _____ Co. name _____ (Manufacturer) Signed _____ (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by _____ at _____.

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of _____ and employed by _____

have inspected the component described in this Manufacturer's Data Report on _____, 19_____, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date _____ Signed _____ (Authorized Inspector) Commissions _____ (Nat'l Board (incl. endorsements), State, Prov. and No.)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 5
Revised 12/90

LICENSE NO. _____

RAILROAD COMMISSION OF TEXAS

LIQUEFIED PETROLEUM GAS DIVISION

LP-GAS TRUCK REGISTRATION

_____

Company Name

Please type or print in black ink as all documents are microfilmed.

LEGAL NOTICE

EACH TRANSPORT TRUCK, TRAILER, OR OTHER MOTOR VEHICLE EQUIPPED WITH AN LP-GAS CARGO CONTAINER AND EACH TRUCK USED PRINCIPALLY FOR TRANSPORTING LP-GAS IN PORTABLE CONTAINERS SHALL BE REQUIRED TO BE REGISTERED HEREUNDER. THE TRANSFER OF OWNERSHIP, PARTIAL OR COMPLETE, OR THE TRANSFER OF OTHER RIGHTS IN MOTOR VEHICLES HEREBY REGISTERED, REQUIRES THE RE-REGISTRATION OF SUCH VEHICLES IN THE NAME OF THE NEW OWNER/TRANSFEREE WITH THE LP-GAS DIVISION **PRIOR** TO THE USE OF SUCH VEHICLES FOR TRANSPORTING OR DELIVERING LP-GAS. IN ADDITION, A CHANGE IN THE NAME UNDER WHICH A LICENSEE IS DOING BUSINESS REQUIRES THE RE-REGISTRATION OF ANY VEHICLES UNDER THE NEW NAME **PRIOR** TO USE OF SUCH VEHICLES FOR TRANSPORTING OR DELIVERING LP-GAS. (TEXAS NATURAL RESOURCES CODE, SECTION 113.131)

TRANSPORT AND DELIVERY TRUCKS

THE REGISTRATION FEE FOR EACH UNIT IS $150.00 PER YEAR FOR ANY LPG CARGO TRAILER OR SEMI-TRAILER, AND $100.00 PER YEAR FOR ANY BOBTAIL OR CYLINDER DELIVERY UNIT.

NAME OF MANUFACTURER	CONTAINER SERIAL NO.	W.G. CAPACITY	WORKING PRESSURE	DEALER UNIT NO.	FEE

TOTAL TRUCK REGISTRATION FEE _____

I DECLARE UNDER PENALTIES PRESCRIBED IN SECTION 91.143, TEXAS NATURAL RESOURCES CODE, I AM AUTHORIZED TO SIGN THIS REPORT, AND THAT THE INFORMATION STATED HEREIN IS TRUE, CORRECT, AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

_____

Signature

( )

Area Code/Telephone Number Date

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 7
Revised 12/90

RRC USE ONLY
Register No. _____
Amt. _____ Type _____
* Approved _____ by _____ Date _____
* Issued _____ by _____ Date _____

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

MANUFACTURER'S REPORT OF PRESSURE VESSEL REPAIR, MODIFICATION, OR TESTING

Please complete this report in black ink for microfilming purposes.

1. Vessel repaired, modified or tested by _____

   Address _____

2. Manufacturer _____ Year Built _____

3. Serial Number _____ Water Gallons _____ Working Pressure _____

4. Vessel Type: ☐ Transport; ☐ Delivery Unit; ☐ Storage; ☐ Motor Fuel; ☐ Other _____

5. Owner of Vessel _____ Address _____

6. Description of repairs, modification, or testing (For additional information use reverse side.) _____

This vessel was tested by this facility, using one or more methods of testing recognized by the American Society of Mechanical Engineers, and it is safe for LP-gas use in the State of Texas.

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this report; this report was prepared by me or under my supervision and direction, and data and facts stated herein are true, correct, and complete to the best of my knowledge.

Date _____ Signed _____ Title _____ LPG License No. _____

CERTIFICATE OF SHOP INSPECTION

Inspection Agency's Serial No. _____

Vessel repaired or modified by _____ Location _____

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Pressure Vessels in the State of Texas and employed by _____ of _____ inspected the repair or modification of the vessel described in this report on _____ , 19 ___ , and certify the statements made in this report are correct and that repair, modification and/or testing of this vessel was in accordance with the ASME Code for Pressure Vessels.

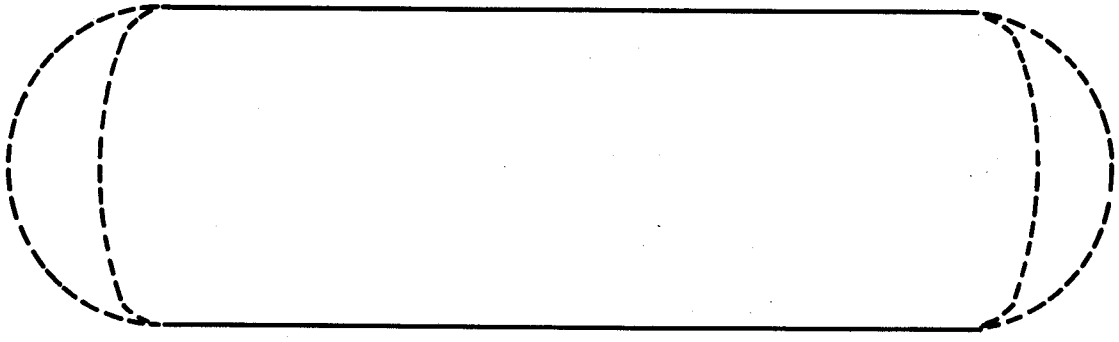
Date _____ , 19 ___ .

_____ Commissions _____

Inspector's Signature Nat'l. Board, State

INDICATE LOCATION OF REPAIR OR MODIFICATION:

Sketch heads and circle approximate location of repairs or modifications.



VIEW: ☐ Top; ☐ Bottom; Other (curbside, streetside, etc.) _____

HEAD TYPE: ☐ Hemispherical; ☐ 2:1 Elliptical; ☐ Other _____

Additional Information (Attachment(s)) as needed.)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
REPORT OF DOT CYLINDER REPAIR

Please complete this report in black ink for microfilming purposes.

1. Cylinder repaired or tested by _____

   Address _____

2. Manufacturer _____ Year Built _____

3. Serial Number _____ Water Capacity _____ Working Pressure _____

4. DOT Specification _____

5. Owner of Cylinder _____ Address _____

6. Description of repairs and/or testing (For additional information use reverse side.) _____

This cylinder was tested by this facility, using one or more methods of testing recognized by the American Society For Non-Destructive Testing, and it is safe for LP-gas use in the State of Texas.

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge.

Date _____ Signed _____ Title _____ LPG License No. _____

CERTIFICATE OF SHOP INSPECTION

Cylinder repaired and/or tested by _____ Location _____

I, the undersigned, authorized by DOT as an inspector of cylinders and employed by _____ _____ of _____ inspected the repair and/or testing of the cylinder described in this report on _____, 19____, and certify the statements made in this report are correct and that repair and/or testing of this cylinder was in accordance with the requirements of DOT.

Date _____, 19____.

_____ Commissions _____

Inspector's Signature

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

Return to:
Railroad Commission of Texas
LP-Gas Division
P.O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
APPLICATION FOR EXAMINATION

Please type or print in black ink as all documents are microfilmed

Name of Applicant (Last, First, Middle) _____ Social Security Number ___ ___

Date to begin performing each LP-gas related activity pertaining to this application _____

Name of Licensed/Applicant Company _____ LPG License Number _____

Company Address (P. O. Box and/or Street) _____ City or Town _____

County _____ State _____ Zip Code _____ ( ) (—) A/C Telephone Number

EXAMINATION APPLIED FOR:

(1) MANAGEMENT
Category/categories applied for _____

State nature & full extent of LP-gas operations to be conducted _____

(2) EMPLOYEE
Check appropriate employee examination applying for:

- ☐ Delivery Truck Driver, including Service & Installation, Transport Driver, Cylinder Filling & Motor Fuel Dispenser
- ☐ Carburetion
- ☐ Recreational Vehicle Technician
- ☐ Service & Installation
- ☐ DOT Cylinder Filling
- ☐ Manufactured Housing Technician
- ☐ Transport Truck Driver
- ☐ Motor Fuel Dispenser

EXAMINATION FEES - The appropriate examination fees must accompany this application.

(1) Management - $25.00 each category Amount $_____

(2) Employee - $10.00 each examination Amount $_____

An examination field site schedule will accompany your study guide and will be provided to you upon receipt of this application. In addition, examination(s) are given Monday, Wednesday, Friday, 10:00 A.M. - 5:00 P.M. (except holidays), at the division's headquarters located at 1701 N. Congress (William B. Travis Bldg.) Room 7-146, Austin, Texas. NO examination fee(s) will be collected at the examination field sites. ALL EXAM FEES MUST BE PAID BEFORE THE EXAMINATION IS ADMINISTERED.

RRC USE ONLY

Register No. _____

Amt. _____ Type _____

Date _____

Approved _____

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this application; that I have knowledge of the above-stated facts; that this application was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge.

_____
(Signature of Applicant or Authorized Representative of Licensee)

_____
(Date)

LPG FORM 16
Revised 12/90

Study Material for LP-Gas Examinations

MANAGEMENT EXAMS

All management level examinees must study the following: **Requirements & Procedures, Basic Rules, Texas Natural Resources Code, Chapter 113, and the following divisions (if applicable):**

CATEGORY	SAFETY RULE DIVISION
A — DOT Fabricators only	No Divisions
A1 — ASME Fabricators only	No Divisions
B — Transport Outfitters	No Divisions
C — Carriers	IV, XIV
D — General Installers and Repairmen	I, II, VII, VIII
E — Retail and Wholesale Dealers	All Divisions, except XIII
F — Cylinder Exchangers	I, IX
G — Service Station	V, IX
H — Cylinder Dealers	I, IX
I — Service Station & Cylinder Exchange	I, V, IX
J — Service Station & Cylinder Dealerships	I, V, IX
K — Distribution System	VII
L — Carburetion	V, XI
M — Recreational Vehicle Installers & Repairmen	XIII
N — Manufactured Housing	I,II,VII, VIII

EMPLOYEE EXAMS

All employee level examinees must study the **Basis Rules and the following divisions:**

Delivery Truck Driver, including Service and/or Installation, Transport Truck Driver, DOT Cylinder Filling, and Motor Fuel Dispenser	I, II, III, IV, V, VII, VIII, IX, X, XIV
Service and/or Installation	I, II, VII, VIII
Transport Truck Driver	IV, XIV
Carburetion	V, XI
DOT Cylinder Filling	I, IX
Motor Fuel Dispenser	V, IX
Recreational Vehicle Technician	XIII
Manufactured Housing Technician	I, II, VII, VIII

EXAMINATION FEES — All examination fees must be submitted with the LPG FORM 16, Application for Examination, to the Austin office. NO EXAM FEES WILL BE COLLECTED AT THE FIELD EXAMINATION SITE.

Management	Employee Exam
$25.00 @ category	$10.00 @ exam

For information only, Not a part of Adopted LPG Form 16.

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

QUALIFIED EMPLOYEE TRANSFER CERTIFICATION

Please type or print in black ink as all documents are microfilmed.

Section 9.6 (g) of the LP-Gas Safety Rules requires a licensee to notify the LP-Gas Division when a previously qualified person is hired. Provide the division with the following information:

Name of Employee _____ Social Security No. ___ — ___ — ____

Your Company Name _____ LP-Gas License Number _____

Company Address (P.O. Box and/or Street) _____ City or Town _____

County _____ State _____ Zip Code _____ Area Code/Business Phone No. ( ) (—)

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I have knowledge of the above-stated facts; this certification was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge.

_____
(Signature of Authorized Representative of Licensee)

_____
(Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P.O. Box 12967
Austin, Texas 78711-2967

LPG FORM 16A
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

APPLICATION FOR EXAMINATION EXEMPTION BY A MASTER OR JOURNEYMAN PLUMBER OR A CLASS A OR B AIR CONDITIONING & REFRIGERATION CONTRACTOR

Name (Last, First, Middle) _____ Social Security Number ___ - ___ - _____

License Number _____ Expiration Date _____
Master or Journeyman Plumber or a Class A or B Air Conditioning and Refrigeration Contractor

Name of Applicant's Company or Affiliated Company _____ LP-Gas License Number _____

Company Address (P. O. Box and/or Street No.) _____ City _____

County _____ State _____ Zip Code _____ ( ) ( ) Area Code/Telephone Number

* * * * * * * * * * * * * * * * *

Do you need any forms for obtaining an LP-gas license? Check one Yes ☐ No ☐
If yes, specify Category _____.

I do certify that I am a Master or Journeyman Plumber currently licensed by the Texas State Board of Plumbing Examiners or a Class A or B Air Conditioning and Refrigeration Contractor currently licensed by the Department of Licensing and Regulation. I have read the current edition of the LP-Gas Safety Rules and will comply with these rules. I further understand this only exempts me from the Category D management examination and seminar requirements. I cannot perform LP-gas related activities until my company or I comply with all other applicable licensing requirements of a Category D licensee. If the exempted individual loses qualified status as a Master or Journeyman Plumber or a Class A or B Air Conditioning and Refrigeration Contractor, then the examination exemption card must be returned immediately to the LP-Gas Division and all rights and privileges surrendered. The examination exemption accrues to the applicant and is nontransferable.

Before this application can be processed the following must be submitted: (1) A copy of the person's current license issued by either the Texas State Board of Plumbing Examiners or the Department of Licensing and Regulation; (2) a $15 original filing fee; and (3) any other information the division may reasonably require.

NOTE: This exemption does not become effective until the examination exemption card is issued by the commission.

Failure to comply with any of the LP-Gas Safety Rules and/or the Texas Natural Resources Code, Chapter 113, will subject the exempted individual to the same enforcement provisions applicable to any licensee, registrant, or violator.

RRC USE ONLY
Register No. _____
Amt. _____ Type _____
Approved _____ Date _____

_____
Signature of Applicant

_____
Date

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

(1) NAME _____

(2) ADDRESS _____

Report of Odorization of Liquefied Petroleum Gases for the Quarter Ending _____ 19 ____

TYPE OF GAS	(3) GALLONS GAS MANUFACTURED DURING PERIOD	(4) GALLONS GAS ODORIZED	(5) QUANTITY OF MALODORANT USED Gals. of Lbs.	(6) NAME OF MALODORANT
BUTANE				
PROPANE				
- - -% BUTANE - - -% PROPANE MIXTURE				
- - -% BUTANE - - -% PROPANE MIXTURE				
(7) TOTALS			------ Gals. ------ Lbs.	X X X X X X X X

READ ALL OF THIS PAGE CAREFULLY BEFORE MAKING OUT REPORT:

Every person, firm or corporation who odorizes liquefied petroleum gas in any form shall make a quarterly report to the L. P. Gas Division of the Railroad Commission of Texas within thirty (30) days after November 30, February 28, May 31, and August 31. The receipt of a copy of this form is an indication that the records of the L. P. Gas Division of the Railroad Commission show that you are a handler of liquefied petroleum gas products who odorizes LP-gas. If this is incorrect, you will insert your name and address where indicated and write across the report "I do not odorize liquefied petroleum gas in any form," sign the report and forward it to the Railroad Commission of Texas, LP-Gas Division, P.O. Box 12967, Austin, Texas 78711-2967.

INSTRUCTIONS FOR MAKING OUT REPORTS:

FILL IN YOUR FIRM NAME AND ADDRESS AT THE TOP OF THE FORM. IF YOU OPERATE UNDER MORE THAN ONE NAME SHOW ALL NAMES AND ADDRESSES. COMPLETE AND EXECUTE PROPERLY BEFORE FORWARDING THE REPORT TO THE LIQUEFIED PETROLEUM GAS DIVISION.

The report must be signed by some person in authority having personal knowledge of the facts. If necessary, use extra sheets and attach to the report. Strict compliance with these instructions will be required of all persons, firms or corporations who odorize LP-gas.

(8) THE STATE OF TEXAS)
COUNTY OF _____)

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this report as I have personal knowledge of the above-stated facts, this report was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge.

(9) _____
SIGNATURE

(10) _____ (11) _____
DATE TITLE

LPG FORM 17
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
AFFIDAVIT OF LOST OR DESTROYED LICENSE

I, _____ (Affiant's Name), _____ (Affiant's Capacity/Authorization),

do make this affidavit saying that _____ (Name(s) under which-Licensee conducts LP-gas operations)

is licensed by the Railroad Commission of Texas and that LP-gas license number _____

issued on _____, 19 _____, has been lost or stolen and that facts pertaining to the existence and location of such license are unknown to the licensee.

THE STATE OF: _____

COUNTY OF: _____

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this affidavit; I have personal knowledge of the above stated facts; this affidavit was prepared by me or under my supervision and direction, and the data and facts stated herein are true, correct and complete to the best of my knowledge.

_____
(Affiant's Signature)

_____
(Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 18
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
STATEMENT OF LOST OR DESTROYED LPG FORM 4 DECAL

Please type or print in black ink as all documents are microfilmed.

I, _____ , _____
(Name of person completing statement) (Title)

do make this statement verifying _____
(Name(s) under which Licensee conducts LPG operations)

_____ was issued LPG Form 4,
(Complete mailing address where decal is to be sent)

identified as Decal No. _____ , _____
(container manufacturer & serial number(s))

for License year 19 ___ - 19 ___ , and that such decal has been

(Check one) ☐ lost or stolen;

☐ destroyed, the cause of destruction being as follows _____

_____

_____
(State the cause of destruction. If unknown, state cause is unknown.)

THE STATE OF: _____

COUNTY OF: _____

_____
(Signature)

_____
(Date)

RRC USE ONLY
Replacement Decal No. _____
Date Issued _____ By _____
Date Mailed _____ By _____

Return to:
Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG Form 18B
Revised 12/90

LICENSE NO. _____

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
INVENTORY OF LP-GAS BULK STORAGE PLANTS

_____

Company Name

NOTE: Each licensee is responsible for and must list only those containers it operates.

List all Bulk Storage and Cylinder Filling/Service Station containers operated by your company as well as their geographic location. Indicate the use of each container by answering Yes or No in the columns labeled "Bulk Storage" and "Cylinder Filling/Service Station." (TEXAS NATURAL RESOURCES CODE, SECTION 113.084)

Please type or print in black ink as all documents are microfilmed.

For installation located in _____ county, at _____ .
(geographic location)

CONTAINER MANUFACTURER	SERIAL NUMBER	W.G. CAPACITY	DESIGN PRESSURE	BULK STORAGE	CYLINDER FILLING/ SERVICE STATION

For installation located in _____ county, at _____ .
(geographic location)

CONTAINER MANUFACTURER	SERIAL NUMBER	W.G. CAPACITY	DESIGN PRESSURE	BULK STORAGE	CYLINDER FILLING/ SERVICE STATION

I DECLARE UNDER PENALTIES PRESCRIBED IN SECTION 91.143, TEXAS NATURAL RESOURCES CODE, I AM AUTHORIZED TO SIGN THIS REPORT, AND THE INFORMATION STATED HEREIN IS TRUE, CORRECT, AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

Date _____

_____
Signature

LPG FORM 19
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967
Tel. No.: (512) 463-6942
Emergency No.: (512) 463-6788

RRC USE ONLY
Postmark Date _____
File Number _____
District Number _____

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
REPORT OF LP-GAS/CNG INCIDENT - ACCIDENT

INSTRUCTIONS: Section 9.61 of the LP-Gas Safety Rules and Section 13.36 of the Regulations for CompressedNatural Gas require this report to be filed within 14 days from the date the incident/accident was initially reported to the Railroad Commission of Texas. This report must be signed by an official representative of the licensee reporting and filing the report. Please type or print in black ink for microfilming purposes.

PART A Licensee Reporting LPG ☐ CNG ☐ (Mark applicable box) Lic. No. _____

1. COMPANY NAME: _____ Tel. No. ( ) _____
2. PRINCIPAL BUSINESS ADDRESS: _____
3. ☐ LPG ON PREMISES ☐ VEHICLE WHERE INCIDENT/ACCIDENT OCCURRED 4. ☐ CNG ON PREMISES ☐ VEHICLE WHERE INCIDENT/ACCIDENT OCCURRED

PART B ☐ Incident ☐ Accident Identification Information

1. NAME OF ENTITY INVOLVED: _____ *(where occurred)*
2. FULL MAILING ADDRESS: _____
3. DATE OCCURRED: *Month* _____ *Day* _____ *Year* _____ *Time: (24 hr. clock)* _____ ☐ Unknown
4. LOCATION OF INCIDENT/ACCIDENT:
   a) In State _____ (city, county)
   b) Out of State _____ (city, county, state)
   c) Identify Physical Location: _____ (give nearest mile marker, hwy., street, or intersection)
5. DRIVER/LICENSEE INFORMATION:
   a) Drivers full name, who last serviced container: _____ SSN: _____
   b) Driver's full name, if involving LPG/CNG transport or bobtail registered with the commission: _____ SSN: _____
   c) Licensee name servicing/owning container: _____
   License Number: _____

PART C Deaths/Injuries *(If multiple deaths or injuries continue on separate sheet)*

1. TOTAL FATALITIES _____ a) Licensee employee(s) _____ b) non-employee(s) _____
2. NAME: _____ *(age)* _____ and *(SSN)*: _____ *if licensee employee*
3. TOTAL INJURIES _____ a) Licensee employee(s) _____ b) non-employee(s) _____
4. NAME: _____ *(age)* _____ and *(SSN)*: _____ *if licensee employee*

PART D Type of Installation/Equipment *(Check any which apply)*

LPG

☐ (AGRL)	Agricultural	☐ (FMCT)	Farm Cart	☐ (PUBL)	Public Facility	☐ (CGCC)	CNG Pvt. Compressor Storage
☐ (B)	Bobtail	☐ (HECC)	Health Care Center	☐ (PVCF)	Private Cyl. Filling Plant	☐ (CGCV)	CNG Commercial Vehicle
☐ (BS)	Bulk Storage	☐ (INFL)	Industrial Forklift	☐ (PVTR)	Private Trans. Only	☐ (CGDS)	CNG Pvt. Dispenser System
☐ (CEXR)	Cylinder Exchange Rack	☐ (LOAD)	Loading Rack	☐ (RECV)	Recreational Vehicle	☐ (CGGT)	CNG Government Trans.
☐ (CFP)	Cylinder Filling Plant	☐ (MAHO)	Manufactured Housing	☐ (RES)	Residence	☐ (CGLC)	CNG Lic. Compressor Storage
☐ (CFSS)	Cyl. Filling/Service Sta.	☐ (MBLF)	Mobile Fuel Vehicle	☐ (SBUS)	School Bus	☐ (CGLS)	CNG Lic. Dispenser System
☐ (COMM)	Commercial	☐ (MHSO)	Mobil Home Subdivision	☐ (SCHL)	School	☐ (CGPT)	CNG Public Transportation
☐ (CVTR)	Commercial Veh. Trans.	☐ (PBTR)	Public Transportation	☐ (SS)	Service Station Only	☐ (CGPV)	CNG Private Vehicle
☐ (EMSB)	Emergency Stand-By	☐ (PMMF)	Private Motor Fuel Storage	☐ (T)	Transport	☐ (CGSB)	CNG School Bus
						☐ (CNGT)	CNG Transport
		☐ (GEOT)	General/Other _____				

PART E Product Information

1. Specify name of product storage/release: _____ (Propane, Butane, Propylene, LPG mix, CNG, etc.) 2. Odorization: ☐ a) odorized ☐ b) non-odorized
3. If loss of product occurred, give estimated amount equal to or more than 1.0% of gross amount delivered or withdrawn:
   a) Liquid loss LPG only .. Est. gross gallons _____ b) Vapor loss CNG only ..... Est. cubic feet _____
4. Were bulkheads/emergency shut-off valves installed? ☐ Yes ☐ No ☐ N/A
5. Did product ignite? ☐ Yes ☐ No 6. Did explosion occur? ☐ Yes ☐ No If Yes, explain under PART J

PART F Gas Leak/Origin of Problem *(Check any which apply)*

☐ 001 Pump	☐ 007 Low PSI Hose/Line	☐ 013 Underground pipe	☐ 019 Pressure relief valve
☐ 002 Compressor	☐ 008 Hose/Metal flex-connector	☐ 014 Aboveground pipe	☐ 020 Emergency shut-off valve (ESV)
☐ 003 Vaporizer	☐ 009 Break away coupling	☐ 015 Appliance control	☐ 021 Filler valve in tank
☐ 004 Gas Meter	☐ 010 Gas cock	☐ 016 Hose end valve	☐ 022 Evacuation/Drain valve
☐ 005 In-Line Valve	☐ 011 Pipe union	☐ 017 Tank service valve	☐ 023 Gauging device
☐ 006 High PSI Hose/Line	☐ 012 Pipe flare fitting	☐ 018 Service regulator	☐ 024 Cylinder/tank metal

☐ 050 Other _____

(Continued on back)

PART G LPG/CNG Container Type/Location/Condition *(Check any which apply)*

☐ 001 DOT cylinder	☐ 006 Bulk size (1,000 W.G. or more)	☐ 011 Inside building	☐ 016 Container dented
☐ 002 ASME container	☐ 007 Skid mounted tank	☐ 012 Ext. tank corrosion	☐ 017 Container scraped
☐ 003 Aboveground tank	☐ 008 Process tank	☐ 013 Int. tank corrosion	☐ 018 Container hole/puncture
☐ 004 Underground tank	☐ 009 Vehicle mounted	☐ 014 Container bulged	☐ 019 Broken weld seam
☐ 005 Domestic size (999 W.G. or less)	☐ 010 Outside building	☐ 015 Container gouged	☐ 020 Container ruptured

PART H Container Identification/Owner Information *(If more than two containers, continue on separate sheet)*

	Container No. 1	Container No. 2
1. Mfg. Name:		
2. Mfg. Ser. No.:		
3. Working Press:		
4. Water Cap.:		
5. Year Built:		

6. If bobtail or transport unit, specify RRC LPG Form 4 decal no. _____ RRC CNG Form 1007 decal no. _____ ☐ None
7. Date tank/cylinder was last serviced with LPG/CNG _____ Gross gallons _____ cubic feet _____ delivered.
8. Nameplate damaged/destroyed? ☐ Yes ☐ No If Yes, indicate which container ☐ No. 1 ☐ No. 2
9. Were container(s) subjected to severe heat impingement or damaged? ☐ Yes ☐ No If LPG/CNG container(s) are involved in incident/accident or vehicle collision/rollover, attach _____ photograph(s).
Number
10. If owner of container(s) is different from licensee, give mailing address of tank/cylinder owner below.

