

CITY OF HENDERSON FIRE SAFETY GUIDELINE

Effective Date: February 4, 2019

HFS # 002

Supersedes: All Others

Updated: July 11, 2023

Page 1 of 5

TITLE: OUTDOOR PYROTECHNIC DISPLAYS

PURPOSE:

Temporary storage, use, and handling of pyrotechnic materials and displays shall be in accordance with this guideline.

REFERENCE: 2021 IFC Section 56 as amended and NFPA 1123, NFPA 1126, or NFPA 160

RULES & REGULATIONS:

1. The issuance of an aerial pyrotechnic permit shall not preclude the Fire Chief and the Building Official from subsequently suspending or revoking the permit, imposing additional requirements on the applicant, or supplementing any existing requirement whenever, in the opinion of the Fire Chief and Building Official, later information or newly discovered conditions justifies such action.
2. A permit shall be obtained from Building & Fire Safety prior to any set up in preparation for a pyrotechnic event.
3. The issuance of an aerial pyrotechnics permit is a discretionary action on the part of the City of Henderson and as such the City has the right to refuse to issue a permit for aerial pyrotechnics. Such refusal shall be in writing and shall contain the reasons for refusal.
4. Fireworks displays shall not exceed twelve times per calendar year at any one location.
5. Fireworks displays shall only occur on Friday and Saturday nights, with the sole exception of New Years Eve and July 4th. On New Year's Eve and July 4th, fireworks must conclude by 12:30 a.m. (including misfires). On any other occasion, fireworks must conclude by 10:30 p.m. (including misfires).
6. Notification of the fireworks display must be provided not more than 30 days and not less than ten (10) days prior to the fireworks display, to all occupancies and residences as specified in the permit. A copy of the notification plan shall be included with the permit application.
7. Fireworks displays will be cancelled or postponed when the wind velocity is in excess of 15 mph for aerial displays and when the wind velocity is in excess of 20 mph for ground displays. All advertising for the fireworks display shall contain a disclaimer advising that "The fireworks displays will be cancelled or postponed when the wind velocity is in excess of 15 mph".
8. Other fireworks displays for special events may be considered on an individual basis.
9. Notification to Henderson Fire Department Dispatch shall be made the day of the fireworks display. Notification by the permit holder shall be provided no later than four (4) hours prior to

the fireworks display by calling dispatch at 702-267-4913

10. All applications for the use of pyrotechnics must be provided at least 14 days prior to the event. If less than 14 days, approval must be determined by the *Fire Code Official* or his designee.
11. Provide a valid copy of a Nevada State Fire Marshal Pyrotechnic Company license.
12. Provide a copy of the operator's certificate of registration in accordance with the Nevada State Fire Marshal regulations.
13. A valid Certificate of insurance shall be submitted with each application to conduct aerial pyrotechnic displays.

The certificate shall be issued by an insurance company authorized to transact business in the State of Nevada or be named on the list of authorized insurers maintained by the Nevada Department of Business and Industry, Division of Insurance. The following information shall be identified.

- a. The pyrotechnic contractor shall be named as the insured. If the insurance is provided by an individual, company or partnership other than the contractor, the contractor shall be named as an additional insured.
 - b. "The City of Henderson Municipal Corporation, its officers, agents, employees and volunteers" shall be named as additional insured and certificate holder.
 - c. General liability limits, including contractual liability, in the minimum amount of \$5,000,000.
 - d. Greater liability insurance amounts may be required in certain cases as deemed necessary by the Fire Chief and Building Official.
14. A detailed schedule and description to include the following information:
- a. Property, address, date, and time of arrival of fireworks on site.
 - b. A map indicating the one-half mile radius required for notification.
 - c. Time and date fireworks are to be unloaded and stored on site. All storage must be in accordance with NFPA 1123.
 - d. Time and date of initial set-up, time and date of range inspection and demonstration.
 - e. Time and date mortars are to be loaded.
 - f. Time and date show begins
 - g. List of shells (size, type, number and maximum height and construction.)
 - h. Time show ends
 - i. Time of mortar check.
 - j. Time of fallout zone check.
 - k. Time and date of site tear-down
 - l. Time and date of final site check and clean up.

- m. Local contact name and phone number.
- n. Copy of notification letter sent to all occupancies.

