# Utah State Fire Marshal's Office

## Firework Stands, Mercantile Sale of Fireworks Field Inspection Form

## Training Program

**IFC 2015, Revised March 2017**

# Introduction

This presentation is to accompany the “Field Inspection Form” titled;

**Firework Stands,**
**Mercantile Sale of Fireworks**
**Field Inspection Form**
**IFC 2015, Revised March 2017**

# Firework Stands, Mercantile Sale of Fireworks Field Inspection Form IFC 2015, Revised March 2017

**Occupancy Name:** _____

**Occupancy Address:** _____

**Owner:** _____**Phone:** _____

**Assigned Station:** _____ **Inspection By:** _____**Date:** _____

## Introduction

Chapter 56 of the International Fire Code regulates the use of Fireworks. In addition R710-2 of the State Fire Marshals Rules and Regulations provide further requirements. This document is designed to provide a summary of the necessary codes pertaining to Class "C" fireworks and to assist with on site permit inspections. House Bill 22(passed in 2011) allows for the sale and use of aerial fireworks under 500mg. which are defined in R710-2 as a cake that is a collection of mine/shell tubes that has a single fuse, which is used to light several tubes in sequence. A cake may also be defined as an aerial repeater or multi-shot aerial.

## Significant Dates

Class "C" fireworks **can be sold**, by permit on the following dates: **June 23-July 27; Dec. 29-Jan. 1**; **2 days before and on Chinese New Year's Eve.**

Class "C" fireworks legally obtained **can be discharged:** **July 1 – July 7 and July 21-27 from 11am to 11pm except July 4 and 24, the hours are extended until midnight; New Year's Eve and Chinese New Year's Eve 11am – 1am the following day.**

| IFC/SFMRR | Yes | No | N/A | Code Topic |
|---|---|---|---|---|
| **General Conditions** | | | | |
| IFC 105.6.15<br>R710-4(1) | ___ | ___ | ___ | Permits to sell fireworks are required. |
| R710-2-4(2) | ___ | ___ | ___ | Permits are to be available for inspection at the store or stand where fireworks are sold and/or handled. |
| R710-2-4(3) | ___ | ___ | ___ | All fireworks retail sales locations shall be under the direct supervision of a responsible person who is 18 years of age or older. |
| R710-2-4(4)<br>R710-2-4(6) | ___<br>___ | ___<br>___ | ___<br>___ | Fireworks are not to be sold by or to any person under the age of 16. |
| **Required Signs** | | | | |
| R710-2-4 (10) | ___ | ___ | ___ | A sign that is clearly visible to the general public shall be posted at all fireworks sales locations indicating the legal dates for the discharge of fireworks. |

| IFC/SFMRR | Yes | No | N/A | Code Topic |
|---|---|---|---|---|

**Required Signs(Continued)**

| | | | | |
|---|---|---|---|---|
| R710-2-4(9) | ___ | ___ | ___ | No smoking signs are to be conspicuously posted at all outdoor fireworks sales and storage locations. |
| R710-2-7(3) | ___ | ___ | ___ | Wherever aerial devices are sold there shall be signage with minimum **font of one inch**, to warn and inform the customer of the dangers of aerial devices and the signage shall state the following:<br>-Aerial fireworks are designed to travel up to 150 feet into the air and then explode.<br>-Aerial fireworks shall be placed on a hard level surface outdoors, in a clear and open area prior to ignition.<br>-Anyone under the age of 16 shall not handle or operate aerial fireworks.<br>-Ignition of aerial fireworks shall be a minimum of 30 feet from any structure or vertical obstruction.<br>-Aerial fireworks shall not be ignited within 150 feet of the point of sale.<br>-Please read and obey all safe handling instructions before using aerial fireworks. |

**Fireworks Storage**

| | | | | |
|---|---|---|---|---|
| IFC 5601.2.1,<br>R710-2-4(8_ | ___ | ___ | ___ | Fireworks **are not** allowed to be stored within 100 feet of a place of habitation. Furthermore, storage of fireworks is not to be located in a residence to include attached garages |

**Portable Fire Extinguishers**

| | | | | |
|---|---|---|---|---|
| R710-2-4(11) | ___ | ___ | ___ | Fireworks retail sales locations are to have an approved portable fire extinguisher having a minimum 2A rating. |
| NFPA 10-6.1.3.1-2 | ___ | ___ | ___ | Fire extinguishers shall be conspicuously located where they are readily accessible & immediately available in case of fire and located along normal paths of travel including exits, or as required by the local AHJ. |
| IFC 906.2 | ___ | ___ | ___ | Portable Fire Extinguishers, Mounted, Tagged and Serviced |
| IFC 906.6 | ___ | ___ | ___ | Fire extinguishers shall **not be** obstructed or obscured from view. |