(Name) *(Address)* *(City,State)* *(Zip Code)*

PART I Suspected Causes *(Check any which may have contributed to cause)*

1. NATURAL FORCE DAMAGE
   - ☐ 001 Lightning
   - ☐ 002 Wind force
   - ☐ 003 Flooding
   - ☐ 004 Freezing weather
2. MECHANICAL FORCE DAMAGE
   - ☐ 006 Vehicular collision
   - ☐ 007 Rollover during transit
   - ☐ 008 Physical abuse/damage during transit
   - ☐ 009 Piping damaged by const. equip.
3. MECHANICAL FAILURE
   - ☐ 011 Appl./control malfunction
   - ☐ 012 Valve malfunction
   - ☐ 013 Regulator malfunction
   - ☐ 014 Equip. malfunction
   - ☐ 016 Cracked/worn threads
   - ☐ 017 Pipe corr./failure
   - ☐ 018 Carbon monox. emissions
   - ☐ 019 Flex-conn./hose failure
4. HUMAN ERROR
   - ☐ 021 Violation of safety rules
   - ☐ 022 Improper pressure check
   - ☐ 023 Uncapped gas-cock/pipe
   - ☐ 024 Improper gas transfer method
   - ☐ 025 Violation of traffic laws
   - ☐ 026 Pull-away during transfer
   - ☐ 027 Overfilled cylinder/tank
   - ☐ 028 Improper system installation method
   - ☐ 029 Improper operator usage
   - ☐ 030 Improper appl. vent
   - ☐ 031 Improper tank purge
   - ☐ 032 Improper line purge
   - ☐ 050 Other _____

PART J Summary of Incident/Accident *(Please specify mfg. name, model, date mfg. for any defective LPG/CNG equip. involved in incident/accident.)*

_____

_____

_____

PART K Name of Official Submitting Report

I declare under penalties prescribed in Section 91.143 and Section 116.142, Texas Natural Resources Code, this report was prepared by me and the data and facts stated therein are true, correct, and complete to the best of my knowledge.

1. Printed name _____ 3. Date of initial knowledge of incident/accident: *(MM-DD-YY)* _____

2. Authorized signature _____ 4. Date report completed: *(MM-DD-YY)* _____

This report is made to comply with the provisions of 16 TAC Sections 9.61 and 13.36 and is NOT a determination of responsibility or fault.

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS

LIQUEFIED PETROLEUM GAS DIVISION

NOTICE OF INTENT TO APPEAR

DOCKET NUMBER _____

LP-Gas License Number _____ Hearing Date _____

_____ representing _____
(Print Name) (Print Name)

hereby gives notice of intent to appear at the hearing called to consider the above referenced legal enforcement case.

☐ I do not intend to appear, but I request the attached material be considered. Any attached material to be considered must be filed with an affidavit signed by a person having personal knowledge.

THIS FORM MUST BE **MAILED** TO THE RAILROAD COMMISSION TEN (10) DAYS BEFORE THE DATE OF HEARING.

_____
(Signature)

_____
(Telephone Number) (Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P.O. Box 12967
Austin, Texas 78711-2967

LPG Form 21
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
REPORT OF LP-GAS SAFETY RULE VIOLATION

INSTRUCTIONS: This form may be filed with the LP-Gas Division in accordance with Section 9.59 of the LP-Gas Safety Rules for any stationary or mobile LP-gas installation. Incomplete forms will not be accepted. The division will use this form at its own discretion with regard to action taken against the violator.

NAME OF OCCUPANT/LICENSEE/VIOLATOR: _____

MAILING ADDRESS: _____
(Street Address or P. O. Box)

_____
(City) (State) (Zip Code)

PHYSICAL ADDRESS OF VIOLATOR(S): _____
(City) (County)

DATE/TIME OBSERVED: _____

CHECK THE FOLLOWING WHICH APPLY:

Violator was: ☐ Customer ☐ LPG Installer ☐ LPG Supplier

Violation(s) still exist: ☐ Yes ☐ No Supporting documentation attached: ☐ Yes ☐ No

DESCRIBE VIOLATION(S):
(Use section references of the LP-Gas Safety Rules)

_____

_____

_____

_____

_____

_____

_____

_____

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, this form was prepared by me or under my supervision and direction, and that the data and facts stated herein are true and correct to the best of my knowledge. I did not service the subject LP-gas installation because of the violation(s) observed.

RRC USE ONLY:				
Inspection	Init.	Date:	/	/
Letter Sent	Init.	Date:	/	/
No Action	Init.	Date:	/	/

_____
(Printed name)

_____
(Authorized Signature of Complainant)

_____
(Telephone Number) (Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 22
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

STATEMENT IN LIEU OF CONTAINER TESTING

I hereby certify the LP-gas container, _____
(Manufacturer's name and serial number)
has been subject to continuous LP-gas vapor pressure while being transported, installed, stored, or serviced in the State of Texas. During any period of non-continuous use, container valves and fittings have remained intact and no product other than liquefied petroluem gas (LPG) has been stored in this vessel, except for the purging of this container.

While in non-continuous use or other product storage, the following information is required:

Container Owner/Operator's Name _____

Product Stored _____

Location where last removed from service _____
City State

Duration out-of-service _____
Year(s) Month(s)

I acknowledge that the LP-Gas Division shall make final determination whether the subject LP-gas container must be tested before placement into LP-gas service in Texas in accordance with Section 9.34 of the LP-Gas Safety Rules. I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, this form was prepared by me or under my supervision and direction, and the data and facts stated herein are true, and correct to the best of my knowledge.

_____ _____
(Print company name, if applicable) (License number, if applicable)

_____ _____
(Authorized signature of container owner) (Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 23
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

CYLINDER EXCHANGE APPLICATION FOR OPERATIONS APPROVAL

Site ID No.
Plan No. (RRC USE ONLY)

INSTRUCTIONS: Your application must contain three elements: Operator Intent, Guidelines for Installation Compliance, and a Joint Statement of Responsiblity. A lease agreement need not be filed unless the exchange operation is conducted on the premises not under control of either the cylinder distributor or the cylinder exchanger. Please print or type in black ink. Insert the word "same" in the spaces pertaining to cylinder exchanger if the distributor and exchanger are one in the same company. Fill in all blanks and spaces. Return to the LP-Gas Division.

OPERATOR INTENT

1. The licensed participant(s) involved in the cylinder exchange program are _____ *(cylinder distributor)*, license _____ *(number)*, and _____ *(cylinder exchanger)*, license _____ *(number)*.
2. The number of exchange outlets anticipated at this time is/are _____. The expected hours of operation are from _____ to _____.
3. The mailing address of the initial exchange site is: _____ *(address)*

   _____ *(city)* *(state)* *(zip code)*

   The physical address is _____.
4. The number of cylinder rack(s) to be installed at the above site is/are _____.
5. The qualified representative for the cylinder distributor is _____ *(must be certified employee)*

   Social Security Number ___-___-___ and the qualified representative of the cylinder exchanger is _____ *(must be certified employee)* Social Security Number ___-___-___.

GUIDELINES FOR INSTALLATION COMPLIANCE

6. The manufacturer of the cylinder rack is _____ *(if non-factory made, submit photo)*, Model No. _____ *(if applicable)*

   The number of cylinders to be in the rack are _____ twenty pound cylinders and _____ thirty pound cylinders.
7. Each rack will be protected by guardrails, _____ *(Dia.)* inch steel top rail with _____ *(Dia.)* inch posts set in concrete, spaced _____ *(feet)* apart to protect the rack from vehicular traffic. Racks will be labeled with signs posted on the rack stating content of material such as "PROPANE" in _____ *(height)* inch letters, and a "NO SMOKING" sign with _____ *(height)* inch letters.
8. The minimum distances the racks will be from any overhead transmission lines are _____ *(feet)*. The nearest flammable fuels storage and dispensers will be _____ *(feet)* from the nearest rack. The rack will also be _____ *(feet)* from all buildings and property or lease lines. Each rack will be kept locked at all times when not in use or unattended.
9. The rack(s) will be inspected _____ *(frequency)* by the cylinder distributor for proper operation, maintenance and compliance.

(continued on back)

JOINT STATEMENT OF RESPONSIBILITY

10. _____ will be responsible for employee training at the cylinder rack
(cylinder distributor or exchanger)
outlet and for maintaining a current valid license for the cylinder exchange operation.

11. _____ will be responsible for transporting cylinders and repairing
(cylinder distributor or exchanger)
or replacing damaged cylinders.

12. _____ will be responsible for ensuring the guidelines aforemen-
(cylinder distributor or exchanger)
tioned are complied with for each outlet and will report violations to the LP-Gas Division or notify the division of possible compliance conflicts at new locations before the installation is made.

13. _____ will be responsible for filing all completion reports in a
(cylinder distributor or exchanger)
timely manner.

14. _____ will be responsible for reporting any incident or accident
(cylinder distributor or exchanger)
involving any cylinder rack to the LP-Gas Division.

15. ADDITIONAL COMMENTS: _____

_____

_____

_____

_____

Additional information may be required to be submitted to the LP-Gas Division. Installations must be completed in full compliance with the LP-Gas Safety Rules. Non-compliance may result in your company being subjected to administrative enforcement proceedings and/or administrative penalties under Sections 113.161 - 113.166 and 113.231 - 113.236, Texas Natural Resources Code, Chapter 113.

NOTE: No additional site plans required once initial operations approval is granted. File separate LPG Form 501, Completion Report, for each cylinder rack(s) exchange outlet in accordance with Section 9.29(b) of the LP-Gas Safety Rules.

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, this form was prepared by me or under my supervision and direction, and the data and facts stated herein are true and correct to the best of my knowledge.

_____ _____

Authorized Signature of Cylinder Exchanger (See No. 5) Date

_____ _____

Authorized Signature of Cylinder Distributor (See No. 5) Date

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

APPLICATION AND NOTICE OF EXCEPTION TO THE LP-GAS SAFETY RULES

INSTRUCTIONS: Any person, firm, or corporation may apply for an exception to the LP-Gas Safety Rules. All application filings must meet the submission requirements of Section 9.21 of the LP-Gas Safety Rules. Strict compliance with this section is necessary to ensure that fairness and uniformity in the administrative process is extended to all applicants. All applicants are routinely advised that a request for exception in no way guarantees that an exception will be granted. PLEASE COMPLETE ALL BLANKS ON THIS FORM AND RETURN TO THE LP-GAS DIVISION. FILE ONE TYPED APPLICATION FORM PER SITE, LISTING ALL APPLICABLE EXCEPTIONS TO SAFETY RULE REFERENCES.

APPLICANT INFORMATION:

Applicant's name: _____ (Individual), representing _____ (Company name, if applicable)

Lic. No. _____ Mailing Address: _____ (City, State) (Zip Code)

Tel. No.: _____ (Area Code) _____ I request an exception to Section(s) (give full safety rule reference) _____

_____ of the LP-Gas Safety Rules.

GEOGRAPHICAL LOCATION:

If stationary LP-gas installation, give physical street address or geographical location: _____

_____

_____
(Give directions from nearest highway or town)

in city limits of _____ (if applicable) county of: _____

STATEMENT OF DESIRED RELIEF:

State below your request for exception and how it specifically fails to comply with the LP-Gas Safety Rules you are requesting an exception. Be sure you also quote the exact reference and description of the safety rule.

_____

_____

_____

_____

_____

_____

STATEMENT OF SUPPORTING FACTS:

State the facts supporting your desired relief and if the exception is not granted, how it will affect the social and economic impact of your business or operations. The economic impact is the estimated total sum of all monetary factors or alternative solutions necessary to bring the installation or equipment into full compliance with the safety rules, plus any additional costs to the consumer, if applicable.

Social impact, if not granted: _____

_____

_____

_____

Economic impact, if not granted: _____

_____

_____

_____

SAFETY ASPECTS OF EXCEPTION:

Explain the safety aspects involved and how this exception may be justified without affecting the health, safety, and welfare of the general public. If the exception involves an existing LP-gas installation or existing LP-gas mobile equipment, list existing safety features. What additional improvements could be made to offset any reduction in safety?

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

DESCRIPTION OF ACREAGE OR LEASED AREA:

If a stationary LP-gas installation, use the space below to describe the site sufficiently for determination of property or lease lines, land ownership, and by what legal authority the applicant, if not the owner, is permitted occupancy.

ATTACH SUPPORTING DOCUMENTS: A legal property description with a site plan indicating the dimensions of the boundaries described by the legal description or a plat showing the dimensions of the property description. The site plan must show all adjoining property lines, streets, and highway or railroad right-of-ways and must coincide with the legal property description or plat. The site plan may include other information such as buildings, storage containers, and other exposures relevant to the exception which is not indicated on the plat. If the area described is under lease, a copy of the lease agreement, and exhibit(s) showing the area under lease may be filed in lieu of the legal property description or plat.

Legal description and acreage: _____

_____

_____

_____

_____

I have attached:
Check applicable box(es)

1. ☐ Legal property description, with site plan.
2. ☐ Survey plat, with site plan.
3. ☐ Lease agreement, with site plan.

AFFECTED PARTIES WHO MUST BE SENT A COPY OF THIS REQUEST:

Affected parties to the exception are persons, firms, corporations and governmental entities including, but not limited to: notice to city council or mayor, if in municipal limits; notice to county commission, if not in municipal limits. If an exception is requested on a nonstationary site, affected parties to whom the applicant must give notice shall include, but not be limited to: the Texas Department of Highways and Public Transportation; the Texas Department of Public Safety; and all processed gas loading and unloading facilities utilized by the applicant, if the applicant does not own or lease bulk storage containers. All affected parties must be given a copy of Pages 1 and 2 of this application to verify that proper notice has been served. The LP-Gas Division must be in receipt of the original Certified Mail Return Receipt(s), or if hand delivered to the affected parties, a copy of the original notice must be attached to your application.

PLEASE GIVE FULL NAME AND ADDRESS OF EACH AFFECTED PARTY. EACH AFFECTED PARTY MUST BE AFFORDED AN OPPORTUNITY TO OBJECT OR NOT OBJECT TO THE EXCEPTION REQUESTED. THE PARTY SHALL NOTIFY THE DIVISION IN WRITING OF SPECIFIC OBJECTIONS. THE ORIGINAL OF THE RETURN RECEIPT CARDS MUST BE FILED WITH YOUR APPLICATION AS EVIDENCE THAT AFFECTED NOTICE WAS RECEIVED BY THE AFFECTED PARTY. ATTACH A COPY OF A LAND ABSTRACT OR MARK THE SITE PLAN ABOVE TO SHOW ALL ADJOINING PROPERTY OWNERS. LIST ALL NAMES AND ADDRESSES OF REQUIRED PARTIES TO RECEIVE NOTICE ON THE BACK SIDE OF THIS PAGE. USE PAGE 5 OF 6, NOTICE OF EXCEPTION TO LP-GAS SAFETY RULES, AS THE INSTRUMENT OF NOTICE.

I have attached:
Check applicable box(es)

1. ☐ Land abstract of surrounding properties AND original certified mail return receipt(s) for each notice sent.
2. ☐ Expanded site plan showing surrounding properties and original certified mail return receipt(s) for each notice sent.

NOTE: ANY ATTACHED MATERIAL TO BE CONSIDERED MUST BE FILED WITH AN AFFIDAVIT SIGNED BY A PERSON HAVING PERSONAL KNOWLEDGE.

Names and addresses of parties that were mailed copies of this request.

1. _____
Name of person or entity

_____
Mailing address City, State Zip Code

2. _____
Name of person or entity

_____
Mailing address City, State Zip Code

3. _____
Name of person or entity

_____
Mailing address City, State Zip Code

4. _____
Name of person or entity

_____
Mailing address City, State Zip Code

5. _____
Name of person or entity

_____
Mailing address City, State Zip Code

ADDITIONAL COMMENTS:

_____

_____

_____

The applicant must make a credible case the exception in particular is necessary and an exception, if granted, would not impair or tend to impair the health, safety and welfare of the general public. Photographs and other documentation may be submitted or requested by the division if necessary to clarify the applicant's intentions toward this purpose.

I certify all the person(s) named above have been sent notice (Page 5 of LPG Form 25) by certified mail, return receipt requested. I understand that should the exception be granted, I may be required to file an LPG Form 500, Application for Tentative Approval of LP-Gas Installation, LPG Form 500A, Notice of LP-Gas Installation, or LPG Form 501, Completion Report. Any non-compliance with the safety rules could result in my company being subjected to administrative enforcement proceedings and/or administrative penalties under Sections 113.161-113.164 and 113.231, 113.232, Texas Natural Resources Code, Chapter 113.

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this application; it was prepared by me or under my supervision and direction, and the data and facts stated herein are true, correct, and complete to the best of my knowledge. I also understand the LP-Gas Division must be notified of any changes to this application as soon as possible which may necessitate re-notification of adjoining property owners as required by Section 9.21 of the LP-Gas Safety Rules.

_____
(Printed name of Applicant or Applicant's Representative)

_____
(Authorized signature of Applicant or Applicant's Representative)

_____
(Date)

NOTICE OF EXCEPTION TO AFFECTED PARTIES

TO: _____
(Name of person or entity to receive notice.)

_____
(Address)

_____
(City) (State) (Zip Code)

(If mobile equipment is involved, contact the Railroad Commission of Texas, LP-Gas Division, for appropriate names and addresses.)

NOTICE

You have been notified as a person or governmental entity entitled to notice of an application for exception to the LP-Gas Safety Rules of the Railroad Commission of Texas, LP-Gas Division, and are hereby given notice that

_____
(Full name of applicant or person requesting exception)

of _____
(Address) (City) (State) (Zip code)

has requested exception(s) to Section(s) _____
(Safety Rule Reference(s)

of the LP-Gas Safety Rules. The exception, if granted, is located at:

_____
(Street address or other accurate description of property)

THE FOLLOWING SPACE IS TO BE USED BY THE PARTY WHICH RECEIVED NOTICE

I _____, as an affected party have been served notice and have received a copy of Pages 1 and 2 of the applicant's request for an exception to the LP-Gas Safety Rules. **I Object Do Not Object** *(Circle One)* to the exception requested. If you object, your objections must be filed with the LP-Gas Division in writing within 18 days of the date the application was mailed. Any questions about this procedure or the particular exception requested must be sent to the attention of the LP-Gas Division director. You may request a copy of the complete application on file with the division. A hearing will be held when the Railroad Commission of Texas receives proper objections. You may use the reverse side of this page to list and explain any reasons for objection. I have read and understand the notice herein.

_____ _____
(Printed name of affected party) (Date)

_____
(Signature of affected party)

OBJECTION	REASON FOR OBJECTION

Return to:
Railroad Commission of Texas
LP-Gas Division
P.O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

FRANCHISE TAX CERTIFICATION

Notice to Corporations

Any applicant that applies for an original or renewal LP-gas license must file LPG Form 26, Franchise Tax Certification, with the LP-Gas Division. This will assist the division in complying with the provisions of House Bill 175 passed by the 70th Legislature. Under this law, state agencies are prohibited from issuing any permits or licenses, or awarding contracts to corporations delinquent in paying its franchise tax.

As an alternative to filing this form, a corporation may request a Certificate of Good Standing from the Comptroller of Public Accounts and file a copy of that certificate with the LP-Gas Division. To obtain a certificate, free of charge, call the comptroller's office at 1-800-252-5555 or at Austin, TX (512) 463-4600 and provide your corporation name, taxpayer ID number, and corporate charter number. Otherwise, complete the following:

TAX CERTIFICATION STATEMENT

I hereby certify the statement indicated below applies to the named applicant, and I understand that making a false statement constitutes grounds for the suspension or cancellation of my LP-gas license granted under authority of this statement:

The applicant's name below is:

☐ Exempt from or not subject to the State of Texas Franchise Tax

☐ Subject to and not delinquent on the State of Texas Franchise Tax

Corporation Name	Taxpayer ID	Charter Number

Representative's Signature	Representative's Name (print)

Representative's Title	( ) . Area Code/Phone Number	Date

State of:

County of:

_____, personally appeared before me, and being first duly sworn declared he signed this franchise tax certification notice in the capacity designated, if any, and further states he has read the above application, and the statements therein contained are true.

Subscribed and sworn to before me this _____ day of _____, 19 _____.

_____
Notary Pubic Signature

(Seal)

_____
Notary Public Printed or Typed Name

My commission expires _____

Return to:

Railroad Commission of Texas
LP-Gas Division
P.O. Box 12967
Austin, Texas 78711-2967

LPG FORM 26
Revised 12/90

RAILROAD COMMISSION OF TEXAS

LIQUEFIED PETROLEUM GAS DIVISION

APPLICATION FOR TESTING LABORATORY REGISTRATION

NOTICE: Each registration must be renewed on an annual basis. No person may conduct LP-gas container testing activities covered by the Texas Natural Resources Code, Chapter 113, until properly registered as required by Section 9.4 of the LP-Gas Safety Rules.

Please type or print in black ink as all documents are microfilmed.

Registrant's Name:

(1) Company Name _____

DBA _____ DBA _____

DBA _____ DBA _____

DBA _____ DBA _____

Official Communications:

(2) _____ Contact Person (3) _____ (A/C) Telephone Number (4) _____ County

(5) _____ Registrant's Address (6) _____ City (7) _____ State (8) _____ Zip Code

Registrant is a (9) ☐ Sole Proprietor

Check Appropriate Box

☐ Partnership

☐ Corporation, which is incorporated under the laws of the State of (10) _____ .
If other than Texas, is the corporation registered with the Secretary of State and authorized to do business in Texas? (11) _____

☐ Other (specify type) _____

(12) List owner of sole proprietorship, partners in partnership, or officers of corporation.

Name	Capacity	Address

(13) List each method of container testing proposed (As required by Section 9.34, attach written practice, testing procedure(s), and eye examination(s) report(s).

(Continued on back)

RRC USE ONLY
Register No. _____
Amt. _____ Type _____
Approved _____ Date _____

LPG FORM 27
New 12/90

IT IS FURTHER UNDERSTOOD THAT I, OR WE, ARE FAMILIAR WITH THE REQUIREMENTS OF CHAPTER 113, TEXAS NATURAL RESOURCES CODE, WITH REGARD TO PROVISIONS PERTAINING TO THE DUTIES OF A REGISTRANT AND THAT I, OR WE, WILL COMPLY WITH EACH PROVISION CONTAINED IN SAID ACT, AND WILL FURNISH ALL ADDITIONAL INFORMATION REQUESTED BY THE RAILROAD COMMISSION OF TEXAS PURSUANT TO ITS REGULATORY AUTHORITY.

I, OR WE, AGREE THAT ANY CHANGE IN OWNERSHIP, OR CHANGE IN NAME, WILL BE REPORTED TO THE RAILROAD COMMISSION OF TEXAS BY REGISTERED MAIL EITHER PRIOR TO THE CHANGE IN OWNERSHIP, CHANGE IN NAME, TESTING ANY LPG CONTAINER UNDER NEW OWNERSHIP, OR UNDER A CHANGED NAME.

I DECLARE UNDER PENALTIES PRESCRIBED IN SECTION 91.143, TEXAS NATURAL RESOURCES CODE, I AM AUTHORIZED TO SIGN THIS REPORT, AND I HAVE EXAMINED THIS REPORT AND MADE ANY CORRECTIONS, ADDITIONS, OR DELETIONS NECESSARY, AND THE DATA AND FACTS STATED HEREIN IS TRUE, CORRECT, AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

(18) **FOR USE BY SOLE PROPRIETOR OR PARTNERSHIP ONLY:**

Date

Signature of Owner or Partner

(19) **FOR CORPORATE USE ONLY:**

(Corporate Seal)

Name(s) under which business is to be transacted

(20) Signature of Subscriber *

ATTEST:

Capacity of Subscriber */**

(21) Corporate Secretary

Date

* Subscriber must be president or vice-president of corporation unless exception is granted by LP-Gas Division.

** The Board of Directors may file with this form a Power of Attorney designating a corporate officer whose signature will bind the corporation. In such case only one signature is necessary.

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
APPLICATION FOR TENTATIVE APPROVAL OF LP-GAS INSTALLATION

Site ID No.

Plan No.
(RRC Use Only)

Instructions: Section 9.29 of the LP-Gas Safety Rules requires this form to be filed, and tentative approval granted, prior to placing an LP-gas container (or installing a LP-gas system) at a school, convalescent center, hospital, retail cylinder filling, motor/mobile fuel station,and any LP-gas commercial or bulk storage site having a aggregate water capacity (a.g.w.c.) of 10,000 gallons or greater. Use a separate form for each facility type described above. A nonrefundable fee of $25 must accompany each original application. If the form is returned for correction, or revised plans and specifications are submitted, a nonrefundable fee of $5.00 must accompany each resubmission. Make checks payable to the Railroad Commission of Texas-LPG. Do not send cash. The person signing the form must be the applicant or an authorized representative of the applicant.

PART A APPLICANT INFORMATION

Applicant's name _____ (Individual) Representing _____ (Applicant's company name)

Lic/Exemption No. _____ (If applicable) Mailing Address _____

City _____ State _____ Zip Code _____ Tel. ( ) _____

PART B INSTALLATION INFORMATION (Check applicable box and insert additional subclassification, such as , Stand-by or Hot-Mix Plant, etc.,in the other category or if LP-gas container(s) are used for multiple service indicate secondary usage)

FACILITY TYPE:

☐ School ☐ Hospital ☐ Convalescent center ☐ Commercial ☐ Bulk Storage

☐ Retail cylinder filling motor/mobile fuel station LPG license status: Pending _____ (Yes/No) Issued Lic. No. _____

☐ Other _____

Facility Operator's Name _____ Mailing Address _____

City _____ State _____ Zip Code _____ Tel. ( ) _____ County _____

Geographic location _____

Contact Person _____ Title _____ Social Security Number ___ - ___ - ___
(SSN applicable to licensed LPG operator only)

PART C LPG CONTAINER & BULKHEAD INFORMATION (DO NOT COMPLETE, if an LPG container is not involved, or if container is to be reconnected in the exact same location, or if only bulkhead(s) and ESV's are added to an existing installation). PRIOR TO INSTALLATION APPROVAL, LP-gas container or equipment approval may be required. An LPG Form 5, Manufacturer's Data Report, LPG Form 8, Manufacturer's Report of Pressure Vessel Repair, Modification and Testing, LPG Form 23, Statement in Lieu of Container Testing, and LPG Form 502, Application for LP-Gas Equipment and Component Approval, may be required. The need for additional forms to be submitted under Sections 9.29(c) or 9.34 of the LP-Gas Safety Rules is dependent on full disclosure concerning container documentation. Search fees for data reports are $5.00 for each 1/2 hour or fraction thereof.

