



Department Of Fire Prevention & Electrical Safety

MATTHEW H. MEAD GOVERNOR

LANNY APPEGATE STATE FIRE MARSHAL

PLAN REVIEW INFORMATION TO INSTALL LPG ABOVE GROUND TANKS

Liquid Petroleum Gas - To install a single container over 2,000 gallons water capacity or an aggregate of containers over 4,000 gallons water capacity above ground as specified in the International Fire Code section 3801.3.

LIQUEFIED PETROLEUM GAS (Quantity)

(Check one) Retail (attended) Non - Retail (cardlock) Bulk Plant Farm or Construction Site Commercial, Industrial, Governmental or Manufacturing (fuel vehicles with your business)

Located on Premises Known as: Phone Site Address (Street/Road): Nearest Cross Street or Road:

** ALL APPROVALS, IF REQUIRED LOCALLY, MUST BE SIGNED OFF BELOW. ** APPROVALS

SIGNATURE OF ZONING OFFICIAL

MAILING ADDRESS

CITY/COUNTY STATE ZIP

SIGNATURE OF LOCAL FIRE CHIEF

MAILING ADDRESS

CITY STATE ZIP

APPLICANT INFORMATION

INSTALLER TEL. PH.

ADDRESS

CITY STATE ZIP

APPLICANT/OWNER TEL PH

ADDRESS

CITY STATE ZIP

SIGNATURE OF APPLICANT DATE

NOTE: IT IS THE RESPONSIBILITY OF THE APPLICANT TO ENSURE THAT THIS INSTALLATION SHALL BE IN FULL COMPLIANCE WITH APPLICABLE STATUTES OF THE STATE OF WYOMING AND ANY LOCAL CODES AND ORDINANCES.

FOUR SETS OF PLANS SHALL ACCOMPANY THIS APPLICATION WHICH SHALL INCLUDE A PLOT PLAN SHOWING THE LOCATION OF BUILDINGS, STRUCTURES, TANKS, DIKING, VALVES, PIPING, TANK AND DIKE CAPACITIES, DETAILS OF DESIGN AND CONSTRUCTION, AND FIRE PROTECTION. PLANS SHALL INDICATE THE METHOD OF STORAGE, QUANTITIES, DISTANCES FROM BUILDINGS AND PROPERTY LINES, ACCESS WAYS, AND PROVISIONS FOR SPILL CONTROL, DRAINAGE, AND SECONDARY CONTAINMENT.

LPG Installations shall be in accordance with the Adopted Edition of the International Fire Code, NFPA 58, and other Standards such as The American Standard for the Testing of Materials, A.S.M.E, etc.

- 1. Four sets of construction plans showing the site plan, adjacent roads, buildings, other tanks, etc. shall be submitted for review and approval to the Department for installations over 2,000 gals water capacity in single containers and 4,000 gals water capacity in multiple container installations. LPG containers must be built to American Society of Mechanical Engineers standards or a comparable standard, bare the label for such and be in good repair or re-certified by an accredited agency.**
- 2. LP containers, piping or equipment shall not be located in a pit, under floor space, or basement per IFC 3803.2.1.1 excepting approved mounded containers outside.**
- 3. The maximum amount of LPG may also be limited within Corporate City/Town limits by local ordinance per IFC 3804.2. Applicants are responsible for investigating and complying with local ordinances.**
- 4. Container locations with respect to buildings, property lines and other containers shall be in accordance with IFC table 3804.3. Multiple container installations shall be in accordance with IFC 3804.4. SEE ATTACHMENT A**
- 5. Only approved equipment shall be used for storage, use, and handling of LPG. Plans submittals shall include an illustration from a catalogue of the valve or device with a listing or approval seal attached.**
- 6. LPG containers shall not be filled in excess of their volume indicated by weight or a manufacturers gauge per IFC 3806.2 and NFPA 58. Pressure relief devices shall be provided. All piping and hoses shall be suitable for the pressures it is subject to per NFPA 58.**
- 7. Smoking within 15ft. of the point of transfer shall be prohibited and no smoking signs shall be posted. All other placarding required by NFPA 58 shall be provided.**
- 8. LPG containers, equipment, and piping shall be protected from vehicular damage per IFC 3807.4 and IFC 312.**
- 9. Fire Extinguishers in accordance with NFPA 58 and section 906 of the IFC shall be provided and maintained.**
- 10. Security for containers, equipment, and piping shall be provided per IFC 3809.13 and NFPA 58. Ex. 6 ft. high industrial fencing with 2 access points or a locking system for appurtenances.**
- 11. Electrical installations shall be in accordance with the adopted edition of the National Electrical Code.**

