



MONTGOMERY COUNTY EXECUTIVE REGULATION

Offices of the County Executive • 101 Monroe Street • Rockville, Maryland 20850

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| Subject Fire Safety Code – Building Construction | Number 14-24 |
| Originating Department Department of Permitting Services | Effective Date |

Department of Permitting Services
Montgomery County Regulation on:

FIRE SAFETY CODE – BUILDING CONSTRUCTION

Issued by: County Executive
COMCOR 22.00.07

Authority: Code Section 22-13 and 22-14

Supersedes: Executive Regulation 8-16

Council Review Method (2) Under Code Section 2A-15

Register Vol. 41, No. 9

Comment Deadline: September 30, 2024

Effective Date: _____

Sunset Date: None

SUMMARY:

This regulation amends Executive Regulation 8-16 and adopts and modifies the applicable editions of various National Fire Protection Association (NFPA) standards – most notably NFPA 1, The Fire Code, and NFPA 101, Life Safety Code – as adopted by the Maryland State Fire Prevention Code. These codes and the associated codes and standards incorporated by reference are adopted to set the minimum requirements to establish a reasonable level of safety from the hazards created by fire, explosion, and dangerous conditions. New buildings, new systems, or new conditions are subject to this Regulation. Existing buildings, existing systems, or existing conditions which are altered are subject to this Regulation to the extent required by the Maryland Building Fire Prevention Code. Unaltered existing building, existing systems, or existing conditions are subject to this Regulation only when an inimical or distinct hazard exists. This Regulation also incorporates the provisions of Executive Regulation 7-16, which amends NFPA standards for fire protection systems.

ADDRESS:

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STAFF CONTACTS: For further information, contact Pastora Warnick, Manager
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COMCOR 22.00.07 Fire Safety Code – Building Construction

22.00.07.01

In accordance with the procedures authorized in Chapter 22, “Fire Safety Code,” of the Montgomery County Code, as amended, this Executive Regulation applies to the safeguarding of life, property, and the public welfare from the hazards of fire and explosion arising from the improper storage, handling, or use of substances, materials, or devices and from conditions hazardous to life, property, and the public welfare in the construction, alteration, use or occupancy of buildings, structures, sheds, tents, lots or premises. Where there are differences between this regulation and Chapter 8 (Buildings – Regulations) of the Code of Montgomery County Regulations, the more restrictive provision(s) will apply.

In this regulation the term “Director” means the Director of the Department of Permitting Services and includes the Director’s designees.

The Department of Permitting Services has the authority to enforce the requirements of the Montgomery County Fire Safety Code as it pertains to new and existing buildings, facilities, elements, structures, and conditions.

New buildings, new systems, or new conditions are subject to this regulation. Existing buildings, existing systems, or existing conditions which are altered are subject to this regulation to the extent required by the Maryland Building Rehabilitation Code, the Montgomery County Fire Safety Code, and the Maryland State Fire Prevention Code. Unaltered existing buildings, existing systems, or existing conditions are not subject to this regulation [only when an] where no inimical or distinct hazard exists.

This regulation amends and replaces Executive Regulation Nos. [20-13] 8-16 and 7-16.

22.00.07.02

Unless otherwise noted, all references to the National Fire Codes and Standards adopted in this regulation are to those codes, standards, recommended practices and manuals in the National Fire Codes, published by the National Fire Protection Association, 1 Batterymarch Park, Quincy, Massachusetts [02269] 02169. The references to these National Fire Codes and Standards are set forth in Section 22-14 of the Montgomery County Code, as amended.

Terms used in this regulation that are defined in the state-adopted consensus codes have the meanings used in the consensus code.



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For the purpose of this regulation, the Director is the designated Authority Having Jurisdiction (AHJ) in NFPA 1.

In accordance with the procedures authorized in Chapter 22, “Fire Safety Code”, of the Montgomery County Code, as amended, this Executive Regulation also applies to the design, installation, alteration, and maintenance of fire protection systems in buildings or structures. Where there are differences between this regulation and Chapter 8 (Buildings – Regulations) of the Code of Montgomery County Regulations, the more restrictive provision(s) will apply. In this regulation the term “Fire Chief” means the Fire Chief of the Montgomery County Fire and Rescue Service and includes the Fire Chief’s designees. The Department of Permitting Services has been delegated authority by the Fire Chief to enforce the requirements of the Montgomery County Fire Safety Code as it pertains to new and existing buildings, facilities, elements, structures, and conditions.

22.00.07.03

Where the Public Safety Article, Annotated Code of Maryland, or the Montgomery County Code requires a permit, license, or certificate of approval be obtained, it must be obtained from the Department of Permitting Services, the State Fire Marshal, or other authority deemed appropriate by the County. Terms used in this regulation which are defined in the state-adopted consensus codes have the definitions as contained in consensus codes. For the purposes of this regulation, the Director is the designated Authority Having Jurisdiction (AHJ) as defined by NFPA 1.

[22.00.07.03] 22.00.07.04

Standards Adopted. The following standards published by the National Fire Protection Association (NFPA), 1 Batterymarch Park, Quincy, Massachusetts [02269] 02169, are incorporated in these regulations except as expressly amended. These codes, and the associated codes and standards incorporated by reference, are adopted to set the minimum requirements to establish a reasonable level of safety from the hazards created by fire, explosion, and dangerous conditions. The references to these National Fire Codes and Standards are set forth in Section 22-14 of the Montgomery County Code, as amended. The dates or editions of the individual codes and standards are as listed in this section.

| <u>NPFA No.</u> | <u>Code or Standard</u> |
|-----------------|--|
| 1 | Fire Code – [2015] <u>2021</u> edition |
| <u>13</u> | <u>Standard for the Installation of Sprinkler Systems – 2019 edition</u> |



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| <u>13D</u> | <u>Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes – 2019 edition</u> |
| <u>13R</u> | <u>Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies – 2019 edition</u> |
| <u>14</u> | <u>Standard for the Installation of Standpipe and Hose Systems – 2019 edition</u> |
| <u>20</u> | <u>Standard for the Installation of Stationary Pumps for Fire Protection – 2019 edition</u> |
| <u>72</u> | <u>National Fire Alarm and Signaling Code – 2019 edition</u> |
| <u>80</u> | <u>Standard for Fire Doors and Other Opening Protectives – 2019 edition</u> |
| <u>92</u> | <u>Standard for Smoke Control Systems – 2021 edition</u> |
| <u>96</u> | <u>Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations – 2021 edition</u> |
| 101 | Life Safety Code – [2015] <u>2021</u> edition |
| [130 | Standard for Fixed Guideway Transit and Passenger Rail Systems – 2014 edition] |
| [214 | Standard on Water Cooling Towers – 2011 edition] |
| 720 | Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment - 2015 edition |
| 850 | Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations – [2015] <u>2020</u> edition |
| <u>1221</u> | <u>Standard for the Installation, Maintenance, and Use of Emergency Services Communication Systems – 2019 edition</u> |



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1225

Standard for Emergency Services Communications – 2022 edition

[22.00.07.04] 22.00.07.05

The Director must review this regulation and propose amendments within six months after the date the State Fire Prevention Commission adopts new amendments to NFPA 1 and NFPA 101 into the State Fire Prevention Code.

[22.00.07.05] 22.00.07.06

Amend NFPA 1, [paragraph] Subsection 1.7.12.2 to add a second sentence “The AHJ is authorized to require plans to bear the stamp of a registered design professional.”

[22.00.07.06] 22.00.07.07

Delete NFPA 1, Section 1.10.

[22.00.07.07] 22.00.07.08

Delete NFPA 1, Subsection 1.11.3.

[22.00.07.08] 22.00.07.09

Amend NFPA 1, Subsection 1.12.1, to add [a new subsection] the following Subsection 1.12.1.1 [as follows]:

1.12.1.1 Permits, certificates, notices, approvals or orders required by this code [are] must be governed by the policies and procedures of the AHJ.

[22.00.07.09] 22.00.07.10

Amend NFPA 1, [Paragraph] Subsection 1.12.6.13 to replace “Permits shall” with “Permits may”.

[22.00.07.10] 22.00.07.11

Amend NFPA 1, Subsection 1.12.8 to replace “shall” with “may”.

[22.00.07.11] 22.00.07.12



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Amend NFPA 1, Subsection 1.13.2 to delete “Mandatory.” [And] and replace [with] “shall” with “may”.

[22.00.07.12] 22.00.07.13

Delete NFPA 1, [Paragraphs] Subsections 1.13.12.4 and [1.16.4.2] 1.16.4.3.

[22.00.07.13]

Amend NFPA 1, Section 2.2 to delete the referenced publication NFPA 5000 Building Construction and Safety Code, 2015 edition. Wherever NFPA 5000 is referenced, other than for extracted text, substitute the building code adopted by Montgomery County. Delete the reference publication NFPA 150 Standard on Fire and Life Safety in Animal Housing Facilities, 2013 edition. Add the referenced publication NFPA 1124 Code for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles, 2006 edition.]

[22.00.07.14]

Amend NFPA 1, Section 3.3 to add the following Subsection:

3.3.278 Fireworks. Any composition or device for the purpose of producing a visible or audible effect for entertainment purposes by combustion, deflagration or detonation, and that meets the definition of Consumer Fireworks or Display Fireworks as set forth in NFPA 1124 Code for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles, 2006 edition, and as referenced in Public Safety Article §10-101, Annotated Code of Maryland.]

