



## COLORADO SPRINGS FIRE DEPARTMENT DIVISION OF THE FIRE MARSHAL FIREWORKS INSPECTION CHECKLIST

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- Shall Have approved permit - Plan Comments, Site Plan and Supporting Documents

### PERSONNEL

- Verify and record pyrotechnic/firework operator identity.
- Verify and record information on the identity and ages of all assistants, helpers, etc.
- Years of experience at this site, ask to describe the show and how he/she will manage the event.

### WEATHER AND ENVIRONMENTAL CONDITIONS

- Check wind speeds less than 20 mph. Consult with operator for test shot if needed; lightening or rainfall conditions.
- Burn Ban or Burn restrictions in place. Y or N
- Verify pre-water, standby firewatch or water supplies in place/available, if required.

### SECURITY

- Verify site security of storage area, discharge area, display area and fallout area as indicated on approved plan.
- Verify arrangements for traffic and crowd control before, during and after display.

### TRANSPORTATION AND STORAGE ARRANGEMENTS

- Transportation shipping documents match product in vehicle
- Vehicle placards are provided as required
- Fireworks storage is in an approved manner and location
- Storage container(s) is locked and secured

### FIRE PROTETION AND SAFETY EQUIPMENT

- Fire extinguishers available and accessible
- Shovel and container available for retrieving duds
- Appropriate protective gear (i.e. hard hat, long sleeved shirt, etc) available for persons manually discharging fireworks
- Cotton clothing worn by operators/assistants

### MORTOR INSPECTION

- Compare list of mortar racks, etc. with actual equipment
- Mortars are approved for use with type of shells to be fired
- Mortars are inspected prior to use for defects, debris, etc.
- Base plugs are securely attached to bottom of mortars
- Mortars are proper length for size of shells to be fired

### RACK INSPECTION

- Racks have no more than 10 tubes per unit
- Base and ends of racks are nominal 2" thick lumber
- Racks have blocks (nominally 2" x 4") separating individual mortars
- Racks for mortars 3 inches or larger have side braces of 1" x 6" nominal lumber or 1/2" x 4" plywood
- All racks with more than 5 tubes have diagonal side braces

- Racks are secured to prevent falling over or breaking loose.

### **TROUGH INSPECTION**

- No trough is more than 8 feet in length
- Bottom surface of trough is provided with  $\frac{3}{4}$ " plywood if not sufficiently stable to support firing of the mortar
- Troughs are constructed of minimum  $\frac{3}{4}$ " plywood and secured with  $\frac{3}{8}$ " through-bolts, rods or angle iron "U" brackets at each end and center
- Sand or soft dirt, free of rocks or debris, is on-hand to fill trough
- Minimum separation distance between mortars is provided
- Trough is of adequate height to securely bury mortars  $\frac{2}{3}$  of their minimum legal length

### **DRUM INSPECTION**

- Drums are in good condition
- Sand or soft dirt, free of rocks or debris, is on-hand to fill drum
- Drums are of adequate size to provide minimum separation distances between mortars
- Drums are of adequate height to securely bury mortars  $\frac{2}{3}$  of their minimum legal length

### **TRENCHES, ETC. TO BURY MORTARS IN GROUND**

- Planking below mortars is provided for unstable or unlevelled surfaces
- Trenches are of sufficient depth to securely bury mortars  $\frac{2}{3}$  of their minimum legal length
- Minimum separation distance between mortars is provided
- Sand or soft dirt, free of rocks or debris, is on-hand to fill trench

### **AERIAL SHELL INSPECTION**

- Number of shells matches quantity listed on plan documents
- Operator examines shells for damage
- Operator sizes shell for proper fit in mortars

### **GROUND DEVICE INSPECTION**

- Ground devices match items listed on permit/plan
- Location and spacing of devices is per approved permit and plan
- Equipment available to secure and brace ground devices

### **DISCHARGE FALL/OUT AREA INSPECTION**

- Location is as per approved permit
- Minimum required fall out area is provided
- Arrangements provided to secure fall out area when shell loading begins, during and after display.

### **ELECTRICALLY FIRED DISPLAY INSPECTION**

- Power source is restricted to batteries or individually isolated generators
- Firing system is protected against accidental firing
- Method for circuit testing is available
- Firing panel is located a minimum of 100 feet from devices
- Devices are located within continuously unobstructed full view of operator

### **PAPERWORK**

- Issue Fire Department Permit with Inspection report