



## FIRE PREVENTION: PERMIT GUIDE

### Liquefied Petroleum Gas: LP-gas

This guide is to assist in the permitting process for a temporary permit or an annual renewable operational permit for the storage or use of Liquefied Petroleum Gas – LP-gas. Typical LP-gas is a blend of propane, propylene, butane, isobutene, or butylene. An annually renewable operational permit is required per section 105.6.27 of the IFC. A temporary permit is required when LP-gas is used on a temporary basis such as for an outdoor event.

#### **PERMIT TYPES:**

##### **A. TEMPORARY PERMIT; LP-gas storage and use for a temporary event**

- **Permit Threshold:** An LP-gas Permit **is required for any amount** used in an Assembly occupancy (Use Group A). Note that use of LP-gas for demonstrations indoors is limited to a 12-pound water capacity container.
- **Permit Duration:** Duration for temporary permit is 0-180 days.

##### **B. ANNUAL RENEWABLE PERMIT; LP-gas permanent storage and use**

- **Permit Threshold:** A LP-gas permit is required for all storage/use of LP-gas **in excess of 30 gallons** aggregate water capacity.
- Maximum LP-gas Storage size.
  - within a building with access to the public is 200lbs/24 gallons water capacity
  - within a building with no access to public is 735lbs/88 gallons water capacity
- **Permit Duration:** Annual Renewable Permits are valid for one (1) year from the date issued and need to be renewed annually. Changes to the originally permitted quantities or storage arrangements must be recorded by submitting for a revision.

**EXCEPTION TO RENEWABLE PERMIT:** Individual containers of 500-gallon water capacity or less serving single family homes (Use Group R-3) do not require an annual renewable permit. A permit is only required for the initial installation.

**ADDITIONAL PERMITS MAY BE NEEDED:** When LP-gas is being dispensed into a vehicle tank such as motor fuel; a **Motor Fuel Dispensing Permit** must be obtained.

#### **APPLICABLE CODES:**

The following codes and standard apply to this permit.

- *International Fire Code*, 2018 edition (IFC)
- *Clark County Fire Code Amendments*, 2018 edition (CCFC)
- *Liquefied Petroleum Gas Code*, 2017 Edition NFPA 58

**Link to CCFC:** See the amendments to codes using the link below:

[https://cms8.revize.com/revize/clarknv/Building%20%20Fire%20Prevention/Codes/ClarkCounty\\_FireCodeAmendments2018.pdf?t=1598331770575&t=1598331770575](https://cms8.revize.com/revize/clarknv/Building%20%20Fire%20Prevention/Codes/ClarkCounty_FireCodeAmendments2018.pdf?t=1598331770575&t=1598331770575)

## **SUBMITTAL REQUIREMENT CHECKLIST:**

**The listed requirements in this guide are not intended to be all inclusive, nor do they entail a limit to the extent of the information, etc., which may be necessary to properly evaluate the submitted plans and documents. Not all items may apply to your project.**

**Construction Documents: Provide all applicable information that pertains to your permit.**

1. Project name, address, and Assessor's Parcel Number (APN).
2. Contractor's/Owner's contact information.
3. Provide **Site Plan** of the building showing the following locations. Refer to separation distances in charts provided in IFC Table 6104.3/6109.12 and provide the storage tank(s) locations and **distances to the following items on your property that apply:**
  - Dimensions to nearest buildings or nearest habitable structure
  - Distance between storage tanks
  - Distance to doorways or openings
  - Clearances to combustibles (minimum 10 feet)
  - Distance to property lines to any properties occupied to public gatherings or busy thoroughfares such as schools, hospitals, or athletic fields
  - Distances to LP-gas dispensing station or motor vehicle fuel dispenser
  - Provide the location of required "No Smoking" signs when there is a point of transfer within 25ft.
  - Indicate the fire extinguisher location and type:
    - Minimum capacity of dry chemical rated 2A-60BC / 10lbs for up to 720 lbs. of LP-gas.
    - For storage of greater than 720 lbs. must provide fire extinguisher rated 10A:80BC / 20 lbs. dry chemical capacity located within 50 ft.

