

20.1 Assembly Occupancies.

20.1.1 Application. New and existing assembly occupancies shall comply with Section 20.1 and NFPA 101.

20.1.1.1 Permits. Permits, where required, shall comply with Section 1.12.

20.1.2 Flame-Retardant Requirements.

20.1.2.1 Combustible scenery of cloth, film, vegetation (dry), and similar materials shall meet the requirements of NFPA 701, Standard Methods of Fire Tests for Flame Propagation of Textiles and Films. [101:12.4.5.11.1; 101:13.4.5.11.1]

20.1.2.2 Foamed plastics (see definition of cellular or foamed plastic in 3.3.32 of NFPA 101) shall be permitted to be used only by specific approval of the AHJ. [101:12.4.5.11.2; 101:13.4.5.11.2]

20.1.2.3 For new assembly occupancies, scenery and stage properties not separated from the audience by proscenium opening protection shall be of noncombustible materials, limited-combustible materials, or fire-retardant-treated wood. [101:12.4.5.11.3]

20.1.2.3.1 For existing assembly occupancies, scenery and stage properties on thrust stages shall be of noncombustible materials, limited-combustible materials, or fire retardant-treated wood. [101:13.4.5.11.3]

20.1.2.4 In theaters, motion picture theaters, and television stage settings, with or without horizontal projections, and in simulated caves and caverns of foamed plastic, any single fuel package shall have a heat release rate not to exceed 100 kW where tested in accordance with UL 1975, Standard for Fire Tests for Foamed Plastics Used for Decorative Purposes. [101:12.4.5.11.4]

20.1.3* Special Amusement Buildings.

20.1.3.1* General. Special amusement buildings, regardless of occupant load, shall meet the requirements for assembly occupancies in addition to the requirements of 20.1.3, unless the special amusement building is a multilevel play structure that is not more than 10 ft (3050 mm) in height and has aggregate horizontal projections not exceeding 160 ft² (15 m²). [101:12.4.7.1; 101:13.4.7.1]

20.1.3.2* Automatic Sprinklers. Every special amusement building, other than buildings or structures not exceeding 10 ft (3050 mm) in height and not exceeding 160 ft² (15 m²) in aggregate horizontal projection, shall be protected throughout by an approved, supervised automatic sprinkler system installed and maintained in accordance with Section 13.3. [101:12.4.7.2; 101:13.4.7.2]

20.1.3.3 Temporary Water Supply. Where the special amusement building required to be sprinklered by 20.1.3.2 is movable or portable, the sprinkler water supply shall be permitted to be provided by an approved temporary means. [101:12.4.7.3; 101:13.4.7.3]

20.1.3.4 Smoke Detection. 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 13.7.1.4. [101:12.4.7.4; 101:13.4.7.4]

20.1.3.5 Alarm Initiation. Actuation of any smoke detection system device shall sound an alarm at a constantly attended location on the premises. [101:12.4.7.5, 101:13.4.7.5]

20.1.3.6 Illumination. Actuation of the automatic sprinkler system, or any other suppression system, or actuation of a smoke detection system having an approved verification or cross-zoning operation capability shall provide for the following:

(1) Increase in illumination in the means of egress to that required by Section 14.12

(2) Termination of any conflicting or confusing sounds and visuals [101:12.4.7.6; 101:13.4.7.6]

20.1.3.7 Exit Marking.

20.1.3.7.1 Exit marking shall be in accordance with Section 14.14. [101:12.4.7.7.1; 101:13.4.7.7.1]

20.1.3.7.2 Floor proximity exit signs shall be provided in accordance with 14.14.1.6. [101:12.4.7.7.2; 101:13.4.7.7.2]

20.1.3.7.3* In special amusement buildings where mazes, mirrors, or other designs are used to confound the egress path, approved directional exit marking that becomes apparent in an emergency shall be provided. [101:12.4.7.7.3; 101:13.4.7.7.3]

20.1.3.8 Interior Finish. Interior wall and ceiling finish materials complying with Section 10.2 of NFPA 101 shall be Class A throughout. [101:12.4.7.8; 101:13.4.7.8]

20.1.4 Operating Features.

20.1.4.1 Means of Egress Inspection.

20.1.4.1.1 The building owner or agent shall inspect the means of egress to ensure it is maintained free of obstructions, and correct any deficiencies found, prior to each opening of the building to the public. [101:12.7.1.1; 101:13.7.1.1]

