



## Outdoor Aerial Fireworks Display Checklist

**PURPOSE:** The purpose of this checklist is to provide the pyrotechnic operator with a list of items that will be inspected during the fire inspection prior to the display commencement. Note that not all items below are applicable for all aerial displays. Also note that this list is not all inclusive.

### PRIOR TO INSPECTION

- Shall have approved permit, plan review comments, stamped 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.
- Verify with the operator how the display will be managed.

### WEATHER AND ENVIRONMENTAL CONDITIONS

- Check wind speeds less than 20 mph. Consult with operator for test shot if needed; storm/lightening or rainfall conditions.
- Burn ban in place (If yes, then display is cancelled)
- Fallout area pre-watered and/or vegetation cut to 4 inches or less.
- Standby Fountain FD brush truck and personnel in place/available, if required and communication channel established

### SECURITY

- Verify site security of storage area, discharge area, display area and fallout area as indicated on stamped plan.
- Arrangements for traffic and crowd control before, during and after display.
- Verify only required personnel within fallout zone.
- Visitors with operators are not permitted.

### TRANSPORTATION AND STORAGE ARRANGMENTS

- 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) locked and secured.

### FIRE PROTECTION 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 all persons within fallout zone.
- Cotton clothing worn by operators/assistants.

### MORTAR 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 the 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.
- The 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 ½" x 4" plywood.



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- All racks with more than 5 tubes have diagonal side braces.
- Racks are secured with adequate sandbags on three sides to prevent falling over and/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.
- A 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 is provided.
- A 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.
- Diameter of shells match plans

### GROUND DEVICE INSPECTION

- Ground devices match items listed on permit/plan.
- The location and spacing of devices are per approved permit and plan.
- Equipment available to secure and brace ground devices.

### DISCHARGE FALLOUT AREA INSPECTION

- Location is as per approved plans.
- The minimum required fallout area is provided.
- Arrangements provided to secure fallout area when shell loading begins, during and after display.

### ELECTRICALLY FIRED DISPLAY INSPECTION

- Power sources are restricted to batteries or individually isolated generators.
- The firing system is protected against accidental firing.
- Method for circuit testing is available.
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- The 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.