



GOLDER RANCH FIRE DISTRICT

Operational Permit Application for Outdoor Fireworks Displays, Use of Pyrotechnics before a Proximate Audience and Pyrotechnic Special Effects in Motion Picture, Television, Theatrical and Group Entertainment Productions International Fire Code 2012 Edition

IFC 5601.2 NFPA 1123 - 10.3 Permit Required

Permits shall be required as set forth in Section 105.6 and regulated in accordance with this section. Prior to performing any display, the operator, supplier, or sponsor shall obtain a display permit from the Golder Ranch Fire District (GRFD) Fire Marshal with approval of the Fire Chief.

Event Name: _____

Event Address: _____

Event Date(s): _____ Event Time(s): _____

Set-up Date: _____ Set-up Time: _____

Event Sponsor: _____

Address: _____

Contact Phone: _____

Fireworks / Pyrotechnics Company: _____

Company Phone: _____

Operator Name: _____

Operator Phone Primary: _____ Operator Phone Secondary: _____

DOB: _____

DL #: _____

Qualifications:

NFPA 1123 - 10.1 Operator Qualifications

10.1.1 The operator shall be at least 21 years old and licensed or approved by the Golder Ranch Fire Marshal in accordance with any and all applicable federal, state, and local laws.

10.1.2 Applicants for licensing as an operator shall provide evidence of actual experience as an operator or assistant as part of demonstrating competency to the GRFD Fire Marshal.

10.1.3 Applicants for licensing as an operator shall successfully complete a written examination of laws, regulations, and safety practices pertaining to the discharge of fireworks that shall be administered by the GRFD Fire Marshal or shall otherwise demonstrate knowledge of these areas.



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10.2 Assistants.

All Assistants Shall Be Trained In the Duties They Are To Perform, Be Under the Direct Supervision of the Operator and Be At Least 18 Years Old.

Name: _____

Age: _____

Phone: _____

Name: _____

Age: _____

Phone: _____

Name: _____

Age: _____

Phone: _____

5601.2.4.2 NFPA 1123 - 10.3.2 Fireworks Display

The permit holder shall furnish a bond or certificate of insurance in an amount deemed adequate by the fire code official for the payment of all potential damages to a person or persons or to property by reason of the permitted display, and arising from any acts of the permit holder, the agent, employees or subcontractors. As part of the permit process, the operator, supplier, or sponsor shall demonstrate financial responsibility for the fireworks display to the GRFD by providing proof of insurance or by other approved means.

Proof of Insurance Document:

Insurance Company: _____

Insurance Company Phone: _____

Amount of Insurance: _____

- GRFD Named on Policy**
- Proof of Insurance Attached to Application**
- Policy Also Names** _____

10.3.3 The Operator or Supplier Shall Maintain Any Federal or State Permit(s) or License(s) Required to Possess and Use Fireworks.

The following conditions of code shall be applicable to each permitted display:



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105.6.14 Explosives

An operational permit is required for the manufacture, storage, handling, sale or use of any quantity of explosives, explosive materials, fireworks or pyrotechnic special effects within the scope of Chapter 56.

5601.2.3 Permit Restrictions

The GRFD Fire Marshal is authorized to limit the quantity of explosives, explosive materials or fireworks permitted at a given location. No person possessing a permit for storage of explosives at any place shall keep or store an amount greater than authorized in such permit. Only the kind of explosive specified in such a permit shall be kept or stored.

- **Attach A Description Of The Type And Amount Of Fireworks/Pyrotechnics To Be Displayed**

5608.1 Fireworks General

Outdoor fireworks displays, use of pyrotechnics before a proximate audience and pyrotechnic special effects in motion picture, television, theatrical and group entertainment productions shall comply with Sections 5608.2 through 5608.10 and NFPA 1123 or NFPA 1126.

5608.2.1 Outdoor Fireworks Display

In addition to the requirements of Section 403, permit applications for outdoor fireworks displays using Division 1.3G fireworks shall include a diagram of the location at which the fireworks display will be conducted, including the site from which fireworks will be discharged; the location of buildings, highways, overhead obstructions and utilities; and the lines behind which the audience will be restrained.