22.00.07.14

Amend NFPA 1, Subsections 2.1.1, 2.1.1.1, and 2.1.1.2 to replace “Compliance” with “Where permitted by the AHJ, compliance”.

22.00.07.15

Amend NFPA 1, Section 2.2 to delete the referenced publication NFPA 5000 Building Construction and Safety Code, 2021 edition. Wherever NFPA 5000 is referenced, other than for extracted text, substitute the building code adopted by the AHJ. Delete the referenced publication NFPA 150 Standard on Fire and Life Safety in Animal Housing Facilities, 2019 edition.

[22.00.07.15] 22.00.07.16



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Amend NFPA 1, Subsection 3.3.14 to add the following [paragraph] Subsection:

3.3.14.13 Consumer Fireworks Retail Sales Area. The portion of a consumer fireworks retail sales facility or store, including the immediately adjacent aisles, where consumer fireworks are located for the purpose of retail display and sale to the public.

[22.00.07.16

Amend NFPA 1, section 3.3.183.6 to delete phrase “more than 3 but”.]

[22.00.07.17

Amend NFPA 1, Section 3.3.183.7 and Section 6.1.4.1 to delete phrase “four or more”.]

[22.00.07.18

Amend NFPA 1, Section 3.3.183.22 to replace the word “three” with “five” and delete the phrase “, if any, accommodated in rented rooms.”]

[22.00.07.19

Amend NFPA 1, Section 3.3.183.25 and Section 6.1.9.1 to replace the word “four” with “six”.]

22.00.07.17

Amend NFPA 1, Subsections as follows:

- (1) 3.3.108 to delete the wording and replace with the following: Existing. That which is already in existence greater than one calendar year after being approved, accepted, or commissioned by the authority having jurisdiction;
- (2) 3.3.136 and Subsection 3.3.136.1 to add “and as referenced in Public Safety Article, § 10-101, Annotated Code of Maryland;
- (3) amend Subsection 3.3.199.6 to delete “more than 3 but”;
- (4) amend Subsections 3.3.199.7 and 6.1.4.1 to delete “four or more”;



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- (5) amend Subsections 3.3.199.11, 3.3.199.16, 3.3.199.24, 3.3.199.28, 6.1.5.1, and 6.1.9.1 to replace “four” with “six”; and
- (6) amend Subsections 3.3.199.25, 3.3.199.25.1, and 6.1.8.1.1 to replace “three” with “five” and delete “, if any, accommodated in rented rooms”.

[22.00.07.20] 22.00.07.18

Amend NFPA 1, [Section] Subsection 4.5.8.1 to delete the phrase “for compliance with the provisions of this Code”.

[22.00.07.21] 22.00.07.19

Amend NFPA 1, [Section] Subsection 4.5.8.3 to delete the phrase “by the Code”.

[22.00.07.22] 22.00.07.20

Amend NFPA 1, [Section] Subsection 10.1.2 to add [the phrase] “except as amended by COMAR 29.06.01.07, COMAR 29.06.01.08, and COMAR 29.06.01.09”.

22.00.07.21

Amend NFPA 1, Subsection 10.2.7.1 to delete the existing wording and replace it with “Fire prevention inspections on existing premises may occur at a frequency as determined by the authority having jurisdiction. Recommended minimum inspection frequencies are contained in Table 10.2.7.1.”

[22.00.07.23] 22.00.07.22

Amend NFPA 1, [Sections] Subsections 10.4.1 and 10.4.2 to replace “AHJ” with “AHJ or incident commander”.

[22.00.07.24] 22.00.07.23

Amend NFPA 1, [Section] Subsection 10.10.6.1 to replace [“grill” with “gas-fired, charcoal or electric grill” and] “10 [feet] ft (3 [meters] m)” with “20 [feet] ft (6.1 [meters] m)”.

22.00.07.24



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Amend NFPA 1, Subsection 10.10.6.3 to add the following after the phrase “must be permitted.”: If the equipment is installed on any deck or overhanging portion, atop the roof, or within 20 ft (6.1 m) of a structure, it must also comply with all of the following:

- (1) the building must be equipped with an approved automatic sprinkler system. A standpipe with a hose valve outlet at the level of the proposed feature area must be available;
- (2) the equipment cannot be installed beneath any overhanging portion of the building;
- (3) canopies, trellis, or similar coverings for weather protection must be at least four (4) ft above the cooking surface and constructed of non-combustible materials;
- (4) portable cooking equipment is not permitted;
- (5) cooking with solid fuels is not permitted;
- (6) any furnishings or installations within ten (10) ft of the equipment must be non-combustible, including the flooring or ground cover;
- (7) a manual shut-off must be installed in a readily accessible location within six (6) ft of the appliance. The shut-off will stop the supply of fuel, or in the case of an electrical appliance, disconnect the power supply, in case of an emergency;
- (8) the equipment must have a timer not to exceed one hour which will automatically shut off the equipment in accordance with item g.; and
- (9) the cooking surface cannot be located within ten (10) ft of a property line or any operable openings into a building.

[22.00.07.25

Amend NFPA 1, Section 10.10.6.2 to replace “grill” with “gas-fired, charcoal or electric grill”.]

[22.00.07.26

Delete NFPA 1, Section 10.10.6.3.]

[22.00.07.27] 22.00.07.25



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Amend NFPA 1, Subsection 10.11.1 [to add the following Subparagraph and Paragraph] as follows:

[10.11.1.1.1 Subject to the approval of the AHJ, individual suites within structures and rear exterior entrances and/or access from service corridors must be clearly identified.

10.11.1.4 Where required by the AHJ, symbols in compliance with NFPA 170, 2012 edition, Standard for Fire Safety and Emergency Symbols, must be used.]

- (1) amend 10.11.1 to replace “address numbers” with “premises identification”;
- (2) add Subsection 10.11.1.1 that reads, “Subject to the approval of the AHJ, individual suites within structures and rear entrances and/or access from service corridors must be clearly identified;
- (3) amend Subsections 10.11.1.2, 10.11.1.6, 10.11.1.7 and 10.11.1.8 to replace “Address numbers” with “Premises identification”;
- (4) amend Subsection 10.11.1.4 to delete existing wording and replace with “Where required by the AHJ, the assignment of addresses to buildings must be in accordance with an approved method.”;
- (5) delete Subsection 10.11.1.5; and
- (6) add 10.11.1.9 that reads, “Where required by the AHJ, symbols in compliance with NFPA 170, Standard for Fire Safety and Emergency Symbols, must be used.”

[22.00.07.28

Amend NFPA 1, Sections 10.11.1.2 and 10.11.1.3 to replace “address numbers” with “premises identification”.]

[22.00.07.29

Amend NFPA 1, Section 10.13.1 to add the following new paragraph

10.13.1.2 The AHJ must:

- (1) Approve the placement of a natural cut or balled tree;



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- (2) Limit the number of natural cut or balled trees displayed; and
- (3) Order the removal of any tree if the tree poses a hazard to life or safety.]

[22.00.07.30

Amend Paragraph 10.13.1.1 to replace “Christmas” with “Unless otherwise approved by the AHJ, Christmas”.]

[22.00.07.31

Amend NFPA 1, Paragraph 10.13.3.1 to replace “by the manufacturer” with “by a tested laboratory recognized by the Office of the State Fire Marshal”.]

[22.00.07.32

Amend NFPA 1, Section 10.13.9.1 to replace “1/2 inch (13 mm)” with “2 inches (50 mm)” and add the following sentence: “A natural cut tree must not exceed 10 feet (3 m) in height, excluding the tree stand.”]

[22.00.07.33

Amend NFPA 1, Section 10.14.2 to insert the phrase “, but not limited to” after the words “such as”.]

[22.00.07.34] 22.00.07.26

Amend NFPA 1, [Section 10.14.11.2.6] Subsection 10.14.12.2.6 to replace “any vehicles” with “any vehicles, buildings.”

22.00.07.27

Amend NFPA 1, Subsection 10.15.5.1 to replace “Portable” with “Unless otherwise approved by the AHJ, portable”.

22.00.07.28

Amend NFPA 1, Subsection A10.15.5.1 to add the following: For the purposes of reducing the distances between the operation and refueling of portable and vehicle-mounted generators and



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any building or enclosure opening, including windows, doors, and air intakes, one or more of the following conditions may be considered:

- (1) nature of the occupancy of the building or enclosure;
- (2) expected duration of generator use;
- (3) use of certified low CO emission generators;
- (4) actual available distance between the generator and building or enclosure openings;
- (5) installation of approved CO detection within the building or enclosure;
- (6) openness of building or enclosure perimeter walls and ceiling; or
- (7) physical barriers or other means to deflect generator exhaust from building or enclosure openings.

[22.00.07.35]

Amend NFPA 1, Section 10.14.11.3.1 add the following at the end of the section “or within the fuel break described in Section 10.14.11.2.6.”]

[22.00.07.36] 22.00.07.29

Amend NFPA 1, Section [10.15] 10.16 to add [a new] the following [subsection] Subsection [10.15.6] 10.16.6 as follows:

[10.15.6] 10.16.6 The AHJ [may] has the authority to require that outdoor storage of any combustible material be enclosed by an approved fence or other protective enclosure to prevent unauthorized access.

