



BRANDON FIRE AND EMERGENCY SERVICES REGULATION 31

Fire Prevention Division

Telephone: (204) 729-2400 Fax: (204) 729-8970

Pyrotechnic/ Flame Effects Devices Display Requirements

A Pyrotechnic/ Flame Effects Devices Permit application requires; and **NO PERMIT** may be issued without the following items:

1. The permit holder must show proof of possession of a Natural Resources Canada Operators Certificate – Pyrotechnician Card Level 1 or appropriate to the pyrotechnics effects to be used in the display. **(Photocopy of license with picture ID is acceptable).**
2. A demonstrated knowledge and experience in applying the standards and requirements in the Natural Resources Canada Pyrotechnics Special Effects Manual on the part of each individual who will purchase handle or discharge any Pyrotechnic/ Flame Effects materials or devices.

Written permission from the property owner shall be obtained and provided permitting use of pyrotechnic/ flame special effects in a venue or location.

1. A **Certificate of Liability Insurance** shall be provided which includes a policy of general liability for bodily injury and property damage, for a minimum of \$5,000,000.00; and shall include naming Brandon Fire and Emergency Services, The City of Brandon, as additionally insured.
2. It is the responsibility of the permit holder to train **all participants** in the operation of fire extinguishers, to make them aware of permit conditions, and to prohibit any unauthorized performances during the course of the event.
3. The pyrotechnic/ flame effect operator shall be responsible for storage, set-up, operations and tear-down of all pyrotechnic/ flame effect materials, devices, equipment, systems and supervision of assistants.
4. A **Pyrotechnic/ Flame Effect Plan shall be provided** for approval. The plan shall include:
 - a. A narrative description of the time frames, pyrotechnic/ flame effect, pyrotechnic/ flame effect device(s), description of fuel(s) used.
 - b. A site plan showing the following:
 - the location of the pyrotechnic/ flame effects and their sequence
 - the location of any audience(s), seating plan (if any),
 - clearance to combustibles
 - fuel or device storage and holding areas, on site assembly, if any
5. Supply documentation or other proof that the set, scenery and rigging materials are essentially flame retardant or have been recently treated to achieve flame retardancy.
6. Specify if the discharge of the devices during the performance will generate substantial amounts of smoke. If so, what measures will be implemented to alleviate excessive smoke conditions?

7. **No Class I flammable liquids may be used.** Only Class II or III liquids (those with a flash point > 100 F) may be used. All fuel shall be stored in an approved manner, in an approved safety container (original product container, 1-quart metal container, or DOT-certified container)
8. The maximum quantity of flammable pyrotechnic/ flame effect materials stored shall be limited to that quantity used in one day. **Smoking shall be prohibited in any area where fuels are stored or used.**
9. Pyrotechnic/ Flame effect devices shall be designed to be securely attached to the wand or torches and hand. **Excess fuel shall be removed in an approved manner prior to lighting the device.**
10. Anyone on stage or participating in the performance shall wear natural fiber or flame retardant clothing, suitable for its exposure to pyrotechnic/ flame effects. Labels or documentation of fire retardant testing shall be provided to the Fire Department upon request.
11. **A minimum of one trained crew member** shall be standing by at all times the pyrotechnic/ flame effect device(s) are lit, with the main purpose of a safety monitor.
12. A minimum of two fire extinguishers shall be readily available in the area, on opposing sides of the performance, consisting of **two pressurized water, Class 2-A extinguishers and/or two Class 10-BC extinguishers.** Extinguishers must be fully charged and must have been professionally serviced within the last 12 months (for new extinguishers, sales slip indicating date of purchase must be attached).
13. **Note:** For all events involving pyrotechnic/ flame special effects the permit holder must:
 - a) Be knowledgeable of the Fire Safety Plan including Emergency Procedures contained therein for the evacuation of the audience if necessary.
 - b) Ensure that staff members are aware of and understand the Emergency procedures including the location of available exits.
 - c) Formulate an Emergency Contingency Plan including evacuation procedures and location of exits for occupancies that have no Fire Safety Plan.
14. No person shall use or handle pyrotechnic/ flame effect devices or materials under the influence of intoxicants, controlled substances, or prescription or non-prescription drugs that can impair judgment.
15. The permit holder agrees that, upon request by the Fire Department, a demonstration performance shall be given prior to issuance of the permit, at the permit holder's expense. For performances, a representative of the Brandon Fire and Emergency Services Prevention Office must be in attendance when required.
16. An inspection of the proposed site will be required prior to issuing the permit. A demonstration of the Pyrotechnic/ Flame Special Effects and related devices may be required prior to issuing the permit. The demonstration for inspection purposes shall be scheduled with sufficient time allowed for resetting or reloading the pyrotechnic special effects before the arrival of the spectators.