**Fire Protection Systems (For Indoor Locations Only)**

| | | | | |
|---|---|---|---|---|
| IFC 901.6.1 | ___ | ___ | ___ | Fire Sprinkler System Testing Annually (tagged) |
| IFC 901.6.1 | ___ | ___ | ___ | Fire Alarm System Testing Annually (tagged) |

| IFC/SFMRR | Yes | No | N/A | Code Topic |
|---|---|---|---|---|
| **Indoor Sales** | | | | |
| R710-2-5(1) | ___ | ___ | ___ | Display of fireworks inside of buildings shall be so located to ensure constant visual supervision. |
| R710-2-5(2) | ___ | ___ | ___ | The area where fireworks are displayed or stored shall be at least 50 feet from any flammable liquid or gas, or other highly combustible material. |
| R710-2-5(3) | ___ | ___ | ___ | The retails sales display of fireworks shall not be placed in locations that would impede egress from the building. |
| R710-2-5(4) | ___ | ___ | ___ | In buildings protected by a sprinkler system, display of fireworks shall not exceed 25% of the retail sales floor area or exceed 600 square feet, whichever is less. |
| R710-2-5(5) | ___ | ___ | ___ | In buildings not protected by a sprinkler system, display shall not exceed 125 lbs. of pyrotechnic composition. Where weight of pyrotechnic composition is not known, 25% of the gross weight of the fireworks shall be permitted to be used for determination. |
| **Outdoor Sales** | | | | |
| IFC 5601.2.2 | ___ | ___ | ___ | Firework stands are not to be constructed or set up upon a highway, sidewalk, public property, or in an assembly or educational occupancy. |
| IFC 2403.9 | ___ | ___ | ___ | Temporary stands; trailers and tents used for the retail sales of fireworks shall be constructed in such as way as to prevent collapse. Tents shall be adequately roped, braced and anchored to withstand the elements of weather and to prevent against collapse |
| IFC 2404.2. | ___ | ___ | ___ | Tents shall have a flame resistant treatment, certified by a label that is affixed to the tent fabric indicating the date that the fabric was treated and it's compliance with NFPA 701. |
| R710-2-6(2) | ___ | ___ | ___ | The general public shall not be allowed to enter a temporary stand or trailer where fireworks are sold and/or handled. |
| R710-2-4(7) | ___ | ___ | ___ | All outdoor retail sales locations for fireworks are to be kept clear of dry grass or other combustible materials for a distance of at least 25 feet in all directions. |
| R710-2-6(3) | ___ | ___ | ___ | Each stand, trailer or tent less than 200 square feet shall have a minimum three (3) foot wide unobstructed aisle running the length of the stand, trailer or tent. |

| IFC/SFMRR | Yes | No | N/A | Code Topic |
|---|---|---|---|---|
| R710-2-6(4) | ___ | ___ | ___ | All tents where customers enter inside shall have a minimum three (3) foot wide unobstructed aisle and two separate exits located a reasonable distance apart and so located that if one is blocked the other will be available. |
| R710-2-6(5) | ___ | ___ | ___ | The area used for the sale of fireworks in stands, trailers, or tents shall be arranged to permit the customer to only touch or handle prepackaged fireworks. All non pre-packaged fireworks shall be displayed in a manner, which prevents the fireworks from being handled by the customer without the direct intervention of the retailer who shall be able to maintain visual contact with the customer. |
| R710-2-6(6) | ___ | ___ | ___ | Temporary stands; trailers or tents for the sale of fireworks shall be located at least 50 feet from other stands, trailers, tents, LPG flammable liquid or gas storage and dispensing units. |
| R710-2-6(7)<br>R710-2-6(7)(a) | ___ | ___ | ___ | If the stand or trailer is used for the overnight storage of the fireworks, it shall be equipped with suitable locking devices to prevent unauthorized entry. Tents shall not be used for overnight storage of fireworks unless onsite security is provided. |
| R710-2-6(8) | ___ | ___ | ___ | No person shall be allowed to sleep in any temporary fireworks stand, trailer or tent. |
| R710-2-6(9)<br>R710-2-6(9)(a) | ___ | ___ | ___ | Fireworks stands, trailers or tents shall not be illuminated or heat by any device requiring an open flame or exposed heating elements. All heaters shall be approved by the AHJ. |
| R710-2-6(10) | ___ | ___ | ___ | All illumination and wiring shall be installed in accordance with the temporary wiring section of the National Electrical Code and the AHJ. |