- **Attach A Diagram Of The Intended Display Location**

5608.2.2 Use of Pyrotechnics before a Proximate Audience

Where the separation distances required in Section 5608.4 and NFPA 1123 are unavailable or cannot be secured, fireworks displays shall be conducted in accordance with NFPA 1126 for proximate audiences. Applications for use of pyrotechnics before a proximate audience shall include plans indicating the required clearances for spectators and combustibles, crowd control measures, smoke control measures and requirements for standby personnel and equipment when provision of such personnel or equipment is required by the GRFD Fire Marshal.



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5608.3 Approved Fireworks Display

Approved fireworks displays shall include only the approved fireworks 1.3G, fireworks 1.4G, fireworks 1.4S and pyrotechnic articles, 1.4G, which shall be handled by an approved, competent operator. The approved fireworks shall be arranged, located, discharged and fired in a manner that will not pose a hazard to property or endanger any person.

5608.4 Clearance

Spectators, spectator parking areas, and dwellings, buildings or structures shall not be located within the display site.

Exceptions:

1. This provision shall not apply to pyrotechnic special effects and fireworks displays using Division 1.4G materials before a proximate audience in accordance with NFPA 1126.
2. This provision shall not apply to unoccupied dwellings, buildings and structures with the approval of the building owner and the GRFD Fire Marshal.

5608.5 Storage of Fireworks at Display Site

The storage of fireworks at the display site shall comply with the requirements of this section and NFPA 1123 or NFPA 1126.

5608.5.1 Supervision

Beginning as soon as fireworks have been delivered to the display site, they shall not be left unattended.

5608.5.2 Weather Protection

Fireworks shall be kept dry after delivery to the display site.

5608.5.3 Inspection

Shells shall be inspected by the operator or assistants after delivery to the display site. Shells having tears, leaks, broken fuses or signs of having been wet shall be set aside and shall not be fired. Aerial shells shall be checked for proper fit in mortars prior to discharge. Aerial shells that do not fit properly shall not be fired. After the fireworks display, damaged, deteriorated or dud shells shall either be returned to the supplier or destroyed in accordance with the supplier's instructions and Section 5604.10.

Exception: Minor repairs to fuses shall be allowed. For electrically ignited displays, attachment of electric matches and similar tasks shall be allowed.



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5608.5.4 Sorting and separation

After delivery to the display site and prior to the fireworks display, all shells shall be separated according to size and their designation as salutes.

Exception: For electrically fired displays, or displays where all shells are loaded into mortars prior to the show, there is no requirement for separation of shells according to size or their designation as salutes.

5608.5.5 Ready Boxes

Display fireworks, 1.3G, that will be temporarily stored at the site during the fireworks display shall be stored in ready boxes located upwind and at least 25 feet (7620 mm) from the mortar placement and separated according to size and their designation as salutes.

Exception: For electrically fired fireworks displays, or fireworks displays where all shells are loaded into mortars prior to the show, there is no requirement for separation of shells according to size, their designation as salutes or for the use of ready boxes.

5608.6 Installation of Mortars

Mortars for firing fireworks shells shall be installed in accordance with NFPA 1123 and shall be positioned so that shells are propelled away from spectators and over the fallout area. Under no circumstances shall mortars be angled toward the spectator viewing area. Prior to placement, mortars shall be inspected for defects, such as dents, bent ends, damaged interiors and damaged plugs. Defective mortars shall not be used.

5608.7 Handling

Aerial shells shall be carried to mortars by the shell body. For the purpose of loading mortars, aerial shells shall be held by the thick portion of the fuse and carefully loaded into mortars.

5608.8 Fireworks Display Supervision

Whenever in the opinion of the GRFD Fire Marshal or the operator a hazardous condition exists, the fireworks display shall be discontinued immediately until such time as the dangerous situation is corrected.

5608.9 Post-Fireworks Display Inspection

After the fireworks display, the firing crew shall conduct an inspection of the fallout area for the purpose of locating unexploded aerial shells or live components. This inspection shall be conducted before public access to the site shall be allowed. Where fireworks are displayed at night and it is not possible to inspect the site thoroughly, the operator or designated assistant shall inspect the entire site at first light.

A report identifying any shells that fail to ignite in, or discharge from, a mortar or fail to function over the fallout area or otherwise malfunction, shall be filed with the GRFD Fire Marshal.



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5608.10 Disposal

Any shells found during the inspection required in Section 5608.9 shall not be handled until at least 15 minutes have elapsed from the time the shells were fired. The fireworks shall then be doused with water and allowed to remain for at least 5 additional minutes before being placed in a plastic bucket or fiberboard box. The disposal instructions of the manufacturer as provided by the fireworks supplier shall then be followed in disposing of the fireworks in accordance with Section 5604.10.

