



Clark County Fire Department

FIRE PREVENTION BUREAU

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PERMIT GUIDE

FLAMMABLE/COMBUSTIBLE LIQUIDS

This guide is to assist in the process of obtaining an annual renewable operational permit Flammable/Combustible (F/C) liquid operations, storage, or use. A permit is required per sections 105.6.16 and 105.7.9 of the IFC for continued operation and construction respectively. These are for:

- Operation of a pipeline within a facility.
- Operation of F/C equipment, i.e. tanks, plants, fuel stations, distilleries, refineries.
- Storage and Use.

A permit is required for storage of F/C liquids when the amount in storage exceeds the following:

- Flammable Liquid (flashpoint < 100 °F): 5 gallons indoors / 10 gallons outdoors
- Combustible Liquid (flashpoint > 100 °F): 25 gallons indoors / 60 gallons outdoors

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)
- *Flammable and Combustible Liquids Code*, 2018 edition NFPA 30

Link to CCFC: See the amendments to codes and standards using the link below:

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: The submittal shall include all information per CCFC section 5001.5.2.

Provide all applicable information that pertains to your permit.

1. Project name, address, and APN (Assessor's Parcel Number).
2. Contractor's/Owner's contact information.
3. Hazardous Materials Inventory Statement (HMIS) or /MSDS for all liquids. Ensure the quantities, types of F/C liquids and their flashpoints are provided.

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4. Overall Site Plan showing the location of the operation or tanks on the property, distance between storage tank(s), nearest habitable structure, property line, and public ways.
5. List of vessels, piping, valves and equipment that will use, store, process, or transport F/C liquids. Note which engineering design criteria has been used for vessels, piping, valves or equipment design (i.e. UL 143, API 650, ASME B31.3, etc.)
6. Diagram of the location, size, and height above grade of the normal tank vents.
7. List or diagram of bonding/grounding devices.
8. Manufactures' data of information sheets proving appropriate UL listing of tanks, piping, and valves. Example: data sheets proving that the equipment is listed for petroleum fuels with alcohol additives.
9. Diagram of the method, location and volume of secondary containment as required when Maximum Allowable Quantity (MAQ) is exceeded.
10. A diagram of the type and location of vehicle impact protection.
11. Buoyancy calculations for underground storage tanks proving gravity force exceeding buoyant force by a safety margin of 20%.

NOTE:

When F/C liquids are being dispensed into motor vehicle tanks from a remote pump, an additional separate Motor Fuel Dispensing Permit must be obtained.

Flammable fuels (Class I; such as gasoline) must be stored in tank listed per the *Standard for Safety UL-2085*.

Combustible Fuels (Class II; such as diesel) must be stored in a tank listed per the *Standard for Safety UL-142*.

PERMIT DURATION:

Flammable/Combustible Liquid Storage are Operational Permits and are limited to a duration of 1 year and shall be renewed annually. If any changes are made to the storage arrangement; revisions will need to be submitted.