CONTAINER STATUS (Check all boxes which may apply)

☐ New Container(s) ☐ Container Relocation(s) ☐ Container Addition(s) ☐ Container Replacement(s)

BULKHEAD(S) & EMERGENCY SHUT-OFF VALVES (ESV's) (Check two boxes, one of each set of options, if applicable)

Type Bulkhead: ☐ Vertical ☐ Horizontal **Type of ESV's:** ☐ Cable ☐ Pneumatic

CONTAINER DOCUMENTATION (If new container purchase, container unbuilt, insert fabricator's drawing number in place of serial number)

(1)MFG. Name _____ Ser. No. _____ W.G. _____ Yr. Built _____

(2)MFG. Name _____ Ser. No. _____ W.G. _____ Yr. Built _____

Insert one or more of the following dates relative to each used container listed:

Date container removed from previous site: (1) _____ (2) _____

Date container last filled with LP-gas: (1) _____ (2) _____

Date container last inspected by LP-Gas Division: (1) _____ (2) _____

If one or more of the containers listed are from out-of-state, indicate location, type of prior service and previous operator's business:

City: (1) _____ (2) _____ State: (1) _____ (2) _____

Used in LPG, NH3, Other _____ (Type service) at _____ facility

for (1) _____ (Type of installation) (2) _____ (Type of installation)

LPG Form 500
Revised 12/90

(Continued on back)

X-50

PART D KEY COMPLIANCE ISSUES (Answer all items. A false or nonresponsive answer will require an explanation under additional comments.)
Insert "T" for true, "F" for false

_____ There are no overhead transmission lines within six feet of any LPG container.
_____ There are no flammable liquid aboveground containers within 20 feet of any LPG container.
_____ LP-gas in the liquid phase will not be piped into a building.
_____ LP-gas liquid or vapor piping will not be installed in a basement.
_____ Only piping materials and fittings that comply with the LP-Gas Safety Rule(s) will be used.
_____ Only RRC approved or AGA, FM, UL, listed appliances for LP-gas will be installed.
_____ The LP-gas system, including equipment and appliances, will be pressure tested free of leaks after installation is completed.
_____ All LPG equipment and components have been RRC approved for use in Texas.
_____ Regulation fencing/guard rails, if installed, will meet two foot clearances from container, bulkheads, material handling and dispensing equipment.
_____ A canopy/shed, if installed, will not extend over top of the LPG container.
_____ All work done or subcontracted out for LP-gas installation construction will be performed by RRC certified or licensed personnel or an ultimate consumer which has received a license exemption from the division.
_____ An installation contract has been awarded to a licensed installer, if different from applicant, indicate LPG license number _____.

ADDITIONAL COMMENTS _____

PART E SUPPORTING DOCUMENTATION (Attach applicable documents based on description provided below. An asterisk by document listed means document or drawing must be to scale. DRAWINGS MUST INDICATE ALL DISTANCES FROM LP-GAS CONTAINERS, BULKHEADS, VAPORIZERS, AND DISPENSERS to all buildings on the premises, PROPERTY LINES, LEASE LINES and where applicable, to RAILROAD, PIPELINE, UTILITIES AND HIGHWAY RIGHT-OF-WAY. Since the above dimensions must be shown on scaled drawings, the accuracy must be indicated to the nearest foot. Check all boxes appropriate to facility type which is enclosed with your application.)

☐ LPG FORM 5 ..... (Only if requested by the division)
☐ LPG FORM 8 ..... (When containers required to be tested by division)
☐ LPG FORM 19 ..... (Required for new licensed retail outlets or changes in inventory on existing installation)
☐ LPG FORM 23 ..... (Containers out-of-service more than 1 year, or if requested by division)
☐ LPG FORM 500 ..... (Required for new or expired re-application)
☐ LPG FORM 500A ..... (Required for sites more than 9,999 w.g.a.c.)
☐ LPG FORM 501 ..... (DO NOT FILE in lieu of final inspection)
☐ LPG FORM 502 ..... (Required if requested by division)
☐ WRITTEN WAIVER ..... (Required for sites adjacent to private right-of-ways.)
☐ $25.00 ORIGINAL FILING FEE ..... (Required for new or expired re-application)
☐ $5.00 REFILING FEE ..... (Required for each submission)
☐ LAND ABSTRACT SHOWING 500 FOOT RADIUS AND NAMES OF ADJOINING PROPERTY OWNERS ..... (Required for sites more than 9,999 w.g.a.c.)
☐ CERTIFIED MAIL RETURN RECEIPTS ..... (Required for LPG FORM 500A)
☐ * SURVEY PLAT ..... (If operator owns installation site)
☐ * LEASE AGREEMENT WITH LEASE EXHIBIT ..... (If operator does not own site)
☐ * CONTAINER INSTALLATION DETAIL ..... (Required only if plat is too small to show all installation details)
☐ LPG APPLIANCE LAYOUT, BTU, TYPE ..... (Required for all vapor systems ONLY)
☐ LPG PIPING SYSTEM LAYOUT ..... (Required on all facility types including remote pipe risers and manual and automatic dispensers except self-contained service station units)

PART F CERTIFICATION STATEMENT AND AUTHORIZED SIGNATURE

I certify I will not commence LP-gas installation construction until tentative approval has been granted. If tentative approval is granted, I understand I must fully complete the installation for final inspection within one year of the approval date and must notify the division in writing the installation is ready for a final inspection before the tentative approval expiration date. Failure to complete the installation within this time period without an extension of time granted by the LP-Gas Division director will automatically void my original tentative approval, necessitating filing of a new application and fee should I wish to pursue the same installation. I certify this installation will be completed in accordance with the plans and specifications contained herein and in compliance with all applicable safety rules of the LP-Gas Division, all applicable statutes of the State of Texas and any Commission Order (where applicable), which may be entered pertaining to this installation. I understand that any changes regarding the container size and location or modification of the LP-gas installation will require resubmission of plans immediately. LP-gas container(s) will not be installed before tentative approval is granted or filled with gas without express authorization from the LP-Gas Division, until such time tentative approval is granted. I also understand non-compliance may result in my company being subjected to administrative enforcement proceedings and/or administrative penalties under Sections 113.161-113.166 and 113.231 and 113.232, Texas Natural Resources Code, Chapter 113. If this application concerns the installation of a stationary LP-gas installation of 10,000 gallons or more, aggregate capacity, then the following applies. Also, I certify that each real property owner, as described in Section 9.28(b) of the LP-Gas Safety Rules has received notice of this LP-gas installation on LPG Form 500(a). I understand that failure to do so may result in the convening of a public hearing under Section 9.28(d) of the LP-Gas Safety Rules. I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this affidavit, that it was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct and complete, to the best of my knowledge.

_____
(Printed name of Applicant or Applicant's Representative)

_____
(Authorized Signature of Applicant or Applicant's Representative)

_____
(Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

FOR RRC USE ONLY		DEPT INIT.
Initial Review	_____	_____
Final	_____	_____
	Dates	

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
NOTICE OF LP-GAS INSTALLATION

TO: _____
(Name of person or entity to receive notice)

_____
(Address)

_____
(City) (State) (Zip Code)

NOTICE

You have been identified as a person or governmental entity entitled to notice of proposed LP-gas storage installation. Under the LP-Gas Safety Rules of the Railroad Commission of Texas, LP-Gas Division, you are hereby given notice that _____
(Name of applicant or person seeking installation)

of _____
(Address) (City) (State) (Zip Code)

plans to install _____ LP-gas storage containers with an aggregate capacity
(Number of proposed containers)

of _____ gallons, on the property located at:
(Total aggregate capacity of proposed containers)

_____

_____
(Geographic location of proposed LP-gas storage site)

This will change the aggregate capacity of storage on the site to a total of _____ gallons.
(Total combined capacity of existing and proposed storage)

Under Section 9.29 of the LP-Gas Safety Rules, the storage must be approved by the LP-Gas Division of the Railroad Commission of Texas. Under Section 9.28 of the LP-Gas Safety Rules you are given the right to comment on or object to this proposed installation. All comments or objections must be addressed to the director of the LP-Gas Division at the address indicated on the backside of this form. The division may consider amended objections received from affected parties should subsequent information be filed by the applicant. Division files are open record, and you may order a copy of the LP-Gas Safety Rules from the division. **All comments or objections must be received no later than 18 days after the day of mailing this notice. Comments and objections are considered received by the Railroad Commission of Texas on the day of actual receipt-not on the day of mailing.** You may state any objections and comments on this form; however, you must make a proper objection for it to be considered. Under Section 9.28, a proper objection to a proposed installation must include a statement alleging either (A), (B), or (C) below, and contain supporting facts. Please check the applicable statement below and provide supporting facts or any comments on the reverse side.

_____ (A) I object on the basis of noncompliance with the LP-Gas Division Safety Rules, with reference to the particular rules(s) relied upon;

_____ (B) I object on the basis of noncompliance with the statutes of the State of Texas, with reference to the particular provision relied upon;

_____ (C) I object on the basis of facts which indicate that the proposed installation constitutes a danger to the public health, safety, and welfare;

_____ (D) I have no objection or comments to make regarding the proposed installation described above.

LPG Form 500a
Revised 12/90

(Continued on back)

Under the provisions of the LP-Gas Safety Rules, if proper objections to a proposed installation are filed, a hearing on the installation proposed is required to be held. A hearing will determine whether the installation, as designed, meets all rules and regulations of the Railroad Commission of Texas, all applicable statutes of the State of Texas, and whether it constitutes a danger to the public health, safety, and welfare. These are the only areas of inquiry which will be addressed. In order for this form to be considered, it must be dated and signed in ink by the addressee or duly authorized agent of the addressee.

ANY QUESTIONS ABOUT THIS PROCEDURE OR THE PROPOSED INSTALLATION SHOULD BE ADDRESSED TO THE OFFICE OF PLAN REVIEWS OF THE LP-GAS DIVISION.

I have read and understood the notice herein.

_____
(Printed name)

_____
(Signature of addressee or agent)

_____
(Date)

COMMENTS OR FACTS SUPPORTING OBJECTIONS

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
LIQUIEFIED PETROLEUM GAS DIVISION
COMPLETION REPORT

Site ID No.
(RRC Use Only)

Instructions To Licensee:
As required by Sections 9.29(b), (c), and (g) of the LP-Gas Safety Rules, this report is to be filed with the commission, along with applicable fees, and postmarked within 10 days from the date of the LP-gas installation completion covering any non-residential LP-gas installation of less than 10,000 aggregate water gallon capacity subject to the rules and regulations of the commission. A manufacturer's data report(s) or test report(s) may be requested at a later date by the LP-Gas Division in accordance with Sections 9.29(h) and 9.34 of the LP-Gas Safety Rules. The filing fee is $5.00 for each container. The resubmission fee is $5.00 per completion report. **PLEASE TYPE OR PRINT IN BLACK INK FOR MICROFILMING PURPOSES**

Name of Installation: _____

Mailing Address: _____
P. O. Box/Street Number City State Zip Code

Physical Address:
(Give complete geographical location) _____

_____
City County

Type of Installation: (Mark applicable box)

☐ Licensed Bulk Storage ☐ Retail Cylinder Filling/Service Station ☐ Commercial ☐ Stand-by

☐ Private Cylinder Filling ☐ Motor/Mobile Fuel ☐ Private Forklift Refueling

LP-Gas System: ☐ System Pressure Tested ☐ Appliance Operation Checked ☐ N/A

• • • • •

I hereby notify the Railroad Commission of Texas, LP-Gas Division, the LP-gas installation described above was completed on _____ (Date) in accordance with the LP-Gas Safety Rules and is now ready for commission inspection. I understand that failure to give timely written notification of this installation or any other LP-gas installation to the LP-Gas Division and/or if the LP-gas container is connected to supply piping and/or placed into LP-gas service without having first ascertained full compliance with the requirements of the LP-Gas Safety Rules, that I, or my company could be subjected to administrative enforcement proceedings and/or be criminally fined under Sections 113.161 - 113.164, 113.231 and 113.232, Texas Natural Resources Code, Chapter 113. Failure to comply may result in the filing of a criminal complaint and/or probation, suspension, or cancellation of my LP-gas license.

_____ _____
Authorized signature Date

_____ _____
Installer's licensed company name License number

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 501
Revised 12/90

(Continued on back)

Container Information: ☐ New Container (New Installation) ☐ Container Relocation ☐ Container Addition ☐ Container Replacement Only

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Mfg. Name ______ Serial No. ______ WG Size ______ Yr. Built ______

Other Comments: ______

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

APPLICATION FOR LIQUEFIED PETROLEUM GAS EQUIPMENT AND COMPONENT APPROVAL

Instructions to Applicant:
As required by Section 9.36 of the LP-Gas Safety Rules, this application is to be filed with the LP-Gas Division requesting approval of LP-gas equipment and component(s). Include with this application: drawings, design calculations, component materials specifications, laboratory test reports for LP-gas and component materials compatability, pressure and temperature rating, safety factor, illustrated parts diagram with component parts description, illustrations, brochures, photographs, and other documents or information that would provide creditibility to the submitted application. **Please type or print in black ink for microfilming purposes.**

APPLICANT'S COMPANY: _____

APPLICANT'S REPRESENTATIVE'S NAME: _____

MAILING ADDRESS: _____

_____

CITY STATE ZIP CODE

TELEPHONE NO.: ( ) _____ TOLL FREE: _____

FAX: _____

TRANSMITTAL LISTING OF DOCUMENTS:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

IF ADDITIONAL SPACE IS NEEDED ATTACH ADDITIONAL SHEET(S).

_____ _____

APPLICANT'S REPRESENTATIVE'S SIGNATURE DATE

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG Form 502
New 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

APPLICATION TO INSTALL A LIQUEFIED PETROLEUM GAS (LPG) OR COMPRESSED NATURAL GAS (CNG) SYSTEM ON SCHOOL BUS/MASS TRANSIT VEHICLES

INSTRUCTIONS: Section 9.187 of the LP-Gas Safety Rules and Section 13.24 of the Regulations for Compressed Natural Gas require this form to be filed by the ultimate consumer or licensee performing the installation or their authorized representative. This form will be returned to the sender as official notice of nonapproval, tentative approval, and if the converted vehicle(s) can be immediately placed into service upon installation completion. No filing fee is required. For subsequent conversions, use LPG Form 504/CNG Form 1504.

NOTE: DO NOT FILE THIS FORM UNLESS YOUR LICENSE OR EXEMPTION HAS BEEN ISSUED AND IS IN GOOD STANDING WITH THE RAILROAD COMMISSION OF TEXAS. An authorized applicant representative, may file this form on behalf of the installer or ultimate consumer, but the back side of this form must have the signature of both installer and the non-licensee applicant. Please type of print in black ink for microfilming purposes.

PROPOSED SPECIFICATIONS

As a LICENSEE/ULTIMATE CONSUMER *(circle one)* I intend to convert _____ school bus(es)/mass transit
(Number)

vehicle(s) *(circle one)* to use _____ as an alternate motor fuel.
(LPG, CNG, or Both)

The vehicle(s) will be operated by _____
(Name of transit authority, political subdivision or independent school district)

Operator Mailing Address _____

_____
(City) (State) (Zip Code) (Area Code/Telephone)

The conversions will be performed at _____
(Physical address of conversion site or transportation terminal for maintenance and repairs)

Installer _____

Installer Mailing Address _____

_____
(City) (State) (Zip Code) (Area Code/Telephone)

VEHICLE INFORMATION (Provide the vehicle identification number and at least one other item for proper identification of vehicle. Add separate inventory sheet if necessary.)

(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*

(Continued on back)

(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)

CONTAINER SPECIFICATIONS:

NO. LPG ________ W.P. ________ W.C. ________ NO. CNG ________ W.P. ________ C.I. ________

NO. LPG ________ W.P. ________ W.C. ________ NO. CNG ________ W.P. ________ C.I. ________

Manufacturer's Name (ea) ____________________ Manufacturer's Name (ea) ____________________

Total aggregate capacity ____________________ (Water gallons) Total aggregate capacity ____________________ (Standard cubic inches)

NOTE: Manufacturer's Data Report(s), may be required to be filed when requested by the division covering the container(s) to be installed.

ULTIMATE CONSUMER/LICENSEE CERTIFICATION STATEMENT

I certify the conversion(s) will be completed in accordance with the diagram and specifications contained herein and in compliance with all applicable safety rules and statutes of the LP-Gas Division and any commission order (where applicable) which may be entered pertaining to this installation. All work on the operator's equipment must be performed by employees qualified by the Railroad Commission of Texas. Only FM, UL, AGA, CGA (Canadian), or RRC approved equipment components will be installed. I understand any changes regarding the relocation of the system component will necessitate resubmission of LPG Form 503/CNG Form 1503. I also understand non-compliance may result in an administrative enforcement proceeding or criminal fee against me under Sections 113.161 - 113.164, 113.231 and 113.232 or Sections 116.141 - 116.146, Texas Natural Resources Code, that I am authorized to make this affidavit, and the data and facts herein are true, correct and complete to the best of my knowledge.

Applicant's Name ____________________

Mailing Address ____________________

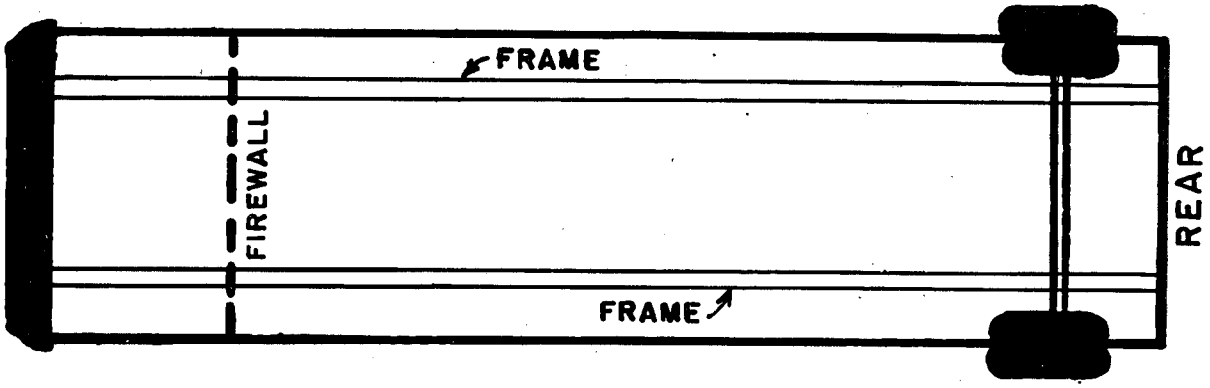
(City) *(State)* *(Zip Code)* *(Telephone Number)* *(RRC Lic. Number, If applicable)*

(Printed Name of Applicant or Applicant's Authorized Representative)

(Signature of Applicant or Applicant's Authorized Representative)

(Date)

TYPICAL BUS INSTALLATION DIAGRAM



Special Notes: _____

_____

_____

_____

_____

INSTRUCTIONS: To indicate type of conversions, check the appropriate box(es) and locate the following items using symbols shown on the adjacent diagram.

Motor Fuel Options: ☐ LPG ☐ CNG ☐ DUAL LPG & CNG

Show engine location and route of motor fuel line(High pressure line only _____)
Material

LEGEND

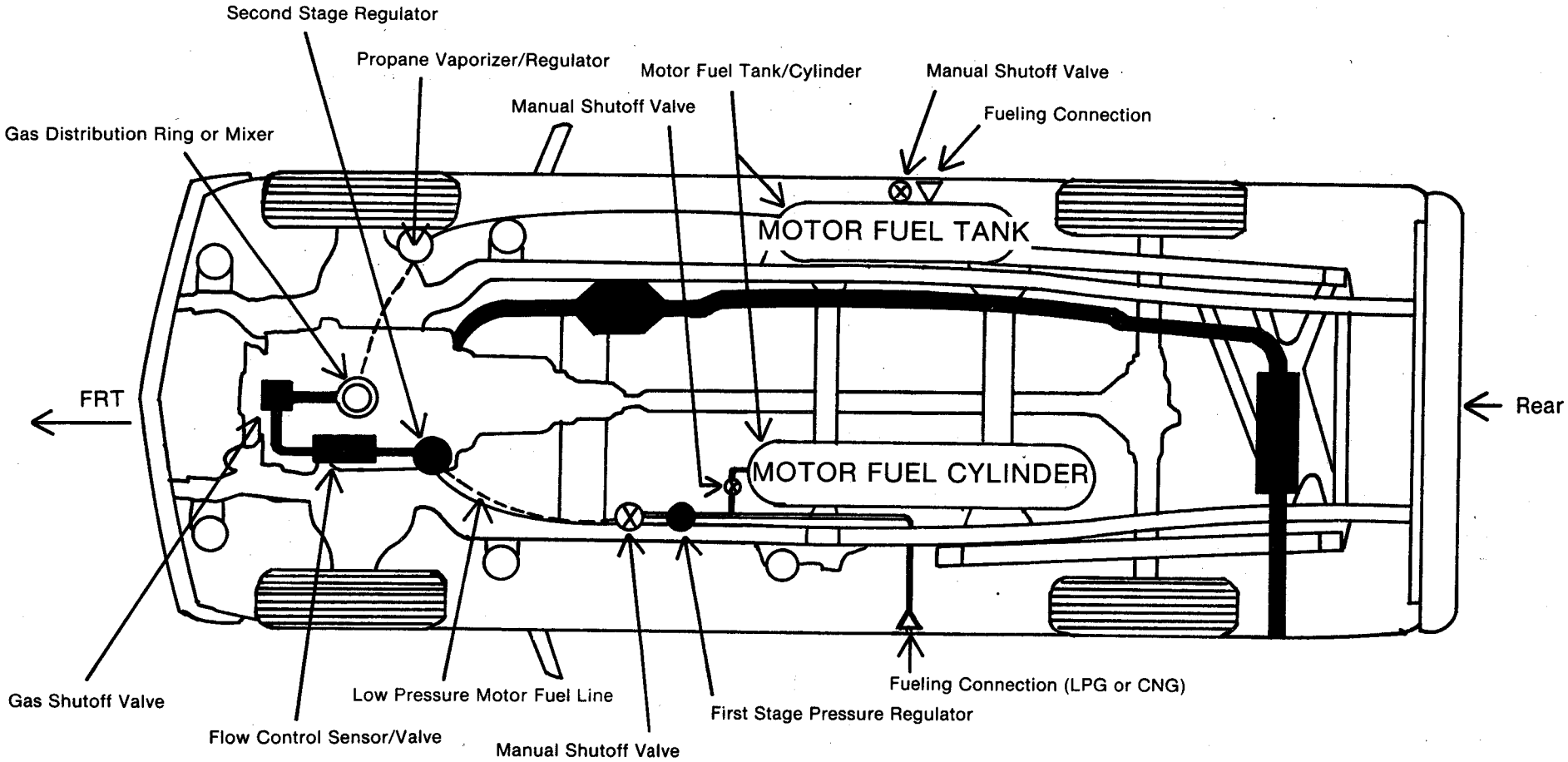
△ Fueling connection (LPG or CNG) ○ Propane vaporizer/regulator
● Natural gas regulator ⊗ Manual shut-off valve
_____ Motor fuel line tank pressure ⬭ Motor fuel cylinder/tank
— — — Low pressure motor fuel line

FRAME TYPE (Check one)
☐ Conventional
☐ Semi-forward
☐ Forward controlled

Show all tank/cylinder locations on diagram and indicate number of tanks/cylinders having the same specifications.

* Example of typical drawing to be submitted on back.

EXAMPLE OF TYPICAL INSTALLATION DIAGRAM
MASS TRANSIT VEHICLE/BUS



INSTRUCTIONS: To indicate type of conversions, check the appropriate box(es) and locate the following items using symbols shown on the adjacent diagram.

Motor Fuel Options: ☐LPG ☐CNG ☐ DUAL LPG & CNG

Show engine location and route of motor fuel line
(High pressure line only _____)
(Material)

LEGEND

- △ Fueling connection (LPG or CNG)
- ○ Propane vaporizer/regulator
- ● Natural gas regulator(s)
- ⊗ Manual shut-off valve
- _____ Motor fuel line tank pressure
- ⬭ Motor fuel cylinder/tank
- - - Low pressure motor fuel line

Show all tank/cylinder locations, on diagram and indicate number of tanks/cylinders having the same specifications.

FRAME TYPE (Check one)

- ☑ Conventional
- ☐ Semi-forward
- ☐ Forward controlled

X-61

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

NOTICE OF SUBSEQUENT CONVERSION BY THE SAME ULTIMATE CONSUMER OR LICENSEE

INSTRUCTIONS: Section 9.187 of the LP-Gas Safety Rules and Section 13.24 of the Regulations for Compressed Natural Gas requires this form to be filed by the same ultimate consumer or licensee prior to subsequent conversions in accordance with the previously approved specifications. In order to file this form, you must have obtained a prior tentative approval on LPG Form 503/CNG Form 1503 to install the last previous LPG or CNG engine fuel systems for the same operator (transit authority, political subdivision, or independent school district). This form will be returned to the sender as official notice of non-approval or approval, and if the converted vehicle(s) can be immediately placed into service upon installation completion. If you did not perform the latest LPG or CNG conversion, you must file a LPG Form 503/CNG Form 1503.

NOTE: DO NOT FILE THIS FORM UNLESS YOUR LICENSE OR EXEMPTION HAS BEEN ISSUED AND IS IN GOOD STANDING WITH THE RAILROAD COMMISSION OF TEXAS. Please type or print in black ink for microfilming purposes.

PROPOSED SPECIFICATIONS

As a LICENSEE or ULTIMATE CONSUMER *(circle one)* I intend to convert an additional _____ (Number) school bus(es)/mass transit vehicle(s) *(circle one)* to use _____ *(LPG, CNG, or Both)* as an alternate motor fuel.