20.1.4.1.2 The building owner or agent shall prepare and maintain records of the date and time of each inspection on approved forms, listing any deficiencies found and actions taken to correct them. [101:12.7.1.2; 101:13.7.1.2]

20.1.4.2 Special Provisions for Food Service Operations.

20.1.4.2.1 All devices in connection with the preparation of food shall be installed and operated to avoid hazard to the safety of occupants. [101:12.7.2.1; 101:13.7.2.1]

20.1.4.2.2 All devices in connection with the preparation of food shall be of an approved type and shall be installed in an approved manner. [101:12.7.2.2; 101:13.7.2.2]

20.1.4.2.3 Food preparation facilities shall be protected in accordance with 11.2.3 and shall not be required to have openings protected between food preparation areas and dining areas. [101:12.7.2.3; 101:13.7.2.3]

20.1.4.2.4 Portable cooking equipment that is not flue-connected shall be permitted only as follows:

(1) Equipment fueled by small heat sources that can be readily extinguished by water, such as candles or alcohol-burning equipment, including solid alcohol, shall be permitted to be used, provided that precautions satisfactory to the AHJ are taken to prevent ignition of any combustible materials.

(2) Candles shall be permitted to be used on tables used for food service where securely supported on substantial noncombustible bases located to avoid danger of ignition of combustible materials and only where approved by the AHJ.

(3) Candle flames shall be protected.

(4) "Flaming sword" or other equipment involving open flames and flamed dishes, such as cherries jubilee or crêpe suzette, shall be permitted to be used, provided that precautions subject to the approval of the AHJ are taken.

(5)* Listed and approved LP-Gas commercial food service appliances shall be permitted to be used where in accordance with Chapter 69. [101:12.7.2.4; 101:13.7.2.4]

20.1.4.2.4.1 Permits. Permits, where required, shall comply with Section 1.12.

20.1.4.3 Open Flame Devices and Pyrotechnics. No open flame devices or pyrotechnic devices shall be used in any assembly occupancy, unless otherwise permitted by the following:

- (1) Pyrotechnic special effect devices shall be permitted to be used on stages before proximate audiences for ceremonial or religious purposes, as part of a demonstration in exhibits, or as part of a performance, provided that both of the following criteria are met:
 - (a) Precautions satisfactory to the AHJ are taken to prevent ignition of any combustible material.
 - (b) Use of the pyrotechnic device complies with Section 65.3.
- (2) Flame effects before an audience shall be permitted in accordance with Section 65.4.
- (3) Open flame devices shall be permitted to be used in the following situations, provided that precautions satisfactory to the AHJ are taken to prevent ignition of any combustible material or injury to occupants:
 - (a)* For ceremonial or religious purposes
 - (b) On stages and platforms where part of a performance
 - (c) Where candles on tables are securely supported on substantial noncombustible bases and candle flame is protected
- (4) The requirement of 20.1.4.3 shall not apply to heat-producing equipment complying with 11.2.2.
- (5) The requirement of 20.1.4.3 shall not apply to food service operations in accordance with 20.1.4.2.
- (6) Gas lights shall be permitted to be used, provided that precautions are taken, subject to the approval of the AHJ, to prevent ignition of any combustible materials. [101:12.7.3; 101:13.7.3]

20.1.4.3.1 Permits. Permits, where required, shall comply with Section 1.12.

20.1.4.4 Furnishings, Decorations, and Scenery.

20.1.4.4.1 Fabrics and films used for decorative purposes, all draperies and curtains, and similar furnishings shall be in accordance with the provisions of 20.1.4.4.2. [101:12.7.4.1; 101:13.7.4.1]

20.1.4.4.2* Where required by the applicable provisions of this Code, draperies, curtains, and other similar loosely hanging furnishings and decorations shall meet the flame propagation performance criteria contained in NFPA 701, Standard Methods of Fire Tests for Flame Propagation of Textiles and Films. [101:10.3.1]

20.1.4.4.3* Furnishings or decorations of an explosive or highly flammable character shall not be used. [101:10.3.5]

20.1.4.4.4 Fire-retardant coatings shall be maintained to retain the effectiveness of the treatment under service conditions encountered in actual use. [101:10.3.6]

20.1.4.4.5 The AHJ shall impose controls on the quantity and arrangement of combustible contents in assembly occupancies to provide an adequate level of safety to life from fire. [101:12.7.4.2; 101:13.7.4.2]

