



### Use of Flame Effects Before an Audience

The following required documentation shall be submitted to obtain a permit for a Use of Flame Effects Before an Audience.

1. Complete a Seminole County Commercial Permit Application.  
[www.seminolecountyfl.gov/gm/building/pdf/CommercialPermitApplication.pdf](http://www.seminolecountyfl.gov/gm/building/pdf/CommercialPermitApplication.pdf)
2. Provide copy of legal description of the property. This may be obtained from the Seminole County Property Appraisers website.  
[www.scpafl.org/scpaweb05/index.jsp](http://www.scpafl.org/scpaweb05/index.jsp)
3. Provide a Letter of Permission from property owner allowing the production on the property.

Provide the following information as required by NFPA 160, Standard for the Use of Flame Effects Before an Audience.

#### 4. Contact Information

##### Effect Operator

- Name
- Address
- Email address
- Phone number

##### Event Sponsor

- Name
- Address
- Email address
- Phone number

##### Venue Contact

- Name
- Address
- Email address
- Phone number

5. Evidence of financial responsibility by the sponsor of the production and by the operator of the event. This could take the form of an insurance certificate or other document attesting to coverage or responsibility.

- Operator
- Event Sponsor

6. The date and time of day at which the production is to be held. If this is an outdoor event, a proposed rain/wind date and time.

- Date/Time

7. The exact location planned for the production.

- Address info

8. Name and Copy of DL of the operator and the all assistants who are to be present.

- Operator
- Assistants

9. The flame effect classification

<input type="checkbox"/>	<b>Group I Flame Effect:</b> An attended, manually controlled flame effect.
<input type="checkbox"/>	<b>Group II Flame Effect:</b> An individual or group flame effect designed for unattended operation that is temporarily or permanently installed outside any structure.
<input type="checkbox"/>	<b>Group III Flame Effect:</b> An attended, temporarily installed flame effect for a specific production with limited operation and fixed time for removal.
<input type="checkbox"/>	<b>Group IV Flame Effect:</b> 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.
<input type="checkbox"/>	<b>Group V Flame Effect:</b> 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.
<input type="checkbox"/>	<b>Group VI Flame Effect:</b> 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.
<input type="checkbox"/>	<b>Group VII Flame Effect:</b> 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.

10. A site plan showing the following:

<input type="checkbox"/>	A.	The location of flame effect devices
<input type="checkbox"/>	B.	Location of the flame effect controls and control sequence
<input type="checkbox"/>	C.	Location of the area affected by the flame effect device
<input type="checkbox"/>	D.	The location of the audience
<input type="checkbox"/>	E.	Location of air for combustion and ventilation for indoor effects
<input type="checkbox"/>	F.	Location of the flammable materials piping
<input type="checkbox"/>	G.	Location of the storage and holding areas and their capacities
<input type="checkbox"/>	H.	Means of egress of the venue

11. List and describe the following as part of the fire hazards evaluation procedure

<input type="checkbox"/>	A.	A narrative description of the flame effect
	B.	A narrative of the operators experience and training with flame effects
<input type="checkbox"/>	C.	Effect operator's emergency procedures including extinguishment equipment, including training completed by the assistants
<input type="checkbox"/>	D.	The fuels used, amounts, storage method and their estimated consumption
<input type="checkbox"/>	E.	A current material safety data sheet (MSDS) for the materials (fuels) consumed in the flame effect
<input type="checkbox"/>	F.	Potential spread of fire
<input type="checkbox"/>	G.	The additional fire load from the flame effect
<input type="checkbox"/>	H.	Potential duration of flame effect
<input type="checkbox"/>	I.	Smoke generation of flame effect
<input type="checkbox"/>	J.	Potential collection or drift of flammable vapors and gases
<input type="checkbox"/>	K.	Exposure of personnel to decomposition products
<input type="checkbox"/>	L.	Air for combustion and ventilation for indoor effects
<input type="checkbox"/>	M.	Documentation that the combustible materials used for construction of the flame effects have been rendered flame retardant
<input type="checkbox"/>	N.	Sources of ignition, both real and potential
<input type="checkbox"/>	O.	Audience evacuation procedure
<input type="checkbox"/>	P.	The time required for emergency evacuation of the audience
<input type="checkbox"/>	Q.	Existing building fire protection systems

### Supplemental Information

#### **Flame Effect Demonstration.**

- 1) When required, a walk-through and a representative demonstration of the flame effects shall be provided to the Fire Marshal before flame effects are approved.

#### **Interruption of Fire Protection and Life Safety Systems**

- 2) Fire protection and life safety systems shall not be permitted to be interrupted during the operation of flame effects.
- 3) Portions of fire protection and life safety systems shall be permitted to be interrupted during the operation of temporary indoor flame effects when the following conditions are met:
  - a) Approval of the Fire Marshal is received.
  - b) Approval of the owner or owner's agent is received.
  - c) An approved fire watch capable of directing the operation of all fire protection and life safety systems installed in the building is present.

- 4) Fire protection and life safety systems shall be permitted to be interrupted during the operation of permanently installed indoor flame effects only for initial acceptance of the system.

#### **Flame Effect Devices and Materials**

- 5) All flame effect devices and materials shall have drawings, manuals, or written descriptions to describe the type of item and performance specifications of the flame effect created.
- 6) This documentation shall be on site and available to the authority having jurisdiction.

#### **Operating Procedures**

- 7) All flame effects shall have written operating instructions, including start-up, show operations, normal shutdown procedures, and emergency shutdown procedures.
- 8) Operating instructions shall be available to the operator.

#### **Additional Fire Safety Provisions for Temporary Installations**

- 9) Where determined by the Fire Marshal that a need for fixed or additional fire protection equipment or standby fire safety personnel exists, such equipment or personnel shall be provided.
- 10) Four or more fire extinguishers of the proper classification and size as approved by the authority having jurisdiction shall be readily accessible while the flame effects performance is being conducted.
- 11) In all cases, at least two pressurized water, Class 2-A extinguishers and two Class 10-BC extinguishers shall be provided, in addition to those required by NFPA 10, Standard for Portable Fire Extinguishers, for the building.
- 12) The extinguishers shall be placed so that at least one each is located on opposing sides of the performance where flame effects are used.

Note: The Fire Marshal may approve alternatives to the number of additional fire extinguishers for small productions.

#### **Standby Fire Safety Personnel Requirements.**

- 13) The Fire Marshal upon reviewing the required NFPA 160 documentation may require standby fire safety personnel to be present along with operational supplemental equipment.
- 14) Standby fire safety personnel shall have a working knowledge of the supplemental fixed or portable fire-fighting equipment used in the area of the flame effects.
- 15) Standby fire safety personnel shall have a means of communication or of transmitting an alarm during the operation of flame effects.