

**PERMIT FOR USE OF FLAME EFFECTS  
BEFORE A PROXIMATE AUDIENCE**

A USE OF FLAME EFFECTS BEFORE A PROXIMATE AUDIENCE PLAN shall be submitted to the University of Nebraska-Lincoln (UNL) Building and Fire Safety at least 7 calendar days prior to the planned production. This Plan **shall** be approved by the UNL Building and Fire Safety office or the flame effect will not be permitted. Upon approval of the Plan, the permittee shall keep the plan available at the site for safety inspectors or other designated agent of the UNL Building and Fire Safety. Any change in the submitted plan shall be reviewed and approved by the UNL Building and Fire Safety at least 24 hours prior to the performance.

The Plan shall set forth the following; any item not properly provided will cause the Plan to be disapproved and no flame effect will be allowed.

- \_\_\_\_\_ 1. Name of the person, group, or organization sponsoring the effect.
- \_\_\_\_\_ 2. The date and time of the production.
- \_\_\_\_\_ 3. The exact location of the production:
- \_\_\_\_\_ 4. The name of the person actually in charge of creating the flame special effect. (Flame Effect Operator. All flame effect operators shall be at least 21 years of age. The flame effect operator shall be responsible for storage, setup, operations, and teardown of all flame effect materials, devices, equipment, systems, and supervision of assistants.)
- \_\_\_\_\_ 5. The flame effect classification.
  - a. **Group I Flame Effect.** An attended, manually controlled flame effect.
  - b. **Group II Flame Effect.** An individual or group flame effect designed for unattended operation that is temporarily or permanently installed outside any structure.
  - c. **Group III Flame Effect.** An attended, temporarily installed flame effect for a specific production with limited operation and fixed time for removal.
  - d. **Group IV Flame Effect.** A large individual or group flame effect that is permanently installed inside or outside any structure designed for unattended operation without a main show supervisory control system.
  - e. **Group V Flame Effect.** A large individual or group flame effect that is temporarily or permanently installed inside or outside any structure and is designed for intermittent or continuous operation under the supervision of a main show control system but without full-time supervision by a technician.
  - f. **Group VI Flame Effect.** A large individual or group flame effect that is temporarily or permanently installed inside or outside any structure and is designed for intermittent operation under the supervision of a main show control system and a technical director, with cast members in close proximity to the effect at the time of operation.
  - g. **Group VII Flame Effect.** An individual flame effect that can be temporarily or permanently installed inside or outside any structure that, due to its unique operating requirements, does not fit into any other classification.
- \_\_\_\_\_ 6. A site plan showing the following:
  - a. A narrative description of the flame effect
  - b. The location of the flame effect devices to be fired and their controls and control sequence.
  - c. The area affected by the flame effect device
  - d. The location of the audience.
  - e. The fuels used and their estimated consumption
  - f. Air for combustion and ventilation for indoor effects
  - g. Flammable materials piping
  - h. Storage and holding areas and their capacities.
  - i. Supplemental fire protection features
  - j. Emergency response procedures
  - k. Means of egress
- \_\_\_\_\_ 7. A current material safety data sheet (MSDS) for the materials (fuels) consumed in the flame effect.

\_\_\_\_\_8. Documentation that the combustible materials used for construction of the flame effects have been rendered flame retardant.

The operator shall make operating instructions for the flame effects available to UNL Building and Fire Safety. The plan shall be reviewed with UNL Building and Fire Safety, flame effects operator, and the building owner/representative prior to the production, to ensure coordinated response in the event of an emergency.

When required, a walk-through and a representative demonstration of the flame effects shall be provided to UNL Building and Fire Safety.

**Flame effects shall be tested to verify that they operate in accordance with their designs. Flame effects shall be evaluated to verify that spectators, performers, support personnel, and the operator are not exposed to a hazardous situation when the flame effects are activated as designed or anticipated. Documentation of the testing and evaluation shall be permitted to be prepared by a third party acceptable to the authority having jurisdiction. The documentation shall be made available to the authority having jurisdiction as a part of the application for approval of the effect.**

**The premises where flame effect devices are installed or fired shall be maintained in a neat and orderly condition. The flame effect operator shall inspect all areas of the site where flame effect materials and devices are ignited before start-up and after shutdown.**

**Smoking shall be prohibited in the area where fuels used in flame effects are present. Smoking by performers as part of the performance shall be permitted where approved by the authority having jurisdiction.**

All requirements of National Fire Protection Association Pamphlet 160 – “Standard for the Use of Flame Effects Before an Audience” shall be met.

**APPLICANTS**

**SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**COMMENTS FOR APPROVAL:**

**PERMIT APPROVED** \_\_\_\_\_ **PERMIT DISAPPROVED** \_\_\_\_\_

\_\_\_\_\_ Date: \_\_\_\_\_  
*UNL FIRE INSPECTOR*

\_\_\_\_\_ Date: \_\_\_\_\_  
*FACILITY REPRESENTATIVE*