**<u>Aerial Sales</u>**

| | | | | |
|---|---|---|---|---|
| R710-2-7(1) | | | | **Choice of one of the following three options** |
| R710-2-7(1)(a) | ___ | ___ | ___ | 1. Provide constant supervision by direct line of sight by a designated store employee where the areal display is not more than 25 feet from the employees work station. |
| R710-2-7(1)(b) | ___ | ___ | ___ | 2. Provide constant visual supervision by direct line of sight by a store employee when all of the following requirements are met: |
| R710-2-7(1)(b)(i) | ___ | ___ | ___ | -The aerial display shall not be more than 40 feet from the designated employee's workstation. |
| R710-2-7(1)(b)(ii) | ___ | ___ | ___ | -The aerial devices are restrained by using at least one of the following methods: |
| R710-2-7(1)(A) | ___ | ___ | ___ | a)The aerial devices are placed in a bin or bins that meets the definition stated in R710-2-3. |
| R710-2-7(1)(B) | ___ | ___ | ___ | b)The aerial device shall have an additional layer of packaging requiring that the additional layer of packaging be punctured or torn to gain access to the fuse cover. |

| IFC/SFMRR | Yes | No | N/A | Code Topic |
|---|---|---|---|---|
| R710-2-7(1)(C) | ___ | ___ | ___ | 3. Place the aerial devices in an area that is physically separated from the public so that the customer cannot handle the aerial devices without the assistance of an employee. |
| R710-2-7(2) | ___ | ___ | ___ | Where aerial devices are sold in permanent structures, the aerial device display shall be placed in a location that gives the customer access to the aerial devices just before the customer checks out and exits the store. |

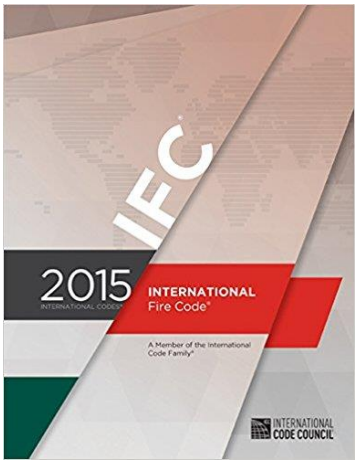
**Fire Access, Fire Lanes, Hydrants**

| | | | | |
|---|---|---|---|---|
| IFC 503.2 | ___ | ___ | ___ | Fire Apparatus Access Available |
| IFC 503.4 | ___ | ___ | ___ | Fire Apparatus Access Roads Free of Obstructions |
| IFC 507.5.4 | ___ | ___ | ___ | Fire Hydrants Free of Obstructions |

For information pertaining to this document please contact the Utah State Fire Marshals Office at 801-284-6350, or https://firemarshal.utah.gov/.

COMMENTS: _____
_____
_____
_____
_____

Chapter 56 of the International Fire Code regulates the use of Fireworks.




In addition R710-2 of the State Fire Marshal's Rules and Regulations provide further requirements.

This training program is designed to provide a summary of the necessary codes pertaining to Class "C" fireworks and to assist with on site permit inspections.

The aerial “cake” fireworks are legal, but here is a list of which fireworks are not allowed:

**Cherry bombs,**
**Roman candles,**
**Sky rockets,**
**Bottle rockets,**
**Single-shot mortars,**
**M-80s,**
**Firecrackers,**
**and any “non-cake” aerial device**

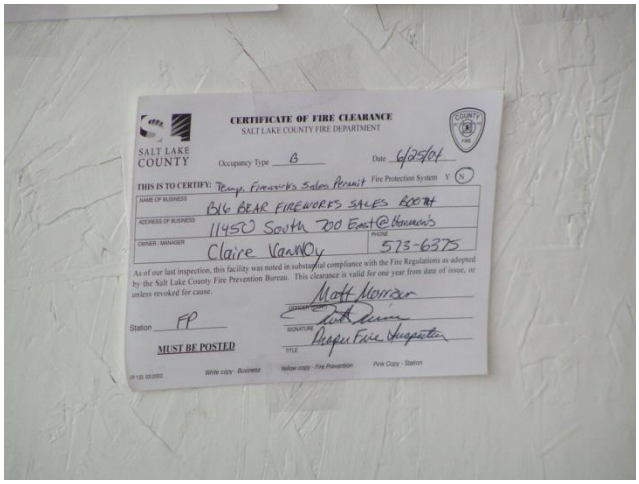
Legal

Illegal Fireworks

# Permits

**General Conditions**

Permits to sell fireworks are required.