5604.10.4 Storage of Misfires

Explosive materials and fireworks recovered from blasting or display misfires shall be placed in a magazine until an experienced person has determined the proper method for disposal.

5604.10.5 Disposal Sites

Sites for the destruction of explosive materials and fireworks shall be approved and located at the maximum practicable safe distance from inhabited buildings, public highways, operating buildings and all other exposures to ensure keeping air blast and ground vibration to a minimum. The location of disposal sites shall be no closer to magazines, inhabited buildings, railways, highways and other rights-of-way than is allowed by Tables 5604.5.2(1), 5604.5.2(2) and 5604.5.2(3). When possible, barricades shall be utilized between the destruction site and inhabited buildings. Areas where explosives are detonated or burned shall be posted with adequate warning signs.

NFPA 1123 - 5.1.5 Fallout Area

5.1.5.1* The fallout area shall be an open area.

5.1.5.2 Spectators, unauthorized vehicles, watercraft, or readily combustible materials shall not be located within the fallout area during the display.

5.1.6 Fire protection and other emergency response personnel and their vehicles shall remain at or beyond the perimeter of the display site during the actual firing of the display.



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- Highlight The Distances To Be Used For This Display

Table 5.1.3.1 Distances for Outdoor Aerial Shell Display Sites: Minimum Separation Distances from Mortars to Spectators for Land or Water Displays

Mortar Size ^A		Minimum Secured Diameter of Site ^B		Vertical Mortars ^C		Angled Mortars ^D 1/3 Offset		Mortars to Special Hazards ^E	
inch	mm	ft	m	ft	m	ft	m	ft	m
<=1	25	150	46	75	23	75	23	150	46
1.5	38	210	64	105	32	75	23	210	64
2	50	280	85	140	43	95	29	280	85
2.5	63	350	107	175	54	115	35	350	107
3	76	420	128	210	64	140	43	420	128
4	102	560	171	280	85	190	58	560	171
5	127	700	213	350	107	230	70	700	213
6	152	840	256	420	128	280	85	840	256
7	178	980	299	490	149	320	98	980	299
8	203	1120	341	560	171	370	113	1120	341
10	254	1400	427	700	213	460	140	1400	427
12	305	1680	512	840	256	560	171	1680	512

Note: >12 in. (>305 mm) requires the approval of the GRFD Fire Marshal

^a See 4.1.1

^b See 5.1.3

^c See 5.2.1.4

^d See 5.2.1.4. Note that for angled mortars, the minimum secured diameter of the display site does not change. Only the location of the mortars within the secured area changes when the mortars are angled.

^e See 5.1.4 Note that is only the distance to the special hazards. The minimum secured diameter of the display site does not change.

NFPA 1123 - 8.1.3.4* During the firing of the display, all personnel in the discharge site shall wear the following:

- (1) Head protection
- (2) Eye protection
- (3) Hearing protection
- (4) Foot protection
- (5) Cotton, wool, or similarly flame-resistant, long-sleeved, long-legged clothing



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NFPA 1123 - 8.1.4.2 If high winds, precipitation, or other adverse weather conditions prevail or begin such that a hazard exists in the opinion of the operator or the GRFD Fire Marshal, the fireworks display shall be postponed or discontinued until weather conditions improve.

NFPA 1123 - 8.1.6 Control of Ignition Sources

8.1.6.1 Smoking materials, matches, lighters, or open flame devices shall not be permitted within 50 ft (15 m) of any area where fireworks or other pyrotechnic materials are present.

8.1.6.2 Devices such as fusees, port-fires, and torches shall be permitted to be used to ignite fireworks.

8.1.7 Pyrotechnic materials used in the display shall be protected from adverse weather conditions.

8.1.8 Moisture-damaged pyrotechnic materials shall not be used.

NFPA 1123 - 8.1.9 Impairment

8.1.9.1* No person shall be present in the discharge site with alcohol in his or her system or while under the influence of drugs that are not over-the-counter or prescription medications used in compliance with the manufacturer's or physician's written instructions.

ITEMS IN GREEN SHALL BE ATTACHED TO THIS APPLICATION

GRFD Application Approvals	
Fire Marshal: _____	Date: _____
Fire Chief: _____	Date: _____
Permit Number: _____	
Date Issued: _____	Expiration Date: _____