The vehicle(s) will be operated by _____
(Name of transit authority, political subdivision or independent school district)

Operator Mailing Address _____

_____
(City) *(State)* *(Zip Code)* *(Telephone Number)*

The conversions will be performed at _____
(Physical address of conversion site or transportation terminal for maintenance and repairs)

Installer _____

Mailing Address _____

_____
(City) *(State)* *(Zip Code)* *(Telephone Number)*

VEHICLE INFORMATION (Provide at least two items for proper identification of vehicle. See reverse side for additional inventory if necessary)

_____
(Vehicle Unit Number) *(License Plate Number)* *(Vehicle Identification Number)*

_____
(Vehicle Unit Number) *(License Plate Number)* *(Vehicle Identification Number)*

ULTIMATE CONSUMER/LICENSEE CERTIFICATION STATEMENT

I certify the conversion(s) will be completed in accordance with the diagram and specifications granted tentative/contruction approval on _____ *(Date)* for _____ *(Operating Entity)* and will be installed in compliance with all applicable safety rules and statutes of the LP-Gas Division and any commission order (where applicable) which may be entered pertaining to this installation. All work on the operator's equipment must be performed by employees qualified by the Railroad Commission of Texas. Only FM, UL, AGA, (CGA (Canadian), CNG only) or RRC approved equipment components will be installed. I understand any changes regarding the relocation of the system component will necessitate resubmission of LPG Form 504/CNG Form 1504. I also understand noncompliance may result in an administrative enforcement proceeding or criminal fee against me under Sections 113.164 - 113.166 and 113.231 - 113.236 or Sections 116.141 - 116.146, Texas Natural Resources Code, I am authorized to make this affidavit, and the data and facts herein are true, correct and complete to the best of my knowledge.

Applicant Name _____

Mailing Address _____

_____
(City) *(State)* *(Zip Code)* *(Telephone Number)* *(RRC Lic. Number (If applicable)*

_____
(Printed Name of Applicant)

_____
(Authorized Signature of Applicant) *(Date)*

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 504/CNG FORM 1504
New 12/90

(Continued on back)

(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)
(Vehicle Unit Number)	(License Plate Number)	(Vehicle Identification Number)

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

CERTIFICATE OF INSURANCE
WORKERS' COMPENSATION INCLUDING EMPLOYER'S LIABILITY

_____
(Name of Insurance Company)

(hereinafter called company) of _____
(Home Office Address of Insurance Company)

does certify that _____
(Name(s) of Insured)

of _____ has been issued its policy or policies herein described,
(Address of LP-Gas Licensee)

which by attachment of the Texas Notice of Material Change Endorsement number WC 42 06 01 has been amended, providing Workers' Compensation Coverage, including Employer's Liability Coverage, in accordance with the laws and regulations of the State of Texas for those persons doing business and or employing workers in Texas, for the period herein specified.

Whenever requested by the Railroad Commission of Texas, the company agrees to furnish to the commission a duplicate of said policy and all endorsements thereon. Further, the company agrees it will only cancel this certificate of insurance as provided in the Texas Natural Resources Code, Chapter 113, and Section 9.23 of the LP-Gas Safety Rules. The company agrees to send notice of any cancellation or alteration of the insurance described herein to the LP-Gas Division in Austin, Texas.

Endorsement number WC 42 06 01 which is attached to the policy and any successor policies, may not be cancelled without cancellation of the policy or policies to which it is attached. Such endorsement requires the company to give the Railroad Commission of Texas, LP-Gas Division, 30 days written notice before cancellation. The 30 days notice commences on the date the notice is actually received by the LP-Gas Division.

Policy No. _____ , (and any successor policies) referenced above, is

effective from _____ and is continuous until cancelled.
(Date and time policy takes effect)

Countersigned at _____ this _____ day of _____ , 19 _____ .

_____
(Printed Name of Representative)

_____
(Signature of Authorized Insurance Company's Representative)*

( ) _____
(Area Code/Telephone Number) (Date)

*Restricted to those names authorized by the insurance company. Only the authorized signature previously filed with the LP-Gas Division will be accepted.

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 996A
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

STATEMENT IN LIEU of INSURANCE FILING CERTIFYING WORKERS' COMPENSATION COVERAGE including EMPLOYER'S LIABILITY COVERAGE

Effective this date _____ _____ hereby states that
(Name of licensee/applicant)
no employees of the applicant or licensee are involved in LP-gas related activites in Texas as described by the Texas Natural Resources Code and the LP-Gas Safety Rules and consequently, is filing this statement in lieu of workers' compensation including employers liability insurance certificate.

The applicant states that prior to employing or using any person in LP-gas related activities in Texas, which requires insurance under the provisions of the Texas Natural Resources Code or the LP-Gas Safety Rules, the applicant or licensee will procure the insurance required by the Code and the safety rules, and will submit proof of such insurance to the LP-Gas Division in Austin, Texas.

This statement is signed with full knowledge of the provisions of Section 91.143, Texas Natural Resources Code, which set forth penalties for the submission of false information to the Railroad Commission of Texas.

_____
(Printed Name)

_____
(Signature)

( ) _____
(Area Code/Telephone Number) (Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 996B
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

CERTIFICATE OF INSURANCE
MOTOR VEHICLE BODILY INJURY AND PROPERTY DAMAGE LIABILITY

_____
(Name of Insurance Company)

(hereinafter called company) of _____
(Home Office Address of Insurance Company)

does certify that _____
(Name(s) of LP-Gas Insured)

of _____ has been issued its policy or policies herein described
(Address of LP-Gas Insured)

which by attachment of the Liquefied Petroluem Gas Licensee Motor Vehicle Endorsement-Texas Railroad Commission Form number TE 23 26A, has been amended to provide Motor Vehicle Liability insurance coverage (Motor Vehicle Bodily Injury and Property Damage Liability insurance) covering obligations imposed upon such insured by the provisions of the Texas Natural Resources Code, Chapter 113, and all commission insurance rules in which the commission has jurisdiction or regulations promulgated in accordance therewith.

The limits of the company's liability are as stated in the policy, but such limits are **not less** than $500,000 combined single limit for bodily injuries or death for all persons injured or killed in any accident, and loss or damage in any one accident to property of others. Whenever requested by the commission, the company agrees to furnish to the commission a duplicate of said policy with any endorsements thereon. Further, the company agrees it will only cancel this certificate of insurance as provided in the Texas Natural Resources Code, Chapter 113, and Section 9.23 of the LP-Gas Safety Rules. The company agrees to send notice of any cancellation or alteration of the insurance described herein to the LP-Gas Divsion in Austin, Texas.

Endorsement number TE 23 26A which is attached to the policy and any successor policies may not be cancelled without cancellation of the policy to which it is attached. Such endorsement requires the company to give the Railroad Commission of Texas, LP-Gas Division, 30 days written notice before cancellation. The 30 days notice commences on the date the notice is actually received by the LP-Gas Division.

Policy No. _____ (and any successor policies) referenced above is effective from _____
(Date and time policy takes effect)
and is continuous until cancelled.

Countersigned at _____ this _____ day of _____, 19 _____.

_____
(Printed Name of Representative)

_____
(Signature of Authorized Insurance Company's Representative)*

( )
_____
(Area Code/Telephone Number) (Date)

*Restricted to those names authorized by the insurance company. Only the authorized signature previously filed with the LP-Gas Division will be accepted.

Return to:
Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 997A
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
STATEMENT IN LIEU OF MOTOR VEHICLE BODILY INJURY AND PROPERTY DAMAGE LIABILITY INSURANCE

I, _____ (Name of Person Completing Statement), _____ (Title),

do make this statement that _____ (Name(s) under which LP-gas dealership is or will be operating) is licensed or applying for license pursuant to Section 113.082, Texas Natural Resources Code, as category _____ (letter) dealer, said applicant or licensee has not ☐ /will not ☐ _____ (effective date) operate a motor vehicle equipped with an LP-gas cargo container(s) or transport LP-gas in any manner by vehicle and, consequently, is filing this statement in lieu of a certificate of Motor Vehicle Bodily Injury and Property Damage Liability Insurance, and further, the applicant or licensee will file such a certificate with the Liquefied Petroleum Gas Division prior to the delivery or transportation of LP-gas by motor vehicle.

THE STATE OF: _____

COUNTY OF: _____

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this statement; I have personal knowledge of the above-stated facts; this statement was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge.

_____
(Printed Name)

_____
(Signature)

_____
(Area Code/Telephone Number) (Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 997B
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

CERTIFICATE OF INSURANCE
GENERAL LIABILITY

_____
(Name of Insurance Company)

(hereinafter called Company) of _____
(Home Office Address of Insurance Company)

does certify that _____
(Name(s) of Insured)

of _____
(Address of Insured)

has been issued its policy or policies herein described which by attachment of the Texas Changes-Amendment of Cancellation Provisions or Coverage change number CG 02 05 has been amended to provide general liability insurance, including premises and operations coverage, covering the obligations imposed upon the insured by the Railroad Commission of Texas, LP-Gas Division, in accordance with the provisions of the Texas Natural Resources Code, Chapter 113, and all commission insurance rules in which the commission has jurisdiction or regulations promulgated in accordance therewith. The limits of liability are as stated in the policy, but such limits are not less than the type of coverage checked:

( ) The limits of the company's liability are as stated in the policy, but such limits shall not be less than $25,000 Bodily Injury; $10,000 Property Damage, $25,000 Aggregate; or $25,000 Combined Single Limits.

( ) The limits of the company's liability are as stated in the policy, but such limits shall not be less than $50,000 Bodily Injury; $25,000 Property Damage, $50,000 Aggregate; or $50,000 Combined Single Limits.

( ) The limits of the company's liability are as stated in the policy, but such limits shall not be less than $300,000 Bodily Injury; $100,000 Property Damage, $300,000 Aggregate; or $300,000 Combined Single Limits.

( ) The limits of the company's liability are as stated in the policy, but such limits shall not be less than $300,000 Bodily Injury; $100,000 Property Damage, $300,000 Aggregate; or $300,000 Combined Single Limits, including Completed Operations and Products Liability Coverage, $300,000 Aggregate.

Whenever requested by the commission, the company agrees to furnish to the commission a duplicate of said policy and all endorsements thereon. Further, the company agrees it will only cancel this certificate of insurance as provided in the Texas Natural Resources Code, Chapter 113, and Section 9.23 of the LP-Gas Safety Rules. The company agrees to send notice of any cancellation or alteration of the insurance described herein to the LP-Gas Division in Austin, Texas.

Endorsement number CG 02 05 which is attached to the policy and any successor policies may not be cancelled without cancellation of the policy or policies to which it is attached. Such endorsement requires the company to give the Railroad Commission of Texas, LP-Gas Division, 30 days written notice before cancellation. The 30 days notice commences on the date the notice is actually received by the LP-Gas Division.

Policy No. _____ (and any successor policies).

Effective from _____
(date and time policy take effect)
and continuous until cancelled.

Countersigned at _____ this _____ day of _____, 19_____.

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

_____
(Printed Name of Representative)

_____
(Signature of Authorized Insurance Company's Representative)*

( )_____
(Area Code/Telephone Number) (Date)

LPG FORM 998A
Revised 12/90

*Restricted to those names authorized by the insurance company. Only the authorized signature previously filed with the LP-Gas Division will be accepted.

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

STATEMENT IN LIEU OF GENERAL LIABILITY INSURANCE AND/OR COMPLETED OPERATIONS AND PRODUCTS LIABILITY INSURANCE

I, _____ , _____ ,
(Name of Person Completing Statement) *(Title)*

do make this statement that _____ is licensed
(Name(s) under which LP-gas dealership is or will be operating)

or applying for license pursuant to Section 113.082, Texas Natural Resources Code, Chapter 113, as a category _____
(letter)

dealer, that said applicant or dealer is not engaging in any LP-gas operations _____
(effective date)

and, consequently, is filing this statement in lieu of a certificate of:

Check the appropriate box(es)

☐ general liability insurance. The licensee or applicant for a license must file the required insurance certificate with the division before engaging in any operations that requires general liability insurance.

☐ completed operations and products liability insurance. The licensee or applicant for a license must file the required insurance certificate with the division before engaging in any operations that requires completed operations and products liability operations insurance.

The applicant states that prior to performance of any activities which requires general liability coverage as set forth in the Texas Natural Resources Code, Chapter 113, or the LP-Gas Safety Rules, the applicant will procure the insurance as required by the Code and LP-Gas Safety Rules and will submit proof of such insurance to the LP-Gas Division in Austin, Texas.

THE STATE OF: _____

COUNTY OF: _____

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this statement; I have personal knowledge of the above-stated facts; this statement was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge.

_____
(Printed Name)

_____
(Signature)

_____
(Area Code/Telephone Number) (Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 998B
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

NOTICE OF INSURANCE CANCELLATION

Notice is hereby given to the Railroad Commission of Texas, LP-Gas Division, of the cancellation of a policy of insurance, described as follows:

Insured: _____

Address of Insured: _____
(Street or box)

_____
(City) (State) (Zip code)

Reason for Cancellation: _____

Type of Insurance: _____

Current Policy Number _____ Effective Date _____

Date and Hour of Cancellation: _____

Name of Insurance Company: _____

Address of Insurance Company: _____
(Street or box)

_____
(City) (State) (Zip code)

( )
_____
(Area Code/Telephone Number)

_____
(Name of insurance company)

_____
(Printed name of Representative)

_____
(Signature of Authorized Insurance Company's Representative's)*

( )
_____
(Area Code/Telephone Number) (Date)

* Restricted to those names authorized by the insurance company. Only the authorized signature previously filed with the LP-Gas Division will be accepted.

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 999
Revised 12/90

Examples of Properly Completed LP-Gas Forms

LICENSE NO. _____

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

APPLICATION FOR LICENSE

NOTICE: ALL LICENSES MUST BE RENEWED ON AN ANNUAL BASIS. NO PERSON MAY CONDUCT LP-GAS RELATED ACTIVITIES COVERED BY THE TEXAS NATURAL RESOURCES CODE, CHAPTER 113, UNTIL AN APPROPRIATE LICENSE IS ISSUED.

Please type or print in black ink as all documents are microfilmed.

Applicant's Name:

(1) **Co. Name** All Service Propane

DBA _____ DBA _____

DBA _____ DBA _____

DBA _____ DBA _____

Official Communications:

(2) Albert Service (Contact Person) (3) (512) 368-1201 (A/C Phone) (4) Travis (County)

(5) 4201 Bell Road (Applicant's Address) (6) Harris (City) (7) TX (State) (8) 78735 (Zip)

Applicant is a (9) ☑ Sole Proprietor

Check Appropriate Box

☐ Partnership

☐ Corporation, which is incorporated under the laws of the State of (10) _____
If other than Texas, is the corporation registered with the Secretary of State and authorized to do business in Texas? (11) _____

☐ Other (specify type) _____

(12) List owner of sole proprietorship, partners in partnership, or officers of corporation.

Name	Capacity	Address	Zip
Albert Service	owner	4201 Bell Road	78735

(13) **Category of license** under which business is to be conducted: Category E

(14) **Company Representative:** Any individual of the company who is directly responsible for and actively supervising the LP-gas operations passed the examination for license:

Name	Social Security Number	Phone
Albert Service	123-45-6789	512-368-1201

Return to:
Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 1
Revised 12/90

RRC USE ONLY

Register No. _____

Amt. _____ Type _____

Approved _____ Date _____

(COMPLETE BACK SIDE)

Please answer each of the following by checking either the "yes" or "no" blanks as they pertain to your company's operations.

NOTE: ALL QUESTIONS BELOW MUST BE ANSWERED AND FORMS ATTACHED WHERE REQUIRED.

(15) **Branch Manager: Does your company have a branch office?**

Yes [X] Form **1A** must be completed

No [ ] No form required.

(16) **Truck Registration: Does your company operate any LPG bobtails, transports, or cylinder delivery trucks?**

Yes [X] Form **7** must be completed.

No [ ] No form required.

(17) **Storage Container(s): Does your company have any LPG bulk storage containers, cylinder filling plants, or service station containers?**

Yes [X] Form **19** must be completed.

No [ ] No form required.

Franchise Tax Certification. All corporations applying for an original or renewal license must file LPG Form 26, Franchise Tax Certification, with the LP-Gas Division prior to the issuance of such license.

IT IS FURTHER UNDERSTOOD THAT I, OR WE, ARE FAMILIAR WITH THE REQUIREMENTS OF CHAPTER 113, TEXAS NATURAL RESOURCES CODE, WITH REGARD TO PROVISIONS PERTAINING TO THE DUTIES OF A LICENSEE AND THAT I, OR WE, WILL COMPLY WITH EACH PROVISION CONTAINED IN SAID ACT, AND WILL FURNISH ALL ADDITIONAL INFORMATION REQUESTED BY THE RAILROAD COMMISSION OF TEXAS PURSUANT TO ITS REGULATORY AUTHORITY.

I, OR WE, AGREE THAT ANY CHANGE IN OWNERSHIP, OR CHANGE IN NAME, WILL BE REPORTED TO THE RAILROAD COMMISSION OF TEXAS BY REGISTERED MAIL EITHER PRIOR TO THE CHANGE IN OWNERSHIP, CHANGE IN NAME, OR PRIOR TO OPERATING AS A LPG DEALERSHIP UNDER NEW OWNERSHIP, OR UNDER A CHANGED NAME.

I DECLARE UNDER PENALTIES PRESCRIBED IN SECTION 91.143, TEXAS NATURAL RESOURCES CODE, I AM AUTHORIZED TO SIGN THIS REPORT, AND I HAVE EXAMINED THIS REPORT AND MADE ANY CORRECTIONS, ADDITIONS, OR DELETIONS NECESSARY, AND THE DATA AND FACTS STATED HEREIN ARE TRUE, CORRECT, AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

(18) **FOR USE BY SOLE PROPRIETOR OR PARTNERSHIP ONLY:**

June 23, 1991 — Date

Albert Service — Signature of Owner or Partner

(19) **FOR CORPORATE USE ONLY:**

(Corporate Seal)

Name(s) under which business is to be transacted

(20) Signature of Subscriber *

ATTEST:

Capacity of Subscriber */**

(21) Corporate Secretary

Date

* Subscriber must be president or vice-president of corporation unless exception is granted by LP-Gas Division.

** The Board of Directors may file with this form a Power of Attorney designating a corporate officer whose signature will bind the corporation. In such case only one signature is necessary.

LICENSE NO. _____

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

BRANCH OUTLET LIST

LIST EACH BRANCH OUTLET WHERE YOUR COMPANY CONDUCTS LP-GAS BUSINESS IN TEXAS. INDIVIDUALS LISTED AS MANAGERS MUST HAVE PASSED THE EXAMINATION(S). (TEXAS NATURAL RESOURCES CODE, SECTION 113.087). Please type or print in black ink as all documents are microfilmed.

COMPANY NAME: All Service Propane

ADDRESS OF OUTLET: 4201 Bell Road

Harris	Travis	Texas	78735	(512)368-1201
(City)	(County)	(State)	(Zip Code)	(Telephone Number)

MANAGER NAME: _____ (Social Security Number)

ADDRESS OF OUTLET: _____

(City)	(County)	(State)	(Zip Code)	(Telephone Number)

MANAGER NAME: _____ (Social Security Number)

ADDRESS OF OUTLET: _____

(City)	(County)	(State)	(Zip Code)	(Telephone Number)

MANAGER NAME: _____ (Social Security Number)

ADDRESS OF OUTLET: _____

(City)	(County)	(State)	(Zip Code)	(Telephone Number)

MANAGER NAME: _____ (Social Security Number)

I DECLARE UNDER PENALTIES PRESCRIBED IN SECTION 91.143, TEXAS NATURAL RESOURCES CODE, THAT I AM AUTHORIZED TO SIGN THIS REPORT, AND THE INFORMATION STATED HEREIN IS TRUE, CORRECT, AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

Albert Service
Printed Name

Albert Service
Signature

(512) 368-1201
Area Code/Telephone No.

June 23, 199
Date

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 1A
Revised 12/90

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Steel Welding Company (Name and address of manufacturer)
2. Manufactured for All Service Propane 4201 Bell Rd. Harris, Tx. (Name and address of purchaser)
3. Location of installation County Road 244, South Harris, Texas (Name and address)
4. Type Horiz. (Horiz. or vert. tank) 8824 (Mfgr.'s serial No.) (CRN) DW231 (Drawing No.) (Nat'l. Bd. No.) 1983 (Year built)
5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1984 (Year)
   to S 1984 (Addenda (Date)) N/A (Code Case Nos.) N/A (Special Service per UG 120(d))
6. Shell: AS 545 (Mat'l. (Spec. No. Grade)) .293 (Nom. Thk. (in.)) 0 (Corr. Allow. (in.)) 37 I.D. (Diam. (O.D. (ft. & in.)) 10ft. 1½ in. (Length (overall) (ft. & in.))
7. Seams: D61. Butt (Long. (Welded Obl. Sngl. Lap Butt)) Spot (R.T. (Spot or Full)) 85% (Eff. (%)) N/A (H.T. Temp. (F)) N/A (Thick. (in.)) UW-13.1(K) (Girth (Welded Obl. and Lap)) Spot (R.T. (Spot Partial or Full)) 1 (No. of Courses)
8. Heads: (a) Matl. SA 285C (Spec. No. Grade) (b) Matl. SA 285C (Spec. No. Grade)

	Location (Top Bottom Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	Ends	.2107"	0	N/A	N/A	N/A	N/A	18.5	N/A	concave
(b)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

If removable, bolts used (describe other fastenings) N/A (Matl. Spec. No. Gr. Size No.)

9. MAWP 250 psi at max. temp. 125 °F
   Min. design metal temp. -20 °F at 250 psi. Hydro., pneu., or comb. test pressure 375 psi.
10. Nozzles, inspection and safety valve openings:

Purpose (Inlet Outlet Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
filler	1	1¼"	Half	SA 105	3000	N/A	welded	shell
Liq out	1	1"	H.CPL.	SA 105	3000	N/A	UW 16.2	N/A
Vapor	1	¾"	H.CPL.	SA 105	3000	N/A	C	N/A
Drain	1	1½"	H.CPL.	SA 105	3000	N/A	C	N/A

11. Supports: Skirt NO (Yes or no) Lugs 2 (No.) Legs 4 (No.) Other Dome Clips (Describe) Attached Welded (Where and how)
12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (Name of part, item number, Mfgr.'s name and identifying stamp)

500 Nom. W.G. Domestic Propane tank for Non-Corrosive service constructed under the provisions of code PARA UG-90(c)(2) for above ground (A/G) service only.

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 00500 expires 1/15, 19 86

Date 9/3/84 Co. name Steel Welding Co. (Manufacturer) Signed A.B. Steel (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Steel Welding Co. at Houston

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Texas and employed by Inspection Co. of Texas have inspected the component described in this Manufacturer's Data Report on 9/3, 19 84, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 9/3/84 Signed J.G. Inspector (Authorized Inspector) Commissions Texas #2001 (Nat'l Board (incl. endorsements) State, Prov. and No.)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LICENSE NO. 0102

RAILROAD COMMISSION OF TEXAS

LIQUEFIED PETROLEUM GAS DIVISION

LP-GAS TRUCK REGISTRATION

All Service Propane

Company Name

Please type or print in black ink as all documents are microfilmed.

LEGAL NOTICE

EACH TRANSPORT TRUCK, TRAILER, OR OTHER MOTOR VEHICLE EQUIPPED WITH AN LP-GAS CARGO CONTAINER AND EACH TRUCK USED PRINCIPALLY FOR TRANSPORTING LP-GAS IN PORTABLE CONTAINERS SHALL BE REQUIRED TO BE REGISTERED HEREUNDER. THE TRANSFER OF OWNERSHIP, PARTIAL OR COMPLETE, OR THE TRANSFER OF OTHER RIGHTS IN MOTOR VEHICLES HEREBY REGISTERED, REQUIRES THE RE-REGISTRATION OF SUCH VEHICLES IN THE NAME OF THE NEW OWNER/TRANSFEREE WITH THE LP-GAS DIVISION **PRIOR** TO THE USE OF SUCH VEHICLES FOR TRANSPORTING OR DELIVERING LP-GAS. IN ADDITION, A CHANGE IN THE NAME UNDER WHICH A LICENSEE IS DOING BUSINESS REQUIRES THE RE-REGISTRATION OF ANY VEHICLES UNDER THE NEW NAME **PRIOR** TO USE OF SUCH VEHICLES FOR TRANSPORTING OR DELIVERING LP-GAS. (TEXAS NATURAL RESOURCES CODE, SECTION 113.131)

TRANSPORT AND DELIVERY TRUCKS

THE REGISTRATION FEE FOR EACH UNIT IS $150.00 PER YEAR FOR ANY LPG CARGO TRAILER OR SEMI-TRAILER, AND $100.00 PER YEAR FOR ANY BOBTAIL OR CYLINDER DELIVERY UNIT.

NAME OF MANUFACTURER	CONTAINER SERIAL NO.	W.G. CAPACITY	WORKING PRESSURE	DEALER UNIT NO.	FEE
Black Industries	062936	2400	250		100.00

TOTAL TRUCK REGISTRATION FEE 100.00

I DECLARE UNDER PENALTIES PRESCRIBED IN SECTION 91.143, TEXAS NATURAL RESOURCES CODE, I AM AUTHORIZED TO SIGN THIS REPORT, AND THAT THE INFORMATION STATED HEREIN IS TRUE, CORRECT, AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

Albert Service

Signature

(512) 368-1201 June 23, 1991

Area Code/Telephone Number Date

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 7
Revised 12/90

RRC USE ONLY

Register No. _____

Amt. _____ Type _____

* Approved _____ by _____ Date _____

* Issued _____ by _____ Date _____

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

MANUFACTURER'S REPORT OF PRESSURE VESSEL REPAIR, MODIFICATION, OR TESTING

Please complete this report in black ink for microfilming purposes.

1. Vessel repaired, modified or tested by Sure Testing Company
   Address 4915 Sunshine Drive, Houston, Texas
2. Manufacturer Tank and Equipment Co. Year Built 1953
3. Serial Number X-6277 Water Gallons 1320 Working Pressure 200
4. Vessel Type: ☐ Transport; ☐ Delivery Unit; ■ Storage; ☐ Motor Fuel; ☐ Other
5. Owner of Vessel All Service Propane, Inc. Address 4201 Bell Rd., Harris, Tx
6. Description of repairs, modification, or testing (For additional information use reverse side.)

Ultrasonic wall thickness was performed on the above storage container.

The container had visual pitted areas, and all pitted areas are equal to or greater than the minimum required thickness.

Testing was performed to 1 1/2 times the working pressure and held for 30 minutes.

There were no leaks or drop in pressure.

This vessel was tested by this facility, using one or more methods of testing recognized by the American Society of Mechanical Engineers, and it is safe for LP-gas use in the State of Texas.

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this report; this report was prepared by me or under my supervision and direction, and data and facts stated herein are true, correct, and complete to the best of my knowledge.