Permits are to be available for inspection at the store or stand where fireworks are sold and/or handled.

All fireworks retail sales locations shall be under the direct supervision of a responsible person who is 18 years of age or older.

Fireworks <u>are not</u> to be sold by or to any person under the age of 16.

Fireworks shall only be stored, handled, displayed, and sold as packaged units, with unexposed fuses.

# Required Signage

Signs which are clearly visible to the general public shall be posted at all fireworks sales locations with a minimum of 1” letters.

- No smoking signs are to be conspicuously posted at all outdoor fireworks sales and storage locations.

AERIAL FIREWORKS SHALL NOT BE IGNITED WITHIN 150 FEET OF THE POINT OF SALE.

AERIAL FIREWORKS ARE DESIGNED TO TRAVEL UP TO 150 FEET INTO THE AIR AND THEN EXPLODE.

IGNITION OF AERIAL FIREWORKS SHALL BE A MINIMUM OF 30 FEET FROM ANY STRUCTURE OR VERTICAL OBSTRUCTION.

AERIAL FIREWORKS SHALL BE PLACED ON A HARD LEVEL SURFACE OUTDOORS, IN A CLEAR AND OPEN AREA PRIOR TO IGNITION.

**PLEASE READ AND OBEY ALL SAFE HANDLING INSTRUCTIONS**

ANYONE UNDER THE AGE OF 16 SHALL NOT HANDLE OR OPERATE AERIAL FIREWORKS.

# Fireworks Storage

- Fireworks **<u>are not</u>** allowed to be stored within 100 feet of a place of habitation. Furthermore, storage of fireworks is not to be located in a residence to include attached garages

# Portable Fire Extinguishers

- All fireworks retail sales locations are to have an approved portable fire extinguisher having a minimum 2A rating. The fire extinguisher is to be located not more than 15 feet and not less than 10 feet from the hazard.
- Portable Fire Extinguishers, Tagged and Serviced
- Fire extinguishers shall **<u>not be</u>** obstructed.

# Fire Protection Systems

- **(For Indoor Locations Only)**
- Fire Sprinkler System Testing Annually (tagged)
- Fire Alarm System Testing Annually (tagged)

