



STATE OF MARYLAND

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MEMORANDUM

TO: All Assistant State Fire Marshals, Special Deputy State Fire Marshals, Deputy State Fire Marshals, Fire Safety Inspectors and Fire Protection Engineers

FROM: Brian S. Geraci, State Fire Marshal

DATE: September 30, 2016

RE: Minimum Fire and Life Safety Guidelines for "Haunted Houses"

Purpose: To establish minimum fire and/or life safety guidelines for the use and operation of "Haunted Houses" in the State of Maryland.

Scope: The following guidelines are intended to apply to "Haunted Houses" which typically operate during the Halloween season at special community or local fund raising events. They may also apply to similar commercial activities such as carnivals and other seasonal amusement activities.

Fire and Life Safety Guidelines: These guidelines have been updated to include requirements prescribed in the NFPA 1 *Fire Code*, 2015 edition, and the NFPA 101 *Life Safety Code*, 2015 edition, both of which are incorporated by reference as part of the State Fire Prevention Code. These guidelines are necessarily general in scope and should be applied with appropriate professional judgment and common sense with respect to the overall fire and life safety situation.

By nature, many special amusement buildings are unique; thus, the fire safety concerns are unique and must be evaluated accordingly. Special attention should be given to overall egress arrangement, exit travel distances, exit signage and emergency lighting, use of flammable and combustible interior finish and construction materials, presence of flammable or combustible liquids and other hazardous materials, use and operational condition of fire detection, alarm and extinguishing equipment, use of special effects, adequately trained and supervised staff, established emergency procedures, and readily available means to notify local fire, police and emergency medical services. For added safety, it may be necessary to limit occupant load, permit occupancy by the public only under direct staff supervision, add emergency exits, or establish other special precautions to minimize a potential risk due to some unique

circumstance. In any event, every effort should be made to provide an enjoyable but fire safe environment as determined by the local fire inspection authority.

1. In general, haunted houses shall comply with the provisions of the State Fire Prevention Code and shall be classified as a "Special Amusement Building" as defined in the NFPA 101, *Life Safety Code*, 2015 edition. New facilities are addressed in Section 12.4.8 and existing facilities are addressed in Section 13.4.8 of that Code. In addition, it should be noted that all Special Amusement Buildings are required to comply with the provisions for Assembly Occupancies regardless of occupant load.
2. Every special amusement building, other than buildings or structures not exceeding 10 feet in height and not exceeding 160 square feet in horizontal projection, shall be protected throughout by an approved automatic sprinkler system. Where the special amusement building is movable or portable, the sprinkler water supply shall be permitted to be provided by an approved, temporary means. (Note: In some instances, such as barns and abandoned houses, this may present significant practical hardships for temporary occupancies. As an alternative, consideration may be given to the overall fire and life safety risk, on a case-by-case basis, to determine the need for additional safety precautions such as additional exits, limited occupant load, additional staff to perform "fire watch" duties, etc. to provide a reasonable level of safety as determined by the local fire authority.)
3. Each occupied floor shall be provided with at least two (2) approved means of egress, located as remote as possible from each other. For small facilities, the second means of egress may be an approved "means of escape" such as a window or escape hatch which leads to a safe area outside the building. Each exit and the access to reach it shall be clearly indicated and marked by directional exit signs as necessary so that every occupant can readily see the direction of escape from any point.
4. Unoccupied floors or areas not allowed to be occupied by the general public shall be appropriately secured against unauthorized entry.
5. Any doorway or passageway that is not an exit or a way to reach an exit, but may be mistaken as an exit, shall be identified with a "No Exit" sign to prevent occupant confusion with designated exits. Every effort shall be made to prevent occupants from mistakenly traveling into dead-end spaces in a fire emergency.
6. Exits shall be identified by approved permanently or temporarily wired electrically illuminated, photoluminescent, or self-luminous exit signs complying with Section 7.10 of NFPA 101. Exit signs shall be permitted to be externally illuminated by a reliable power source. The size of the letters in the word "Exit" shall be large enough to be seen but not less than 6-inches high and ¾-inches wide. The exit sign shall be of a distinctive color on a contrasting background and shall be readily apparent with respect to nearby decorations, interior finish, or other signs.
7. Floor proximity exit signs located at or near floor level shall be provided in accordance with Section 7.10.1.6 of NFPA 101. Consideration may also be given to special floor proximity egress path marking such as special internally illuminated wiring, reflective tape or other acceptable products.

8. All interior stairs and other vertical openings between floors shall be properly enclosed, sealed or otherwise protected against possible fire spread, as considered necessary in accordance with the NFPA 101.
9. Decorations, furnishings or equipment shall not obstruct, impair or otherwise detract attention from the visibility or use of an exit. Under no circumstances shall an exit be part of a mirrored wall.
10. Where the nature of the special amusement building is such that it operates in reduced lighting levels, the building shall be protected throughout by an approved automatic smoke detection system in accordance with Section 9.6 of NFPA 101. Actuation of any smoke detection system device shall sound an alarm at a constantly attended location on the premises. Actuation of the automatic sprinkler system, or any other suppression system, or actuation of a smoke detection system device shall result in the following:
 - A. Cause illumination in the means of egress to increase to that required by Section 7.8 of NFPA 101.
 - B. Stop any conflicting or confusing sounds and visuals.