ATTACHMENT A

**TABLE 3804.3
LOCATION OF LP-GAS CONTAINERS**

CONTAINER CAPACITY (water gallons)	MINIMUM SEPARATION BETWEEN CONTAINERS AND BUILDINGS, PUBLIC WAYS OR LOT LINES OF ADJOINING PROPERTY THAT CAN BE BUILT UPON		MINIMUM SEPARATION BETWEEN CONTAINERS (Note b,c) (feet)
	Mounded or Underground Containers (Note a) (feet)	Above-ground Containers (Note b) (feet)	
Less than 125 (Note c.d)	10	5 (Note e)	None
125 to 250	10	10	None
251 to 500	10	10	3
501 to 2,000	10	25 (note e,f)	3
2,001 to 30,000	50	50	5
30,001 to 70,00	50	75	(0.25) of sum of diameters of adjacent containers
70,001 to 90,000	50	100	
90,001 to 120,000	50	125	

For SI: 1 foot = 304.8 mm, 1 gallon = 3.875 L

Notes:

- a. Minimum distance for underground containers shall be measured from the pressure relief device and the filling or liquid-level gauge vent connection at the container, except that all parts of an underground container shall be 10 feet or more from a building or lot line of adjoining property which can be built upon.
- b. For other than installations in which the overhanging structure is 50 feet or more above the relief-valve discharge outlet. In applying the distance between buildings and ASME containers with a water capacity of 125 gallons or more, a minimum of 50 percent of this horizontal distance shall also apply to all portions of the building which project more than 5 feet from the building wall and which are higher than the relief valve discharge outlet. This horizontal distance shall be measured from a point determined by projecting the outside edge of such overhanging structure vertically downward to grade or other level upon which the container is installed. Distances to the building wall shall not be less than those prescribed in this table.
- c. When underground multi-container installations are comprised of individual containers having a water capacity of 125 gallons or more, such containers shall be installed so as to provide access at their ends or sides to facilitate working with cranes or hoists.
- d. At a consumer site, if the aggregate water capacity of a multi-container installation, comprised of individual containers having a water capacity of less than 125 gallons, is 500 gallons or more, the minimum distance shall comply with the appropriate portion of Table 3804.3, applying the aggregate capacity rather than the capacity per container. If more than one such installation is made, each installation shall be separated from other installations by at least 25 feet. Minimum distances between containers need not be applied.
- e. The following shall apply to above-ground containers installed alongside buildings:
 1. Containers of less than a 125-gallone water capacity are allowed next to the building they serve when in compliance with items, 2, 3, and 5.
 2. Department of Transportation (DOTn) specification containers shall be located and installed so that the discharge from the container pressure relief device is at least 3 feet horizontally from building openings below the level of such discharge and shall not be beneath buildings unless the space is well ventilated to the outside and is not enclosed form more than 50 percent of its perimeter. The discharge from container pressure relief devices shall not be located not less than 5 feet from exterior sources of ignition, openings into direct-vent (sealed combustion system) appliances, or mechanical ventilation air intakes.
 3. ASME containers of less than a 125-gallon water capacity shall be located and installed such that the discharge from pressure relief devices shall not terminate in or beneath buildings and shall be located at least 5 feet horizontally from building openings below the level of such discharge and not less than 5 feet from exterior sources of ignition, openings into direct vent (sealed combustion system) appliances, or mechanical ventilation air intakes.
 4. The filling connection and the vent from liquid-level gauges on either DOTn or ASME containers filled at the point of installation shall not be less than 10 feet from exterior sources of ignition, openings into direct vent (sealed combustion system) appliances or mechanical ventilation air intakes.
- f. This distance is allowed to be reduced to not less than 10 feet for a single container of 1,200-gallon water capacity or less, provided such container is at least 25 feet from other LP-gas containers of more than 125-gallon water capacity.

