

CITY OF HENDERSON  
BUILDING AND FIRE SAFETY  
FIRE SAFETY DIVISION  
UNIFORM GUIDELINES

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**Effective Date:** October 1, 2007

**HFSD #** 006

**Supersedes:** All Others

**Updated:** January 17, 2008

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**TITLE:** **INDOOR PYROTECHNIC DISPLAYS**

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**PURPOSE:**

To standardize Fire Safety requirements by providing a uniform method of regulating indoor pyrotechnic displays. All temporary storage, use and handling of pyrotechnic materials shall be in accordance with this guideline.

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**REFERENCE:** 2006 IFC Article 33 and NFPA 1123 or NFPA 1126

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**RULES & REGULATIONS**

A licensed pyrotechnician or company must provide the following a minimum of (10) working days prior to the show / display to obtain the required permit:

1. Licensing - copy of valid Nevada State Fire Marshal company license and operator certificate of registration in accordance with the Nevada State Fire Marshal regulations.
2. Insurance - copy of valid bond or certificate of insurance. Minimum coverage for property damage & bodily injury arising from commercial display of fireworks is \$5,000,000.00. Coverage to include the City of Henderson as additional insured.
3. Production schedule - detailed description to include the following:
  - a. Property address, location, i.e., showroom, convention center, date(s), time(s) and demonstration date/time.
  - b. List of effects, brief description, i.e., flame projector -emits vertical flame from cylindrical device), size/load, number, maximum height/width of spark or flame, expected fall out/debris if any.
  - c. Note if device is pre-packaged from manufacturer or mixed on site.
  - d. Material Safety Data Sheets (MSDS) on products being used note name of effect(s) or corresponding MSDS.
  - e. Plot map of discharge area with location(s) of effect(s) and storage/work areas, ignition source and location (use separate map if necessary).

4. Storage
  - a. Storage must be in a locked approved container or magazine and be located in a secure area. Storage/work areas must be posted "NO Smoking". No combustible storage, open flame or smoking within 25 feet of storage/work areas.
    - i. If Class "B" explosives are used, compliance must be in accordance with the 2006 International Fire Code, Article 33, Division II, storage of explosives must be in an approved manner.
    - ii. If pyrotechnics are to be stored on site, they must be stored in an approved storage magazine, in accordance with the Uniform Fire Code and in a location approved by the fire department.
  - b. Note location compounds are mixed/assembled (work area), may not be conducted at or near magazine location. Location may be noted on plot map.
  - c. Note provisions for disposal of any duds.
5. Production:
  - a. Demonstration must be witnessed by this department prior to issuance of the permit. All devices may be required to be shown at demo. Consideration will be given to location of any combustibles and persons in the proximity to pyro effect. The acceptance of each device/effect is at the discretion of the fire department.
  - b. In showrooms, pyrotechnic effects will generally not be permitted in front of the proscenium opening. Any pyrotechnic permitted in other indoor areas will be evaluated with consideration of no proscenium separation. All devices from a location that affords a clear field of vision of effect and surrounding area.
  - c. A minimum of two (2) 2-A;10-B:C rated fire extinguishers must be manned on stage during demo and performance.
  - d. Any propane or natural gas effects are required to be inspected by the mechanical division of the Building Department. Storage of any extra flammable gas cylinders must be stored outside the building in an approved and secured site.
  - e. Any long-running show will be initially permitted for a 90-day trial period or longer, due to special circumstances. Permits may be renewed on an annual basis thereafter. (Permit cannot extend past expiration date of insurance). These shows will require a minimum of two (2) licensed pyrotechnics by the end of the 90-day trial period.
  - f. Permit shall state: "Any change, by addition of effects, increase of loads or pyrotechnician(s) listed on permit, voids this permit unless prior written approval is granted by this Division."

### **LASER DISPLAYS**

A laser safety officer must submit the following a minimum of ten (10) working days prior to the display to obtain a permit:

1. Name, address, and telephone number of laser safety officer(s), operator(s), and company.

2. Name, address, telephone number, facility, and name of responsible property representative where laser show will occur.
  3. Date and time of set up and tear down.
  4. Date and time of rehearsal.
  5. Date(s) and time of show(s).
  6. Length of time laser will be in operation for each show.
  7. Types of laser show (brief description).
  8. Class of laser and name of manufacturer.
  9. Indicate type and method of smoke to be used. Include MSDS (Material Safety Data Sheets).
  10. Submit copy of valid bond or certificate of insurance. Minimum coverage for property damage and/or bodily injury arising from commercial laser show is \$5,000,000.00. Coverage to include the County or the City (whichever is applicable) as additional insured.
  11. Laser safety officer of outdoor show(s) is to confirm time and date that the following were advised as required:
    - a. Local Law Enforcement Agency
    - b. Local Fire Department Dispatch
  12. Portable fire extinguisher(s) protection must be provided as determined by the Fire Safety Division.
  13. Any long running show will be initially permitted for a 90-day trial period. Permits may then be renewed on an annual basis thereafter. (Permit cannot extend past expiration date of insurance). These shows will require a minimum of two (2) laser operator(s)/safety officer(s) listed on the permit by end of 90-day trial period.
  14. Permit to state: "Any change, by addition of effects or change in operation, voids this permit unless prior written approval is granted by this Division."
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