Provide information on Storage Tank(s):

- State the total storage of LP-gas in gallons
- Include quantity, make, model, and size of the tank
- Provide a copy of manufacturer's specification sheets for tank.
- Indicate the tank storage method; rack or cabinet, and method of vehicle impact protection.
- Indicate whether tank is indoors or outdoors and whether it is above grade or buried.
- Show the corrosion protection coating and cathodic protection and anode maintenance schedule for the underground tanks.
- Show that pressure relief devices are provided.
- See Appendix A for additional information on tank sizes

## **HOW TO SUBMIT:**

Plans are to be submitted electronically. Paper plans are no longer accepted. Consolidate your files and uploaded via the Clark County Citizen Access Portal:

<https://citizenaccess.clarkcountynv.gov/CitizenAccess/Default.aspx>

**COMMUNICATION:**

Once your plans are submitted you will receive a permit number (example= FP20-00000). Plan status can be viewed by logging into your account in the Citizen Access Portal and typing in your permit number. <https://citizenaccess.clarkcountynv.gov/CitizenAccess/Default.aspx>

**CONTACT PERSON ON APPLICATION:** Ensure the correct contact person is provided on the application as this will be the correspondent who receives all the email updates on the permit status once plan is submitted.

**ADDITIONAL INFORMATION NEEDED:** If you receive this request Fire Annual/Operational In-take has reviewed your submittal and there is additional action needed for the plan to be placed back in the Review Queue.

**PLANS APPROVED:** Once plans are approved, and fees are verified; an email will be sent to the contact person. In order for inspections to be scheduled any outstanding **fees** will need to be paid.

**PLANS- CORRECTIONS REQUESTED:** Once corrections are issued an email will be sent to the contact person indicating the additional changes needed for an approval. Customer will log in to Citizen Access Portal and download Redlined plans for comment.

**FIRE PLAN REVIEW STAFF CONTACT LINK:**

[https://files.clarkcountynv.gov/clarknv/Building%20&%20Fire%20Prevention/Phone/WEBSITE%20PHONE%20LIST Fire%20Prevention.pdf?t=1616562454375&t=1616562454375](https://files.clarkcountynv.gov/clarknv/Building%20&%20Fire%20Prevention/Phone/WEBSITE%20PHONE%20LIST%20Fire%20Prevention.pdf?t=1616562454375&t=1616562454375)

**RE-SUBMITTALS, REVISIONS AND RENEWAL:**

**CORRECTIONS:** Corrections will be submitted using the Citizen Access Portal. A letter describing the changes shall be provided with your revised submittal. **Please Note:** The Redlined plans are already in the file and do not need to be uploaded again.

**REVISIONS:** If plans are revised after approval; revisions will need to be submitted and approved prior to **FINAL** sign off. Revisions will be submitted the same way as the original (See Ways to Submit above). All changes should be **clouded and keyed** to Plan Revision# (FP20-00000-R001). A Revision Letter shall also be provided indicating what changes were made and where they occur.

**RENEWAL:** After approval of your initial permit; the permit will be set up on an automatic reminder. Approximately 30-60days prior to the expiration of your permit, a renewal notice will be emailed to you with instructions for the renewal.

**SUBMITTAL SERVICE LEVEL OPTIONS/FEE SCHEDULE:**

[https://www.clarkcountynv.gov/government/departments/building\\_fire\\_prevention/permit\\_issuance/fees.php](https://www.clarkcountynv.gov/government/departments/building_fire_prevention/permit_issuance/fees.php)

**INSPECTION OPTIONS/INSPECTION SCHEDULING:**

Use the following link for scheduling permits for construction.

[https://www.clarkcountynv.gov/government/departments/building\\_fire\\_prevention/inspection/schedule\\_an\\_inspection.php](https://www.clarkcountynv.gov/government/departments/building_fire_prevention/inspection/schedule_an_inspection.php)

Annual Renewable Permits will be tentatively scheduled upon approval by Fire Prevention Plans Check and payment of all fees. A Clark County Fire Prevention Inspector will contact you.