# Indoor Sales

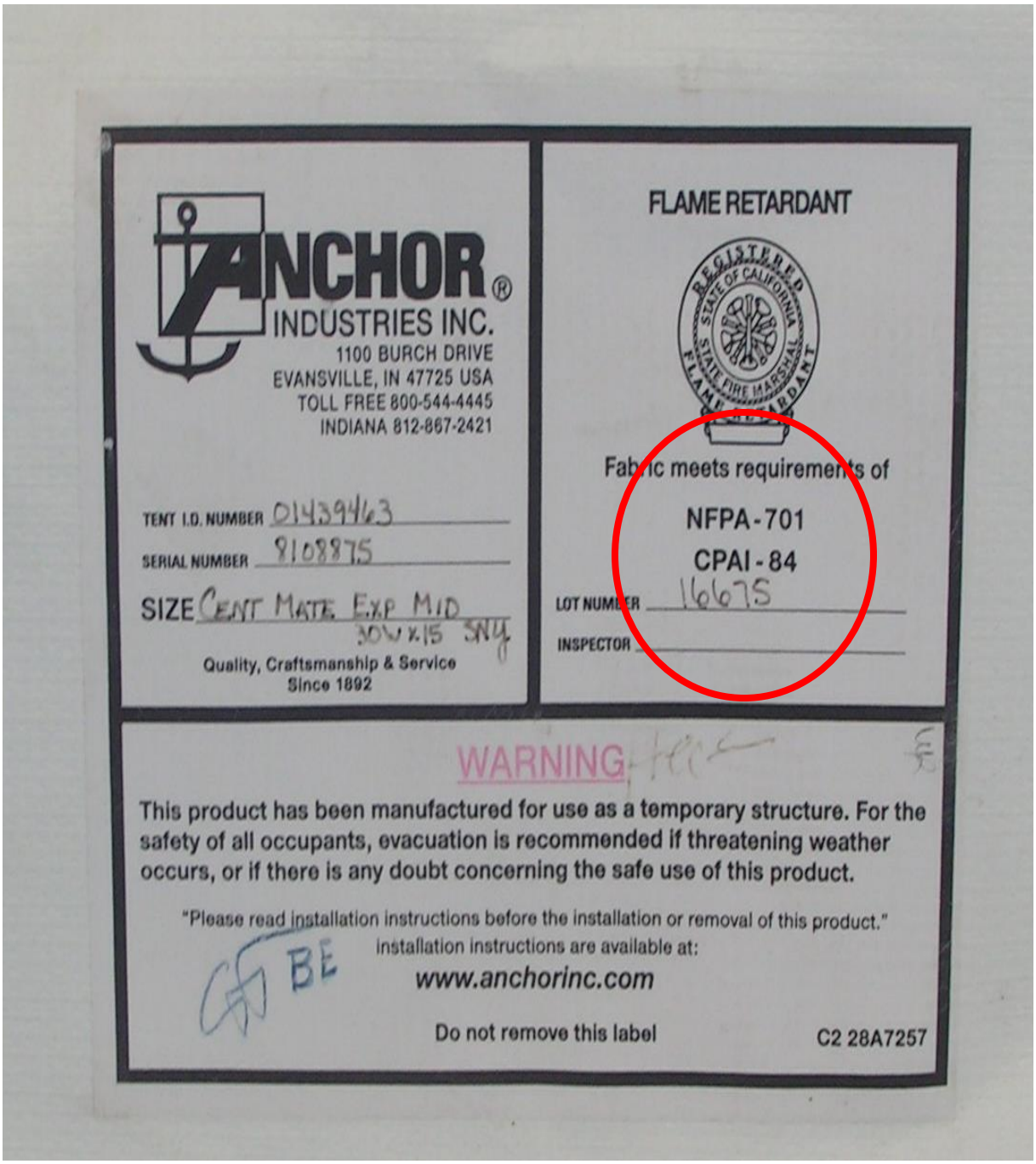
- Display of fireworks inside of buildings shall be so located to ensure constant supervision and be near the front of the store where customers can obtain when exiting the building.
- The area where fireworks are displayed or stored shall be at least 50 feet from any flammable liquid or gas, or other highly combustible material.
- The retails sales display of fireworks shall not be placed in locations that would impede egress from the building.

# Outdoor Sales

- Firework stands are not to be constructed or set up upon a highway, sidewalk, public property, or in an assembly or educational occupancy.

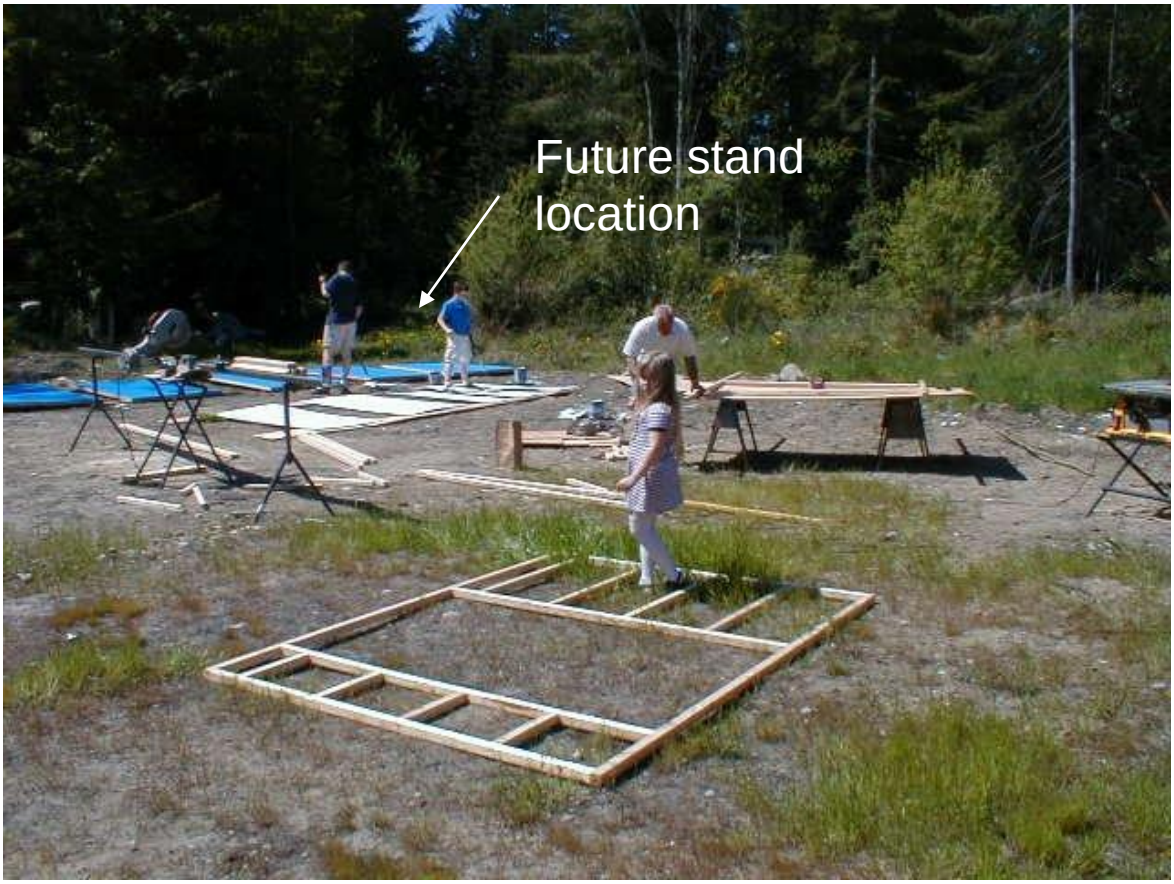
- Temporary stands; trailers and tents used for the retail sales of fireworks shall be constructed in such as way as to prevent collapse.  Tents shall be adequately roped, braced and anchored to withstand the elements of weather and to prevent against collapse.