[22.00.07.37] 22.00.07.30

Amend NFPA 1, [Section] Subsection [10.15.1] 10.16.1 to replace “10 ft (3m)” with “15 ft (4.6m)” and “property line” with “property line, building, or adjacent pile of combustible material”; and add the following: The AHJ may increase the separation distance where the AHJ determines that [if] a higher hazard to the adjoining property exists.



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[22.00.07.38] 22.00.07.31

Amend NFPA 1, [Section 10.15.5] Subsection 10.16.5 to add the phrase ‘and 10,000 ft² in area’.

[22.00.07.39] 22.00.07.32

Amend NFPA 1, Subsection [10.18.7] 10.19.7 to replace “repaired” with “repaired on any balcony, under any overhanging portion, or”.

[22.00.07.40] 22.00.07.33

Amend NFPA 1, Section 11.1 to add the following [subsection] Subsection:

11.1.9 Clearance. A clear space of not less than 30 (762 mm) in width, 36 inches (914 mm) in depth and 78 inches (1981 mm) in height must be provided in front of electrical service equipment. Where the electrical service equipment is wider than 30 inches (762 mm), the clear space must not be less than the width of the equipment. No storage of any materials must be located within the designated clear space. Exception: Where other specialized dimensions are required or permitted by NFPA 70.

22.00.07.34

Amend NFPA 1, Subsection 11.1.5.6 to delete existing wording and replace with the following: Extension cords cannot be used as a substitute for permanent wiring.

[22.00.07.41] 22.00.07.35

[Add NFPA 1, Section] Amend NFPA 1, to add Subsections 11.1.7.2.1 and 11.1.7.2.2 to read:

11.1.7.2.1 In new buildings, excluding one- and two-family dwellings, a shunt trip to disconnect the electrical service to the building must be provided as follows:

[(a)](1) [In] in the emergency command center, where an emergency command center is in the building[.] ;

[(b)](2) [At] at the fire alarm annunciator, where there is a fire alarm annunciator and where there is no emergency command center[.] ; and



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~~[(c)](3)~~ [In] in an appropriately sized and weatherproof fire department access box on the address side of the building, where there is no emergency command center or fire alarm annunciator.

11.1.7.2.2 In existing buildings, excluding one- and two-family dwellings, where there are significant upgrades to the building electrical service, such as modifying or replacing the switchgear, a disconnecting means must be provided as for new installations.

~~[22.00.07.42]~~ 22.00.07.36

Amend NFPA 1, [Paragraph] Subsection 11.1.7.3 to add the following [subparagraph] Subsection:

11.1.7.3.2 Doors to electrical control panel rooms must be marked with a plainly visible and legible sign stating ELECTRICAL ROOM or similar approved wording in contrasting letters not less than 1 inch (25 mm) high and not less than ¼ inch (6.4 mm) in stroke width.

~~[22.00.07.43]~~ 22.00.07.37

Amend NFPA 1, Subsection [11.3.6.2] 11.3.6.1 to add [a second] the following sentence: [All new keys] Keys for new elevators must be cut to a uniform key code to comply with the Maryland State Elevator Code.

~~[22.00.07.44]~~ 22.00.07.38

Amend NFPA 1, [subsection] Subsection 11.9.1 to replace “approved by the fire department” with “approved by the AHJ”.

~~[22.00.07.45]~~ 22.00.07.39

Amend NFPA 1, [Section] Subsection 11.9.1 to add the following [subsections] Subsections:

11.9.1.1 In new installations, the emergency command center must have a door directly to the exterior of the building on the address side. The exterior door to the emergency command center must be within 50 feet, measured along the path of travel, of a fire department access road. A fire department access box must be provided within six [6] (6) feet of the door to the emergency command center. [The exterior door to the emergency command center must be identified on the exterior face as the emergency command center in a manner acceptable to the Director.]



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11.9.1.2 [In new installations, the emergency command center must also comply with the provisions of Section 911 of the International Building Code, 2015 edition.] The exterior door to the emergency command center must have an all-weather sign with raised letters on a contrasting background, not less than 1 inch in size reading: EMERGENCY COMMAND CENTER.

[22.00.07.46] 22.00.07.40

Amend NFPA 1, [Section] Subsection 11.9.5(8) to read as follows:

- (8) Fire pump status indicators and remote starting.

22.00.07.41

Amend NFPA 1, Subsection 11.10.11.1 to replace “conducted as follows:” with “conducted as follows unless otherwise directed by the AHJ:”.

[22.00.07.47] 22.00.07.42

Amend NFPA 1, Subsection 11.12.1 to add the following [section] Subsection:

11.12.1.1 The provisions of this section do not apply to detached parking shade structures, carports, solar trellises and similar structures.

22.00.07.43

Amend NFPA 1, Subsection 11.12.2.1.1 to replace the word “Buildings” with the phrase “New and existing buildings other than one- and two-family dwellings”.

22.00.07.44

Amend NFPA 1, to add Subsection 11.12.3.3.1 that reads as follows: Where approved by the Director, a performance-based, alternative method of compliance may be permitted in accordance with NFPA 1, Section 1.4.

22.00.07.45

Amend NFPA 1, Subsection 12.6.9.1 to add the following new Subsection:



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12.6.9.1.2 The AHJ must:

- (1) approve the placement of a natural cut or balled tree;
- (2) limit the number of natural cut or balled trees displayed; and
- (3) order the removal of any tree if the tree poses a hazard to life or safety.

22.00.07.46

Amend NFPA 1, Subsection 12.6.9.1.1 to replace “Christmas” with “Unless otherwise approved by the AHJ, Christmas”.

22.00.07.47

Amend NFPA 1, Subsection 12.6.9.5 to add the following Subsection:

12.6.9.5.3 Combustible artificial decorative vegetation must be tested by a laboratory recognized by the Office of the State Fire Marshal.

22.00.07.48

Amend NFPA 1, Subsection 12.6.9.6.1 to replace “1/2 in. (13 mm)” with “2 in. (50 mm)” and add the following sentence: “A natural cut tree must not exceed 10 ft. (3 m) in height, excluding the tree stand.”

22.00.07.49

Amend NFPA 1, Section 13.1 to add the following Subsection:

13.1.14 Appearance of Equipment. The AHJ is permitted to prohibit any device that has the physical appearance of a life safety or fire protection function but does not perform that life safety or fire protection function.

22.00.07.50

Amend NFPA 1, Subsection 13.1.3.1 to replace “by Chapters 11 through 43” with “by the AHJ or Chapters 11 through 43”.

22.00.07.51



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Amend NFPA 1, Subsection 13.1.3.2 to replace “by 9.3.5” with “by the AHJ or 9.3.5”.

22.00.07.52

Amend NFPA 1, Subsection 13.2.1 by adding the following Subsection:

13.2.1.3 On existing buildings, wherever the fire department connection is not visible to approaching fire apparatus, an approved sign must be mounted at the street front or on the side of the building. Such sign must have the letters “FDC” not less than six (6) inches high and words in letters not less than two (2) inches high or an arrow to indicate the location of the connection. Approved existing signs are permitted to remain in place.

[22.00.07.48] 22.00.07.53

Amend NFPA 1, [Section] Subsection 13.2.2.2 to [delete the existing wording and replace with the following] add new item (6) that reads:

[All new buildings must be equipped with an approved standpipe system where required by the building code adopted by Montgomery County.] Where the building code adopted by Montgomery County requires a Class III system [is required], a Class I system is permitted.

[22.00.07.49] 22.00.07.54

Amend NFPA 1, [Section] Subsection 13.3.1.2 to add the following [subsection] Subsection:

13.3.1.2.1 For new ceiling installations, drop-out ceilings as referenced in NFPA 13, [Subsection 8.15.15] Subsections 9.2.16 and 9.3.11 are prohibited.

[22.00.07.50] 22.00.07.55

Amend NFPA 1, [Section] Subsection 13.3.1.8.2.1 to read: “Where supervised automatic sprinkler protection is required by another section of this Code, waterflow alarms must be automatically transmitted to a listed central station.”

[22.00.07.51]

Amend NFPA 1, Section 13.3.2.1 to add the following subsection:



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13.3.2.1.1 All new buildings must be equipped with automatic sprinkler system or other automatic fire suppression system where required by Section 903 of the building code adopted by Montgomery County. Exception: Day care facilities that comply with the sprinkler requirements of the NFPA 101 Life Safety Code 2015 edition.]

[22.00.07.52]

Amend NFPA 1, Section 13.3.2.26.2 by adding at the beginning of the section the phrase “Except as modified by 13.3.2.26.2,” and adding a new subsection 13.3.2.26.2.4 which reads:

13.3.2.26.2.4 The requirement of 13.3.2.26.2 does not apply to existing apartment occupancy high-rise buildings.]

22.00.07.56

Amend NFPA 1, Subsection 13.3.2.26.5 to delete existing wording and replace with the following: An automatic sprinkler system must be installed throughout all mini-storage building fire areas greater than 2500 ft² (232 m²) and where any of the individual storage units are separated by less than a 1-hour fire resistance-rated barrier. Fire areas are defined by approved fire barriers having a fire resistance rating of not less than 3 hours.

[22.00.07.53] 22.00.07.57

Amend NFPA 1, [Sections] Subsections 13.3.3.1 and 13.3.3.2 to delete the phrase “installed in accordance with this Code.”