PROJECT VALUATION AND PLAN REVIEW FEES

The construction costs for your project shall be based upon the following definition:

VALUATION: of a project shall be estimated cost to replace the project or structure in kind, based on current replacement costs.

TOTAL VALUATION	FEE
\$1.00 to \$500.00	\$16.03
\$501.00 to \$2,000.00	\$16.03 for the first \$500.00 plus \$2.08 for each additional \$100.00, or fraction thereof, and including \$2,000.00
\$2001.00 to \$25,000.00	\$47.22 for the first \$2,000.00 plus \$9.55 for each additional \$1,000.00, or fraction thereof, to and including \$25,000.00
\$25,001.00 to \$50,000.00	\$267.12 for the first \$25,000.00 plus \$6.90 for each additional \$1,000.00, or fraction thereof, to and including \$50,000.00
\$50,001.00 to \$100,000.00	\$438.95 for the first \$50,000.00 plus \$4.78 for each additional \$1,000.00, or fraction thereof, to and including \$100,000.00
\$100,001.00 to \$500,000.00	\$677.60 for the first \$100,000.00 plus \$3.82 for each additional \$1,000.00, or fraction thereof, to and including \$500,000.00
\$500,001.00 to \$1,000,000.00	\$2,204.94 for the first \$500,000.00 plus \$3.25 for each additional \$1,000.00, or fraction thereof, to and including \$1,000,000.00
\$1,000,001.00 and up	\$3,824.33 for the first \$1,000,000.00 plus \$2.49 for each additional \$1,000.00, or fraction thereof

Other Inspections and Fees:

1. Inspections outside of normal business hours ... \$49.31 per hour
(Minimum charge - two hours)
2. Reinspection fees assessed under provisions of Section 108.8 of the 1997 Uniform Building Code\$49.31 per hour*
3. Inspections for which no fee is specifically indicated \$49.31 per hour*
(Minimum charge -- one-half hour)
4. Additional plan review required by changes, additions or revisions to plans\$49.31 per hour*
(Minimum charge -- one-half hour)
5. Outside consultants for plan checking and inspections, or bothActual costs**

*Or the total hourly cost to the jurisdiction, whichever is the greatest. This cost shall include supervision, overhead, equipment, hourly wages and fringe benefits of the employees involved.

**Actual costs include administrative and overhead costs.

FOUR SETS OF PLANS shall accompany this application. The plans shall include a site plan, drawn to scale, showing the location of property lines, the proposed tank location, any buildings/structures, any existing tanks, vehicle access, power lines and other utilities, on-site fire protection (hydrants) and vehicle impact protection for the tanks.

The plans shall also indicate the type of tank (manufacturer's information sheets), location of dispensers, location and classification of electrical equipment, emergency fuel shutdown devices. The Plan Review Information Sheet (first page of this packet) shall be completed and returned with the plans along with the appropriate plan review fee.

SEND COMPLETED FORM, FEES, AND EQUIPMENT CUT SHEETS
SHOWING
UL LISTINGS AND PLANS TO:

DEPARTMENT OF FIRE PREVENTION AND ELECTRICAL SAFETY
2500 ACADEMY COURT, RIVERTON, WY. 82501