

HALE ARTIFICIER, INC.

Safety Procedures for Fireworks Displays

NFPA 1123 Codes are to be followed at all times.

1. Firing Procedure:

- A. Operators are to use the Pre-display checklist provided in the display paperwork. AT NO TIME are the materials to be left unattended.
- B. Upon arrival at the site, check site conditions for any hazards that may impede the safety of the display operation.
- C. Insure the site meets all distance requirements.
- D. Confirm that there is adequate ingress and egress for emergency vehicles.
- E. Inspect all racks and equipment as it is coming off the truck. Any equipment that is damaged, or broken is not to be used in the display.
- F. All mortar racks are to be set up and installed prior to any loading of live materials.
- G. Inspect all shells and fireworks devices such as cakes, candles, and ground effects prior to loading, or placing in the firing area. Any materials found to be damaged, or not in proper condition are not to be used in the display.
- H. All materials fuses are to be situated and secured for easy access and removal of safety caps just prior to firing.
- I. (Electric firing) Any e-matching of materials will take place at least 50 feet from the truck holding the fireworks, and at least 100 feet from any public access. Limit the amount of materials in this area to just ONE box at a time.
- J. (Electric firing) Once all materials are set up, no personnel are allowed within the firing area during the continuity testing. If there is a need to check contact points, or adjust materials, the firing control panel must be disabled completely before an operator enters the firing area.
- K. (Manual Firing) Operators will use fusees (flares) for ignition of shell leaders.
- L. Previously installed multiple ignition points are to be placed along Finale racks, or any chain fused sections of the display.

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2. Termination and Emergency Procedures

- A. If, at any time before, or during the discharge of a Display, there arises a condition that adversely affects the firing or completion of the Display, the operator will IMMEDIATELY halt the display, until such a time that the condition can either be corrected, or deleted from the program.
1. The AHJ will also have the authority to halt the display, should any such condition arise.
 2. Communication between the Operator and the AHJ will be necessary to provide for the continuation of the display.
- B. If there is a weather related concern, the display is to be halted, or postponed, until better conditions prevail. If there is no alternative, or if conditions remain at an unsafe level, then the Operator is to cancel the display, and the Rain Date option will be considered.
1. All mortar racks are to be covered with tarps, plastic or other suitable materials to prevent materials from getting wet. Cakes, and other ground effects can be placed in plastic bags.
 2. Any materials that do become wet shall not be used, and are to be placed into regulation cartons and returned to Hale Artificier, Inc.
- C. If, during the display, an errant shell or malfunction of equipment causes materials to be sent towards or into the spectator area, or out of the intended fallout area, the operator will IMMEDIATELY halt the display.
1. The safety of the spectators is the primary concern, and the operator is to insure that any errant shell trajectories or malfunctions are dealt with as soon as it is safe to do so. Repositioning of the racks, or dropping that part of the display will be done before resuming any firing.
 2. A situation of this nature could cause the rest of the display to be postponed, or cancelled with the communication and cooperation of the AHJ.
 3. Identification of the errant materials and/or equipment is to be documented in the Operators display report.
 4. If there is ANY injury of any nature, to a spectator, or any other person, the display is to be halted, and the assistance of the local EMS, Fire Department, and/or other fire and life safety personnel on duty at the time is to be utilized.

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D. Ingress and Egress routes are to to be maintained at all times, and are to remain clear for emergency vehicles and personnel.

1. Should there be any reason to need such access, the Operator shall halt all firing, and suspend the display.
2. The Operator and other display personnel may assist such emergency personnel to control and contain any condition to insure the safety and security of the site.

3. Post Display

A. Once the display has been completed, the Operator will make the determination to break down the display equipment when he/she finds all conditions safe to do so.

1. The operator and assistants should allow at least 15 minutes for a "cool-down" period, once the display is completed.
 - a. Beginning with the mortars that were fired first, make sure that all shells and materials were discharged.
 - b. Once all racks and equipment have been cleared, the Operator will approve the break down of the display.

2. Misfired Materials

- a. Identify any and all misfired materials.
- b. Insure that there are no ignition hazards present before handling. All sparks are to be extinguished. E-matches should be disconnected and shunted, and then may be carefully removed.
- c. Carefully remove materials from the discharge area.
- d. Place materials into a regulation carton, and transport back to Hale Artificier, Inc.
- e. Record misfires in the Operator's display report.