Date 6/7/91 Signed Doug Sure Title Inspector LPG License No. N/A

CERTIFICATE OF SHOP INSPECTION

Inspection Agency's Serial No. _____

Vessel repaired or modified by _____ Location _____

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Pressure Vessels in the State of Texas and employed by _____ of _____ inspected the repair or modification of the vessel described in this report on _____, 19__, and certify the statements made in this report are correct and that repair, modification and/or testing of this vessel was in accordance with the ASME Code for Pressure Vessels.

Date _____, 19__.

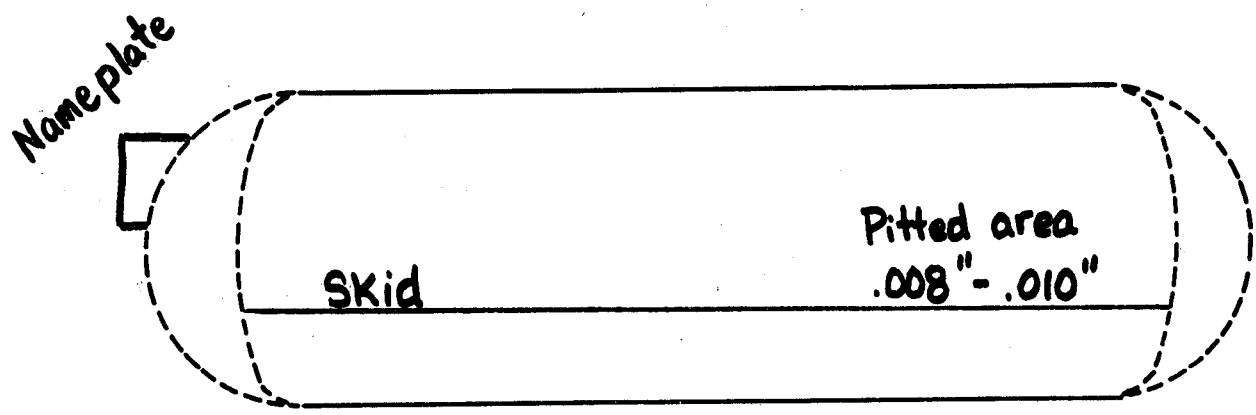
_____ Commissions _____
Inspector's Signature Nat'l. Board, State

LPG FORM 8
Revised 12/90

(Continue on back)

INDICATE LOCATION OF REPAIR OR MODIFICATION:

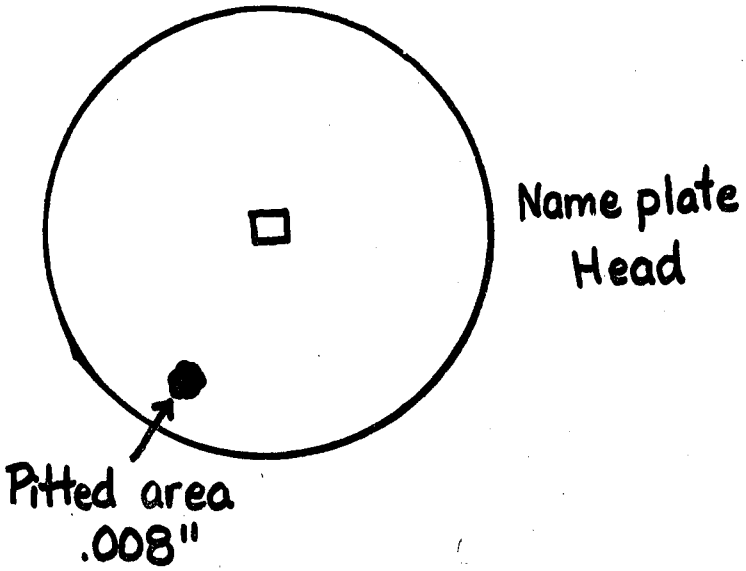
Sketch heads and circle approximate location of repairs or modifications.



VIEW: ☐ Top; ☐ Bottom; Other (curbside, streetside, etc.) _____

HEAD TYPE: ☐ Hemispherical; ☐ 2:1 Elliptical; ☐ Other _____

Additional Information (Attachment(s)) as needed.)



Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
REPORT OF DOT CYLINDER REPAIR

Please complete this report in black ink for microfilming purposes.

1. Cylinder repaired or tested by Capital Testing Company
   Address P.O. Box 123 Austin, Tx 78701
2. Manufacturer Travis Mfg. Co. Year Built
3. Serial Number A-4689 Water Capacity 101 pounds Working Pressure 240
4. DOT Specification 4BW-240
5. Owner of Cylinder John Doe Address P.O. Box 2345 Houston, Tx 77019
6. Description of repairs and/or testing (For additional information use reverse side.)

This container was hydrostatic expansion tested and is requalified for a period of 12 years.

This cylinder was tested by this facility, using one or more methods of testing recognized by the American Society For Non-Destructive Testing, and it is safe for LP-gas use in the State of Texas.

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge.

Date 1/21/91 Signed Sam Boss Title Manager LPG License No. 0456

CERTIFICATE OF SHOP INSPECTION

Cylinder repaired and/or tested by _____ Location _____

I, the undersigned, authorized by DOT as an inspector of cylinders and employed by _____ of _____ inspected the repair and/or testing of the cylinder described in this report on _____, 19 ____, and certify the statements made in this report are correct and that repair and/or testing of this cylinder was in accordance with the requirements of DOT.

Date _____, 19 ____.

_____ Commissions _____

Inspector's Signature

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 8A
Revised 12/90

Return to:
Railroad Commission of Texas
LP-Gas Division
P.O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
APPLICATION FOR EXAMINATION

Please type or print in black ink as all documents are microfilmed

Wade, Jack Charles
Name of Applicant (Last, First, Middle)

000-00-0000
Social Security Number

09-24-91
Date to begin performing each LP-gas related activity pertaining to this application

All Service Propane
Name of Licensed/Applicant Company

0102
LPG License Number

4201 Bell Road
Company Address (P. O. Box and/or Street)

Harris
City or Town

Travis County | Texas State | 78735 Zip Code | (512) A/C (368-1201) Telephone Number

EXAMINATION APPLIED FOR:

(1) MANAGEMENT
Category/categories applied for _____

State nature & full extent of LP-gas operations to be conducted _____

(2) EMPLOYEE
Check appropriate employee examination applying for:

- ☐ Delivery Truck Driver, including Service & Installation, Transport Driver, Cylinder Filling & Motor Fuel Dispenser
- ☐ Carburetion
- ☐ Recreational Vehicle Technician
- ☑ Service & Installation
- ☐ DOT Cylinder Filling
- ☐ Manufactured Housing Technician
- ☐ Transport Truck Driver
- ☐ Motor Fuel Dispenser

EXAMINATION FEES - The appropriate examination fees must accompany this application.

(1) Management - $25.00 each category Amount $_____

(2) Employee - $10.00 each examination Amount $ 10.00

An examination field site schedule will accompany your study guide and will be provided to you upon receipt of this application. In addition, examination(s) are given Monday, Wednesday, Friday, 10:00 A.M. - 5:00 P.M. (except holidays), at the division's headquarters located at 1701 N. Congress (William B. Travis Bldg.) Room 7-146, Austin, Texas. NO examination fee(s) will be collected at the examination field sites. ALL EXAM FEES MUST BE PAID BEFORE THE EXAMINATION IS ADMINISTERED.

RRC USE ONLY

Register No. _____

Amt. _____ Type _____

Date _____

Approved _____

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this application; that I have knowledge of the above-stated facts; that this application was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge.

Jack Charles Wade
(Signature of Applicant or Authorized Representative of Licensee)

June 23, 1991
(Date)

LPG FORM 16
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
QUALIFIED EMPLOYEE TRANSFER CERTIFICATION

Please type or print in black ink as all documents are microfilmed.

Section 9.6 (g) of the LP-Gas Safety Rules requires a licensee to notify the LP-Gas Division when a previously qualified person is hired. Provide the division with the following information:

Jack Charles Wade — Name of Employee
000-00-0000 — Social Security No.

All Service Propane — Your Company Name
0102 — LP-Gas License Number

4201 Bell Road — Company Address (P.O. Box and/or Street)
City or Town

Travis — County
Texas — State
78735 — Zip Code
(512) (368-1201) — Area Code/Business Phone No.

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I have knowledge of the above-stated facts; this certification was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge.

Jack Charles Wade
(Signature of Authorized Representative of Licensee)

June 23, 1991
(Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P.O. Box 12967
Austin, Texas 78711-2967

LPG FORM 16A
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

APPLICATION FOR EXAMINATION EXEMPTION BY A MASTER OR JOURNEYMAN PLUMBER OR A CLASS A OR B AIR CONDITIONING & REFRIGERATION CONTRACTOR

Service, Albert
Name (Last, First, Middle)

123 - 45 - 6789
Social Security Number

TACLB12345678901
License Number
Master or Journeyman Plumber or a Class A or B Air Conditioning and Refrigeration Contractor

1-17-92
Expiration Date

All Service Propane
Name of Applicant's Company or Affiliated Company

0102
LP-Gas License Number

4201 Bell Road
Company Address (P. O. Box and/or Street No.)

Harris
City

Travis
County

Texas
State

78735
Zip Code

(512) 368-1201
Area Code/Telephone Number

* * * * * * * * * * * * * * * * * *

Do you need any forms for obtaining an LP-gas license? Check one Yes ☑ No ☐
If yes, specify Category D.

I do certify that I am a Master or Journeyman Plumber currently licensed by the Texas State Board of Plumbing Examiners or a Class A or B Air Conditioning and Refrigeration Contractor currently licensed by the Department of Licensing and Regulation. I have read the current edition of the LP-Gas Safety Rules and will comply with these rules. I further understand this only exempts me from the Category D management examination and seminar requirements. I cannot perform LP-gas related activities until my company or I comply with all other applicable licensing requirements of a Category D licensee. If the exempted individual loses qualified status as a Master or Journeyman Plumber or a Class A or B Air Conditioning and Refrigeration Contractor, then the examination exemption card must be returned immediately to the LP-Gas Division and all rights and privileges surrendered. The examination exemption accrues to the applicant and is nontransferable.

Before this application can be processed the following must be submitted: (1) A copy of the person's current license issued by either the Texas State Board of Plumbing Examiners or the Department of Licensing and Regulation; (2) a $15 original filing fee; and (3) any other information the division may reasonably require.

NOTE: This exemption does not become effective until the examination exemption card is issued by the commission.

Failure to comply with any of the LP-Gas Safety Rules and/or the Texas Natural Resources Code, Chapter 113, will subject the exempted individual to the same enforcement provisions applicable to any licensee, registrant, or violator.

Albert Service
Signature of Applicant

June 23, 1991
Date

RRC USE ONLY
Register No. _____
Amt. _____ Type _____
Approved _____ Date _____

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 16B
New 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

(1) NAME State Transport, Inc.

(2) ADDRESS P.O. Box 325, El Paso, Tx 79915

Report of Odorization of Liquefied Petroleum Gases for the Quarter Ending Aug. 31 19 90

TYPE OF GAS	(3) GALLONS GAS MANUFACTURED DURING PERIOD	(4) GALLONS GAS ODORIZED	(5) QUANTITY OF MALODORANT USED Gals. of Lbs.	(6) NAME OF MALODORANT
BUTANE				
PROPANE	2,545,998	2,553,960		Ethyl Mercaptan Odorant UN 2363
- - -% BUTANE - - -% PROPANE MIXTURE				
- - -% BUTANE - - -% PROPANE MIXTURE				
(7) TOTALS	2,545,998	2,553,960	------ Gals. 422.66 Lbs.	X X X X X X X X

READ ALL OF THIS PAGE CAREFULLY BEFORE MAKING OUT REPORT:

Every person, firm or corporation who odorizes liquefied petroleum gas in any form shall make a quarterly report to the L. P. Gas Division of the Railroad Commission of Texas within thirty (30) days after November 30, February 28, May 31, and August 31. The receipt of a copy of this form is an indication that the records of the L. P. Gas Division of the Railroad Commission show that you are a handler of liquefied petroleum gas products who odorizes LP-gas. If this is incorrect, you will insert your name and address where indicated and write across the report "I do not odorize liquefied petroleum gas in any form," sign the report and forward it to the Railroad Commission of Texas, LP-Gas Division, P.O. Box 12967, Austin, Texas 78711-2967.

INSTRUCTIONS FOR MAKING OUT REPORTS:

FILL IN YOUR FIRM NAME AND ADDRESS AT THE TOP OF THE FORM. IF YOU OPERATE UNDER MORE THAN ONE NAME SHOW ALL NAMES AND ADDRESSES. COMPLETE AND EXECUTE PROPERLY BEFORE FORWARDING THE REPORT TO THE LIQUEFIED PETROLEUM GAS DIVISION.

The report must be signed by some person in authority having personal knowledge of the facts. If necessary, use extra sheets and attach to the report. Strict compliance with these instructions will be required of all persons, firms or corporations who odorize LP-gas.

(8) THE STATE OF TEXAS)
COUNTY OF El Paso)

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this report as I have personal knowledge of the above-stated facts, this report was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge.

(9) Mark Wynne
SIGNATURE

(10) June 23, 1991
DATE

(11) Field Supervisor
TITLE

LPG FORM 1
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

AFFIDAVIT OF LOST OR DESTROYED LICENSE

I, Albert Service (Affiant's Name), owner (Affiant's Capacity/Authorization)

do make this affidavit saying that All Service Propane (Name(s) under which-Licensee conducts LP-gas operations)

is licensed by the Railroad Commission of Texas and that LP-gas license number 0102

issued on August 15, 19 91, has been lost or stolen and that facts pertaining to the existence and location of such license are unknown to the licensee.

THE STATE OF: Texas

COUNTY OF: Travis

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this affidavit; I have personal knowledge of the above stated facts; this affidavit was prepared by me or under my supervision and direction, and the data and facts stated herein are true, correct and complete to the best of my knowledge.

Albert Service
(Affiant's Signature)

October 11, 1991
(Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 18
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

STATEMENT OF LOST OR DESTROYED LPG FORM 4 DECAL

Please type or print in black ink as all documents are microfilmed.

I, Albert Service (Name of person completing statement), owner (Title)

do make this statement verifying All Service Propane (Name(s) under which Licensee conducts LPG operations)

4201 Bell Road, Harris, Texas 78735 (Complete mailing address where decal is to be sent) was issued LPG Form 4,

identified as Decal No. 000, Tank + Equipment Co.; Serial # 09211 (container manufacturer & serial number(s))

for License year 19 91 - 19 92, and that such decal has been

(Check one) ☑ lost or stolen;

☐ destroyed, the cause of destruction being as follows _____

_____

_____

(State the cause of destruction. If unknown, state cause is unknown.)

THE STATE OF: Texas

COUNTY OF: Travis

Albert Service
(Signature)

January 4, 1992
(Date)

RRC USE ONLY
Replacement Decal No. _____
Date Issued _____ By _____
Date Mailed _____ By _____

Return to:
Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG Form 18B
Revised 12/90

LICENSE NO. 0102

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
INVENTORY OF LP-GAS BULK STORAGE PLANTS

All Service Propane
Company Name

NOTE: Each licensee is responsible for and must list only those containers it operates.

List all Bulk Storage and Cylinder Filling/Service Station containers operated by your company as well as their geographic location. Indicate the use of each container by answering Yes or No in the columns labeled "Bulk Storage" and "Cylinder Filling/Service Station." (TEXAS NATURAL RESOURCES CODE, SECTION 113.084)

Please type or print in black ink as all documents are microfilmed.

For installation located in Travis county, at Co. Rd. 244 1.5 miles S. of Blue, Tx
(geographic location)

CONTAINER MANUFACTURER	SERIAL NUMBER	W.G. CAPACITY	DESIGN PRESSURE	BULK STORAGE	CYLINDER FILLING/ SERVICE STATION
Tank and Equipment Co.	8599	1250	250	NO	Yes
Steel Welding Co.	4338	6000	250	yes	NO

For installation located in _____ county, at _____
(geographic location)

CONTAINER MANUFACTURER	SERIAL NUMBER	W.G. CAPACITY	DESIGN PRESSURE	BULK STORAGE	CYLINDER FILLING/ SERVICE STATION

I DECLARE UNDER PENALTIES PRESCRIBED IN SECTION 91.143, TEXAS NATURAL RESOURCES CODE, I AM AUTHORIZED TO SIGN THIS REPORT, AND THE INFORMATION STATED HEREIN IS TRUE, CORRECT, AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

Date June 23, 1991

Albert Service
Signature

LPG FORM 19
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967
Tel. No.: (512) 463-6942
Emergency No.: (512) 463-6788

RRC USE ONLY
Postmark Date
File Number
District Number

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
REPORT OF LP-GAS/CNG INCIDENT - ACCIDENT

INSTRUCTIONS: Section 9.61 of the LP-Gas Safety Rules and Section 13.36 of the Regulations for CompressedNatural Gas require this report to be filed within 14 days from the date the incident/accident was initially reported to the Railroad Commission of Texas. This report must be signed by an official representative of the licensee reporting and filing the report. Please type or print in black ink for microfilming purposes.

PART A Licensee Reporting LPG ■ CNG ☐ (Mark applicable box) Lic. No. 0199

1. COMPANY NAME: All Weather Transport, Inc Tel. No. (512) 498-7864
2. PRINCIPAL BUSINESS ADDRESS: 7661 Busy Blvd. Gull, Tx 78777
3. ■ LPG ON PREMISES ■ VEHICLE WHERE INCIDENT/ACCIDENT OCCURRED 4. ☐ CNG ON PREMISES ☐ VEHICLE WHERE INCIDENT/ACCIDENT OCCURRED

PART B ☐ Incident ☐ Accident Identification Information

1. NAME OF ENTITY INVOLVED: All Service Propane (where occurred)
2. FULL MAILING ADDRESS: 4201 Bell Road Harris, Tx 78735
3. DATE OCCURRED: Month 01 Day 20 Year 91 Time: (24 hr. clock) 1700 p.m. ☐ Unknown
4. LOCATION OF INCIDENT/ACCIDENT:
   a) In State Harris, Travis (city, county)
   b) Out of State N/A (city, county, state)
   c) Identify Physical Location: FM 567 and 1234 street, Waterloo, Tx (give nearest mile marker, hwy., street, or intersection)
5. DRIVER/LICENSEE INFORMATION:
   a) Drivers full name, who last serviced container: Frank Gomez SSN: 000-00-0000
   b) Driver's full name, if involving LPG/CNG transport or bobtail registered with the commission: Frank Gomez N/A SSN: 000-00-0000
   c) Licensee name servicing/owning container: All Service Propane
   License Number: 0102

PART C Deaths/Injuries *(If multiple deaths or injuries continue on separate sheet)*

1. TOTAL FATALITIES 0 a) Licensee employee(s) 0 b) non-employee(s) 0
2. NAME: N/A (age) ____ and (SSN): ____ (if licensee employee)
3. TOTAL INJURIES 0 a) Licensee employee(s) 0 b) non-employee(s) 0
4. NAME: N/A (age) N/A and (SSN): N/A (if licensee employee)

PART D Type of Installation/Equipment *(Check any which apply)*

LPG								CNG	
☐ (AGRL)	Agricultural	☐ (FMCT)	Farm Cart	☐ (PUBL)	Public Facility	☐ (CGCC)	CNG Pvt. Compressor Storage
☐ (B)	Bobtail	☐ (HECC)	Health Care Center	☐ (PVCF)	Private Cyl. Filling Plant	☐ (CGCV)	CNG Commercial Vehicle
☑ (BS)	Bulk Storage	☐ (INFL)	Industrial Forklift	☐ (PVTR)	Private Trans. Only	☐ (CGDS)	CNG Pvt. Dispenser System
☐ (CEXR)	Cylinder Exchange Rack	☐ (LOAD)	Loading Rack	☐ (RECV)	Recreational Vehicle	☐ (CGGT)	CNG Government Trans.
☐ (CFP)	Cylinder Filling Plant	☐ (MAHO)	Manufactured Housing	☐ (RES)	Residence	☐ (CGLC)	CNG Lic. Compressor Storage
☐ (CFSS)	Cyl. Filling/Service Sta.	☐ (MBLF)	Mobile Fuel Vehicle	☐ (SBUS)	School Bus	☐ (CGLS)	CNG Lic. Dispenser System
☐ (COMM)	Commercial	☐ (MHSO)	Mobil Home Subdivision	☐ (SCHL)	School	☐ (CGPT)	CNG Public Transportation
☐ (CVTR)	Commercial Veh. Trans.	☐ (PBTR)	Public Transportation	☐ (SS)	Service Station Only	☐ (CGPV)	CNG Private Vehicle
☐ (EMSB)	Emergency Stand-By	☐ (PMMF)	Private Motor Fuel Storage	☑ (T)	Transport	☐ (CGSB)	CNG School Bus
						☐ (CNGT)	CNG Transport

☐ (GEOT) General/Other ____

PART E Product Information

1. Specify name of product storage/release: propane (Propane, Butane, Propylene, LPG mix, CNG, etc.) 2. Odorization: ■ a) odorized ☐ b) non-odorized
3. If loss of product occurred, give estimated amount equal to or more than 1.0% of gross amount delivered or withdrawn:
   a) Liquid loss LPG only .. Est. gross gallons 200 gallons b) Vapor loss CNG only ..... Est. cubic feet ____
4. Were bulkheads/emergency shut-off valves installed? ■ Yes ☐ No ☐ N/A
5. Did product ignite? ☐ Yes ■ No 6. Did explosion occur? ☐ Yes ■ No If Yes, explain under PART J

PART F Gas Leak/Origin of Problem *(Check any which apply)*

☑ 001 Pump	☐ 007 Low PSI Hose/Line	☐ 013 Underground pipe	☐ 019 Pressure relief valve
☐ 002 Compressor	☐ 008 Hose/Metal flex-connector	☐ 014 Aboveground pipe	☐ 020 Emergency shut-off valve (ESV)
☐ 003 Vaporizer	☐ 009 Break away coupling	☐ 015 Appliance control	☐ 021 Filler valve in tank
☐ 004 Gas Meter	☐ 010 Gas cock	☐ 016 Hose end valve	☐ 022 Evacuation/Drain valve
☐ 005 In-Line Valve	☐ 011 Pipe union	☐ 017 Tank service valve	☐ 023 Gauging device
☐ 006 High PSI Hose/Line	☐ 012 Pipe flare fitting	☐ 018 Service regulator	☐ 024 Cylinder/tank metal

☐ 050 Other ____

(Continued on back)

PART G LPG/CNG Container Type/Location/Condition *(Check any which apply)*

☐ 001 DOT cylinder	☐ 006 Bulk size (1,000 W.G. or more)	☐ 011 Inside building	☐ 016 Container dented
☑ 002 ASME container	☐ 007 Skid mounted tank	☐ 012 Ext. tank corrosion	☐ 017 Container scraped
☑ 003 Aboveground tank	☐ 008 Process tank	☐ 013 Int. tank corrosion	☐ 018 Container hole/puncture
☐ 004 Underground tank	☑ 009 Vehicle mounted	☐ 014 Container bulged	☐ 019 Broken weld seam
☐ 005 Domestic size (999 W.G. or less)	☐ 010 Outside building	☐ 015 Container gouged	☐ 020 Container ruptured

PART H Container Identification/Owner Information *(If more than two containers, continue on separate sheet)*

	Container No. 1	Container No. 2
1. Mfg. Name:	State Tank Company	
2. Mfg. Ser. No.:	US - 14759	
3. Working Press:	265	
4. Water Cap.:	10, 500	
5. Year Built:	1990	

6. If bobtail or transport unit, specify RRC LPG Form 4 decal no. 0179 RRC CNG Form 1007 decal no. _____ ☐ None

7. Date tank/cylinder was last serviced with LPG/CNG 1/20/91 Gross gallons 8500 cubic feet _____ delivered.

8. Nameplate damaged/destroyed? ☐ Yes ■ No If Yes, indicate which container ☐ No. 1 ☐ No. 2

9. Were container(s) subjected to severe heat impingement or damaged? ☐ Yes ■ No If LPG/CNG container(s) are involved in incident/accident or vehicle collision/rollover, attach _____ photograph(s). *Number*

10. If owner of container(s) is different from licensee, give mailing address of tank/cylinder owner below. Unit leased from ABC Equipment Co. 7459 Main St. Zero, Tx 77451
(Name) *(Address)* *(City,State)* *(Zip Code)*

PART I Suspected Causes *(Check any which may have contributed to cause)*

1. NATURAL FORCE DAMAGE
☐ 001 Lightning ☐ 002 Wind force ☐ 003 Flooding ☐ 004 Freezing weather

2. MECHANICAL FORCE DAMAGE
☐ 006 Vehicular collision ☐ 007 Rollover during transit ☐ 008 Physical abuse/damage during transit ☐ 009 Piping damaged by const. equip.

3. MECHANICAL FAILURE
☐ 011 Appl./control malfunction ☐ 012 Valve malfunction ☐ 013 Regulator malfunction ☑ 014 Equip. malfunction
☐ 016 Cracked/worn threads ☐ 017 Pipe corr./failure ☐ 018 Carbon monox. emissions ☐ 019 Flex-conn./hose failure

4. HUMAN ERROR
☐ 021 Violation of safety rules ☐ 022 Improper pressure check ☐ 023 Uncapped gas-cock/pipe ☐ 024 Improper gas transfer method
☐ 025 Violation of traffic laws ☐ 026 Pull-away during transfer ☐ 027 Overfilled cylinder/tank ☐ 028 Improper system installation method
☐ 029 Improper operator usage ☐ 030 Improper appl. vent ☐ 031 Improper tank purge ☐ 032 Improper line purge
☐ 050 Other _____

PART J Summary of Incident/Accident *(Please specify mfg. name, model, date mfg. for any defective LPG/CNG equip. involved in incident/accident.)*

Pump seal on transport broke during unloading operations. Loss of gas dissipated by local fire dept. Emergency shut-off valves stopped gas flow at bulk storage site and on transport.

PART K Name of Official Submitting Report

I declare under penalties prescribed in Section 91.143 and Section 116.142, Texas Natural Resources Code, this report was prepared by me and the data and facts stated therein are true, correct, and complete to the best of my knowledge.

1. Printed name Jerry Transport 3. Date of initial knowledge of incident/accident: *(MM-DD-YY)* 1/21/91

2. Authorized signature Jerry Transport 4. Date report completed: *(MM-DD-YY)* 1/22/91

This report is made to comply with the provisions of 16 TAC Sections 9.61 and 13.36 and is NOT a determination of responsibility or fault.

