



**OUTDOOR PROFESSIONAL DISPLAY SITE CHECKLIST**

**PART A – DISPLAY INFORMATION**

Name of Company: \_\_\_\_\_ License No. \_\_\_\_\_

Name of Lead Operator: \_\_\_\_\_ License No. \_\_\_\_\_

Location of Display: \_\_\_\_\_

Venue Contact: (Name, Address and Telephone Number)  
 \_\_\_\_\_

Date of Display: \_\_\_\_\_ Alternative Display Date: \_\_\_\_\_

<u>Assistants Names</u>	<u>Date of Birth</u>	<u>License No. (If Any)</u>

**PART B – DISPLAY SITE SELECTION/MINIMUM DISTANCES**

- Did the operator provide you a copy of the Display Site plan? The display site plan must include the dimensions and locations of the discharge site, the fallout area, and identify the spectator viewing area and parking areas which must be located outside of the display site. The associated separation distances must also be shown.
- Identify the largest mortar size in inches: ( )
- The minimum display site size required to conduct the display is based on the size of the largest mortar. To determine the minimum area for the display site, go to Table 1 and read the number next to size of the largest mortar identified above:

**Table 1**

<b>Mortar Size (in inches)</b>	<b>Minimum Secured Diameter of the Site (in feet)</b>
<3	280
3	420
4	560
5	700
6	840
7	980
8	1120
10	1400
12	1680

Where unusual or safety-threatening conditions exist, the authority having jurisdiction shall be permitted to increase the required separation distances as it deems necessary.

- Spectators and spectator parking areas must be located outside of the display site.

- Dwellings, buildings, and structures are not permitted to be located within the display site without the approval of the authority having jurisdiction and the owner and the dwelling, building, or structure is unoccupied during the display. The building may remain occupied if the structure provides protection through substantial noncombustible or fire-resistant construction for the occupants.
- Fire protection personnel and their vehicles and other emergency response personnel and vehicles shall remain at or beyond the perimeter of the display site during the actual firing of the display.
- Review sample Display Site Plan at end of this document.

### **PART C – LOCATION OF DISPLAY**

- Mortars shall be placed at the approximate center of the display site.
- There shall not be any overhead object over the mortars or within 25 ft of the trajectory of any aerial shells.
- Ground display pieces shall be located a minimum distance of 75 ft from spectator viewing areas and parking areas.
  - Exception: For ground pieces with greater hazard potential (such as large wheels with powerful drivers, and items employing large salutes) or all roman candles and multishot devices, the minimum separation distance shall be increased to 125 ft (38 m).

### **PART D - MORTARS**

- Mortars shall be positioned and spaced so that shells are propelled away from spectators, over the fallout area, and to afford maximum protection to the shooter and loader. Under no circumstances shall mortars be angled toward the spectator viewing area.
- Mortar racks or bundles shall be constructed in a thorough and workmanlike manner to be capable of holding multiple mortars in position during normal functioning. Mortar racks or bundles that are not inherently stable shall be secured or braced to stabilize them. Stabilization shall be accomplished by using stakes, legs, A-frames, side-boards, or equivalent means.

### **PART E – GROUND DISPLAY**

- To the extent that it is practical, all ground display pieces shall be positioned outside the discharge area of aerial displays.
  - Exception: Where aerial shells have been preloaded, ground display pieces shall be permitted to be located in that discharge area.
- Dry grass or combustible materials located beneath ground display pieces shall be wet down before the display if they are in sufficient quantity to be a fire hazard.
- Poles for ground display pieces shall be securely placed and firmly braced so that they do not fall over during functioning of the fireworks device.

### **PART F – DISPLAY SITE SAFETY**

- The authority having jurisdiction and the operator shall meet and determine the level of fire protection required.
- During the period before the display, where pyrotechnic materials are present, unescorted public access to the site shall not be permitted.
- Are there enough monitors positioned around the discharge site to prevent spectators or any other unauthorized persons from entering the discharge site? The discharge site must be restricted throughout the

display and until the discharge site has been inspected after the display. The authority having jurisdiction may approve delineators or barriers to be used in crowd control.

- Does the display have at least two spotters, or preferably more, assigned to watch the flight and behavior of aerial shells and other aerial fireworks to verify that they are functioning as intended. If any unsafe condition is detected, such as hazardous debris falling into the audience, the spotter shall signal the shooter to cease firing until the unsafe condition is corrected. The spotters shall be in direct communication with the shooter during the conduct of the display, with an effective means of informing the shooter of any hazardous condition.

#### **PART G – DISCHARGE AREA SAFETY**

- During the firing of the display, all personnel in the discharge site shall wear head protection, eye protection, hearing protection, and foot protection and shall wear cotton, wool, or similarly flame-resistant, long-sleeved, long-legged clothing. Personal protective equipment, as necessary, shall be worn by the operator and assistants during the setup and cleanup of the display.
- No person shall ever place any body part over the mortar during the loading and firing of a display until mortars have been checked for the absence of any shells following the display.
- Smoking materials, matches, lighters or open flame devices shall not be allowed within 50 ft (15 m) of any area where fireworks or other pyrotechnic materials are present.
  - Exception: Devices such as fuses, portfires, and torches shall be permitted to be used to ignite fireworks.
- No person shall be allowed in the discharge area while under the influence of alcohol, narcotics, or medication that could adversely affect judgment, mobility, or stability.
- The first shell fired shall be observed carefully to determine that its trajectory is such that the shell functions over the fallout area and that any hazardous debris or unexploded shells land in the fallout area. The display shall be interrupted and the mortars shall be reangled or repositioned as necessary for safety at any time during an outdoor fireworks display.

#### **PART H – HALTING DISPLAY**

- Wherever, in the opinion of the authority having jurisdiction or the operator, any hazardous condition exists, the fireworks display shall be postponed until the condition is corrected. Such conditions include but are not limited to the following:
  - The lack of crowd control,
  - If high winds, precipitation, or other adverse weather conditions prevail, or
  - If any unsafe condition is detected, such as hazardous debris falling into the audience, the spotter shall signal the shooter to cease firing until the unsafe condition is corrected.
- In the event of a condition arising requiring the entry of fire protection or other emergency response personnel into the fallout area or security perimeter, the display shall be halted until the situation is resolved and the area is once again clear.

#### **PART I – POST DISPLAY INSPECTION**

- Following the display, the firing crew shall conduct an inspection of the fallout area for the purpose of locating any unexploded aerial shells or live components. This inspection shall be conducted before any public access to the site shall be permitted.
- Where fireworks are displayed at night, a search of the fallout area shall be made immediately after the display and at first light the following morning by the operator or designated personnel acceptable to the authority having jurisdiction.

**DISPLAY SITE PLAN**

← MINIMUM SECURED DISTANCE →



**SPECTATOR VIEWING AREA**

**VEHICLE PARKING AREA**