20.1.4.4.6* Exposed foamed plastic materials and unprotected materials containing foamed plastic used for decorative purposes or stage scenery shall have a heat release rate not exceeding 100 kW where tested in accordance with UL 1975, Standard for Fire Tests for Foamed Plastics Used for Decorative Purposes. [101:12.7.4.3; 101:13.7.4.3]

20.1.4.4.7 The requirement of 20.1.4.4.6 shall not apply to individual foamed plastic items and items containing foamed plastic where the foamed plastic does not exceed 1 lb (0.45 kg) in weight. [101:12.7.4.4; 101:13.7.4.4]

20.1.4.4.8 The provision of 10.3.2 of NFPA 101 for cigarette ignition resistance of newly introduced upholstered furniture and mattresses shall not apply to assembly occupancies. [101:12.7.4.5; 101:13.7.4.5]

20.1.4.5 Special Provisions for Exposition Facilities.

20.1.4.5.1 Permits. Permits, where required, shall comply with Section 1.12.

20.1.4.5.2 General. No display or exhibit shall be installed or operated to interfere in any way with access to any required exit or with the visibility of any required exit or required exit sign; nor shall any display block access to fire-fighting equipment. [101:12.7.5.1; 101:13.7.5.1]

20.1.4.5.3 Materials Not on Display. A storage room having an enclosure consisting of a smoke barrier having a fire resistance rating of 1 hour and protected by an automatic extinguishing system shall be provided for combustible materials not on display, including combustible packing crates used to ship exhibitors' supplies and products. [101:12.7.5.2; 101:13.7.5.2]

20.1.4.5.4 Exhibits.

20.1.4.5.4.1 Exhibits shall comply with 20.1.4.5.4.2 through 20.1.4.5.4.11. [101:12.7.5.3.1; 101:13.7.5.3.1]

20.1.4.5.4.2 The travel distance within the exhibit booth or exhibit enclosure to an exit access aisle shall not exceed 50 ft (15 m). [101:12.7.5.3.2; 101:13.7.5.3.2]

20.1.4.5.4.3 The upper deck of multilevel exhibits exceeding 300 ft² (28 m²) shall have not less than two remote means of egress. [101:12.7.5.3.3; 101:13.7.5.3.3]

20.1.4.5.4.4 Exhibit booths shall be constructed of the following:

- (1) Noncombustible or limited-combustible materials
- (2) Wood exceeding ¼ in. (6.3 mm) nominal
- (3) Wood that is pressure-treated, fire-retardant wood meeting the requirements of NFPA 703, Standard for Fire Retardant-Treated Wood and Fire-Retardant Coatings for Building Materials
- (4) Flame-retardant materials complying with NFPA 701
- (5) Textile wall coverings, such as carpeting and similar products used as wall or ceiling finishes, complying with the provisions of 10.2.2 and 10.2.4 of NFPA 101
- (6) Plastics limited to those that comply with 12.3.3, 13.3.3, and Section 10.2 of NFPA 101
- (7) Foamed plastics and materials containing foamed plastics having a heat release rate for any single fuel package that does not exceed 100 kW where tested in accordance with UL 1975, Standard for Fire Tests for Foamed Plastics Used for Decorative Purposes
- (8) Cardboard, honeycombed paper, and other combustible materials having a heat release rate for any single fuel package that does not exceed 150 kW where tested in accordance with UL 1975 [101:12.7.5.3.4; 101:13.7.5.3.4]

20.1.4.5.4.5 Curtains, drapes, and decorations shall comply with 20.1.4.4.2. [101:12.7.5.3.5; 101:13.7.5.3.5]

20.1.4.5.4.6 Acoustical and decorative material including, but not limited to, cotton, hay, paper, straw, moss, split bamboo, and wood chips shall be flame-retardant treated to the satisfaction of the AHJ. [101:12.7.5.3.6; 101:13.7.5.3.6]

20.1.4.5.4.6.1 Materials that cannot be treated for flame retardancy shall not be used. [101:12.7.5.3.6.1; 101:13.7.5.3.6.1]

20.1.4.5.4.6.2 Foamed plastics, and materials containing foamed plastics and used as decorative objects such as, but not limited to, mannequins, murals, and signs, shall have a heat release rate for any single fuel package that does not exceed 150 kW where tested in accordance with UL 1975. [101:12.7.5.3.6.2; 101:13.7.5.3.6.2]