**Tents shall have a flame resistant treatment, certified by a label that is affixed to the tent fabric indicating the date that the fabric was treated and it's compliance with NFPA 701.**



- The general public shall not be allowed to enter a temporary stand or trailer where fireworks are sold and/or handled.

- All outdoor retail sales locations for fireworks are to be kept clear of dry grass or other combustible materials for a distance of at least 25 feet in all directions.




This firework stand is being set up too close to combustible materials, i.e. trees, grass, etc.

Each stand, trailer or tent less than 200 square feet shall have a minimum three (3) foot wide unobstructed aisle running the length of the stand, trailer or tent. R710-2-6 (3)

All tents where customers enter inside shall have a minimum three (3) foot wide unobstructed aisle and two separate exits located a reasonable distance apart and so located that if one is blocked the other will be available.

The area used for the sale of fireworks in stands, trailers, or tents shall be arranged to permit the customer to only touch or handle prepackaged fireworks.

# Actual Rule Language

6.1 In addition to those requirements in R710-2-4 and 5, all aerial devices shall be packaged and displayed for sale in a manner that would provide public safety by completing one of the following:

6.1.1 Provide constant visual supervision by direct line of sight by a designated store employee where the aerial display is not more than 25’ from the designated employee’s work station.

6.1.2 Provide constant visual supervision by direct line of sight by a store employee when all of the following requirements are met:

-6.1.2.1 The aerial display shall not be more than 40’ from the designated employee’s work station.

-6.1.2.2 The aerial devices are restrained by using at least one of the following methods:

-6.1.2.2.1 The aerial devices are placed in a bin or bins that meet the definition stated in Secion 2.3 of these rules.

-6.1.2.2.2 The aerial device shall have an additional layer of packaging requiring that the additional layer of packaging be punctured or torn to gain access to the fuse cover.

6.1.3 Place the aerial devices in an area that is physically separated from the public so that the customer cannot handle the aerial devices without the assistance of an employee.

The area where fireworks are displayed or stored shall be at least 50 feet from any flammable liquid or gas, or other highly combustible material.

- If the stand or trailer is used for the overnight storage of the fireworks, it shall be equipped with suitable locking devices to prevent unauthorized entry.
- Tents shall not be used for overnight storage of fireworks unless onsite security is provided.
- No person shall be allowed to sleep **<u>inside</u>** a tent or stand which contains firework products.

- Fireworks stands, trailers or tents shall not be illuminated or heated by any device requiring an open flame or exposed heating elements.  All heaters shall be approved by the Authority Having Jurisdiction (AHJ).
- All illumination and wiring shall be installed in accordance with the temporary wiring section of the National Electrical Code and the AHJ.

- Fire Apparatus Access Available
- Fire Apparatus Access Roads Free of Obstructions
- Fire Hydrants Free of Obstructions

For information pertaining to this training material please contact the Utah State Fire Marshal's Office at 801-284-6350 or visit our web page

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