Return to:
Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS

LIQUEFIED PETROLEUM GAS DIVISION

NOTICE OF INTENT TO APPEAR

DOCKET NUMBER 1991

LP-Gas License Number 00102 Hearing Date February 25, 1991

Albert Service (Print Name) representing All Service Propane, Inc. (Print Name)

hereby gives notice of intent to appear at the hearing called to consider the above referenced legal enforcement case.

☑ I do not intend to appear, but I request the attached material be considered. Any attached material to be considered must be filed with an affidavit signed by a person having personal knowledge.

THIS FORM MUST BE **MAILED** TO THE RAILROAD COMMISSION TEN (10) DAYS BEFORE THE DATE OF HEARING.

Albert Service
(Signature)

(512) 368-1201 (Telephone Number) 2-10-91 (Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P.O. Box 12967
Austin, Texas 78711-2967

LPG Form 21
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

REPORT OF LP-GAS SAFETY RULE VIOLATION

INSTRUCTIONS: This form may be filed with the LP-Gas Division in accordance with Section 9.59 of the LP-Gas Safety Rules for any stationary or mobile LP-gas installation. Incomplete forms will not be accepted. The division will use this form at its own discretion with regard to action taken against the violator.

NAME OF OCCUPANT/LICENSEE/VIOLATOR: Cecil Davis

MAILING ADDRESS: Route 3, Box 142C
(Street Address or P. O. Box)

Harris (City) Texas (State) 78735 (Zip Code)

PHYSICAL ADDRESS OF VIOLATOR(S): FM 982 3 mi. southeast of Harris, Travis
(City) (County)

DATE/TIME OBSERVED: 11/13/91 2:00 p.m.

CHECK THE FOLLOWING WHICH APPLY:

Violator was: ☑ Customer ☐ LPG Installer ☐ LPG Supplier

Violation(s) still exist: ☑ Yes ☐ No Supporting documentation attached: ☐ Yes ☑ No

DESCRIBE VIOLATION(S):
(Use section references of the LP-Gas Safety Rules)

Container is located five feet from residence. Refused service on November 1, 1991, however, someone else has serviced this container since November 1, 1991. (Section 9.65(a)).

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, this form was prepared by me or under my supervision and direction, and that the data and facts stated herein are true and correct to the best of my knowledge. I did not service the subject LP-gas installation because of the violation(s) observed.

RRC USE ONLY:			
Inspection	Init.	Date:	/ /
Letter Sent	Init.	Date:	/ /
No Action	Init.	Date:	/ /

Bobby Boyd
(Printed name)

Bobby Boyd.
(Authorized Signature of Complainant)

(512)638-2111 (Telephone Number) 11/15/91 (Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 22
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

STATEMENT IN LIEU OF CONTAINER TESTING

I hereby certify the LP-gas container, Steel Welding Company Serial # 3384
(Manufacturer's name and serial number)
has been subject to continuous LP-gas vapor pressure while being transported, installed, stored, or serviced in the State of Texas. During any period of non-continuous use, container valves and fittings have remained intact and no product other than liquefied petroluem gas (LPG) has been stored in this vessel, except for the purging of this container.

While in non-continuous use or other product storage, the following information is required:

Container Owner/Operator's Name All Service Propane

Product Stored Propane

Location where last removed from service Kale (City) Tx (State)

Duration out-of-service 1 (Year(s)) 2 (Month(s))

I acknowledge that the LP-Gas Division shall make final determination whether the subject LP-gas container must be tested before placement into LP-gas service in Texas in accordance with Section 9.34 of the LP-Gas Safety Rules. I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, this form was prepared by me or under my supervision and direction, and the data and facts stated herein are true, and correct to the best of my knowledge.

All Service Propane
(Print company name, if applicable)

0102
(License number, if applicable)

Albert Service
(Authorized signature of container owner)

11/15/91
(Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 23
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

CYLINDER EXCHANGE APPLICATION FOR OPERATIONS APPROVAL

Site ID No.

Plan No.
(RRC USE ONLY)

INSTRUCTIONS: Your application must contain three elements: Operator Intent, Guidelines for Installation Compliance, and a Joint Statement of Responsiblity. A lease agreement need not be filed unless the exchange operation is conducted on the premises not under control of either the cylinder distributor or the cylinder exchanger. Please print or type in black ink. Insert the word "same" in the spaces pertaining to cylinder exchanger if the distributor and exchanger are one in the same company. Fill in all blanks and spaces. Return to the LP-Gas Division.

OPERATOR INTENT

1. The licensed participant(s) involved in the cylinder exchange program are All Service Propane (cylinder distributor), license 09998 (number), and Fast Gas, Inc. (cylinder exchanger), license 09999 (number).
2. The number of exchange outlets anticipated at this time is/are 12. The expected hours of operation are from 7:00 a.m. to 11:00 p.m.
3. The mailing address of the initial exchange site is: 1234 Street (address)
   Harris (city) TX (state) 78723 (zip code)
   The physical address is FM 1234 and FM 567.
4. The number of cylinder rack(s) to be installed at the above site is/are 2.
5. The qualified representative for the cylinder distributor is Albert Service (must be certified employee)
   Social Security Number 000-00-0000 and the qualified representative of the cylinder exchanger is Tom Fast (must be certified employee) Social Security Number 000-00-0000

GUIDELINES FOR INSTALLATION COMPLIANCE

6. The manufacturer of the cylinder rack is Metal Worthy, Inc. (if non-factory made, submit photo), Model No. 15793B (if applicable)
   The number of cylinders to be in the rack are 15 twenty pound cylinders and 10 thirty pound cylinders.
7. Each rack will be protected by guardrails, 3 (Dia.) inch steel top rail with 3 (Dia.) inch posts set in concrete, spaced 4 (feet) apart to protect the rack from vehicular traffic. Racks will be labeled with signs posted on the rack stating content of material such as "PROPANE" in 4 (height) inch letters, and a "NO SMOKING" sign with 4 (height) inch letters.
8. The minimum distances the racks will be from any overhead transmission lines are 6 (feet). The nearest flammable fuels storage and dispensers will be 10 (feet) from the nearest rack. The rack will also be 10 (feet) from all buildings and property or lease lines. Each rack will be kept locked at all times when not in use or unattended.
9. The rack(s) will be inspected Weekly (frequency) by the cylinder distributor for proper operation, maintenance and compliance.

(continued on back)

JOINT STATEMENT OF RESPONSIBILITY

10. Fast Gas, Inc. (cylinder distributor or exchanger) will be responsible for employee training at the cylinder rack outlet and for maintaining a current valid license for the cylinder exchange operation.

11. All Service Propane (cylinder distributor or exchanger) will be responsible for transporting cylinders and repairing or replacing damaged cylinders.

12. All Service Propane (cylinder distributor or exchanger) will be responsible for ensuring the guidelines aforementioned are complied with for each outlet and will report violations to the LP-Gas Division or notify the division of possible compliance conflicts at new locations before the installation is made.

13. All Service Propane (cylinder distributor or exchanger) will be responsible for filing all completion reports in a timely manner.

14. Fast Gas, Inc. (cylinder distributor or exchanger) will be responsible for reporting any incident or accident involving any cylinder rack to the LP-Gas Division.

15. ADDITIONAL COMMENTS: This is an existing cylinder exchange site. We are increasing the number of racks from one to two.

Additional information may be required to be submitted to the LP-Gas Division. Installations must be completed in full compliance with the LP-Gas Safety Rules. Non-compliance may result in your company being subjected to administrative enforcement proceedings and/or administrative penalties under Sections 113.161 - 113.166 and 113.231 - 113.236, Texas Natural Resources Code, Chapter 113.

NOTE: No additional site plans required once initial operations approval is granted. File separate LPG Form 501, Completion Report, for each cylinder rack(s) exchange outlet in accordance with Section 9.29(b) of the LP-Gas Safety Rules.

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, this form was prepared by me or under my supervision and direction, and the data and facts stated herein are true and correct to the best of my knowledge.

Tom Fast
Authorized Signature of Cylinder Exchanger (See No. 5)

June 23, 1991
Date

Albert Service
Authorized Signature of Cylinder Distributor (See No. 5)

June 23, 1991
Date

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

APPLICATION AND NOTICE OF EXCEPTION TO THE LP-GAS SAFETY RULES

INSTRUCTIONS: Any person, firm, or corporation may apply for an exception to the LP-Gas Safety Rules. All application filings must meet the submission requirements of Section 9.21 of the LP-Gas Safety Rules. Strict compliance with this section is necessary to ensure that fairness and uniformity in the administrative process is extended to all applicants. All applicants are routinely advised that a request for exception in no way guarantees that an exception will be granted. PLEASE COMPLETE ALL BLANKS ON THIS FORM AND RETURN TO THE LP-GAS DIVISION. FILE ONE TYPED APPLICATION FORM PER SITE, LISTING ALL APPLICABLE EXCEPTIONS TO SAFETY RULE REFERENCES.

APPLICANT INFORMATION:

Applicant's name: Albert Service (Individual), representing All Service Propane (Company name, if applicable)

Lic. No. 0102 Mailing Address: 4201 Bell Road, Harris, Tx (City, State) 78735 (Zip Code)

Tel. No.: 512 (Area Code) 368-1201 I request an exception to Section(s) (give full safety rule reference) Section 9.65 (b) of the LP-Gas Safety Rules.

GEOGRAPHICAL LOCATION:

If stationary LP-gas installation, give physical street address or geographical location:

4201 Bell Road, 1.5 miles west of Harris, Texas

(Give directions from nearest highway or town)

in city limits of N/A (if applicable) county of: Travis

STATEMENT OF DESIRED RELIEF:

State below your request for exception and how it specifically fails to comply with the LP-Gas Safety Rules you are requesting an exception. Be sure you also quote the exact reference and description of the safety rule.

Make photocopy of Section 9.65 (b) and fig. 1a of Safety Rules and attach with notice sent to adjoining property owners with this application form. Quote specific part which applies to your violation (s). Example: A vertical bulkhead with pneumatically activated ESV's is installed 79 feet from the west property line, instead of the 80 foot minimum required distance.

STATEMENT OF SUPPORTING FACTS:

State the facts supporting your desired relief and if the exception is not granted, how it will affect the social and economic impact of your business or operations. The economic impact is the estimated total sum of all monetary factors or alternative solutions necessary to bring the installation or equipment into full compliance with the safety rules, plus any additional costs to the consumer, if applicable.

Social impact, if not granted: None

Economic impact, if not granted: The cost of relocating the Bulkhead. (Labor and material, ie: additional piping, repouring, concrete, removal and relocation labor costs etc.)

SAFETY ASPECTS OF EXCEPTION:

Explain the safety aspects involved and how this exception may be justified without affecting the health, safety, and welfare of the general public. If the exception involves an existing LP-gas installation or existing LP-gas mobile equipment, list existing safety features. What additional improvements could be made to offset any reduction in safety?

The following is not a complete list. Specifics vary per applicant.

1. Conduct a thorough research of your own records and/or LP-Gas Division public records.
2. If previously inspected, have all corrections been made?
3. State when storage was purchased or installed, and when bulkhead with emergency shut off valves were installed. How have they been maintained? Submit photographs
4. Explain safety features of bulkhead and ESV's.
5. Have any incidents of lost product or accidents occurred on the premises since installation?
6. What is located on the other side of the west property line? Submit photographs.
7. How close is public/traffic access to transfer area?

DESCRIPTION OF ACREAGE OR LEASED AREA:

If a stationary LP-gas installation, use the space below to describe the site sufficiently for determination of property or lease lines, land ownership, and by what legal authority the applicant, if not the owner, is permitted occupancy.

ATTACH SUPPORTING DOCUMENTS: A legal property description with a site plan indicating the dimensions of the boundaries described by the legal description or a plat showing the dimensions of the property description. The site plan must show all adjoining property lines, streets, and highway or railroad right-of-ways and must coincide with the legal property description or plat. The site plan may include other information such as buildings, storage containers, and other exposures relevant to the exception which is not indicated on the plat. If the area described is under lease, a copy of the lease agreement, and exhibit(s) showing the area under lease may be filed in lieu of the legal property description or plat.

Legal description and acreage: Give complete legal description of property owned or leased to applicant. Examples: Lots 7, 8, 9, 10 of the Jason Williams Survey ABS. No. 179.

I have attached:
Check applicable box(es)

1. ☐ Legal property description, with site plan.
2. ☑ Survey plat, with site plan.
3. ☐ Lease agreement, with site plan.

AFFECTED PARTIES WHO MUST BE SENT A COPY OF THIS REQUEST:

Affected parties to the exception are persons, firms, corporations and governmental entities including, but not limited to: notice to city council or mayor, if in municipal limits; notice to county commission, if not in municipal limits. If an exception is requested on a nonstationary site, affected parties to whom the applicant must give notice shall include, but not be limited to: the Texas Department of Highways and Public Transportation; the Texas Department of Public Safety; and all processed gas loading and unloading facilities utilized by the applicant, if the applicant does not own or lease bulk storage containers. All affected parties must be given a copy of Pages 1 and 2 of this application to verify that proper notice has been served. The LP-Gas Division must be in receipt of the original Certified Mail Return Receipt(s), or if hand delivered to the affected parties, a copy of the original notice must be attached to your application.

PLEASE GIVE FULL NAME AND ADDRESS OF EACH AFFECTED PARTY. EACH AFFECTED PARTY MUST BE AFFORDED AN OPPORTUNITY TO OBJECT OR NOT OBJECT TO THE EXCEPTION REQUESTED. THE PARTY SHALL NOTIFY THE DIVISION IN WRITING OF SPECIFIC OBJECTIONS. THE ORIGINAL OF THE RETURN RECEIPT CARDS MUST BE FILED WITH YOUR APPLICATION AS EVIDENCE THAT AFFECTED NOTICE WAS RECEIVED BY THE AFFECTED PARTY. ATTACH A COPY OF A LAND ABSTRACT OR MARK THE SITE PLAN ABOVE TO SHOW ALL ADJOINING PROPERTY OWNERS. LIST ALL NAMES AND ADDRESSES OF REQUIRED PARTIES TO RECEIVE NOTICE ON THE BACK SIDE OF THIS PAGE. USE PAGE 5 OF 6, NOTICE OF EXCEPTION TO LP-GAS SAFETY RULES, AS THE INSTRUMENT OF NOTICE.

I have attached:
Check applicable box(es)

1. ☐ Land abstract of surrounding properties AND original certified mail return receipt(s) for each notice sent.
2. ☑ Expanded site plan showing surrounding properties and original certified mail return receipt(s) for each notice sent.

NOTE: ANY ATTACHED MATERIAL TO BE CONSIDERED MUST BE FILED WITH AN AFFIDAVIT SIGNED BY A PERSON HAVING PERSONAL KNOWLEDGE.

Names and addresses of parties that were mailed copies of this request.

1. John Doe
Name of person or entity
Route 1, Box 734 | Kale, Tx | 78792
Mailing address | City, State | Zip Code

2. Oilfield Equipment Sales
Name of person or entity
Route 1, Box 987 | Kale, Tx | 78792
Mailing address | City, State | Zip Code

3. Precinct 4, Commissioner Marian Perieto
Name of person or entity
P.O. Box 735 | Austin, Tx | 78723
Mailing address | City, State | Zip Code

4. _____
Name of person or entity
_____
Mailing address | City, State | Zip Code

5. _____
Name of person or entity
_____
Mailing address | City, State | Zip Code

ADDITIONAL COMMENTS:

We could not obtain a lease for additional property beyound the west property line because the adjoining property is involved in probate proceedings.

The applicant must make a credible case the exception in particular is necessary and an exception, if granted, would not impair or tend to impair the health, safety and welfare of the general public. Photographs and other documentation may be submitted or requested by the division if necessary to clarify the applicant's intentions toward this purpose.

I certify all the person(s) named above have been sent notice (Page 5 of LPG Form 25) by certified mail, return receipt requested. I understand that should the exception be granted, I may be required to file an LPG Form 500, Application for Tentative Approval of LP-Gas Installation, LPG Form 500A, Notice of LP-Gas Installation, or LPG Form 501, Completion Report. Any non-compliance with the safety rules could result in my company being subjected to administrative enforcement proceedings and/or administrative penalties under Sections 113.161-113.164 and 113.231, 113.232, Texas Natural Resources Code, Chapter 113.

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this application; it was prepared by me or under my supervision and direction, and the data and facts stated herein are true, correct, and complete to the best of my knowledge. I also understand the LP-Gas Division must be notified of any changes to this application as soon as possible which may necessitate re-notification of adjoining property owners as required by Section 9.21 of the LP-Gas Safety Rules.

Albert Service
(Printed name of Applicant or Applicant's Representative)

Albert Service
(Authorized signature of Applicant or Applicant's Representative)

December 30, 1990
(Date)

NOTICE OF EXCEPTION TO AFFECTED PARTIES

TO: John Doe
(Name of person or entity to receive notice.)
Route 1, Box 734
(Address)
Kale, Tx 78792
(City) (State) (Zip Code)

(If mobile equipment is involved, contact the Railroad Commission of Texas, LP-Gas Division, for appropriate names and addresses.)

NOTICE

You have been notified as a person or governmental entity entitled to notice of an application for exception to the LP-Gas Safety Rules of the Railroad Commission of Texas, LP-Gas Division, and are hereby given notice that

All Service Propane
(Full name of applicant or person requesting exception)
of 4201 Bell Road (Address) Harris (City) Texas (State) 78735 (Zip code)
has requested exception(s) to Section(s) 9.65 (b)
(Safety Rule Reference(s))
of the LP-Gas Safety Rules. The exception, if granted, is located at:
4201 Bell Road, 1.5 miles west of Harris, Texas
(Street address or other accurate description of property)

THE FOLLOWING SPACE IS TO BE USED BY THE PARTY WHICH RECEIVED NOTICE

I _____, as an affected party have been served notice and have received a copy of Pages 1 and 2 of the applicant's request for an exception to the LP-Gas Safety Rules. **I Object Do Not Object** *(Circle One)* to the exception requested. If you object, your objections must be filed with the LP-Gas Division in writing within 18 days of the date the application was mailed. Any questions about this procedure or the particular exception requested must be sent to the attention of the LP-Gas Division director. You may request a copy of the complete application on file with the division. A hearing will be held when the Railroad Commission of Texas receives proper objections. You may use the reverse side of this page to list and explain any reasons for objection. I have read and understand the notice herein.

_____ _____
(Printed name of affected party) (Date)

_____
(Signature of affected party)

OBJECTION	REASON FOR OBJECTION

Return to:
Railroad Commission of Texas
LP-Gas Division
P.O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

FRANCHISE TAX CERTIFICATION

Notice to Corporations

Any applicant that applies for an original or renewal LP-gas license must file LPG Form 26, Franchise Tax Certification, with the LP-Gas Division. This will assist the division in complying with the provisions of House Bill 175 passed by the 70th Legislature. Under this law, state agencies are prohibited from issuing any permits or licenses, or awarding contracts to corporations delinquent in paying its franchise tax.

As an alternative to filing this form, a corporation may request a Certificate of Good Standing from the Comptroller of Public Accounts and file a copy of that certificate with the LP-Gas Division. To obtain a certificate, free of charge, call the comptroller's office at 1-800-252-5555 or at Austin, TX (512) 463-4600 and provide your corporation name, taxpayer ID number, and corporate charter number. Otherwise, complete the following:

TAX CERTIFICATION STATEMENT

I hereby certify the statement indicated below applies to the named applicant, and I understand that making a false statement constitutes grounds for the suspension or cancellation of my LP-gas license granted under authority of this statement:

The applicant's name below is:

☑ Exempt from or not subject to the State of Texas Franchise Tax

☐ Subject to and not delinquent on the State of Texas Franchise Tax

All Service Propane — Corporation Name

123456789 — Taxpayer ID

Charter Number

Albert Service — Representative's Signature

Albert Service — Representative's Name (print)

Owner — Representative's Title

(512) 368-1201 — Area Code/Phone Number

June 23, 1991 — Date

State of: Texas

County of: Travis, personally appeared before me, and being first duly sworn declared he signed this franchise tax certification notice in the capacity designated, if any, and further states he has read the above application, and the statements therein contained are true.

Subscribed and sworn to before me this 23rd day of June, 19 91.

Diane Parker — Notary Pubic Signature

(Seal)

Diane Parker — Notary Public Printed or Typed Name

My commission expires 12-31-92

Return to:

Railroad Commission of Texas
LP-Gas Division
P.O. Box 12967
Austin, Texas 78711-2967

LPG FORM 26
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
APPLICATION FOR TESTING LABORATORY REGISTRATION

NOTICE: Each registration must be renewed on an annual basis. No person may conduct LP-gas container testing activities covered by the Texas Natural Resources Code, Chapter 113, until properly registered as required by Section 9.4 of the LP-Gas Safety Rules.

Please type or print in black ink as all documents are microfilmed.

Registrant's Name:

(1) Company Name Alpha Testing Laboratory, Inc.

DBA Alpha Testing | DBA

DBA | DBA

DBA | DBA

Official Communications:

(2) Samuel J. Swanson (Contact Person) (3) 713/269-7199 (A/C Telephone Number) (4) Harris (County)

(5) 5121 River Road (Registrant's Address) (6) Houston (City) (7) Tx (State) (8) 76953 (Zip Code)

Registrant is a (9) ■ Sole Proprietor

Check Appropriate Box

☐ Partnership

☐ Corporation, which is incorporated under the laws of the State of (10) Texas
If other than Texas, is the corporation registered with the Secretary of State and authorized to do business in Texas? (11) N/A

☐ Other (specify type) N/A

(12) List owner of sole proprietorship, partners in partnership, or officers of corporation.

Name	Capacity	Address
Samuel J. Swanson	owner	9300 River Oaks Houston, Tx 76957

(13) List each method of container testing proposed (As required by Section 9.34, attach written practice, testing procedure(s), and eye examination(s) report(s).

Hydrostatic testing; ultrasonic thickness testing Ultrasonic angle beam; Magnetic particle (dry powder) Wet florescent magnetic particle; Radiography; Liquid penetrant and Eddy current testing.

(Continued on back)

RRC USE ONLY
Register No.
Amt. Type
Approved Date

LPG FORM 27
New 12/90

IT IS FURTHER UNDERSTOOD THAT I, OR WE, ARE FAMILIAR WITH THE REQUIREMENTS OF CHAPTER 113, TEXAS NATURAL RESOURCES CODE, WITH REGARD TO PROVISIONS PERTAINING TO THE DUTIES OF A REGISTRANT AND THAT I, OR WE, WILL COMPLY WITH EACH PROVISION CONTAINED IN SAID ACT, AND WILL FURNISH ALL ADDITIONAL INFORMATION REQUESTED BY THE RAILROAD COMMISSION OF TEXAS PURSUANT TO ITS REGULATORY AUTHORITY.

I, OR WE, AGREE THAT ANY CHANGE IN OWNERSHIP, OR CHANGE IN NAME, WILL BE REPORTED TO THE RAILROAD COMMISSION OF TEXAS BY REGISTERED MAIL EITHER PRIOR TO THE CHANGE IN OWNERSHIP, CHANGE IN NAME, TESTING ANY LPG CONTAINER UNDER NEW OWNERSHIP, OR UNDER A CHANGED NAME.

I DECLARE UNDER PENALTIES PRESCRIBED IN SECTION 91.143, TEXAS NATURAL RESOURCES CODE, I AM AUTHORIZED TO SIGN THIS REPORT, AND I HAVE EXAMINED THIS REPORT AND MADE ANY CORRECTIONS, ADDITIONS, OR DELETIONS NECESSARY, AND THE DATA AND FACTS STATED HEREIN IS TRUE, CORRECT, AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

(18) **FOR USE BY SOLE PROPRIETOR OR PARTNERSHIP ONLY:**

January 28, 1991
Date

Samuel J. Swanson
Signature of Owner or Partner

(19) **FOR CORPORATE USE ONLY:**

(Corporate Seal)

Name(s) under which business is to be transacted

(20) Signature of Subscriber *

ATTEST:

Capacity of Subscriber */**

(21) Corporate Secretary

Date

* Subscriber must be president or vice-president of corporation unless exception is granted by LP-Gas Division.

** The Board of Directors may file with this form a Power of Attorney designating a corporate officer whose signature will bind the corporation. In such case only one signature is necessary.

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
APPLICATION FOR TENTATIVE APPROVAL OF LP-GAS INSTALLATION

Site ID No.

Plan No.
(RRC Use Only)

Instructions: Section 9.29 of the LP-Gas Safety Rules requires this form to be filed, and tentative approval granted, prior to placing an LP-gas container (or installing a LP-gas system) at a school, convalescent center, hospital, retail cylinder filling, motor/mobile fuel station,and any LP-gas commercial or bulk storage site having a aggregate water capacity (a.g.w.c.) of 10,000 gallons or greater. Use a separate form for each facility type described above. A nonrefundable fee of $25 must accompany each original application. If the form is returned for correction, or revised plans and specifications are submitted, a nonrefundable fee of $5.00 must accompany each resubmission. Make checks payable to the Railroad Commission of Texas-LPG. Do not send cash. The person signing the form must be the applicant or an authorized representative of the applicant.

PART A APPLICANT INFORMATION

Applicant's name Albert Service (Individual) Representing All Service Propane (Applicant's company name)

Lic/Exemption No. 0102 (If applicable) Mailing Address 4201 Bell Road

City Harris State Tx Zip Code 78735 Tel. (512) 368-1201

PART B INSTALLATION INFORMATION (Check applicable box and insert additional subclassification, such as, Stand-by or Hot-Mix Plant, etc.,in the other category or if LP-gas container(s) are used for multiple service indicate secondary usage)

FACILITY TYPE:

☐ School ☐ Hospital ☐ Convalescent center ■ Commercial ☐ Bulk Storage

☐ Retail cylinder filling motor/mobile fuel station LPG license status: Pending _____ Issued Lic. No. N/A (Yes/No)

■ Other Private Motor / Mobile Fuel Service Station

Facility Operator's Name Hot Oil, Inc. Mailing Address 7456 Trevor Lakes Lane

City Downhole State Tx Zip Code 74176 Tel. (512) 279-1450 County Lee

Geographic location CR 71 5.4 miles east of FM 25 south of Downhole

Contact Person Mike Operator Title Superintendent Social Security Number ___ - ___ - ___
(SSN applicable to licensed LPG operator only)

PART C LPG CONTAINER & BULKHEAD INFORMATION (DO NOT COMPLETE, if an LPG container is not involved, or if container is to be reconnected in the exact same location, or if only bulkhead(s) and ESV's are added to an existing installation). PRIOR TO INSTALLATION APPROVAL, LP-gas container or equipment approval may be required. An LPG Form 5, Manufacturer's Data Report, LPG Form 8, Manufacturer's Report of Pressure Vessel Repair, Modification and Testing, LPG Form 23, Statement in Lieu of Container Testing, and LPG Form 502, Application for LP-Gas Equipment and Component Approval, may be required. The need for additional forms to be submitted under Sections 9.29(c) or 9.34 of the LP-Gas Safety Rules is dependent on full disclosure concerning container documentation. Search fees for data reports are $5.00 for each 1/2 hour or fraction thereof.