15. Site Plan – Detailed plan of entire area to include the following:

- a. Indicate location of buildings, highways and other lines of communications, such as audience, trees, utility lines and other obstructions.
- b. Fallout zone – to be designed to accommodate largest shell. Fallout zone must be engineered in a safe location and cannot affect, in any manner, adjacent properties, without owner's permission.
- c. If location of devices to be fired is other than ground level or an unusual location, it must be specified on the plan (location, height, etc.)
- d. If storing give specific location and method.
- e. Description of method and construction used for securing mortars and discharge.

16. Discharge Site:

- a. Aerial display – distance from audience, buildings and parking must be a minimum of 70 feet per inch of shell diameter.
- b. Ground display – minimum distance 150 feet from all spectators.
- c. Mortars should be grouped by size, and sizes staggered to avoid loading shells in improper sized mortars. Mortar groups shall be separated.
- d. Method and location(s) of ignition devices(s) and main control board.

17. Demonstration:

A demonstration of the largest shell must be witnessed by this department prior to start of pyrotechnic display. All devices may be required to be shown during demo. The acceptance of each device is at the discretion of the Fire Safety representative witnessing the demo.

18. Notification:

The following agencies and properties must be notified of the show a minimum of 10 days with a maximum of 30 days prior to the show.

- a. McCarran International Airport control Tower.
- b. Fire Department/Police Dispatch.
- c. A notice shall be mailed to all adjacent properties within ½ mile perimeter of the fall out zone. Notice shall be mailed no less than 10 days and no more then 30 days prior to the display. The contents of the notice shall include, but are not limited to, the following:
 - 1 - The date, time and location of the pyrotechnic display.
 - 2 - Name of pyrotechnic company.
 - 3 - Where the pyrotechnic display will be conducted.

4 - How to contact the pyrotechnic company.

Upon request, the City of Henderson – Community Development will provide a mailing list for all property owners within the ½ mile buffer, a fee will be charged for this service.

Other methods of notification may be submitted with application, for consideration as being an approved alternate method. Alternate method shall be reviewed and approved for the site-specific use. Said methods will be reviewed and approved prior to issuance of permit.

19. Required Fire Department personnel/Engine standby:

An inspector from the Building and Fire Safety Division will be required at every aerial and any other pyrotechnic display as determined by the *Fire Code Official*. Should the display not be scheduled during normal Fire Safety Division's hours of operation, arrangements may be made by the permit applicant or property owner, at their expense, to have the required inspector at the display.

Determination to require additional Fire Inspectors and or apparatus will be based on evaluation of all required written information submitted and site inspection by the inspector. Due to the number of displays, available manpower, logistics and equipment, additional standby personnel and or equipment may be required at the expense of the permit applicant or property owner.

20. Security:

- a. 24 Hour security to be provided once pyrotechnics are delivered on site.
- b. Monitors must be provided by pyrotechnician, whose sole duty is to enforce crowd control around display area. Unauthorized people will not be allowed to enter discharge site until site has been inspected after display by pyrotechnician.
- c. Monitors with radios to be placed at adjacent properties with radio contact between pyro-operator, fire safety personnel and the business security. Monitors will observe whether or not debris is falling outside the specified fallout area, and report observations.

21. Fire protection to be provided at site as determined by Fire Safety Inspector upon arrival (portable fire extinguishers, fire hoses, etc).

22. Immediately prior to designated time of display pyrotechnician must provide the following:

- a. Wind speed and direction
- b. Test fire largest aerial shell and observe for drift (out of specified fallout zone.)
- c. Shows will be cancelled when:
 1. Winds are in excess of 15 mph for aerial displays
 2. Winds are in excess of 20 mph for other displays.

3. All advertising for the pyrotechnic display shall contain a disclaimer that reads, "The pyrotechnic display will be cancelled or postponed when the wind is in excess of 15 mph."
23. Immediately after display:
 - a. All monitors must report status of assigned area.
 - b. Final site check and clean up to be conducted by pyrotechnician.
 24. Permit to state:

Any change, by addition of effects, change of any devices or Pyrotechnician(s) listed on permit, voids this permit unless prior written approval is granted by the Fire Safety Division. Notice must be given 48 hours prior to event.
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