



LAS VEGAS FIRE & RESCUE

Fire Prevention Division Information Sheet



Effective Date: February 4th 2019

CLV Ordinance #6631

The items listed are basic information only. Please refer to adopted code for specific details. Codes are subject to change. Additional requirements may apply.

Use of Flame Effects before an Audience

This information sheet provides the basic requirements for the use of flame effects before an audience that is inside or outside. **IFC, 2018 edition, NFPA 160, 2016 edition, and NFPA 1126, 2016 edition.**

Required Permits:

An operational permit is required for the use and handling of pyrotechnic material, open flames effects in accordance with **IFC 105.6.40, NFPA 160 and NFPA 1126**. Any changes to submitted permit including quantities, sizes, locations, technicians on site, will void the permit unless prior written approval is granted by the *Fire Code Official*.

Flame effects definitions:

The combustion of flammable solids, liquids, or gases to produce thermal, physical, visual, or audible phenomena before an audience.

- *Automatic Flame Effect* - A flame effect that is supervised and fired by an automatic control system.
- *Manual Flame Effect* - A flame effect that is operated manually **without** the use of an automatic control system.
- *Portable Flame Effect* - Flame effects that are designed and installed, either in a permanent or temporary installation, that are designed to move or be moved, in the course of the operation or installation.

Flame Effect flame Requirements:

The plan for the use of flame effects shall be submitted in writing or other form acceptable to the authority having jurisdiction within (5) working days (7) calendar days prior to the event. If less than days allotted, an expedite fee shall be processed.

The plan shall include the following:

1. The name of the person, group, or organization responsible for the product.
2. The dates and times of production.
3. The location of the production.
4. The criteria in **annex B, NFPA 160**.
5. The flame effect classification.
6. A site plan showing the following:

- a) A narrative description of the flame effect
- b) The location of the flame effect devices to be fired and their controls and control sequence.
- c) The area affected by the flame effect device.
- d) The location of the audience.
- e) The fuels used and their estimated consumption.
- f) Air for combustion and ventilation for indoor effects.
- g) Flammable materials piping.
- h) Storage and holding areas and their capacities.
- i) Supplemental fire protection features.
- j) Emergency response procedures.
- k) Means of egress.

1. A current MSDS for the materials (fuels) consumed in the flame effect.
2. Documentation that the combustible materials used for construction of the flame effects have been rendered flame retardant.
3. The Name of the effects operator.

Insurance Requirements

- \$1 Million per occurrence General Liability
- \$5 Million Aggregate with waiver of Subrogation
- \$1 Million Employers Liability with waiver of Subrogation

Licenses Requirements

- Copy of valid Nevada State Fire Marshal Technician Certification / Registration

Storage Requirements

- Storage must be in an approved manner consistent with the product/fuel being stored. Storage / work areas must be posted "NO SMOKING". No combustible storage, open flame or smoking within 50 feet of storage or work area.

Prior Testing requirements

- A test or demo shot shall be witnessed by LVFR Fire Prevention staff unless determined not to be required.
- A minimum of (2) two 2-A; 10B/C rated fire extinguishers shall be present during test and production.

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<https://www.lasvegasnevada.gov/Government/Departments/Fire-Rescue>