



## CLARK COUNTY FIRE DEPARTMENT - FIRE PREVENTION BUREAU

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### Permit Submittal Guideline

## **FLAMMABLE AND 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 105.5.18 and 105.6.9 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:

- Class I Liquid: 5 gallons indoors / 10 gallons outdoors
- Class II or IIIA: 25 gallons indoors / 60 gallons outdoors
- Class IIIB: Stored / Used in tanks of 60 gallons or more, or where exceeding the MAQ

### **APPLICABLE CODES:**

The following codes and standard apply to this permit.

- *International Fire Code*, 2024 edition (IFC)
- *Clark County Fire Code Amendments*, 2024 edition (CCFC)
- *Flammable and Combustible Liquids Code*, 2024 edition NFPA 30

### **SUBMITTAL REQUIREMENT CHECKLIST:**

**The requirements listed 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 IFC 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). Ensure the quantities, types of F/C liquids and their flashpoints are provided.
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. Provide details if the building has fire sprinklers, or if the F/C liquids are stored in flammable cabinets.
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. (shall be a minimum of 12'-0" above ground or finished floor.)
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 a double wall tank listed per the *Standard for Safety UL-2085*.

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

Use this information to classify the flammable combustible liquids on your HMIS (based on information from your SDS):

Class IA - flash point below 73 degrees and a boiling point below 100 degrees.

Class IB - flash point below 73 degrees and a boiling point above 100 degrees.

Class IC - flash point equal to 73 degrees and less than 100 degrees and N/A on the boiling point.

Class II - flash point of 100 degrees or more and less than 140 degrees and N/A on the boiling point.

Class IIIA - flash point of 140 degrees or more and less than 200 degrees and N/A on the boiling point.

Class IIIB - Flash point of 200 degrees or more and N/A on the boiling point.

**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 submittal.