Additional precautions may be required after an assessment by the Brandon Fire and Emergency Services prior to issuing the Pyrotechnic/ Flame Special Effects Permit.

17. The conditions of this permit may not be modified without the prior review and approval of the Fire Department.

Permit Conditions for Indoor Performances:

1. The building in which the performance is to be held must be protected throughout, including both the seating area and stage by an automatic sprinkler system.
2. A minimum clear distance of 20 feet shall be maintained between the performers and the audience **at all times**. This distance shall be measured from the farthest reach of the pyrotechnic/ flame effect device while held with the arm fully extended. Distances may be adjusted, subject to site inspection, audience safety, and type of pyrotechnic/ flame effect device.
3. All scenery and decorations within a 25-foot wide radius of the farthest reach of the pyrotechnic/ flame effect device must be flame-retardant in non-Assembly occupancies. All scenery and decorations must be flame-retardant in Assembly occupancies.
4. The Pyrotechnic/ Flame effect device shall remain at least 5 feet at its farthest reach from any overhead light rigging. Distances may be increased subject to site inspection and type of pyrotechnic/ flame effect device.
5. Fire protection and life safety systems shall not be permitted to be interrupted during the operation of any pyrotechnic/ flame effect device(s).

Permit Conditions for Outdoor Performances:

1. Performances involving pyrotechnic/ flame effect devices shall not be held when weather is severe enough to influence the safe operation of the pyrotechnic/ flame effect devices.
2. Performances involving pyrotechnic/ flame effect devices shall not be held in outdoor venues where such performances might cause drivers to become distracted in such a way as to cause traffic accidents and/or congestion.
3. A minimum clear area of 20 feet shall be maintained between the performers and the audience **at all times**. This distance shall be measured from the farthest reach of the pyrotechnic/ flame effect device while held with the arm fully extended. Distances may be adjusted, subject to site inspection, audience safety, and type of pyrotechnic/ flame effect device.
4. Combustible decorations, materials, weeds, or dry grass shall not be located within a 25-foot wide radius of the farthest reach of the pyrotechnic/ flame effect device(s).
5. No pyrotechnic/ flame effect device shall reach any closer than 25 feet to any structure, and provisions shall be made to prevent a fire from spreading to within 25 feet of any structure.

This permit is to be submitted to Brandon Fire and Emergency Services (1) one week prior to the date of the performance. (No late applications will be considered).



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Pyrotechnic/ Flame Effects Devices Permit Application

Note:

1. Applicant must be the person supervising the Pyrotechnic/ Flame Effect Display.
2. Application approval is subject to the conditions listed on the accompanying page.

Name of Applicant: _____

Business Name: _____

Business Address: _____ Postal Code: _____

Business Telephone: _____ E-Mail: _____

Pyrotechnician Certificate #: _____ Expiry Date: _____

Sponsoring Organization: _____

Mailing Address: _____

Contact Person: _____ Telephone: _____

Location of Display: _____

Date of Display: _____ Time of Display: _____

☐ Detailed Site Plan Attached ☐ Letter of Permission Attached ☐ Event Description Attached

Storage Location: _____

I, _____ certify that I have read,
understand and will adhere to the conditions noted in the Brandon Fire and Emergency Services
Pyrotechnic/ Flame Effects Devices in Fire Performances Regulation.

Signature of Applicant: _____ Date: _____

Note: Application approval is subject to satisfying all conditions required by the Brandon Fire and
Emergency Services Regulation 31 and any additional conditions or requests of Brandon Fire &
Emergency Services