[22.00.07.54] 22.00.07.58

Amend NFPA 1, [Section] Subsection 13.4.1 to add the following [subsection] Subsection:

13.4.1.1.1 A fire pump component, including the pump, driver, or controller, must [not] be permitted to be installed in below-ground vaults or pits unless otherwise approved by the AHJ.

[22.00.07.55] 22.00.07.59

Amend NFPA 1, [Section] Subsection 13.6.1.2 to add the phrase “, unless otherwise permitted by the AHJ.”

[22.00.07.56] 22.00.07.60



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Amend NFPA 1, [Section] Subsections 13.6.4.1.2.1 and 13.6.4.1.2.3 to replace “certified” with “certified or licensed as required by the AHJ”.

[22.00.07.57] 22.00.07.61

Delete [Sub-subparagraphs] Subsections 13.6.4.1.2.1.1, [13.6.4.1.2.1.2, 13.6.4.1.2.1.3] 13.6.4.1.2.1.4, and 13.6.4.1.2.1.5[, 13.6.4.1.2.1.6, 13.6.4.1.2.2].

[22.00.07.58] 22.00.07.62

Amend NFPA 1, [Section] Subsection 13.7.1.7.6 as follows:

[(a)](1) Add the following sentence to the end of the section: “This [paragraph] Subsection does not permit the omission of manual fire alarm boxes in accordance with other provisions of this [subsection] Subsection unless specifically permitted by Chapters 11 through 43.”

[(b)](2) Add two new [subsections] Subsections as follows:

13.7.1.7.6.1 Zoned fire alarm systems must have manual pull stations located at the entrance to each exit enclosure and at the main exit.

13.7.1.7.6.2 When a fire alarm system is required in a multiple tenant building, for each tenant exiting directly to the exterior of the building, a manual pull station and approved occupant notification must be located at each required or marked exit.

[22.00.07.59] 22.00.07.63

Amend NFPA 1, [Section] Subsection 13.7.1.7.9 to add the following sentence: “In environments not suitable for smoke detectors, alternate means of detection must be provided and must comply with NFPA 72 Section 10.3 ([2013] 2019 edition).”

[22.00.07.60] 22.00.07.64

Amend NFPA 1, [Section] Subsection 13.7.1.9.2.1, delete the phrase “lobby,”.

[22.00.07.61] 22.00.07.65



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Amend NFPA 1, [Section] Subsection 13.7.1.9.4 by [adding the following at the end of the sentence: “only when the initial fire alarm signal is automatically transmitted without delay] deleting the wording after “without delay” and replacing it with: to a listed central station in accordance with 13.7.1.10.”

[22.00.07.62] 22.00.07.66

Amend NFPA 1, [Section 13.7.1.9.7] Subsection 13.7.1.9.8 by adding a second sentence to read: “Required audibility must be met with all intervening doors (between any space and the audible devices) closed.”

[22.00.07.63] 22.00.07.67

Amend NFPA 1, [Section 13.7.1.9.9] Subsection 13.7.1.9.10 [by adding] as follows:

- (1) amend 13.7.1.9.10, 13.7.1.9.10.1, and 13.7.1.9.10.2 to delete the word “live”;
- (2) amend Subsection 13.7.1.9.10.2(1), delete the phrase, “, either live or recorded,”;
and
- (3) [Where] where voice type occupant notification is used, automatic pre-recorded messages must be used complying with Section 13.7. Live voice as the sole notification method is prohibited – except that previously “approved” live voice systems are permitted to remain.

[22.00.07.64] 22.00.07.68

Amend NFPA 1, [Section] Subsection 13.7.1.10.2 by deleting the list of four items and replace the phrase “via any of the following means acceptable to the AHJ” with “by a listed central station fire alarm system”.

[22.00.07.65] 22.00.07.69

Delete NFPA 1, [Section] Subsections 13.7.1.10.3, 13.7.1.13.9.4, 13.7.1.13.9.5, 13.7.2.1.4.2(3), 13.7.2.3.4.2(5), 13.7.2.13.2.3(3), 13.7.2.14.6.3(3), 13.7.2.15.6.3(3), 13.7.2.16.6.3(3), 13.7.2.17.6.3(3), 13.7.2.18.5.4, 13.7.2.19.4.3(3), and 13.7.2.20.9.3(3).

[22.00.07.66] 22.00.07.70



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Amend NFPA 1, [Section] Subsection 13.7.1.11.2(3) by adding the following sentence: “Manual fire alarm initiation must not activate floor or zone-dependent smoke control systems.”

[22.00.07.67]

Delete NFPA 1, Section 13.7.1.13.9.5.]

22.00.07.71

Amend NFPA 1, Subsections 13.7.2.3.1.2 and 13.7.2.4.1.2 to add Subsections 13.7.2.3.1.2.1 and 13.7.2.4.1.2.1 that reads: For the purposes of this Section, each industrialized building, which is an independently certified unit serving as a portable or temporary classroom, must be considered a single building regardless of the number of units in the cluster sharing an egress system.

[22.00.07.68] 22.00.07.72

Amend NFPA 1, [Sections] Subsections 13.7.2.5.5 and 13.7.2.6.5 to add the following exception:

Exception: Day-care occupancies located in school facilities where enrollment is limited to children capable of [self preservation] self-preservation, where no sleeping facilities are provided, and the school is provided with approved full automatic sprinkler protection.

[22.00.07.69]

Delete NFPA 1, Sections 13.7.2.16.5.2 and 13.7.2.18.5.2.]

22.00.07.73

Amend NFPA 1, Subsection 13.7.2.5.6.4 to add the following: For compliance with NFPA 101, Subsection 43.7.2.1(2), approved battery-powered smoke alarms, rather than house electrical service-powered smoke alarms must be permitted where the facility has testing, maintenance, and smoke alarm replacement programs that ensure reliability of power to the smoke alarms.

22.00.07.74

Amend NFPA 1, Subsection 13.7.2.6.6.5 to delete “existing” and replace “battery” with “smoke alarm”.

[22.00.07.70] 22.00.07.75



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Amend NFPA 1, [Section] Subsection 13.7.2.13.1.3 to add at the end of the sentence: “...only if the existing smoke alarms [are battery operated] comply with Public Safety Article § 9-109, Annotated Code of Maryland.”

[22.00.07.71] 22.00.07.76

Amend NFPA 1, [Section 13.7.2.21.3.5] Subsections 13.7.2.21.4.5 and [Section] 13.7.2.22.7.1 by adding at the end of the sentence, “...and have secondary battery back-up power.”

22.00.07.77

Amend NFPA 1, Subsection 13.7.2.22.8.1 to delete “13.7.2.22.8.2 and”. Delete Subsection 13.7.2.22.8.2.

[22.00.07.72] 22.00.07.78

Amend NFPA 1, [Section] Subsections 13.7.2.23.1 and [Section] 13.7.2.24.1 to delete the existing wording and replace [read] as follows: Class A mercantile occupancies and multiple story Class B mercantile occupancies must have a fire alarm system in accordance with Section 13.7 and NFPA 101.

[22.00.07.73] 22.00.07.79

Amend NFPA 1, [Section] Subsections 13.7.2.28.1.2 and 13.7.2.28.1.3 to replace [the phrase] “Storage occupancies” with “Storage occupancies less than three stories.”

[22.00.07.74] 22.00.07.80

Amend NFPA 1, [Section 13.7.2.29.2.1] Subsection 13.7.2.29.3.1 by adding a new [subsection 13.7.2.29.2.1.1] Subsection 13.7.2.29.3.1.1 as follows:

13.7.2.29.2.1.1 In buildings having an approved staged evacuation plan, the voice fire alarm communication system must send [a predetermined message] approved information and direction in a pre-recorded message. In high-rise buildings, the message must be provided to at least the floor where the alarm originated, to the floor immediately below, and to the floor immediately above[, providing information and direction to the occupants]. Any subsequent alarm(s) on other than the initial fire floor must initiate the voice fire alarm as described above. The voice fire alarm must be designed to be heard clearly by all occupants within the designated portions thereof as required by NFPA 101, Section 9.6, but it must not sound automatically in elevator cars and enclosed exit



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stairways. Communicating levels [are] must be considered one floor/fire area for the audible and visual fire alarm signals.

[22.00.07.75]

Add NFPA Section 13.10 that reads as follows: “In new buildings, an emergency command center in accordance with Section 11.9 is required in buildings, other than parking garages, with a gross floor area greater than 100,000 square feet.”]

[22.00.07.76] 22.00.07.81

Amend NFPA 1, [Section 14.5.2.8] Subsection 14.5.2.7 item (2) to add subitem “(d)”, and Subsection 14.5.2.7.1 to add item “(7)” that reads as follows: [to add the phrase] “[and all] All stairway doors must [be unlocked] unlock simultaneously, without unlatching, upon a signal from the [fire] emergency command center, if one is present.” [to items (2) and (3).]

[22.00.07.77] 22.00.07.82

Amend NFPA 1, [Section 14.5.2.8.1] Subsection 14.5.2.7.1 to add an item (6), to read:

- (6) Entry levels must provide free access to an approved second exit. These levels must be designated in “core/shell” building permit drawings with future tenant layouts arranged accordingly.