CONTAINER STATUS (Check all boxes which may apply)

☐ New Container(s) ☐ Container Relocation(s) ■ Container Addition(s) ☐ Container Replacement(s)

BULKHEAD(S) & EMERGENCY SHUT-OFF VALVES (ESV's) (Check two boxes, one of each set of options, if applicable)

Type Bulkhead: ■ Vertical ☐ Horizontal **Type of ESV's:** ☐ Cable ■ Pneumatic

CONTAINER DOCUMENTATION (If new container purchase, container unbuilt, insert fabricator's drawing number in place of serial number)

(1)MFG. Name State Tank Ser. No. US-16954 W.G. 18,000 Yr. Built 1979

(2)MFG. Name NEB Tank Co. Ser. No. 15478 W.G. 12,000 Yr. Built 1988

Insert one or more of the following dates relative to each used container listed:

	(1)	(2)
Date container removed from previous site:	12/5/89	07/15/89
Date container last filled with LP-gas:	10/22/89	03/15/89
Date container last inspected by LP-Gas Division:	11/10/89	N/A (out of state)

If one or more of the containers listed are from out-of-state, indicate location, type of prior service and previous operator's business:

City: (1) Pear Land (2) Omaha State: (1) Texas (2) Nebraska

Used in LPG, NH3, Other LPG (each) (Type service) at Nebraska Fuel, Inc. facility

for (1) commercial plant farm (Type of installation) (2) Bulk storage (Type of installation)

LPG Form 500
Revised 12/90

(Continued on back)

PART D KEY COMPLIANCE ISSUES (Answer all items. A false or nonresponsive answer will require an explanation under additional comments.)
Insert "T" for true, "F" for false

T — There are no overhead transmission lines within six feet of any LPG container.
T — There are no flammable liquid aboveground containers within 20 feet of any LPG container.
F — LP-gas in the liquid phase will not be piped into a building. No buildings on premises served by LP-Gas.
T — LP-gas liquid or vapor piping will not be installed in a basement. No buildings on premises served by LP-Gas.
F — Only piping materials and fittings that comply with the LP-Gas Safety Rule(s) will be used.
T — Only RRC approved or AGA, FM, UL, listed appliances for LP-gas will be installed. No appliances installed.
T — The LP-gas system, including equipment and appliances, will be pressure tested free of leaks after installation is completed.
T — All LPG equipment and components have been RRC approved for use in Texas.
T — Regulation fencing/guard rails, if installed, will meet two foot clearances from container, bulkheads, material handling and dispensing equipment.
T — A canopy/shed, if installed, will not extend over top of the LPG container.
T — All work done or subcontracted out for LP-gas installation construction will be performed by RRC certified or licensed personnel or an ultimate consumer which has received a license exemption from the division.
T — An installation contract has been awarded to a licensed installer, if different from applicant, indicate LPG license number 0175

ADDITIONAL COMMENTS The licensed contractor for the piping system is Energy Mechanical.

PART E SUPPORTING DOCUMENTATION (Attach applicable documents based on description provided below. An asterisk by document listed means document or drawing must be to scale. DRAWINGS MUST INDICATE ALL DISTANCES FROM LP-GAS CONTAINERS, BULKHEADS, VAPORIZERS, AND DISPENSERS to all buildings on the premises, PROPERTY LINES, LEASE LINES and where applicable, to RAILROAD, PIPELINE, UTILITIES AND HIGHWAY RIGHT-OF-WAY. Since the above dimensions must be shown on scaled drawings, the accuracy must be indicated to the nearest foot. Check all boxes appropriate to facility type which is enclosed with your application.)

- [x] LPG FORM 5 For NEB Tank Co. (Only if requested by the division)
- [x] LPG FORM 8 For NEB Tank Co. (When containers required to be tested by division)
- [ ] LPG FORM 19 (Required for new licensed retail outlets or changes in inventory on existing installation)
- [x] LPG FORM 23 For State Tank (Containers out-of-service more than 1 year, or if requested by division)
- [x] LPG FORM 500 (Required for new or expired re-application)
- [x] LPG FORM 500A (Required for sites more than 9,999 w.g.a.c.)
- [ ] LPG FORM 501 (DO NOT FILE in lieu of final inspection)
- [ ] LPG FORM 502 (Required if requested by division)
- [x] WRITTEN WAIVER (Required for sites adjacent to private right-of-ways.)
- [x] $25.00 ORIGINAL FILING FEE (Required for new or expired re-application)
- [ ] $5.00 REFILING FEE (Required for each submission)
- [x] LAND ABSTRACT SHOWING 500 FOOT RADIUS AND NAMES OF ADJOINING PROPERTY OWNERS (Required for sites more than 9,999 w.g.a.c.)
- [x] CERTIFIED MAIL RETURN RECEIPTS (Required for LPG FORM 500A)
- [ ] * SURVEY PLAT (If operator owns installation site)
- [x] * LEASE AGREEMENT WITH LEASE EXHIBIT (If operator does not own site)
- [x] * CONTAINER INSTALLATION DETAIL (Required only if plat is too small to show all installation details)
- [ ] LPG APPLIANCE LAYOUT, BTU, TYPE (Required for all vapor systems ONLY)
- [x] LPG PIPING SYSTEM LAYOUT (Required on all facility types including remote pipe risers and manual and automatic dispensers except self-contained service station units)

PART F CERTIFICATION STATEMENT AND AUTHORIZED SIGNATURE

I certify I will not commence LP-gas installation construction until tentative approval has been granted. If tentative approval is granted, I understand I must fully complete the installation for final inspection within one year of the approval date and must notify the division in writing the installation is ready for a final inspection before the tentative approval expiration date. Failure to complete the installation within this time period without an extension of time granted by the LP-Gas Division director will automatically void my original tentative approval, necessitating filing of a new application and fee should I wish to pursue the same installation. I certify this installation will be completed in accordance with the plans and specifications contained herein and in compliance with all applicable safety rules of the LP-Gas Division, all applicable statutes of the State of Texas and any Commission Order (where applicable), which may be entered pertaining to this installation. I understand that any changes regarding the container size and location or modification of the LP-gas installation will require resubmission of plans immediately. LP-gas container(s) will not be installed before tentative approval is granted or filled with gas without express authorization from the LP-Gas Division, until such time tentative approval is granted. I also understand non-compliance may result in my company being subjected to administrative enforcement proceedings and/or administrative penalties under Sections 113.161-113.166 and 113.231 and 113.232, Texas Natural Resources Code, Chapter 113. If this application concerns the installation of a stationary LP-gas installation of 10,000 gallons or more, aggregate capacity, then the following applies. Also, I certify that each real property owner, as described in Section 9.28(b) of the LP-Gas Safety Rules has received notice of this LP-gas installation on LPG Form 500(a). I understand that failure to do so may result in the convening of a public hearing under Section 9.28(d) of the LP-Gas Safety Rules. I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this affidavit, that it was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct and complete, to the best of my knowledge.

Jesse Balbou for All Service Propane
(Printed name of Applicant or Applicant's Representative)

Jesse Balbou
(Authorized Signature of Applicant or Applicant's Representative)

01/15/91
(Date)

Return to:
Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

FOR RRC USE ONLY	DEPT INIT.
Initial Review	
Final	
Dates	

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
NOTICE OF LP-GAS INSTALLATION

TO: Jane Doe
(Name of person or entity to receive notice)
412 Pearl Street
(Address)
Jefferson, Tx 71521
(City) (State) (Zip Code)

NOTICE

You have been identified as a person or governmental entity entitled to notice of proposed LP-gas storage installation. Under the LP-Gas Safety Rules of the Railroad Commission of Texas, LP-Gas Division, you are hereby given notice that All Service Propane
(Name of applicant or person seeking installation)
of 4201 Bell Road Harris Tx 78735
(Address) (City) (State) (Zip Code)
plans to install Two LP-gas storage containers with an aggregate capacity
(Number of proposed containers)
of 30,000 gallons, on the property located at:
(Total aggregate capacity of proposed containers)
Hot Oil Inc. County Road 71, 5.4 miles east of FM 25 south of Downy, Tx.
(Geographic location of proposed LP-gas storage site)
This will change the aggregate capacity of storage on the site to a total of 38,000 gallons.
(Total combined capacity of existing and proposed storage)

Under Section 9.29 of the LP-Gas Safety Rules, the storage must be approved by the LP-Gas Division of the Railroad Commission of Texas. Under Section 9.28 of the LP-Gas Safety Rules you are given the right to comment on or object to this proposed installation. All comments or objections must be addressed to the director of the LP-Gas Division at the address indicated on the backside of this form. The division may consider amended objections received from affected parties should subsequent information be filed by the applicant. Division files are open record, and you may order a copy of the LP-Gas Safety Rules from the division. **All comments or objections must be received no later than 18 days after the day of mailing this notice. Comments and objections are considered received by the Railroad Commission of Texas on the day of actual receipt-not on the day of mailing.** You may state any objections and comments on this form; however, you must make a proper objection for it to be considered. Under Section 9.28, a proper objection to a proposed installation must include a statement alleging either (A), (B), or (C) below, and contain supporting facts. Please check the applicable statement below and provide supporting facts or any comments on the reverse side.

_____ (A) I object on the basis of noncompliance with the LP-Gas Division Safety Rules, with reference to the particular rules(s) relied upon;

_____ (B) I object on the basis of noncompliance with the statutes of the State of Texas, with reference to the particular provision relied upon;

_____ (C) I object on the basis of facts which indicate that the proposed installation constitutes a danger to the public health, safety, and welfare;

_____ (D) I have no objection or comments to make regarding the proposed installation described above.

LPG Form 500a
Revised 12/90

(Continued on back)

Under the provisions of the LP-Gas Safety Rules, if proper objections to a proposed installation are filed, a hearing on the installation proposed is required to be held. A hearing will determine whether the installation, as designed, meets all rules and regulations of the Railroad Commission of Texas, all applicable statutes of the State of Texas, and whether it constitutes a danger to the public health, safety, and welfare. These are the only areas of inquiry which will be addressed. In order for this form to be considered, it must be dated and signed in ink by the addressee or duly authorized agent of the addressee.

ANY QUESTIONS ABOUT THIS PROCEDURE OR THE PROPOSED INSTALLATION SHOULD BE ADDRESSED TO THE OFFICE OF PLAN REVIEWS OF THE LP-GAS DIVISION.

I have read and understood the notice herein.

_____
(Printed name)

_____
(Signature of addressee or agent)

_____
(Date)

COMMENTS OR FACTS SUPPORTING OBJECTIONS

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
LIQUIEFIED PETROLEUM GAS DIVISION

COMPLETION REPORT

Site ID No.
(RRC Use Only)

Instructions To Licensee:
As required by Sections 9.29(b), (c), and (g) of the LP-Gas Safety Rules, this report is to be filed with the commission, along with applicable fees, and postmarked within 10 days from the date of the LP-gas installation completion covering any non-residential LP-gas installation of less than 10,000 aggregate water gallon capacity subject to the rules and regulations of the commission. A manufacturer's data report(s) or test report(s) may be requested at a later date by the LP-Gas Division in accordance with Sections 9.29(h) and 9.34 of the LP-Gas Safety Rules. The filing fee is $5.00 for each container. The resubmission fee is $5.00 per completion report. **PLEASE TYPE OR PRINT IN BLACK INK FOR MICROFILMING PURPOSES**

Name of Installation: Hill's Pizza Parlor

Mailing Address: P.O. Box 718 (P. O. Box/Street Number) Liberty (City) Tx (State) 78642 (Zip Code)

Physical Address:
(Give complete geographical location) Hwy. 29, 1.5 miles NW of Liberty

Liberty (City) Williamson (County)

Type of Installation: (Mark applicable box)

☐ Licensed Bulk Storage ☐ Retail Cylinder Filling/Service Station ☑ Commercial ☐ Stand-by

☐ Private Cylinder Filling ☐ Motor/Mobile Fuel ☐ Private Forklift Refueling

LP-Gas System: ☑ System Pressure Tested ☑ Appliance Operation Checked ☐ N/A

• • • • •

I hereby notify the Railroad Commission of Texas, LP-Gas Division, the LP-gas installation described above was completed on June 19, 1991 (Date) in accordance with the LP-Gas Safety Rules and is now ready for commission inspection. I understand that failure to give timely written notification of this installation or any other LP-gas installation to the LP-Gas Division and/or if the LP-gas container is connected to supply piping and/or placed into LP-gas service without having first ascertained full compliance with the requirements of the LP-Gas Safety Rules, that I, or my company could be subjected to administrative enforcement proceedings and/or be criminally fined under Sections 113.161 - 113.164, 113.231 and 113.232, Texas Natural Resources Code, Chapter 113. Failure to comply may result in the filing of a criminal complaint and/or probation, suspension, or cancellation of my LP-gas license.

Albert Service — Authorized signature

June 23, 1991 — Date

All Service Propane, Inc. — Installer's licensed company name

0102 — License number

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 501
Revised 12/90

(Continued on back)

Container Information: ☑ New Container (New Installation) ☐ Container Relocation ☐ Container Addition ☐ Container Replacement Only

Mfg. Name	DAL-Worth	Serial No.	AP-58932	WG Size	500	Yr. Built	1980
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	
Mfg. Name		Serial No.		WG Size		Yr. Built	

Other Comments: N/A

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

APPLICATION FOR LIQUEFIED PETROLEUM GAS EQUIPMENT AND COMPONENT APPROVAL

Instructions to Applicant:
As required by Section 9.36 of the LP-Gas Safety Rules, this application is to be filed with the LP-Gas Division requesting approval of LP-gas equipment and component(s). Include with this application: drawings, design calculations, component materials specifications, laboratory test reports for LP-gas and component materials compatability, pressure and temperature rating, safety factor, illustrated parts diagram with component parts description, illustrations, brochures, photographs, and other documents or information that would provide creditibility to the submitted application. **Please type or print in black ink for microfilming purposes.**

APPLICANT'S COMPANY: City Fabricators, Inc.

APPLICANT'S REPRESENTATIVE'S NAME: A.C. Simmons

MAILING ADDRESS: 17791 Stemmons

Dallas (CITY) Tx (STATE) 75356 (ZIP CODE)

TELEPHONE NO.: (214) 325-7961 TOLL FREE: 1-800-376-9141

FAX: 214/325-7965

TRANSMITTAL LISTING OF DOCUMENTS:

Drawing number 91-716 sheet 1 thru 5; transport
Drawing number 76-519 sheet 1 thru 3; storage
Calculation sheets 1, 2 and 3
Calculation sheets 1 and 2

IF ADDITIONAL SPACE IS NEEDED ATTACH ADDITIONAL SHEET(S).

A.C. Simmons
APPLICANT'S REPRESENTATIVE'S SIGNATURE

1/28/91
DATE

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG Form 502
New 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

APPLICATION TO INSTALL A LIQUEFIED PETROLEUM GAS (LPG) OR COMPRESSED NATURAL GAS (CNG) SYSTEM ON SCHOOL BUS/MASS TRANSIT VEHICLES

INSTRUCTIONS: Section 9.187 of the LP-Gas Safety Rules and Section 13.24 of the Regulations for Compressed Natural Gas require this form to be filed by the ultimate consumer or licensee performing the installation or their authorized representative. This form will be returned to the sender as official notice of nonapproval, tentative approval, and if the converted vehicle(s) can be immediately placed into service upon installation completion. No filing fee is required. For subsequent conversions, use LPG Form 504/CNG Form 1504.

NOTE: DO NOT FILE THIS FORM UNLESS YOUR LICENSE OR EXEMPTION HAS BEEN ISSUED AND IS IN GOOD STANDING WITH THE RAILROAD COMMISSION OF TEXAS. An authorized applicant representative, may file this form on behalf of the installer or ultimate consumer, but the back side of this form must have the signature of both installer and the non-licensee applicant. Please type of print in black ink for microfilming purposes.

PROPOSED SPECIFICATIONS

As a LICENSEE/(ULTIMATE CONSUMER) *(circle one)* I intend to convert 1 (Number) (school bus)(es)/mass transit vehicle(s) *(circle one)* to use LPG (LPG, CNG, or Both) as an alternate motor fuel.

The vehicle(s) will be operated by Villa Independent School District *(Name of transit authority, political subdivision or independent school district)*

Operator Mailing Address P.O. Box 9876

Villa (City) Tx (State) 75147 (Zip Code) 713/981-1652 (Area Code/Telephone)

The conversions will be performed at 4201 Bell Road Harris, Tx *(Physical address of conversion site or transportation terminal for maintenance and repairs)*

Installer All Service Propane

Installer Mailing Address 4201 Bell Road

Harris (City) Tx (State) 78735 (Zip Code) 512/368-1201 (Area Code/Telephone)

VEHICLE INFORMATION (Provide the vehicle identification number and at least one other item for proper identification of vehicle. Add separate inventory sheet if necessary.)

(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
	056-748	1VN7BHG07L147926

(Continued on back)

(Vehicle Unit Number) (License Plate Number) (Vehicle Identification Number)

(Vehicle Unit Number) (License Plate Number) (Vehicle Identification Number)

(Vehicle Unit Number) (License Plate Number) (Vehicle Identification Number)

(Vehicle Unit Number) (License Plate Number) (Vehicle Identification Number)

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(Vehicle Unit Number) (License Plate Number) (Vehicle Identification Number)

(Vehicle Unit Number) (License Plate Number) (Vehicle Identification Number)

(Vehicle Unit Number) (License Plate Number) (Vehicle Identification Number)

(Vehicle Unit Number) (License Plate Number) (Vehicle Identification Number)

CONTAINER SPECIFICATIONS:

NO. LPG 1 W.P. 312 W.C. 82.0 NO. CNG ______ W.P. ______ C.I. ______

NO. LPG ______ W.P. ______ W.C. ______ NO. CNG ______ W.P. ______ C.I. ______

Manufacturer's Name (ea) Zang Manufacturer's Name (ea) ______

Total aggregate capacity 82.0 (Water gallons) Total aggregate capacity ______ (Standard cubic inches)

NOTE: Manufacturer's Data Report(s), may be required to be filed when requested by the division covering the container(s) to be installed.

ULTIMATE CONSUMER/LICENSEE CERTIFICATION STATEMENT

I certify the conversion(s) will be completed in accordance with the diagram and specifications contained herein and in compliance with all applicable safety rules and statutes of the LP-Gas Division and any commission order (where applicable) which may be entered pertaining to this installation. All work on the operator's equipment must be performed by employees qualified by the Railroad Commission of Texas. Only FM, UL, AGA, CGA (Canadian), or RRC approved equipment components will be installed. I understand any changes regarding the relocation of the system component will necessitate resubmission of LPG Form 503/CNG Form 1503. I also understand non-compliance may result in an administrative enforcement proceeding or criminal fee against me under Sections 113.161 - 113.164, 113.231 and 113.232 or Sections 116.141 - 116.146, Texas Natural Resources Code, that I am authorized to make this affidavit, and the data and facts herein are true, correct and complete to the best of my knowledge.

Applicant's Name Tracey Marek, Dir. of Transportation, Villa I.S.D.

Mailing Address P.O. Box 9876

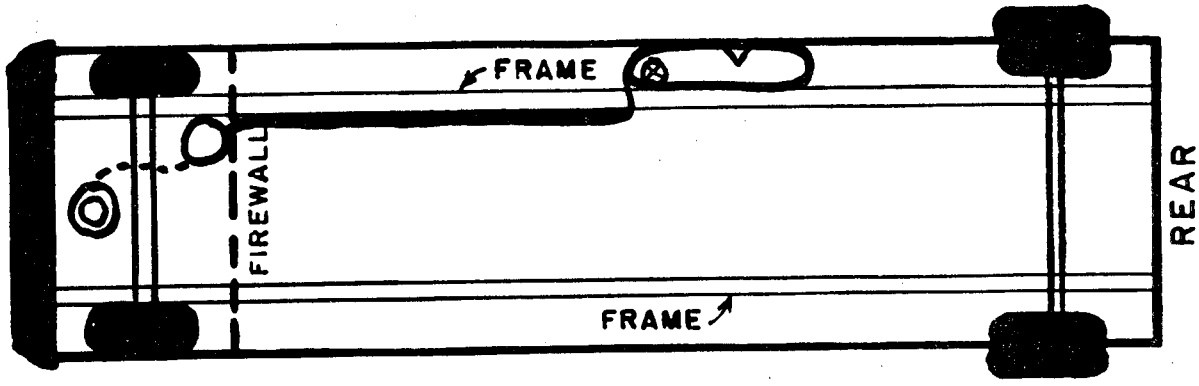
Villa (City) Tx (State) 75147 (Zip Code) 713/981-1652 (Telephone Number) (RRC Lic. Number, If applicable)

Tracey Marek
(Printed Name of Applicant or Applicant's Authorized Representative)

Tracey Marek
(Signature of Applicant or Applicant's Authorized Representative)

01/15/91
(Date)

TYPICAL BUS INSTALLATION DIAGRAM



Special Notes:

1. Regulator/Converter Make: ISO Model: 450
2. Vacuum lock-off Make: Super Model: Z14-50
3. Air/Mixer Make: Super Model: T-1500

INSTRUCTIONS: To indicate type of conversions, check the appropriate box(es) and locate the following items using symbols shown on the adjacent diagram.

Motor Fuel Options: ■ LPG ☐ CNG ☐ DUAL LPG & CNG

Show engine location and route of motor fuel line(High pressure line only S.S. Wire Braid LPG Hose)
Material

LEGEND

△ Fueling connection (LPG or CNG) ○ Propane vaporizer/regulator
● Natural gas regulator ⊗ Manual shut-off valve
_____ Motor fuel line tank pressure ⬭ Motor fuel cylinder/tank
— — — Low pressure motor fuel line ◎ Mixer Ring

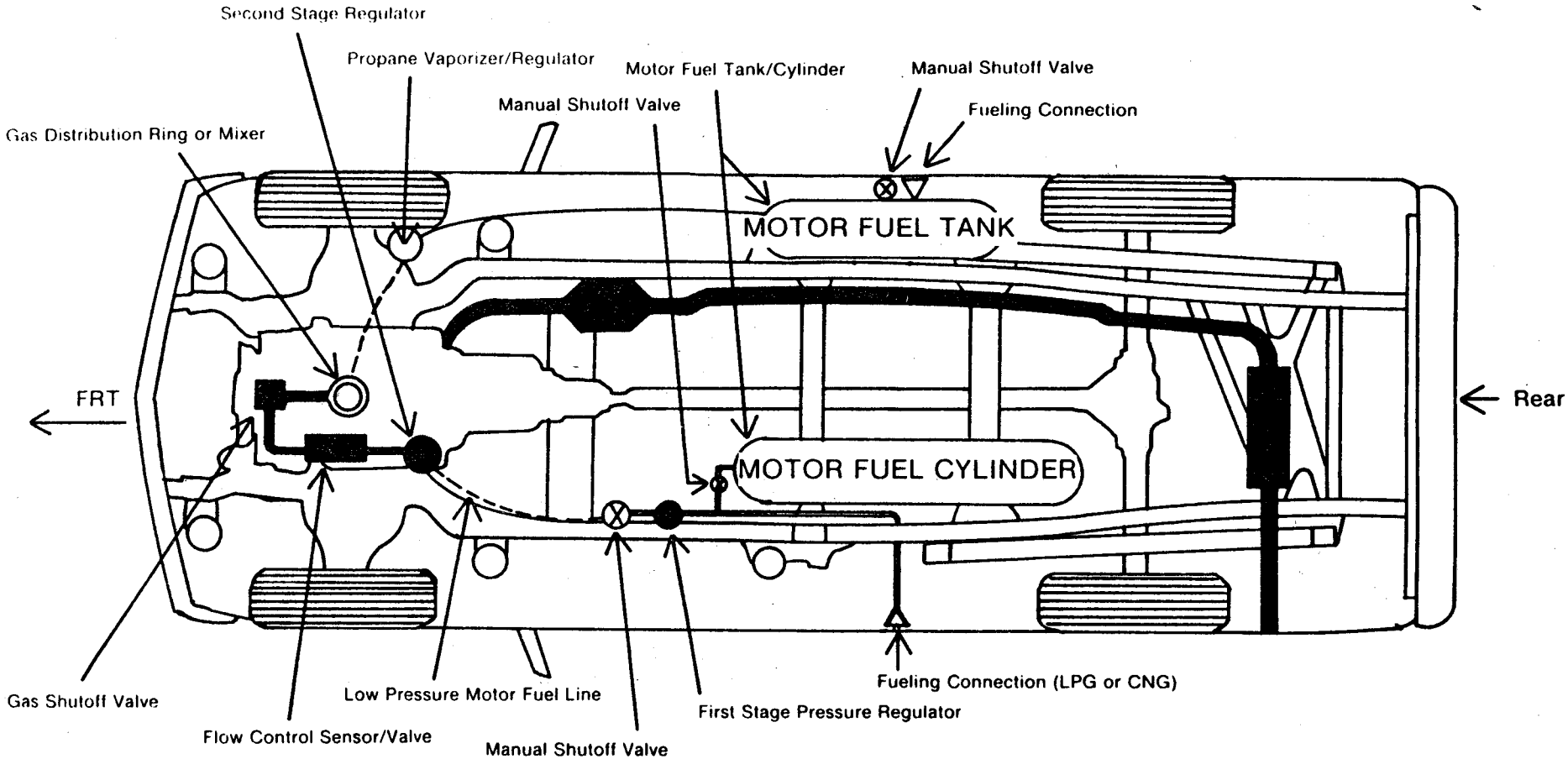
FRAME TYPE (Check one)
- ☑ Conventional
- ☐ Semi-forward
- ☐ Forward controlled

Show all tank/cylinder locations on diagram and indicate number of tanks/cylinders having the same specifications.

* Example of typical drawing to be submitted on back.

(Continued on back)

EXAMPLE OF TYPICAL INSTALLATION DIAGRAM
MASS TRANSIT VEHICLE/BUS



INSTRUCTIONS: To indicate type of conversions, check the appropriate box(es) and locate the following items using symbols shown on the adjacent diagram.