20.1.4.5.4.6.3 Where the aggregate area of acoustical and decorative materials is less than 10 percent of the individual floor or wall area, such materials shall be permitted to be used subject to the approval of the AHJ. [101:12.7.5.3.6.3; 101:13.7.5.3.6.3]

20.1.4.5.4.7 The following shall be protected by automatic extinguishing systems:

- (1) Single-level exhibit booths exceeding 300 ft² (28 m²) and covered with a ceiling
- (2) Each level of multilevel exhibit booths, including the uppermost level where the uppermost level is covered with a ceiling [101:12.7.5.3.7; 101:13.7.5.3.7]

20.1.4.5.4.7.1 The requirements of 20.1.4.5.4.7 shall not apply where otherwise permitted by the following:

(1) Ceilings that are constructed of open grate design or listed dropout ceilings in accordance with NFPA 13, Standard for the Installation of Sprinkler Systems, shall not be considered ceilings within the context of 20.1.4.5.4.7.

(2) Vehicles, boats, and similar exhibited products having over 100 ft² (9.3 m²) of roofed area shall be provided with smoke detectors acceptable to the AHJ.

(3)* The requirement of 20.1.4.5.4.7(2) shall not apply where fire protection of multilevel exhibit booths is consistent with the criteria developed through a life safety evaluation of the exhibition hall in accordance with 12.4.1 or 13.4.1 of NFPA 101, subject to approval of the AHJ. [101:12.7.5.3.7.1; 101:13.7.5.3.7.1]

20.1.4.5.4.7.2 A single exhibit or group of exhibits with ceilings that do not require sprinklers shall be separated by a distance of not less than 10 ft (3050 mm) where the aggregate ceiling exceeds 300 ft² (28 m²). [101:12.7.5.3.7.2; 101:13.7.5.3.7.2]

20.1.4.5.4.7.3 The water supply and piping for the sprinkler system shall be permitted to be of an approved temporary means that is provided by a domestic water supply, a standpipe system, or a sprinkler system. [101:12.7.5.3.7.3; 101:13.7.5.3.7.3]

20.1.4.5.4.8 Open flame devices within exhibit booths shall comply with 20.1.4.3. [101:12.7.5.3.8; 101:13.7.5.3.8]

20.1.4.5.4.9 Cooking and food-warming devices in exhibit booths shall comply with 20.1.4.2 and the following:

(1) Gas-fired devices shall comply with the following:

(a) Natural gas-fired devices shall comply with 9.1.1 of NFPA 101.

(b) The requirement of 20.1.4.5.4.9(1)(a) shall not apply to compressed natural gas where permitted by the AHJ.

(c) The use of LP-Gas cylinders shall be prohibited.

(d) Nonrefillable LP-Gas cylinders shall be approved for use where permitted by the AHJ.

(2) The devices shall be isolated from the public by not less than 48 in. (1220 mm) or by a barrier between the devices and the public.

(3) Multi-well cooking equipment using combustible oils or solids shall comply with 11.2.3.