[22.00.07.78] 22.00.07.83

Amend NFPA 1, Table 14.8.1.2 to add the following:

| Use | | (ft ² per person) | (m ² per person) |
|---|-----------------------------|---|---|
| Assembly Use | Tennis court (area of play) | 50 net | 15.24 <u>net</u> |
| Assembly Use | Bars ^g | [1 person/]18 linear in. ^[g] /person | [1 person/]455 linear mm ^[g] /person |
| Business Use | Core/shell | 65 (<u>gross</u>) | 6 (<u>gross</u>) |
| ^g : Measured at the patron side of the bar | | | |

[22.00.07.79] 22.00.07.84



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Amend NFPA 1, [Section] Subsection 14.13.1.2 to replace the word “only” in the first sentence with “, but not be limited to,”.

[22.00.07.80] 22.00.07.85

Amend NFPA 1, [Section] Subsection 14.14.8.3.1 to add: If the sign is on the door, then the door must be equipped with an approved self-closing device.

[22.00.07.81] 22.00.07.86

Amend NFPA 1, Section 18.1 to add the following [subsections] Subsections:

[The National Fire Protection Association (NFPA) 1141, Standard for Fire Protection Infrastructure for Land Development in Suburban and Rural Areas, 2012 Edition, and NFPA 1142, Standard on Water Supplies for Suburban and Rural Fire Fighting, 2012 Edition, applies to all new community and commercial development or redevelopment, road reconstruction, and any changes to existing fire department access. If there is any conflict between NFPA 1, Fire Code, and NFPA 1141 or NFPA 1142, the most stringent requirement must prevail except as otherwise provided in:

1. the Montgomery County Fire Safety Code Chapter 22;
2. this regulation; or
3. performance-based design guidance as defined in paragraph 18.1.6.b.]

18.1.1.3 Alternative Application. The alternative application of performance-based design, as specified in Chapter 5 of NFPA 1, Fire Code, may be used to achieve compliance with any fire department apparatus access requirement. Performance-based design is intended to address a construction method or practice that cannot be effectively addressed by prescriptive code. An appropriate, alternative design which provides an equivalent level of safety or protection must be proposed. Use of performance-based design is at the discretion of the design professional and is subject to approval by the Director. It is the intent of this Subsection to be administered in a manner consistent with The Fire Department Access Guidelines Document, Chapter 49, Streets and Roads, of the Montgomery County Code, and its executive regulations.

[18.1.4] 18.1.1.4 Definitions. For the purposes of fire department access and water supply, the following definitions apply:



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- [a.](1) Fire Department Apparatus Access. Any [approved load-bearing, all weather surfaces, including] required public, private, or access roads, driveways, parking lots, shoulders, and buffers, whose use is required to allow access [more than one residential dwelling unit or any non-residential occupied building] and operational setup for firefighting and rescue apparatus. Not all roadways are required for fire department apparatus access. [In addition to these access surfaces, the] The Director may require, and must approve, all suitable gates, access boxes, and fire lanes to ensure adequate fire department apparatus access.
- [b. Fire Lane. A road or path developed or reserved to allow fire apparatus to pass through congested areas. The Director must require and approve all fire lanes on new or existing roads to be clearly marked to prohibit vehicles or obstructions from impeding fire department apparatus access.]
- (2) One- and Two-Family Dwellings. Detached one- and two-family dwellings and attached single-family dwellings (townhomes) not more than three stories in height, with no dwellings superimposed over the dwelling or portion thereof, and having no window opening or visual wall treatments that resemble a window opening, greater than 27 feet above adjoining grade measured to the bottom of the opening, with a separate, independent means of egress.
- [c. Director. For purposes of this Regulation, the Director of the Montgomery County Department of Permitting Services (MCDPS) includes the Director’s designees.]
- (3) Commercial Residential: Any apartment building as defined by NFPA 101, and any townhouse greater than three stories in height, having a window opening with an exterior height greater than 27 feet above adjoining grade measured to the bottom of the opening, or having a dwelling superimposed over another dwelling or portion thereof, will need to meet “commercial” requirements with regard to fire department access requirements.
- [d. One- and Two-Family Dwellings. Detached one- and two-family dwellings and attached single-family dwellings (townhomes) not more than three stories in height with a separate means of egress.]
- [e.](4) Operating Bay. Clear and unobstructed fire department apparatus load bearing surface along fire department apparatus access that increases operating width to a minimum of 26 feet wide. It may be defined by bollards and accessed via 3-inch mountable curb. The minimum length of an operating bay is 50 feet.



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[18.1.5 Fire Department Apparatus Access.

The Director must review and approve fire department apparatus access for all new development, and any changes made to fire department apparatus access. A fire department apparatus access plan is required as part of any development plan. Fire department access improvements may be required at the time of road reconstruction, surrounding new development, or redevelopment. The Director may require at least two fire department apparatus access roads into new developments when, in the Director’s opinion, there is substantial risk that a single fire department access road into a community may become impassable.]

[18.1.6 Alternative Application.

The alternative application of performance-based design, as specified in Chapter 5 of NFPA 1, Fire Code, applies to any fire department apparatus access requirement identified in this Regulation.

- a. Performance-based design is the preferred application in all cases. It is the intent of this regulation to be administered in a manner consistent with Chapter 49 of the Montgomery County Code and its executive regulations. Performance-based design guidance as defined in paragraph 4(b) must be used to resolve any conflicts between this regulation and Chapter 49.
- b. MCDPS must develop and issue a performance-based design guidance document with assistance from the Departments of Permitting Services, Transportation, and Environmental Protection, Montgomery County Planning Board, and design professionals.]

[22.00.07.82] 22.00.07.87

Amend NPFA 1, to add new [Section 18.1.3.1] Subsection 18.1.3.1.1 [and Section 18.1.3.2 to replace the word “fire department” with “AHJ”] that reads: A fire department apparatus access plan may be required as part of any development or re-development plan.

22.00.07.88

Amend NFPA 1, Subsection 18.1.3.2 to delete the existing wording and replace with the following: Existing and proposed fire hydrant locations in accordance with 18.5 must be indicated on the fire department access plan for review and approval by the AHJ.



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[22.00.07.83

Amend NFPA 1, Section 18.2.2 to add the following subsection:

18.2.2.4 In new installations, not less than one exist stair which serves all stories of the building must be accessible by an internal corridor from the main entrance of the building or fire department response location.]

[22.00.07.84] 22.00.07.89

Amend NFPA 1, [Section] Subsection 18.2.2.1, to add two new [subsections] Subsections as follows:

18.2.2.1.1 All occupancies other than [1]one- and [2]two-family dwellings must have an approved access box.

Exception 1: The requirement for an access box does not apply when the occupancy provides 24-hour on-site staffing with access to all areas in the building or complex. At least one person [must] is required to staff a fixed location proximate to the main building or complex entrance to provide [ready] immediate access for the fire department.

Exception 2: For multiple occupancies located within a single structure, a single access box is permitted with approval of the AHJ.

Exception 3: For multiple structures within a residential building complex, a single access box is permitted with approval of the AHJ.

18.2.2.1.2 The size, contents, and location of the access box must be determined by the AHJ in cooperation with the occupancy owner or management.

[22.00.07.85

Amend NFPA 1, Section 18.2.3 to add the following: The AHJ is authorized to require and designate public or private fire lanes and fire department access roads as considered necessary.]

[22.00.07.86

Amend NFPA 1, Section 18.2.3 to add the following subsections:

18.2.3.2.3 Access Requirements for Occupied Structures.



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18.2.3.2.3.1 One- and two-family dwellings of three stories or less, with no superimposed dwelling unit or portion of a dwelling unit, and having no window sill greater than 27 feet from grade on the same side of the structure as fire department apparatus access, must provide access to the occupied interior through a main, side-hinged door, via a clear and unobstructed walkable grade, within 150 feet of fire department apparatus access, unless otherwise approved by the AHJ.

18.2.3.2.3.2 One- and two-family dwellings more than three stories, or dwellings with superimposed dwelling units or a portion of a dwelling unit or having window sills greater than 27 feet from grade on the same side of the structure as fire department apparatus access, must provide access to the occupied interior through a main, side-hinged door, via a clear and unobstructed walkable grade, within 50 feet of fire department apparatus access, unless otherwise approved by the AHJ.

18.2.3.2.3.3 A non-residential occupied structure must provide access to the occupied interior through a main, side-hinged door, via a clear and unobstructed walkable grade, within 50 feet of fire department apparatus access.

18.2.3.2.3.4 When fire department apparatus access to a new building cannot be provided, the Director may require compensatory actions in the form of additional fire protection features. Compensatory action may include, but is not limited to upgraded sprinkler protection, onsite water supply, and early notification fire alarm systems.

18.2.3.2.3.5 A building must be protected throughout by an approved automatic sprinkler system if any portion of its footprint is more than 150 feet of 15 foot wide clear and unobstructed walkable grade from a fire department apparatus access point.

18.2.3.2.3.6 No portion of a building footprint in a building protected throughout by an approved automatic sprinkler system can be more than 450 feet of 15 foot wide clear and unobstructed walkable grade from a fire department apparatus access point.

18.2.3.4.1.1.1 Width of Fire Department Apparatus Access.

Fire department apparatus access must be at least 20 feet wide, unless specifically excepted in this Regulation, or as approved by the Director. Clear width may include, but is not limited to, multiple features of the cross-section, such as travel lanes, bike lanes, and



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load-bearing shoulders. Clear width excludes obstructive features such as, but not limited to, parking lanes and non-mountable curbs.