LEGEND

- △ Fueling connection (LPG or CNG)
- ○ Propane vaporizer/regulator
- ● Natural gas regulator(s)
- ⊗ Manual shut-off valve
- ..... Motor fuel line tank pressure
- ⬭ Motor fuel cylinder/tank
- - - Low pressure motor fuel line

Show all tank/cylinder locations, on diagram and indicate number of tanks/cylinders having the same specifications.

Motor Fuel Options: ☐LPG ☐CNG ☐ DUAL LPG & CNG

Show engine location and route of motor fuel line
(High pressure line only _____)
(Material)

FRAME TYPE (Check one)

- ☑ Conventional
- ☐ Semi-forward
- ☐ Forward controlled

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

NOTICE OF SUBSEQUENT CONVERSION BY THE SAME ULTIMATE CONSUMER OR LICENSEE

INSTRUCTIONS: Section 9.187 of the LP-Gas Safety Rules and Section 13.24 of the Regulations for Compressed Natural Gas requires this form to be filed by the same ultimate consumer or licensee prior to subsequent conversions in accordance with the previously approved specifications. In order to file this form, you must have obtained a prior tentative approval on LPG Form 503/CNG Form 1503 to install the last previous LPG or CNG engine fuel systems for the same operator (transit authority, political subdivision, or independent school district). This form will be returned to the sender as official notice of non-approval or approval, and if the converted vehicle(s) can be immediately placed into service upon installation completion. If you did not perform the latest LPG or CNG conversion, you must file a LPG Form 503/CNG Form 1503.

NOTE: DO NOT FILE THIS FORM UNLESS YOUR LICENSE OR EXEMPTION HAS BEEN ISSUED AND IS IN GOOD STANDING WITH THE RAILROAD COMMISSION OF TEXAS. Please type or print in black ink for microfilming purposes.

PROPOSED SPECIFICATIONS

As a LICENSEE or (ULTIMATE CONSUMER) *(circle one)* I intend to convert an additional 2 *(Number)* (school bus(es)) /mass transit vehicle(s) *(circle one)* to use LPG *(LPG, CNG, or Both)* as an alternate motor fuel.

The vehicle(s) will be operated by Villa Independent School District *(Name of transit authority, political subdivision or independent school district)*

Operator Mailing Address P.O. Box 9876

Villa *(City)* | Tx *(State)* | 75147 *(Zip Code)* | 713/981-1652 *(Telephone Number)*

The conversions will be performed at Villa Maintenance Shop 5317 Gulf Ave., Villa *(Physical address of conversion site or transportation terminal for maintenance and repairs)*

Installer Villa Independent School District

Mailing Address P.O. Box 9876

Villa *(City)* | Tx *(State)* | 75147 *(Zip Code)* | 713/981-1652 *(Telephone Number)*

VEHICLE INFORMATION (Provide at least two items for proper identification of vehicle. See reverse side for additional inventory if necessary)

(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
No. 45		1G57ADJB600143729
No. 37		1G57ADJB600145691

ULTIMATE CONSUMER/LICENSEE CERTIFICATION STATEMENT

I certify the conversion(s) will be completed in accordance with the diagram and specifications granted tentative/contruction approval on 01/15/91 *(Date)* for Villa ISD *(Operating Entity)* and will be installed in compliance with all applicable safety rules and statutes of the LP-Gas Division and any commission order (where applicable) which may be entered pertaining to this installation. All work on the operator's equipment must be performed by employees qualified by the Railroad Commission of Texas. Only FM, UL, AGA, (CGA (Canadian), CNG only) or RRC approved equipment components will be installed. I understand any changes regarding the relocation of the system component will necessitate resubmission of LPG Form 504/CNG Form 1504. I also understand noncompliance may result in an administrative enforcement proceeding or criminal fee against me under Sections 113.164 - 113.166 and 113.231 - 113.236 or Sections 116.141 - 116.146, Texas Natural Resources Code, I am authorized to make this affidavit, and the data and facts herein are true, correct and complete to the best of my knowledge.

Applicant Name Villa Independent School District

Mailing Address P.O. Box 9876

Villa *(City)* | Tx *(State)* | 75147 *(Zip Code)* | 713/981-1652 *(Telephone Number)* | N/A *(RRC Lic. Number (If applicable)*

Tracy Marek, Dir. of Transportation by Jane Macy *(Printed Name of Applicant)*

Jane Macy *(Authorized Signature of Applicant)* 01/22/91 *(Date)*

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 504/CNG FORM 1504
New 12/90

(Continued on back)

(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*
(Vehicle Unit Number)	*(License Plate Number)*	*(Vehicle Identification Number)*

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

CERTIFICATE OF INSURANCE
WORKERS' COMPENSATION INCLUDING EMPLOYER'S LIABILITY

Charter Insurance Company
(Name of Insurance Company)

(hereinafter called company) of P.O. Box 234, Dallas, Tx 76101
(Home Office Address of Insurance Company)

does certify that All Service Propane
(Name(s) of Insured)

of 4201 Bell Rd., Harris, Tx has been issued its policy or policies herein described,
(Address of LP-Gas Licensee)

which by attachment of the Texas Notice of Material Change Endorsement number WC 42 06 01 has been amended, providing Workers' Compensation Coverage, including Employer's Liability Coverage, in accordance with the laws and regulations of the State of Texas for those persons doing business and or employing workers in Texas, for the period herein specified.

Whenever requested by the Railroad Commission of Texas, the company agrees to furnish to the commission a duplicate of said policy and all endorsements thereon. Further, the company agrees it will only cancel this certificate of insurance as provided in the Texas Natural Resources Code, Chapter 113, and Section 9.23 of the LP-Gas Safety Rules. The company agrees to send notice of any cancellation or alteration of the insurance described herein to the LP-Gas Division in Austin, Texas.

Endorsement number WC 42 06 01 which is attached to the policy and any successor policies, may not be cancelled without cancellation of the policy or policies to which it is attached. Such endorsement requires the company to give the Railroad Commission of Texas, LP-Gas Division, 30 days written notice before cancellation. The 30 days notice commences on the date the notice is actually received by the LP-Gas Division.

Policy No. ECT 256780, (and any successor policies) referenced above, is

effective from January 2, 1991 and is continuous until cancelled.
(Date and time policy takes effect)

Countersigned at Dallas, Tx this 9th day of December, 19 90.

Alex Smith, Underwriter
(Printed Name of Representative)

Alex Smith
(Signature of Authorized Insurance Company's Representative)*

(214) 234-5678 1-2-91
(Area Code/Telephone Number) (Date)

*Restricted to those names authorized by the insurance company. Only the authorized signature previously filed with the LP-Gas Division will be accepted.

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 996A
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

STATEMENT IN LIEU of
INSURANCE FILING CERTIFYING
WORKERS' COMPENSATION COVERAGE
including
EMPLOYER'S LIABILITY COVERAGE

Effective this date _____ Albert Service _____ hereby states that
(Name of licensee/applicant)
no employees of the applicant or licensee are involved in LP-gas related activites in Texas as described by the Texas Natural Resources Code and the LP-Gas Safety Rules and consequently, is filing this statement in lieu of workers' compensation including employers liability insurance certificate.

The applicant states that prior to employing or using any person in LP-gas related activities in Texas, which requires insurance under the provisions of the Texas Natural Resources Code or the LP-Gas Safety Rules, the applicant or licensee will procure the insurance required by the Code and the safety rules, and will submit proof of such insurance to the LP-Gas Division in Austin, Texas.

This statement is signed with full knowledge of the provisions of Section 91.143, Texas Natural Resources Code, which set forth penalties for the submission of false information to the Railroad Commission of Texas.

Albert Service
(Printed Name)

Albert Service
(Signature)

(512) 368-1201 1-1-91
(Area Code/Telephone Number) (Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 996B
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

CERTIFICATE OF INSURANCE
MOTOR VEHICLE BODILY INJURY AND PROPERTY DAMAGE LIABILITY

Charter Insurance Company
(Name of Insurance Company)

(hereinafter called company) of Dallas, Tx
(Home Office Address of Insurance Company)

does certify that All Service Propane
(Name(s) of LP-Gas Insured)

of 4201 Bell Rd., Harris, Tx. has been issued its policy or policies herein described
(Address of LP-Gas Insured)

which by attachment of the Liquefied Petroluem Gas Licensee Motor Vehicle Endorsement-Texas Railroad Commission Form number TE 23 26A, has been amended to provide Motor Vehicle Liability insurance coverage (Motor Vehicle Bodily Injury and Property Damage Liability insurance) covering obligations imposed upon such insured by the provisions of the Texas Natural Resources Code, Chapter 113, and all commission insurance rules in which the commission has jurisdiction or regulations promulgated in accordance therewith.

The limits of the company's liability are as stated in the policy, but such limits are **not less** than $500,000 combined single limit for bodily injuries or death for all persons injured or killed in any accident, and loss or damage in any one accident to property of others. Whenever requested by the commission, the company agrees to furnish to the commission a duplicate of said policy with any endorsements thereon. Further, the company agrees it will only cancel this certificate of insurance as provided in the Texas Natural Resources Code, Chapter 113, and Section 9.23 of the LP-Gas Safety Rules. The company agrees to send notice of any cancellation or alteration of the insurance described herein to the LP-Gas Divsion in Austin, Texas.

Endorsement number TE 23 26A which is attached to the policy and any successor policies may not be cancelled without cancellation of the policy to which it is attached. Such endorsement requires the company to give the Railroad Commission of Texas, LP-Gas Division, 30 days written notice before cancellation. The 30 days notice commences on the date the notice is actually received by the LP-Gas Division.

Policy No. KAB87652 (and any successor policies) referenced above is effective from 1-1-91 / 12:01 a.m
(Date and time policy takes effect)
and is continuous until cancelled.

Countersigned at Dallas, Tx this 9th day of December, 19 90.

Alex Smith, Underwriter
(Printed Name of Representative)

Alex Smith
(Signature of Authorized Insurance Company's Representative)*

(214) 234-5678 1-1-91
(Area Code/Telephone Number) (Date)

*Restricted to those names authorized by the insurance company. Only the authorized signature previously filed with the LP-Gas Division will be accepted.

Return to:
Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 997A
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

STATEMENT IN LIEU OF MOTOR VEHICLE BODILY INJURY AND PROPERTY DAMAGE LIABILITY INSURANCE

I, Albert Service (Name of Person Completing Statement), Owner (Title),

do make this statement that All Service Propane (Name(s) under which LP-gas dealership is or will be operating) is licensed

or applying for license pursuant to Section 113.082, Texas Natural Resources Code, as category E (letter)

dealer, said applicant or licensee has not ☐ /will not ☑ January 1, 1991 (effective date) operate a motor vehicle

equipped with an LP-gas cargo container(s) or transport LP-gas in any manner by vehicle and, consequently, is filing this statement in lieu of a certificate of Motor Vehicle Bodily Injury and Property Damage Liability Insurance, and further, the applicant or licensee will file such a certificate with the Liquefied Petroleum Gas Division prior to the delivery or transportation of LP-gas by motor vehicle.

THE STATE OF: Texas

COUNTY OF: Travis

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this statement; I have personal knowledge of the above-stated facts; this statement was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge.

Albert Service
(Printed Name)

Albert Service
(Signature)

(512) 368-2101 (Area Code/Telephone Number) 1-1-91 (Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 997B
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

CERTIFICATE OF INSURANCE
GENERAL LIABILITY

Charter Insurance Company
(Name of Insurance Company)

(hereinafter called Company) of P.O. Box 234, Dallas, Tx 76101
(Home Office Address of Insurance Company)

does certify that All Service Propane
(Name(s) of Insured)

of 4201 Bell Road, Harris, Tx 78735
(Address of Insured)

has been issued its policy or policies herein described which by attachment of the Texas Changes-Amendment of Cancellation Provisions or Coverage change number CG 02 05 has been amended to provide general liability insurance, including premises and operations coverage, covering the obligations imposed upon the insured by the Railroad Commission of Texas, LP-Gas Division, in accordance with the provisions of the Texas Natural Resources Code, Chapter 113, and all commission insurance rules in which the commission has jurisdiction or regulations promulgated in accordance therewith. The limits of liability are as stated in the policy, but such limits are not less than the type of coverage checked:

( ) The limits of the company's liability are as stated in the policy, but such limits shall not be less than $25,000 Bodily Injury; $10,000 Property Damage, $25,000 Aggregate; or $25,000 Combined Single Limits.

( ) The limits of the company's liability are as stated in the policy, but such limits shall not be less than $50,000 Bodily Injury; $25,000 Property Damage, $50,000 Aggregate; or $50,000 Combined Single Limits.

( ) The limits of the company's liability are as stated in the policy, but such limits shall not be less than $300,000 Bodily Injury; $100,000 Property Damage, $300,000 Aggregate; or $300,000 Combined Single Limits.

(✓) The limits of the company's liability are as stated in the policy, but such limits shall not be less than $300,000 Bodily Injury; $100,000 Property Damage, $300,000 Aggregate; or $300,000 Combined Single Limits, including Completed Operations and Products Liability Coverage, $300,000 Aggregate.

Whenever requested by the commission, the company agrees to furnish to the commission a duplicate of said policy and all endorsements thereon. Further, the company agrees it will only cancel this certificate of insurance as provided in the Texas Natural Resources Code, Chapter 113, and Section 9.23 of the LP-Gas Safety Rules. The company agrees to send notice of any cancellation or alteration of the insurance described herein to the LP-Gas Division in Austin, Texas.

Endorsement number CG 02 05 which is attached to the policy and any successor policies may not be cancelled without cancellation of the policy or policies to which it is attached. Such endorsement requires the company to give the Railroad Commission of Texas, LP-Gas Division, 30 days written notice before cancellation. The 30 days notice commences on the date the notice is actually received by the LP-Gas Division.

Policy No. GLO 18537 (and any successor policies).

Effective from January 1, 1991 - 12:01 a.m.
(date and time policy take effect)

and continuous until cancelled.

Countersigned at Dallas, Texas this 9th day of December, 19 90

Alex Smith, Underwriter
(Printed Name of Representative)

Alex Smith
(Signature of Authorized Insurance Company's Representative)*

(214 234-5678 1-1-91
(Area Code/Telephone Number) (Date)

Return to:
Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 998A
Revised 12/90

*Restricted to those names authorized by the insurance company. Only the authorized signature previously filed with the LP-Gas Division will be accepted.

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION

STATEMENT IN LIEU OF GENERAL LIABILITY INSURANCE AND/OR COMPLETED OPERATIONS AND PRODUCTS LIABILITY INSURANCE

I, Albert Service (Name of Person Completing Statement), Owner (Title),

do make this statement that All Service Propane (Name(s) under which LP-gas dealership is or will be operating) is licensed

or applying for license pursuant to Section 113.082, Texas Natural Resources Code, Chapter 113, as a category E (letter)

dealer, that said applicant or dealer is not engaging in any LP-gas operations January 2, 1991 (effective date)

and, consequently, is filing this statement in lieu of a certificate of:

Check the appropriate box(es)

☐ general liability insurance. The licensee or applicant for a license must file the required insurance certificate with the division before engaging in any operations that requires general liability insurance.

☑ completed operations and products liability insurance. The licensee or applicant for a license must file the required insurance certificate with the division before engaging in any operations that requires completed operations and products liability operations insurance.

The applicant states that prior to performance of any activities which requires general liability coverage as set forth in the Texas Natural Resources Code, Chapter 113, or the LP-Gas Safety Rules, the applicant will procure the insurance as required by the Code and LP-Gas Safety Rules and will submit proof of such insurance to the LP-Gas Division in Austin, Texas.

THE STATE OF: Texas

COUNTY OF: Travis

I declare under penalties prescribed in Section 91.143, Texas Natural Resources Code, I am authorized to make this statement; I have personal knowledge of the above-stated facts; this statement was prepared by me or under my supervision and direction, and that data and facts stated herein are true, correct, and complete to the best of my knowledge.

Albert Service
(Printed Name)

Albert Service
(Signature)

(512) 368-2101 (Area Code/Telephone Number) 1-2-91 (Date)

Return to:

Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 998B
Revised 12/90

RAILROAD COMMISSION OF TEXAS
LIQUEFIED PETROLEUM GAS DIVISION
NOTICE OF INSURANCE CANCELLATION

Notice is hereby given to the Railroad Commission of Texas, LP-Gas Division, of the cancellation of a policy of insurance, described as follows:

Insured: All Service Propane

Address of Insured: 4201 Bell Road
(Street or box)

Harris (City) Texas (State) 78735 (Zip code)

Reason for Cancellation: non-payment

Type of Insurance: Worker's Compensation

Current Policy Number ECT 256780, Effective Date January 1, 1990

Date and Hour of Cancellation: January 1, 1991 ; 12:01 a.m.

Name of Insurance Company: Charter Insurance Company

Address of Insurance Company: P.O. Box 234
(Street or box)

Dallas (City) Texas (State) 76101 (Zip code)

(214) 234-5678
(Area Code/Telephone Number)

Charter Insurance Company
(Name of insurance company)

Alex Smith, Underwriter
(Printed name of Representative)

Alex Smith
(Signature of Authorized Insurance Company's Representative's)*

(214) 234-5678 (Area Code/Telephone Number) November 10, 1990 (Date)

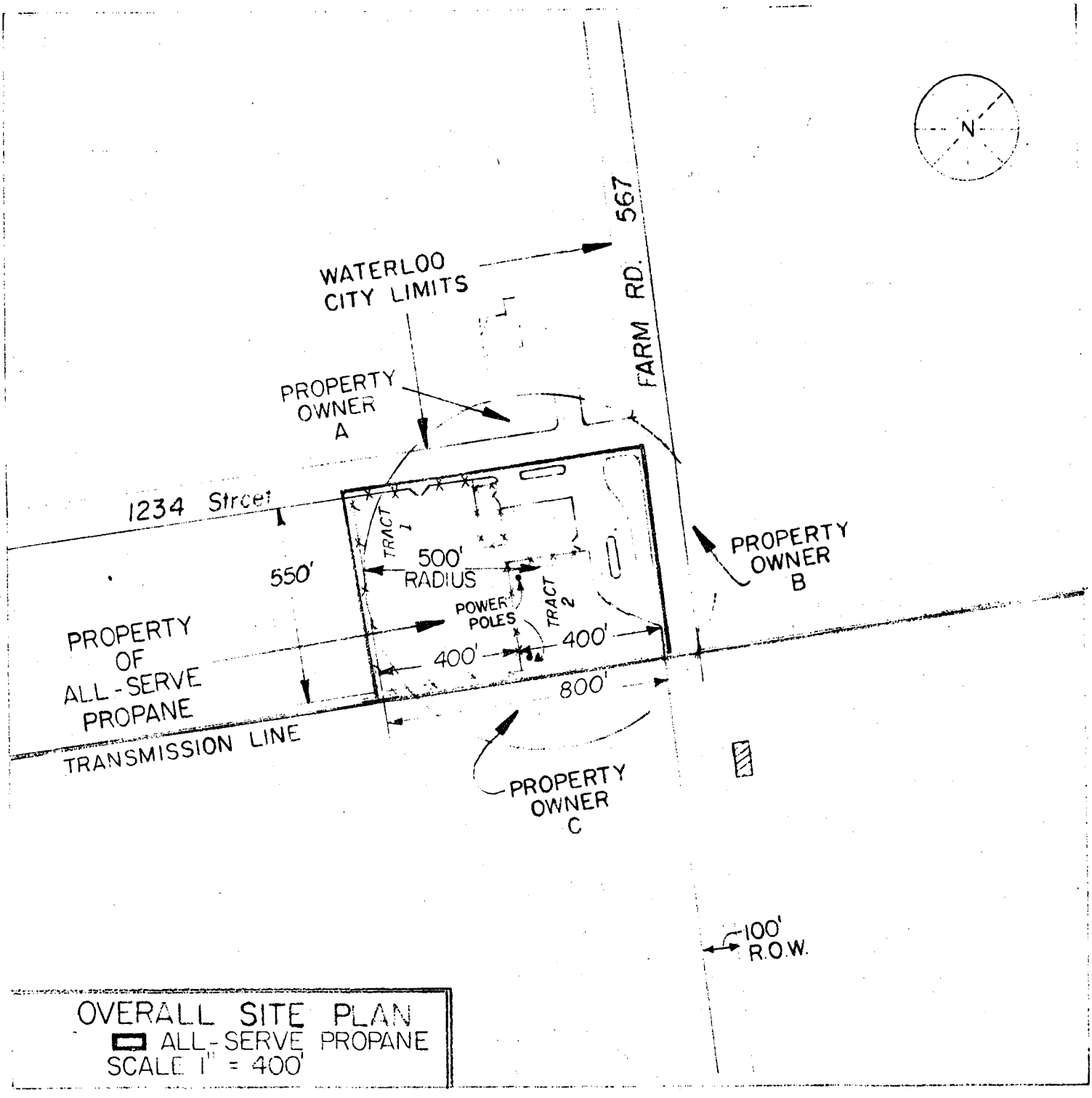
* Restricted to those names authorized by the insurance company. Only the authorized signature previously filed with the LP-Gas Division will be accepted.

Return to:

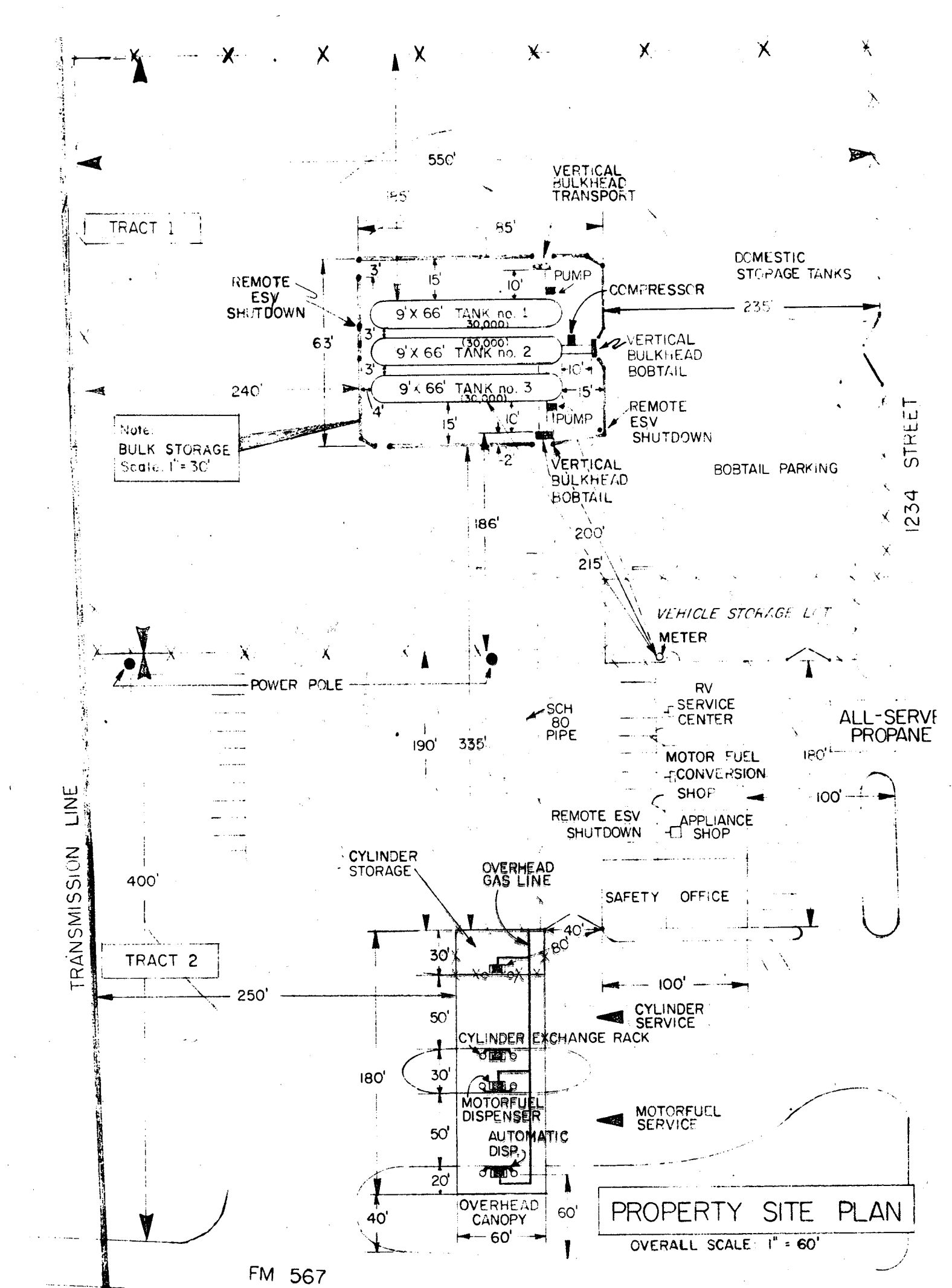
Railroad Commission of Texas
LP-Gas Division
P. O. Box 12967
Austin, Texas 78711-2967

LPG FORM 999
Revised 12/90

Typical Drawings of LP-Gas Installations



OVERALL SITE PLAN
ALL-SERVE PROPANE
SCALE 1" = 400'


550'
VERTICAL BULKHEAD TRANSPORT
TRACT 1
85'
DOMESTIC STORAGE TANKS
REMOTE ESV SHUTDOWN
PUMP
COMPRESSOR
9'X 66' TANK no. 1 30,000
9'X 66' TANK no. 2 (30,000)
9'X 66' TANK no. 3 (30,000)
235'
VERTICAL BULKHEAD BOBTAIL
63'
240'
REMOTE ESV SHUTDOWN
Note: BULK STORAGE Scale: 1" = 30'
VERTICAL BULKHEAD BOBTAIL
BOBTAIL PARKING
1234 STREET
186'
200'
215'
VEHICLE STORAGE LOT
METER
POWER POLE
SCH 80 PIPE
190'
335'
RV SERVICE CENTER
ALL-SERVE PROPANE
MOTOR FUEL CONVERSION SHOP
180'
100'
REMOTE ESV SHUTDOWN
APPLIANCE SHOP
TRANSMISSION LINE
400'
CYLINDER STORAGE
OVERHEAD GAS LINE
SAFETY OFFICE
40'
80'
30'
TRACT 2
250'
100'
CYLINDER SERVICE
50'
CYLINDER EXCHANGE RACK
180'
30'
MOTORFUEL DISPENSER
MOTORFUEL SERVICE
50'
AUTOMATIC DISP.
20'
OVERHEAD CANOPY
40'
60'
60'
PROPERTY SITE PLAN
OVERALL SCALE 1" = 60'
FM 567