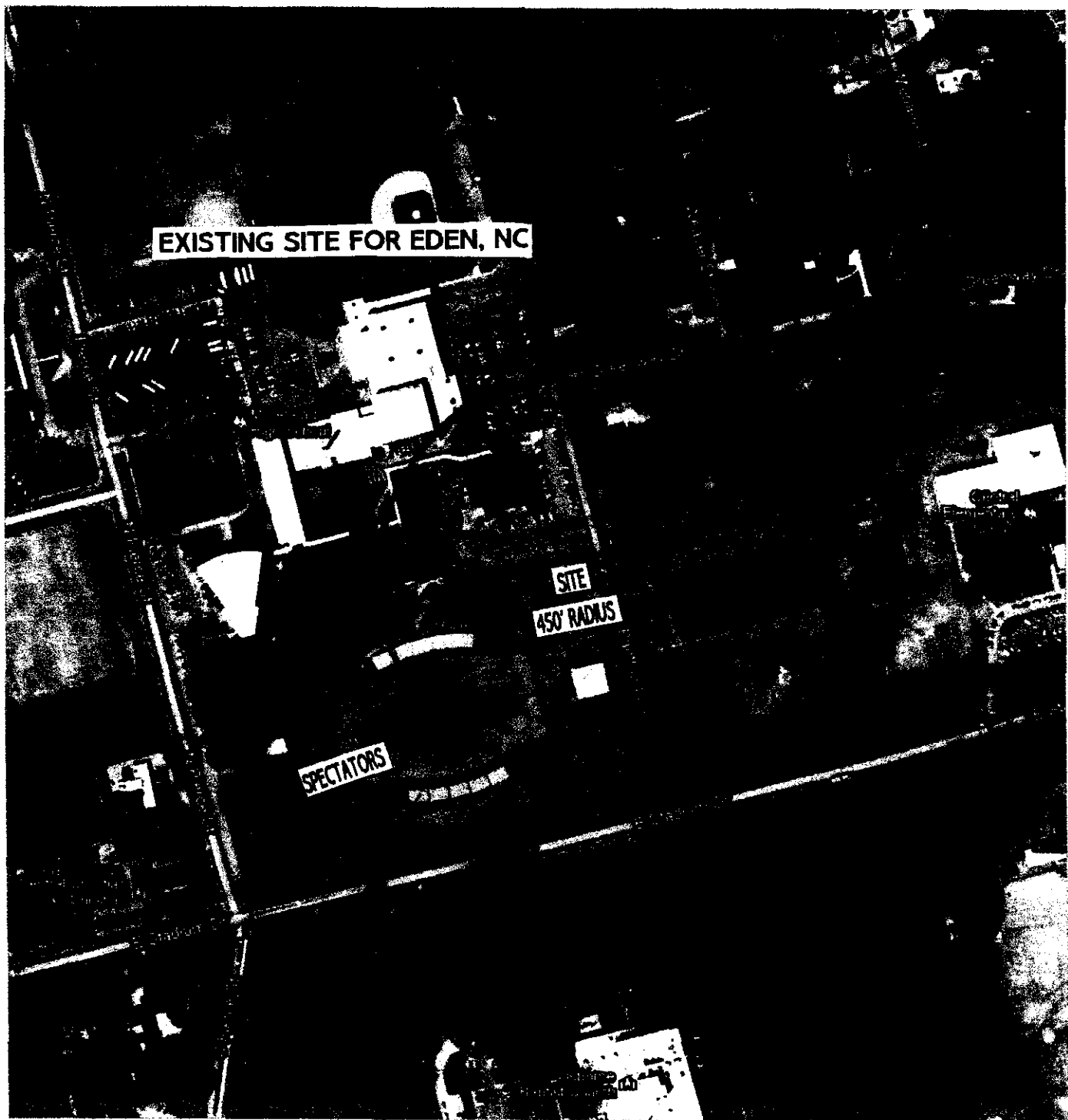
3. Dud Shells

- a. Identify any and all dud shells and their location.
- b. No unauthorized personnel are to be allowed in those areas.
- c. Insure that there are no ignition hazards before handling. If necessary, spray with water to extinguish any sparks or flame.

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- d. Carefully remove dud shells, place into a regulation carton and transport back to Hale Artificier, Inc.
 - e. Record duds in the Operator's display report.
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- B. The operator will assist the AHJ in conducting the post-display inspection, and sign off on any documentation the AHJ may require.
 - C. Once that inspection is completed, the operator may clear the on-duty Fire Department personnel.
 - D. The entire discharge area and fallout zones are to be inspected to insure that there are no duds, misfires, or any other materials left on the display site. If necessary, a site check is to be made early the following morning.
 - E. Clean up includes removal of all equipment, paper debris, and any other items that remain as a result of the display.

To see all the details that are visible on the screen, use the "Print" link next to the map.



Hale Artificier, Inc.
Fireworks and Pyrotechnics
2015

Kiwanis Club of Eden
And the City of Eden
Old Time July Fourth Fireworks
\$8,000.00 program

Opening Barrage:

20 - 3" Assorted Color Finale Shells w/Tails
10 - 3" Finale Titanium Salute Shells w/Tails
6 - 4" Assorted Color Finale Shells

Main Program:

140 - 3" Assorted Aerial Shells w/Tails
78 - 4" Assorted Aerial Shells w/Tails
70 - 5" Assorted Aerial Shells w/Tails
40 - 6" Assorted Aerial Shells w/Tails

Grand Finale:

120 - 3" Assorted Color Finale Shells w/Tails
30 - 3" Finale Titanium Salute Shells w/Tails
18 - 4" Assorted Color Finale Shells
10 - 5" Assorted Color Finale Shells
6 - 6" Assorted Color Finale Shells

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