- a. On-street parking is allowed on one side if the load-bearing fire department apparatus access is at least 28-feet wide.
- b. On-street parking is allowed on both sides if the load-bearing fire department apparatus access is at least 36-feet wide. The required width may increase with additional roadway features, such as pedestrian refuges.
- c. Fire department apparatus access serving one- and two-family dwellings of three stories or less, with no superimposed dwelling units or portions of dwelling units, and having no window sill greater than 27 feet from grade on the same side of the structure as fire department apparatus access, may be 26-feet wide and allow parking on one side, if there are 50-foot long operating bays at 300-foot intervals.

18.2.3.4.1.2 Vertical Clearance.

- a. All buildings, parts of buildings, or other obstructions extending over apparatus access must have a minimum of 13.5 feet vertical clearance from the finished driveway surface. Vertical clearance for any overhead obstruction over arterial roadways must be at least 16 feet from the finished surface. This requirement does not preclude the planting of street trees if maintained appropriately for fire department apparatus access.

18.2.3.4.3.1.1 Minimum and Maximum Turning Radii.

The minimum interior turning radius for fire department apparatus access is 25 feet. The minimum exterior turning radius for fire department apparatus access is 50 feet. This is only required at turning points on fire department apparatus access routes. Performance-based approval of alternative turning radii may be allowed if apparatus movement into opposing lanes of traffic is minimized and unrestricted fire department apparatus access is maintained.

18.2.3.4.4.1 Provision of Dead-End Apparatus Turn-Around.

Dead-end fire department apparatus access greater than 150-feet long must provide an approved apparatus turnaround. Approved designs include a cul-de-sac at the closed end at least 90-feet in diameter, or a T-turnaround, with each leg of the tee at least 60 feet long and 20-feet wide.



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18.2.3.4.4.2 Fire Department Apparatus Access Requirements: Surface. Load-Bearing. Clearance.

- a. At-grade fire department apparatus access must have all-weather surface, and must be capable of bearing the heaviest piece of apparatus in the MCFRS fleet at the time of Director review and approval.
- b. Elevated decks designated as “fire department apparatus access” must have all-weather surface, and be load-bearing up to 75 pounds per square inch, or as specified in Chapter 20 of the NFPA Standard 1901, Automotive Fire Apparatus, whichever is greater, or as approved by the Director.]

[22.00.07.87] 22.00.07.90

Amend NFPA 1, [Section] Subsection 18.2.3.2.1 to replace the phrase “exterior door” with “exterior door acceptable to the AHJ”[.] and add the following sentence: “In new installations, not less than one exit stair which serves all stories of the building must be accessible by an internal corridor from the main entrance of the building or fire department response location.”

22.00.07.91

Amend NFPA 1, Subsection 18.2.3.2.2 to add the following sentence at the end of the Subsection: “The exterior route around the building(s), including townhomes of any height in clusters of four (4) or more, must be at least 15 feet of unobstructed, walkable grade unless otherwise approved by the Director.”

22.00.07.92

Delete NFPA 1, Subsection 18.2.3.4.

22.00.07.93

Amend NFPA 1, Subsection 18.2.3.5.1.1 to add the following sentence and Subsections:

Unobstructed width may include multiple features of the cross-section, such as travel lanes, bike lanes, and load-bearing shoulders provided the width is continuous and no obstructive features intervene in the cross-section. Obstructive features include, but are not limited to, parking lanes, green space, and non-mountable curbs.



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- (1) On-street parking is permitted on one side if the fire department apparatus access is at least 28 feet wide.
- (2) On-street parking is permitted on both sides if the fire department apparatus access is at least 36 feet wide.
- (3) Fire department apparatus access serving only one- and two-family dwellings may be 26 feet wide and allow parking on one side, if there are 50-foot long operating bays at 300-foot intervals.

22.00.07.94

Amend NFPA 1, Subsection 18.2.3.5.2 to delete the existing wording and replace with the following: Fire apparatus access roads must be provided with an all-weather surface and designed to support imposed loading requirements of the largest MCFRS fire apparatus. Elevated decks designated as “fire department apparatus access” must have an all-weather surface and be load-bearing up to 75 pounds per square inch, as specified in the 2016 NFPA 1901, Standard for Automotive Fire Apparatus, Section 19.21, or as approved by the Director.

22.00.07.95

Amend NFPA 1, Subsection 18.2.3.5.3.1 to delete the existing wording and replace with the following: The minimum interior turning radius for a fire department apparatus access roadway is 25 feet. The minimum exterior turning radius for a fire department apparatus access roadway is 50 feet. This is only required at turning points on fire department apparatus access routes.

22.00.07.96

Amend NFPA 1, Subsection 18.2.3.5.4 to add the following at the end of the sentence: A cul-de-sac at the closed end must be at least 90 feet in diameter, and a “T-turnaround” must have each leg of the tee at least 60 feet long and 20 feet wide.

[22.00.07.88

Amend NFPA 1, Section 18.3 to add the following subsections:

18.3 Water Supplies.

- a. In municipally-supplied areas, hydrants must be spaced not more than 500 feet apart, and within 400 feet from any dead-ends in apparatus travel.



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- b. In non-municipally supplied areas, static water sources compliant with NFPA 1142, Water Supplies for Suburban and Rural Firefighting, must be sited not more than one mile travel distance along fire department apparatus access routes. If an acceptable water supply does not exist within one mile travel distance from the furthest part of the subdivision at the time of development:
1. Any residential subdivision of more than one dwelling unit must dedicate an easement along the fire department apparatus access route to MCFRS that is appropriate in size for the grading and installation of an underground cistern. An easement may be located outside the boundaries of the subdivision or at another accessible location.
 2. Any easement or renewal of an easement must be recorded on the plat or plats of subdivision among the land records of Montgomery County using a model easement provided by the Director, and identified as “MCFRS Public Safety Water Supply Easement.” Any release of an easement must also be recorded in the land records.
 3. If public safety improvements are made on an easement, the improvements must be recorded in the land records and identified as “MCFRS Public Safety Water Supply”.
 4. Any easement created under this regulation for the purpose of water supply may be released at any time by the Director if an alternate, ore appropriate site becomes available.
 5. Non-residential development must install a new, or upgrade an existing water supply, that is acceptable to the Director.]

22.00.07.97

Amend NFPA 1, Subsection 18.3.1.1 to delete the existing wording and replace with the following: “In non-municipally supplied areas, static water sources must comply with the 2017 edition of NFPA 1142, Water Supplies for Suburban and Rural Firefighting. Existing roads providing a means of access to a required water supply must comply with the minimum criteria set forth in Section 7.5 of the 2017 edition of NFPA 1142. The minimum water supply must be available and accessible prior to any new construction.



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- (1) If an acceptable water supply does not exist at the time of subdivision of any new residential development or redevelopment, comprised of more than one one- or two-family dwellings, with fire department access roads for the development having aggregate travel distance of 2200 feet or more, adequate fire department water supply must be provided.
- (2) If an acceptable water supply does not exist on-site and within 1,000 feet of the structure(s) for any new commercial development or redevelopment, the applicant must install a new, or upgrade an existing, on-site water supply that is acceptable to the Director.
 - a. A dry hydrant, in accordance with Chapter 8 of NFPA 1142, must be located along an approved fire apparatus access road in accordance with Section 18.5.
 - b. The approved water supply must comply with NFPA 1, Section 18.4.

[22.00.07.89] 22.00.07.98

Amend NFPA 1, [Section] Subsection 18.5.1 to add [the following sentence: Regardless of new or existing conditions, Section 18.5.1. must apply] “and existing” after the words “all new” and before the word “building.”

[22.00.07.90]

Amend NFPA 1, Section 18.5.1 to add the following sentence: Regardless of new or existing conditions, Section 18.5.1.1 shall apply.]

[22.00.07.91]

Amend NFPA 1, Section 18.5.1.1 to add the following subsections:

18.5.1.1.1 For new and existing conditions, the hydrant closest to the property must be capable of delivering a minimum of 1000 gallons per minute with 20 psi residual pressure. The next closest hydrant must be capable of flowing a minimum of 500 gallons per minute at the same time.

18.5.1.2.1 For buildings without automatic sprinklers within areas provided with a municipal water supply, the distance from the building to the closest hydrant must not exceed 400 feet when measured along the path of fire department access.]



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[22.00.07.92]

Amend NFPA 1, Section 18.5.6 to add the following subsection:

18.5.6.1 Fire hydrants must be located no farther than 7 feet from edge of pavement or face of curb along a designated fire department vehicular access route unless approved otherwise by the AHJ.]

22.00.07.99

Amend NFPA 1, Subsection 18.5.1.6 to replace “12 ft (3.7 m)” with “7 ft (2.1 m)”.

22.00.07.100

Amend NFPA 1, Subsection 18.5.2, items (1) and (2) to replace “600 ft. (183 m)” and “800 ft (244 m)”, with “400 ft (122 m)” and “500 ft (152 m)”, respectively.

22.00.07.101

Amend NFPA 1, Subsection 18.5.4.2 to delete the existing wording and replace with the following: For new and existing structures, the hydrant closest to the property must be capable of delivering a minimum flow of 1,000 gallons-per-minute with 20 psi residual pressure calculated at the non-flowing hydrant. The next closest hydrant must be capable of flowing a minimum of 500 gallons-per-minute at the same time.

