



## LETHBRIDGE FIRE PREVENTION BUREAU

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## REQUIREMENTS FOR PYROTECHNICAL SHOWS

**Present, Fax or Email** - to our office the license or pyrotechnic special effects certificate by Explosives Regulatory Division [**ERD**] to the office of Authority Having Jurisdiction [**AHJ**], Lethbridge Fire Prevention Bureau.

- ⇒ Provide proof of liability insurance in the minimum amount of **FIVE MILLION DOLLARS**.
- ⇒ Provide written permission from the building or land owner or the City, if on City land, allowing performance.
- ⇒ Event approval form provided by the authority having jurisdiction [**AHJ**]

(See attached)

## **Provide the AHJ with the following:**

### **1. A site plan containing:**

- A secured safe zone from fallout of two hundred meters for 180 degrees in front and thirty-five meters for 180 degrees' behind
- Security to insure spectators stay clear of fallout zone
- Sketch of the venue and surrounding area
- Positions of audience
- All exits
- Pyrotechnic storage area
- Safe zones
- An emergency evacuation plan

### **2. A letter of intent containing:**

- Location, dates and times
- General description of scene
- Pyrotechnic special effect articles to be used
- Fabrication
- Anticipated result
- Location of smoke sensors [alarm and detection types] and heat sensors
- Methods of determining safety distances for all personnel and exposures
- Safety measures to be taken
- Post show clean-up procedures

### **3. A list of all pyrotechnic articles to be employed, together with:**

- Nature of pyrotechnic articles to be functioned e.g. [ height, range, fall out, duration]
- Placement of all pyrotechnics
- Sequence of firing

#### **4. Explosive shipping document containing:**

- Date
- Name and address of consignor
- Name of first carrier
- Description of explosives
- Shipping name
- Primary classification
- A product identification number
- Total quantity of explosives

#### **5. Check List for Interior Pyrotechnics:**

- The event can be preformed safely
- The smoke ventilation capabilities of the venue
- How the pyrotechnics may affect the audience, performers, crew, Pyrotechnician, venue, or site
- Post “No Smoking” signs in detonation zone

#### **The AHJ may request that the Pyrotechnician:**

Perform a representative demonstration or dry run of the production in order to judge whether:

#### ***Event Safety: Everybody's First Responsibility***

Ensure at least two 3A–60BC fire extinguishers are on site. One extinguisher can be a 10 litre pressurized water unit.

Ensure a fire blanket, first aid kit and eye wash stations located within 15 meters of the display.

The two extinguishers are in addition to those already present at the venue.

***Understanding that pyrotechnic compositions produce their own oxygen and heat thus do not require air or external heat to burn.***

All staff must be at least eighteen years of age and be wearing safety glasses.

Explosive products must never be left unattended.

Conduct a safety meeting with all those involved on all aspects of procedures and operations before all dry runs, rehearsals, and the event.

**Plan for the unexpected:**

The AHJ may require fire pumps and crews be on scene.

All staff must be knowledgeable of the emergency evacuation plan.

**Conduct a pre-performance fire safety check in the detonation or fallout area (Interior or Exterior):**

- Stage equipment and rigging
- Carpet, blinds
- Screens
- Insulation
- Wall coverings
- Set material
- Natural grass or trees
- Areas of sewer gas or vapours
- As always - look up

The personal information collected on this form is within Section 33 of the *Freedom of Information and Protection of Privacy Act*. It is used for the purpose of a Pyrotechnic permit and will only be disclosed to the Fire Prevention Bureau.

If you have any questions or concerns, please contact the Fire Prevention office at **403-320-3811**