(Note: As an alternative to the automatic controls required by this Section, consideration may be given to use of a master control switch under the direct supervision of an attendant at a constantly attended location that would control area illumination levels and audible and visible effects in the event of emergency or activation of smoke alarms in small and temporary facilities.)
11. Where mazes, mirrors or other layouts are designed to confuse or confound the egress path, approved directional exit marking that will become apparent to the occupant in an emergency shall be provided.
12. Emergency lighting shall be provided along all means of egress and in all assembly areas in accordance with Section 7.9 of NFPA 101. Consideration may be given to the use of flash lights or other portable battery operated hand lights under certain circumstances provided an adequate number of such devices and assigned supervisory personnel are available to provide sufficient levels of illumination for egress routes, as directed by the fire official.
13. Construction of interior partitions, cubicles, mazes and the like shall be of non-combustible or limited-combustible materials, such as gypsum wallboard on wood or metal studs, brick, concrete block, or plaster. Under no circumstances shall the extensive use of exposed plywood, wood paneling or wood frame partitions be allowed where such material would substantially contribute to the ignition, spread or intensity of a fire. Interior construction materials shall be consistent with the general type of construction of the building.
14. The flame spread rating for interior finish materials of walls and ceilings throughout the facility shall be Class "A" (flame spread 25 or less) in accordance with Section 10.2 of NFPA 101. The use of approved fire retardant coatings shall be permitted to secure the required flame spread rating of existing interior finish materials in accordance with Section 10.2.6 of NFPA 101.

15. Draperies, cardboard, sheet plastic and flammable vinyl materials used as interior finish or for display purposes shall be inherently flame resistive, self-extinguishing or otherwise fire retardant treated in an approved manner in accordance with NFPA 701, 2010 edition.
16. Cellular or foam plastic, foam rubber or similarly highly combustible "cushion" or "molded" material shall be covered or otherwise protected by gypsum wallboard, plaster or other non-combustible covering providing at least a 15 minute fire resistance rating. (Note: As an alternative, a display using such material may be located within a fire rated enclosure with approved wired glass or fire rated glass vision panels.)
17. All wiring and electrical appliances must comply with the *National Electrical Code*, NFPA 70 2014 edition. A licensed electrician shall install all wiring. Special attention should be given to assure adequate clearance is provided between electrical appliances subject to heated surfaces and nearby combustible materials. All electrical wiring and electrical appliances shall be subject to inspection by an approved electrical inspection agency.
18. Special attention shall be given to the types of construction permitted for new and existing Assembly Occupancies as prescribed by Sections 12.1.6 and 13.1.6 of NFPA 101. Where such existing construction requirements cannot be met, consideration may be given to restrict the occupant load to not more than fifty (50) persons.
19. Smoking and the use of pyrotechnic devices (fireworks) or open flame devices such as cigarette lighters, candles, canisters, kerosene lamps, kerosene heaters, flash powder, shall be strictly prohibited inside or around the outside of special amusement buildings or display areas. Signs shall be conspicuously posted to indicate prohibited use of these materials and devices.
20. Adequate emergency vehicle access to the premises shall be provided in cooperation with the local fire department. Approved fire department access and fire department access roadways shall be provided in accordance with Section 18.2 of NFPA 1.
21. An adequate number and type of portable fire extinguishers shall be provided on the premises for use by the staff. At least one 2A:10BC rated fire extinguisher shall be provided within 75 ft. travel distance to all areas. Extinguishers shall be properly mounted and located near an exit. All staff shall be familiar with the location and use of such fire extinguishers.
22. A certified crowd manager shall be present during all hours of operation. All staff shall be trained and drilled in the duties they are to perform in case of fire, panic or other emergency to effect orderly exiting. This shall include personnel specifically assigned to notify the fire department and other appropriate emergency services. Staff shall be specifically instructed to devote their immediate attention to the safe evacuation of occupants and notification of the fire department before attempting to fight a fire, in order to prevent possible injury or delayed alarm.
23. Where deemed necessary by the fire authority, an automatic smoke detection system shall be provided to warn occupants of a fire, especially in a building where a fire may not be immediately obvious to provide adequate occupant warning. Use of battery operated smoke

alarms may be considered for this purpose on a temporary basis if acceptable to the fire authority.

24. For added safety, the fire authority may limit the occupant load to a small group of people at a time to be guided through a display with proper supervision. Also, the general public shall be restricted to only those floors or areas which are provided with sufficient exits as prescribed by NFPA 101.
25. All required exits shall be kept unlocked and readily accessible at all times when the building is occupied. Egress doors shall be operable from the direction of exit travel without the use of a key, tool or special knowledge.
26. The local fire department (Chief Officer) shall be contacted and advised of the precise site location and address of the activity and the proposed dates and hours of operation so they may have the opportunity to make any appropriate pre-plan arrangements.

Effective Date: The aforementioned fire and life safety guidelines for Haunted Houses shall be effective this date and shall remain in force until cancelled or superseded by other directive from the State Fire Marshal.

Those personnel requiring further assistance or advice concerning these guidelines should contact the State Fire Marshal or Chief Fire Protection Engineer of the Office of the State Fire Marshal.