[22.00.07.93] 22.00.07.102

Amend NFPA 1, Subsection 20.2.4.2.3 to delete existing wording and replace with the following:

Fire emergency egress drills must be conducted as follows:

- (1) [Not] not less than one fire emergency egress drill must be conducted every month the facility is in session, unless the following criteria are met:
 - (a) [In] in climates where the weather is severe, the monthly fire emergency egress drills are permitted to be deferred; and
 - (b) [In] in educational occupancies which are:



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- (i) [Fully] fully protected by an automatic sprinkler system, [five (5)] the total number of annual fire emergency egress drills [must be conducted annually.] will be five (5), with at [At] least two (2) of the required drills must be conducted in the first four (4) months of the school year; or
- (ii) [Not] not fully protected by an automatic sprinkler system, [eight (8)] the total number of annual fire emergency egress drills must be eight (8) [conducted annually. At] with at least three (3) of the required drills conducted in the first four (4) months of the school year[.];

(2) [All] all occupants of the building must participate in the fire emergency egress drill[.]; and

(3) one (1) fire emergency egress drill, other than [Except] for education occupancies that are open on a year-round basis, [one fire emergency egress drill must be conducted] must be required within the first 30 days of operation.

[22.00.07.94] 22.00.07.103

Amend NFPA 1, [Section] Subsections 20.3.4.1.1 and 20.3.4.1.2 to delete the phrase “more than 3, but” and [after] the “,” after “12”.

[22.00.07.95]

Amend NFPA 1, Section 20.3.4.2.3.6 to add the following exception.

Exception: Day-care homes with not more than three clients for overnight lodging.]

22.00.07.104

Amend NFPA 1, Subsection 20.3.4.1.6 to delete the wording after “where operating” and replace with the following: “a day-care in which eight or less clients receive care, maintenance, or supervision while services are being held in the building.”

[22.00.07.96]



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Amend NFPA 1, Section 20.5.2.3.6 by adding a sentence as follows: “If more than three residents are not able to participate in the drill, the facility is considered as a Health Care Occupancy and must be reevaluated in accordance with NFPA 101, Section 43.7.]

22.00.07.105

Amend NFPA 1, Subsection 20.3.4.2.2.2(3) to replace the word “building” with “day-care”.

22.00.07.106

Amend NFPA 1, to add new Subsection 20.16.1.3 that reads as follows: “In new buildings, where the aggregate gross floor area exceeds 100,000 square feet, or where the floor of an occupiable story is greater than 75 ft (23 m) above the lowest level of fire department vehicle access, an emergency command center, in accordance with Section 11.9, is required. Exception: Buildings or structures used exclusively for open-air parking.”

[22.00.07.97] 22.00.07.107

Amend NFPA 1, [Section] Subsection 25.2.2.1 to add the phrase “or other approved testing standard approved by the State Fire Marshal”.

[22.00.07.98] 22.00.07.108

Amend NFPA 1, Subsection 26.1.5 to add the following [paragraphs] Subsections:

26.1.5.2 When requested by the AHJ, a hazard assessment must be conducted by a technically qualified person acceptable to the AHJ.

26.1.5.3 When requested by the AHJ, a list of hazardous materials used in each laboratory must be provided. The list must specify the chemical name, quantity and hazard class.

26.1.5.4 New laboratories or laboratories where the NFPA 45 laboratory hazard classification changes must post an information placard near the main entrance to the laboratory. The placard must state the building name or address, room number, NFPA 45 laboratory hazard classification, edition of NFPA 45, maximum allowable quantities of flammable liquids both inside a storage cabinet and open use, and [a] maximum quantities of flammable gases permitted within the laboratory.

[22.00.07.99]



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Amend Chapter 26 to add the following section and subsection:

26.3 Construction

26.3.1 All laboratories, laboratory suites, or laboratory units within the scope of NFPA 45, regardless of the laboratory hazard classification in NFPA 45, must be separated by at least one-hour fire resistance rated construction from non-laboratory areas. If a higher fire resistance rating is required by Table 5.1.1 in NFPA 45 or the Building Code, the higher fire resistance rating must be used. Rooms that are in incidental use to the lab are considered part of the laboratory for the purpose of this requirement and do not require additional separation.]

[22.0.07.100] 22.00.07.109

Amend NFPA 1, [Section] Subsection 31.3.6.2.2 to add the following item:

- (9) Piles containing leaves and other extraneous or hogged material, such as whole tree chip piles, must be turned or reclaimed at least every 3 months.

[22.00.07.101] 22.00.07.110

Amend NFPA 1, [Section 31.3.6.3.1] Subsection 31.3.6.3.2 to delete the existing wording and replace with the following:

Piles [must] may not exceed [18] 20 feet in height, 50 feet in width, and 350 feet in length. [Piles must be subdivided by fire lanes having at least 30 feet of clear space at the base of piles.]

[22.00.07.102]

Delete NFPA 1, Section 31.3.6.3.2, Section 31.3.6.3.2.1, Section 31.3.6.3.2.2, and Section 31.3.6.3.2.3.]

22.00.07.111

Amend NFPA 1, Subsection 34.1.3 to replace “An approved storage” with “Where required by the AHJ, an approved storage”.

22.00.07.112



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Delete NFPA 1, Chapter 35, Animal Housing Facilities.

22.00.07.113

Amend NFPA 1, Subsection 38.6.1.6.1.4 to replace “or approved” with “or certified by a nationally recognized testing laboratory”.

[22.00.07.103] 22.00.07.114

Amend NFPA 1, Section [42.7.4] 42.7.5 to add the following [subsections] Subsections:

42.7.5.7 Management/owners officials or employees must conduct daily site visits to ensure that all equipment is operating properly.

42.7.5.8 Regular equipment inspection and maintenance at the unattended self-service facility must be conducted.

42.7.5.9 Fuel dispensing equipment must comply with one of the following:

- (1) The amount of fuel being dispensed is limited in quantity by preprogrammed card; or
- (2) Dispensing devices must be programmed or set to limit uninterrupted fuel delivery of not more than 25 gallons and must require a manual action to resume continued delivery.

[22.00.07.104] 22.00.07.115

Amend NFPA 1, [Section] Subsection 42.7.5.5 to add the following:

The following information must be conspicuously posted in this area:

- (1) [The] the exact address of the unattended self-service facility[.]; and
- (2) [The] the telephone number of the owner or operator of the unattended self-service facility.

[22.00.07.105] 22.00.07.116



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Amend NFPA 1, [Section 50.2.1] Subsection 50.8.1 to add the following [subsections] Subsections:

[50.2.1.10] 50.8.1.7 Commercial Outdoor Cooking Operations. These requirements apply to commercial outdoor cooking operations such as those that typically take place under a canopy or tent-type structure at fairs, festivals and carnivals. This includes, but is not limited to, deep frying, sauteing, and grilling operations.

[50.2.1.10.1] 50.8.1.7.1 Tent and Canopy Requirements.

[50.2.1.10.1.1] 50.8.1.7.1.1 Tents or canopies where cooking equipment not protected in accordance with NFPA 96 [is located must not be occupied by the public and must be separated from other tents, canopies, structures, or vehicles by a minimum of 10 feet (3050 mm)] are not permitted unless otherwise approved by the AHJ.

[50.2.1.10.1.2] 50.8.1.7.1.2 All tent and canopy material must comply with flame resistance requirements of Section 25.2.2.

[50.2.1.10.2] 50.8.1.7.2 Gas Fuel Requirements.

[50.2.1.10.2.1] 50.8.1.7.2.1 LP gas tank size is limited to 60 [lbs] pounds. The total amount of LP gas on site must not exceed 60 [lbs] pounds for each appliance that is rated not more than 80,000 btu/hr and 120 [lbs] pounds for each appliance rated more than 80,000 btu/hr.

[50.2.1.10.2.2] 50.8.1.7.2.2 Tanks must be maintained in good physical condition and must have a valid hydrostatic date stamp.

[50.2.1.10.2.3] 50.8.1.7.2.3 Tanks must be secured in their upright position with a chain, strap, or other approved method that prevents the tank from tipping over.

[50.2.1.10.2.4] 50.8.1.7.2.4 Tanks must be located so that they are not accessible to the public. LP gas tanks must be located at least 5 feet from any cooking or heating equipment or any open flame device.

[50.2.1.10.2.5] 50.8.1.7.2.5 All LP gas equipment must be properly maintained and comply with the requirements of NFPA 58.



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[50.2.1.10.2.6] 50.8.1.7.2.6 Regulators. Single-stage regulators must not supply equipment that is rated more than 100,000 btu/hr rating. Two-stage regulators must be used with equipment that is rated more than 100,000 btu/hr.

[50.2.1.10.3] 50.8.1.7.3 General Safety Requirements.

[50.2.1.10.3.1] 50.8.1.7.3.1 All electrical cords must be maintained in a safe condition and must be secured to prevent damage.

[50.2.1.10.3.2] 50.8.1.7.3.2 Moveable cooking equipment must have wheels removed or must be placed on blocks or otherwise secured to prevent movement of the appliance during operation.

[50.2.1.10.3.3] 50.8.1.7.3.3 Portable fire extinguishers must be provided in accordance with NFPA 1, Section 13.6, and must be specifically listed for such use.