- (4) Single-well cooking equipment using combustible oils or solids shall meet the following criteria:
- (a) They shall have lids available for immediate use.
 - (b) They shall be limited to 2 ft² (0.2 m²) of cooking surface.
 - (c) They shall be placed on noncombustible surface materials.
 - (d) They shall be separated from each other by a horizontal distance of not less than 24 in. (610 mm).
 - (e) The requirement of 20.1.4.5.4.9(4)(d) shall not apply to multiple single-well cooking equipment where the aggregate cooking surface area does not exceed 2 ft² (0.2 m²).
 - (f) They shall be kept at a horizontal distance of not less than 24 in. (610 mm) from any combustible material.
- (5) A portable fire extinguisher in accordance with Section 13.6 shall be provided within the booth for each device, or an approved automatic extinguishing system shall be provided. [101:12.7.5.3.9; 101:13.7.5.3.9]
- 20.1.4.5.4.10 Combustible materials within exhibit booths shall be limited to a one-day supply. Storage of combustible materials behind the booth shall be prohibited. (See 20.1.4.4.5 and 20.1.4.5.3.) [101:12.7.5.3.10; 101:13.7.5.3.10]
- 20.1.4.5.4.11 Plans for the exposition, in an acceptable form, shall be submitted to the AHJ for approval prior to setting up any exhibit. [101:12.7.5.3.11; 101:13.7.5.3.11]
- 20.1.4.5.4.11.1 The plan shall show all details of the proposed exposition. [101:12.7.5.3.11.1; 101:13.7.5.3.11.1]
- 20.1.4.5.4.11.2 No exposition shall occupy any exposition facility without approved plans. [101:12.7.5.3.11.2; 101:13.7.5.3.11.2]
- 20.1.4.5.4.12 Vehicles. Vehicles on display within an exposition facility shall comply with 20.1.4.5.4.12.1 through 20.1.4.5.4.12.5. [101:12.7.5.4; 101:13.7.5.4]
- 20.1.4.5.4.12.1 All fuel tank openings shall be locked and sealed in an approved manner to prevent the escape of vapors; fuel tanks shall not contain in excess of one-half their capacity or contain in excess of 10 gal (38 L) of fuel, whichever is less. [101:12.7.5.4.1; 101:13.7.5.4.1]
- 20.1.4.5.4.12.2 At least one battery cable shall be removed from the batteries used to start the vehicle engine, and the disconnected battery cable shall then be taped. [101:12.7.5.4.2; 101:13.7.5.4.2]
- 20.1.4.5.4.12.3 Batteries used to power auxiliary equipment shall be permitted to be kept in service. [101:12.7.5.4.3; 101:13.7.5.4.3]
- 20.1.4.5.4.12.4 Fueling or defueling of vehicles shall be prohibited. [101:12.7.5.4.4; 101:13.7.5.4.4]
- 20.1.4.5.4.12.5 Vehicles shall not be moved during exhibit hours. [101:12.7.5.4.5; 101:13.7.5.4.5]
- 20.1.4.5.4.13 Prohibited Materials.
- 20.1.4.5.4.13.1 The following items shall be prohibited within exhibit halls:
- (1) Compressed flammable gases
 - (2) Flammable or combustible liquids
 - (3) Hazardous chemicals or materials
 - (4) Class II or greater lasers, blasting agents, and explosives [101:12.7.5.5.1; 101:13.7.5.5.1]

20.1.4.5.4.13.2 The AHJ shall be permitted to allow the limited use of any items specified in 20.1.4.5.4.13.1 under special circumstances. [101:12.7.5.5.2; 101:13.7.5.5.2]

20.1.4.6* Crowd Managers.

20.1.4.6.1 Assembly occupancies shall be provided with a minimum of one trained crowd manager or crowd manager supervisor. Where the occupant load exceeds 250, additional trained crowd managers or crowd manager supervisors shall be provided at a ratio of 1 crowd manager or crowd manager supervisor for every 250 occupants, unless otherwise permitted by the following:

(1) This requirement shall not apply to assembly occupancies used exclusively for religious worship with an occupant load not exceeding 2000.

(2) The ratio of trained crowd managers to occupants shall be permitted to be reduced where, in the opinion of the AHJ, the existence of an approved, supervised automatic sprinkler system and the nature of the event warrant. [101:12.7.6.1; 101:13.7.6.1]

20.1.4.6.2 The crowd manager shall receive approved training in crowd management techniques. [101:12.7.6.2; 101:13.7.6.2]

20.1.4.7* Fire Detail. Fire details, if deemed necessary in any assembly occupancy, shall be determined by the AHJ. [102:9.5]

20.1.4.8* Drills.

20.1.4.8.1 The employees or attendants of assembly occupancies shall be trained and drilled in the duties they are to perform in case of fire, panic, or other emergency to effect orderly exiting. [101:12.7.7.1; 101:13.7.7.1]

20.1.4.8.2 Employees or attendants of assembly occupancies shall be instructed in the proper use of portable fire extinguishers and other manual fire suppression equipment where provided. [101:12.7.7.2; 101:13.7.7.2]

20.1.4.8.3* In the following assembly occupancies, an audible announcement shall be made, or a projected image shall be shown, prior to the start of each program that notifies occupants of the location of the exits to be used in case of a fire or other emergency:

(1) Theaters

(2) Motion picture theaters

(3) Auditoriums

(4) Other similar assembly occupancies with occupant loads exceeding 300 where there are noncontinuous programs [101:12.7.7.3; 101:13.7.7.3]

20.1.4.8.4 The requirement of 20.1.4.8.3 shall not apply to assembly occupancies in schools where used for nonpublic events. [101:12.7.7.4; 101:13.7.7.4]

20.1.4.9 Smoking.

20.1.4.9.1 Smoking in assembly occupancies shall be regulated by the AHJ.

[101:12.7.8.1; 101:13.7.8.1]

20.1.4.9.2 In rooms or areas where smoking is prohibited, plainly visible signs shall be posted that read as follows:

NO SMOKING.