### APPENDIX A GLOSSARY

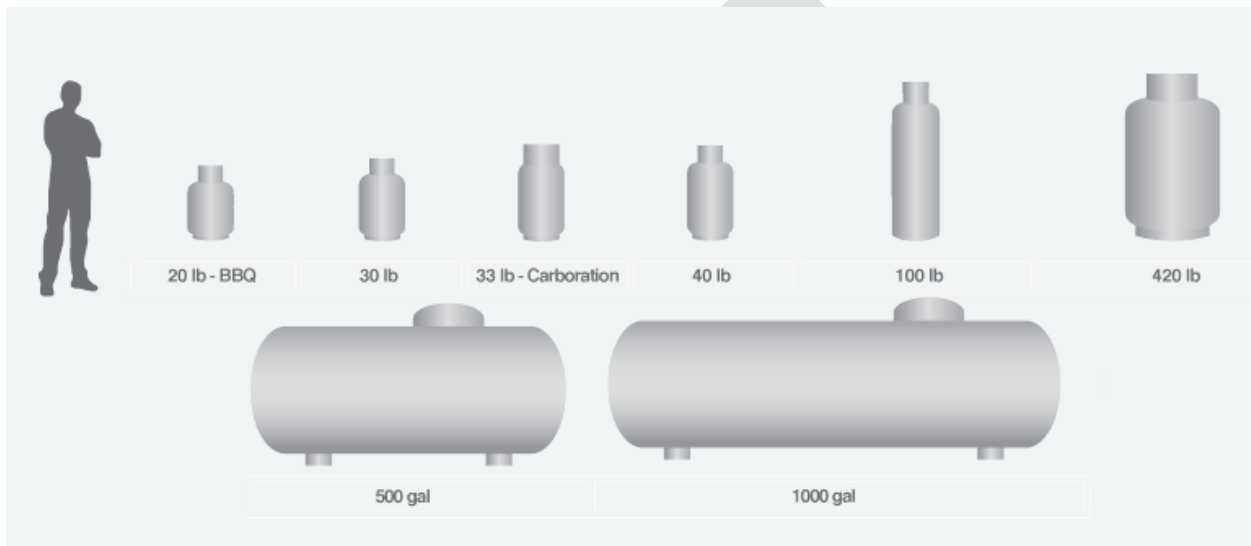
Propane tanks are typically referred to by their weight or how many pounds they weight when full.

LPG STORAGE: LPG Cylinders are designed to be filled to approximately 80% capacity. The 20% vapor space allows for the expansion of the product due to heat.

LPG TANK STORAGE: GENERAL LPG TANK SIZE DESCRIPTIONS:



1 LB



PROPANE TANK DESCRIPTION							
TANK SIZE IN LBS.	TANKS SIZE IN GALLONS	TANK DIA.	PORTABLE	EXCHANGEABLE	ABOVE GROUND	BELOW GROUND	DESCRIPTION
1	0.236	4"X 4"X 8"	Y	Y	Y	N	SMALL CAMPING APPLIANCES
20	5	1'-6" TALL X 1'-0" DIA	Y	Y	Y	N	PROPANE GRILLS, GENERATORS, PATIO HEATERS
33	8	2'-0" TALL X 1'-0" DIA	Y	Y	Y	N	FORKLIFT
100	25	4'-0" TALL X 1'-6" DIA	Y	Y	Y	N	RESIDENTIAL APPLIANCES FOR RV
420	100	4'-0" TALL X 3'-0" DIA	Y	Y	Y	N	HOME HEATING, DRYERS, FIREPLACES, POOL HEAT, WATER HEATER
N/A	500	5'-0" TALL X 10'-0" LONG HOLDS 400 GALLONS @80%	Y	Y	Y	Y	SMALL HOMES 2500-4500SQ.FT
N/A	1,000	5'-0" TALL X 16'-0" LONG HOLDS 800 GALLONS @80%	Y	Y	Y	Y	COMMERCIAL APPLAINCES, HEATING, TRANSPORT RE-FUELING