



CLARK COUNTY FIRE DEPARTMENT - FIRE PREVENTION BUREAU

4701 W Russell Rd, Las Vegas, NV 89118 • (702) 455-7316

Website: [Fire Department \(clarkcountynv.gov\)](http://Fire Department (clarkcountynv.gov))

Email: FPPCQ@clarkcountynv.gov

Permit Submittal Guideline

INDOOR PYROTECHNICS BEFORE A PROXIMATE AUDIENCE

This guide is to assist in the submittal for a permit to conduct indoor pyrotechnics using devices governed by NFPA 1126 the Standard for the *Use of Pyrotechnics Before a Proximate Audience*. A permit is required per 105.5.44 of the 2024 IFC. Outdoor, roof-top fireworks displays, and explosive material storage are covered by separate permit guides.

Please Note:

- Indoor pyrotechnic displays shall only be permitted in venues with automatic fire sprinklers throughout per CCFC to NFPA 1126 section 8.1.2.3.
- Pyrotechnic special effects shall not be permitted to be shot overhead of spectators, egress aisles or exit pathways reference CCFC amendment to NFPA 1126 section 8.2.13.
- Pyrotechnic effects will not be permitted in front of proscenium opening.

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)
- *Use of Pyrotechnics Before a Proximate Audience*, NFPA 1126, 2021 edition

SUBMITTAL REQUIREMENTS:

The 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. Reference NFPA 1126 section 6.3.2, chapter 7, chapter 8 and provide all applicable information that pertains to your permit:

1. LICENSING AND QUALIFICATIONS:

- A copy of a valid Nevada State Fire Marshal pyrotechnic company license for the type of effects to be fired
- A copy of valid Nevada State Fire Marshal license for pyrotechnic operator
- A copy of state and federal licenses held by operators or assistants (DOT, ATF, and homeland security)

PLEASE NOTE: Close proximity products may only be fired by a company holding a theatrical (indoor) license as defined by the Nevada Office of the State Fire Marshal (OSFM). A State of Nevada, OSFM certified operator may oversee another operator without a Nevada certification provided there is direct and continuous supervision.

2. INSURANCE:

- Provide a copy of a valid bond or Certificate of Insurance for the specified event.
- “Clark County, its agents, employees and volunteers” shall be named as additional insured and certificate holder.
- General liability limits, including contractual liability, in the minimum amount of \$5,000,000 per each occurrence shall be provided to conduct an indoor pyrotechnics display.
- Greater liability insurance amounts may be required in certain cases as required by the Fire Code Official.

3. PRODUCTION SCHEDULE: Provide a detailed description to include the following;

- The name of the contact person for the property/facility, telephone number, and email address.
- Contact information, qualifications, ages, and experience for the pyrotechnic operator and assistants
- Firing schedule; include the date(s) and timing of the following;
 - The target time and dates the pyrotechnic effects are to be unloaded and stored on site.
 - The time and date of initial set-up, site inspection and demonstration shots.
 - The time and date of the pyrotechnic display along with any rehearsal times and dates. If multiple display(s) and/or rehearsal(s) are needed, all date(s) and time(s) will also need to be provided.

4. PRODUCT INFORMATION:

- Complete pyrotechnic shot/queue list including the name of each device and a description of each effect
- A brief description of each effect including the size/load, number, maximum height of pyrotechnics vs ceiling height, and firing locations. (Multi-shot pre-manufactured devices are counted as one device.)
- Include “shot sheet” with the number of each type of device, maximum distance of travel, locations, construction and maximum height of trajectory.
- Provide information on device mounting, angles, device stability and material surface(non-combustible) where the displays will be located.
- Include material safety data sheets (MSDS) of the pyrotechnical material to be used. Ensure manufacturer’s statement indicating whether pyrotechnic device is intended for outdoor or indoor use.
- Clarify manner and placement of on-site storage;
 - Include the location within the building (must be in dedicated and secured area)
 - Provide type of magazine used for storage (must be Type 4)
 - Please note: When stored in a sprinklered building the maximum amount of 1.4G products allowed indoors = 50lbs.
- Flame certificates must be provided for all scenery, sets, displays, curtains, costumes, linens, carpets/stage coverings, and/or any other materials within the pyrotechnics display or fallout area.

5. PLANS: Provide a detailed plan for the event, designed to an indicated scale and saved to a .PDF file. Plans shall include the following information;

- Detailed site or facility diagram of show location, including the locations of each pyrotechnic device.
- Stage, audience locations, fallout zones with separation distances shown.

- Dimensions shall be provided from pyrotechnic effects to audience, performer or any items located on stage. Each pyrotechnic device shall be separated by a minimum of 15 feet to audience; 25 feet is needed for concussion mortars.
- Locations for safety barricades/or the means of restraint for audience members must be shown on the plans for compliance.
- Fire extinguisher locations. Additional fire extinguishers shall be provided in addition to those required by NFPA 10;
 - They shall be located as close to the discharge site as practical for operations and shall be compatible to the pyrotechnic product being used. They shall be placed so that at least (1) extinguisher is located on each opposing side of the pyrotechnic display.
 - (2) pressurized water extinguishers, each with a minimum rating of 2-A
 - (2) extinguishers, each with a minimum rating of 10-B:C, or (2) extinguishers appropriate to fuel source.
 - (1) Class D extinguisher
- **Section detail PLAN** clarifying the dimension and heights of stage, trusses, backdrops, signs, lighting, ceilings or any other items located overhead.

4. INSPECTION AND TESTING:

- The display site will be inspected for conformance with the approved site plan
- The quantity, mounting locations, materials used to secure the devices will be verified for position placement, orientation, fit, stability, and strength.
- The fallout zones are to be cleared of all spectators
- Device positioning will be inspected for stability and strength
- The operator shall coordinate and conduct a demonstration test shot of devices under the permit; the demo needs to be witnessed by inspector.
- Please Note: Any misrepresentation of permit such as unlicensed operation, incorrect products, uncooperative performer/operators may result in cancellation or revocation of permit.

PLEASE NOTE: If the performance includes the disabling of the venues Fire Alarm or Fire Suppression systems, a fire protection report (FPR) must be submitted and approved prior to the event detailing the system operations when a fire notification or suppression system is disabled for the show or event, reference NFPA 1126 section 8.1.2.1.

- System bypass shall only be performed by a licensed fire alarm contractor or owner's representative with an F-Card from the Office of the State Fire Marshal and required to be on-site until the system is fully restored.
- The individual(s) stationed in the fire command center room must be knowledgeable in all aspects of the fire protection, smoke control systems and fire alarm panels.
- These items are subject to change as required by the on-site inspector(s).

5. SHOW STOP/DELAY AND POST PERFORMANCE PROCEDURES;

- The inspector shall establish communications with pyrotechnician (shooter) responsible for each display. A direct method for signaling an order for the technician to immediately stop firing shall be established and agreed. Examples are hand signals or contact such as placing a hand on the shoulder of the shooter.
- When there are unfired pyrotechnics due to a cancellation or failed operation, the unfired product is to be packed-out under the direction of the pyrotechnician. The inspector shall

witness an agreed positive method for disabling the firing mechanism. A common way of achieving this is to have electric matches removed. The product shall be placed in its original packaging and removed following the same route to be transported to an appropriate storage location.

- The quantity and type of all failed effects must be included and recorded in inspection report.