[101:12.7.8.2; 101:13.7.8.2]

20.1.4.9.3 No person shall smoke in prohibited areas that are so posted, unless permitted by the AHJ under both of the following conditions:

(1) Smoking shall be permitted on a stage only where it is a necessary and rehearsed part of a performance.

- (2) Smoking shall be permitted only where the smoker is a regular performing member of the cast. [101:12.7.8.3; 101:13.7.8.3]
- 20.1.4.9.4 Where smoking is permitted, suitable ashtrays or receptacles shall be provided in convenient locations. [101:12.7.8.4; 101:13.7.8.4]
- 20.1.4.10 Seating.
- 20.1.4.10.1 Secured Seating.
- 20.1.4.10.1.1 Seats in assembly occupancies accommodating more than 200 persons shall be securely fastened to the floor, except where fastened together in groups of not less than three and not exceeding seven and as permitted by 20.1.4.10.2. [101:12.7.9.1.1; 101:13.7.9.1.1]
- 20.1.4.10.1.2 All seats in balconies and galleries shall be securely fastened to the floor, except in places of religious worship. [101:12.7.9.1.2; 101:13.7.9.1.2]
- 20.1.4.10.2 Unsecured Seating.
- 20.1.4.10.2.1 Seats not secured to the floor shall be permitted in restaurants, night clubs, and other occupancies where fastening seats to the floor might be impracticable. [101:12.7.9.2.1; 101:13.7.9.2.1]
- 20.1.4.10.2.2 Unsecured seats shall be permitted, provided that, in the area used for seating, excluding such areas as dance floors and stages, there is not more than one seat for each 15 ft² (1.4 m²) of net floor area, and adequate aisles to reach exits are maintained at all times. [101:12.7.9.2.2; 101:13.7.9.2.2]
- 20.1.4.10.2.3 Seating diagrams shall be submitted for approval by the AHJ to permit an increase in occupant load per 14.8.1.3. [101:12.7.9.2.3; 101:13.7.9.2.3]
- 20.1.4.10.3 Occupant Load Posting.
- 20.1.4.10.3.1 Every room constituting an assembly occupancy and not having fixed seats shall have the occupant load of the room posted in a conspicuous place near the main exit from the room. [101:12.7.9.3.1; 101:13.7.9.3.1]
- 20.1.4.10.3.2 Approved signs shall be maintained in a legible manner by the owner or authorized agent. [101:12.7.9.3.2; 101:13.7.9.3.2]
- 20.1.4.10.3.3 Signs shall be durable and shall indicate the number of occupants permitted for each room use. [101:12.7.9.3.3; 101:13.7.9.3.3]
- 20.1.4.11 Clothing. Clothing and personal effects shall not be stored in corridors, unless otherwise permitted by the following:
- (1) For new occupancies, this requirement shall not apply to corridors protected by an approved, supervised automatic sprinkler system in accordance with Section 13.3. [101:12.7.12]
- (2) For existing occupancies, this requirement shall not apply to corridors protected by an approved, automatic sprinkler system in accordance with Section 13.3. [101:13.7.12(1)]
- (3) This requirement shall not apply to corridor areas protected by a smoke detection system in accordance with 13.7.1.4.
- (4) This requirement shall not apply to storage in metal lockers, provided that the required egress width is maintained. [101:12.7.12]
- 20.1.4.12 Projection Rooms.
- 20.1.4.12.1 Film or video projectors or spotlights utilizing light sources that produce particulate matter, or toxic gases or light sources that produce hazardous radiation,

without protective shielding shall be located within a projection room complying with 12.3.2.1.2 of NFPA 101. [101:12.4.6.3; 101:13.4.6.3]

20.1.4.12.2 Every projection room shall be of permanent construction consistent with the construction requirements for the type of building in which the projection room is located and shall comply with the following:

(1) Openings shall not be required to be protected.

(2) The room shall have a floor area of not less than 80 ft² (7.4 m²) for a single machine and not less than 40 ft² (3.7 m²) for each additional machine.

(3) Each motion picture projector, floodlight, spotlight, or similar piece of equipment shall have a clear working space of not less than 30 in. (760 mm) on each side and at its rear, but only one such space shall be required between adjacent projectors.

[101:12.4.6.4; 101:13.4.6.4]