50.8.1.8 There must be no obstructions or impediments to immediate escape from vehicles or other mobile units used for cooking operations.

22.00.07.117

Amend NFPA 1, Subsection 50.8.7.4.4 to replace “not be transported or stored inside the vehicle” with “be secured in an upright position during transport and storage”.

22.00.07.118

Amend NFPA 1, 52.1.1 to add the following to the end of the sentence: “and NFPA 855.”

22.00.07.119

Amend NFPA 1, Chapter 52, to add the following Section and Subsections:

52.10 ELECTRICAL VEHICLE (EV) CHARGING STATIONS.

52.10.1 General. The provisions of this Section apply to installation of electric vehicle charging stations. Exception: EV charging station(s) in Group R-4 occupancies must comply with Section 52.10.11.



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52.10.2 Construction documents. The following information must be provided with the permit application:

- (1) location and layout diagram of the room or area in which the EV charging station is to be installed;
- (2) the quantities and types of EV charging station(s) to be installed;
- (3) manufacturer’s specifications, ratings and listings of each EV charging station;
- (4) description of energy (battery) management systems and their operation;
- (5) location and content of required signage;
- (6) details on fire suppression of the EV charging station, including but not limited to, smoke or fire detection, thermal management, ventilation, exhaust and deflagration venting systems, if provided; and
- (7) support arrangement associated with the installation, including any required seismic restraint.

52.10.3 Installation and listing. Where provided, electric vehicle charging stations must be installed in accordance with NFPA 70. Electric vehicle charging station equipment must be listed and labeled in accordance with UL 2202. Electric vehicle supply equipment must be listed and labeled in accordance with UL 2594.

52.10.3.1 Electrical disconnects. Where the EV charging station disconnecting means is not within sight of the main electrical service disconnecting means, placards or directories must be installed at the location of the main electrical service disconnecting means indicating the location of EV charging station(s) disconnecting means in accordance with NFPA 70.

52.10.3.2 Vehicle impact protection. Where EV charging station are subject to impact by a motor vehicle, impact protection must be provided.

52.10.4 Location.



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52.10.5 Fire detection. An approved automatic smoke detection system or radiant energy-sensing fire detection system must be installed in the EV charging station area where located in enclosed parking garages. An approved radiant energy-sensing fire detection system must be installed to protect open parking garage and rooftop installations. Alarm signals from detection systems must be transmitted to a central station in accordance with NFPA 72.

52.10.5.1 System status. Visible annunciation must be provided on cabinet exteriors or in other approved locations to indicate that potentially hazardous conditions associated with the EV charging station are present.

52.10.5.3 Elevation. EV charging station cannot be located in the following areas:

- (1) where the floor is located more than 75 feet (22,860 mm) above the lowest level of fire department vehicle access;
- (2) where the floor is located more than one level below the lowest level of exit discharge;

52.10.6 Fire suppression systems: Enclosed parking garages containing EV charging stations must be protected by an automatic sprinkler system designed and installed in accordance with the following:

- (1) an automatic sprinkler system designed and installed in accordance with Section 903.3.1.1 with a minimum density of 0.3 gpm/ft² (91.14 L/min) based on the fire area or 2,500 square-foot (232 m²) design area, whichever is smaller.

52.10.7 Reserved.

52.10.8 Exhaust ventilation. Where installed in enclosed parking garages, exhaust ventilation of areas and containing EV charging stations must be provided in accordance with the International Mechanical Code and Section 52.10.8.1 or 52.10.8.2.

52.10.8.1. Ventilation based on LFL. The exhaust ventilation system must be designed to limit the maximum concentration of flammable gas to 25 percent of the lower flammable limit (LFL) of the total volume of the room, area or walk-in unit during the worst-case event of simultaneous



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charging of batteries at the maximum charge rate, in accordance with nationally recognized standards.

52.10.8.2 Ventilation based on exhaust rate. Mechanical exhaust ventilation must be provided at a rate of not less than 1 ft³/min/ft² (5.1 L/sec/m²) of floor area of the room, area or walk-in unit. The ventilation must be either continuous or shall be activated by a gas detection system in accordance with Section 432.6.1.2.4.

52.10.8.2.1 Standby power. Mechanical exhaust ventilation must be provided with a minimum of 2 hours of standby power in accordance with NFPA 1, Section 11.7.4.

52.10.8.2.2 Installation instructions. Required mechanical exhaust ventilation systems must be installed in accordance with the manufacturer’s installation instructions and the International Mechanical Code.

52.10.8.2.3 Supervision. Required mechanical exhaust ventilation systems must be supervised in accordance with NFPA 72 or initiate an audible and visible signal at an approved constantly attending on-site location.

52.10.9 Separation. The EV charging station must be separated from doors, windows, operable openings into buildings or HVAC inlets by at least 10 feet (1,524 mm).

52.10.9.1 Means of egress separation from EV charging station. EV charging stations located outdoors and in open parking garages must be separated from any exit or exit component as required by the AHJ to ensure safe egress from the EV charging station under fire conditions, but in no case can an EV charging station be separated by less than 10 feet (3,048 mm). EV charging stations located in enclosed parking structures must be located no less than 25 feet from any exit door.

52.10.10 Special installations. Rooftop and open parking garage EV charging station installments must comply with this section.

- (1) A Class 1 standpipe outlet must be installed at an approved location on the roof level of the building or in the stairway at the top level.



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(2) The EV charging station must be the minimum of 10 feet (3,048 mm) from the fire service access point on the rooftop.

52.10.11 Spill control and neutralization. Areas containing free-flowing liquid electrolyte or hazardous materials must be provided with spill control and neutralization in accordance with this section.

52.10.11.1 Spill control. Spill control must be provided to prevent the low of liquid electrolyte or hazardous materials to adjoining rooms or areas.

52.10.11.2 Neutralization. An approved method that is capable of neutralizing spilled liquid electrolyte from the largest battery or vessel to a pH between 5.0 and 9.0 must be provided.

22.00.07.120

Amend NFPA 1, Section 65.1 to add the following Subsections:

65.1.3 Blasting Operations General Requirements.

65.1.3.1 Notifications. Written notification by e-mail or facsimile must be provided to the Office of the State Fire Marshal Bomb Squad at least 24 hours prior to each blast. The name of the company or contractor performing the blasting and the location, date, and approximate time must be identified. The geographical coordinates (longitude and latitude) must be provided.

65.1.3.2 Complaints. If requested by a property owner registering a complaint and considered necessary by the State Fire Marshal, measurements on three consecutive blasts, using approved instrumentation, must be made near to the structure in question.

65.1.3.3 Special Precautions. When blasting operations, other than those conducted at a fixed site such as a quarry, are to be conducted within 200 feet of a pipeline or high voltage transmission line, the contractor must take additional precautionary measures and must notify the owner of the line, or the owner's agent, that blasting operations are intended. Approval documents from the utility purveyor must be provided to DPS for review prior to issuance of the blasting permit.



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65.1.3.4 Reports. Blasting reports must be provided to the Montgomery County Fire Code Compliance section within one (1) business day of blasting instances. The reports must contain information as noted in Subsection 10.4.4.3 of NFPA 495, Explosive Materials Code, 2018 edition.

65.1.3.5 Sale and Use of Heaters and Stoves.

65.1.3.5.1 Gasoline Stoves. The sale or use of gasoline stoves or other similar fuel-burning cooking or heating appliances using Class I flammable liquids as defined in NFPA 1 Fire Code (2021 edition) and NFPA 30 Flammable and Combustible Liquids Code (2021 edition) is prohibited unless the appliance has been tested and listed by a testing laboratory accepted by the State Fire Marshal. The appliance must be installed, operated, and maintained in a safe manner in accordance with the prescribed recommendation of the manufacturer and the conditions stated in the listing by the respective testing laboratory.

65.1.3.5.2 Unvented Portable Kerosene-Fired Heaters.

- (1) The sale or use of unvented portable kerosene-fired heaters is permitted only if the heater or appliance meets the U.L. Subject 647 and bears the label of a testing laboratory accepted by the State Fire Marshal.
- (2) The heaters must only be used as permitted under Commercial Law Article, § 14-1310, Annotated Code of Maryland.
- (3) Each heater must contain a warning label stating: “This device must not be operated while unattended”. In addition, the heater must contain the manufacturer’s warning label required by Commercial Law Article, § 14-1310, Annotated Code of Maryland.

22.00.07.121



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Delete NFPA 13, Subsection 8.2.3.6.1.

22.00.07.122

Amend NFPA 13, Subsection 8.2.5, and add the following Subsection 8.2.5.1.1: Dry pipe systems may only be installed where heat is not adequate to prevent freezing.

22.00.07.123

Amend NFPA 13, add new Subsection 9.2.3.6 that reads as follows:

9.2.3.6 Sprinklers are required under attached balconies or porches unless at least 50 percent of the longest exterior side is open to the atmosphere.

22.00.07.124

Amend NFPA 13, to add Subsection 9.4.2.1.1, that reads as follows: In dwelling units, ordinary temperature rated sprinklers must be used.

22.00.07.125

Amend NFPA 13, Subsection 9.4.2.4, to add the following: Immediate temperature sprinkler heads can only be installed in a high temperature area if an acceptable layout cannot be achieved with an ordinary temperature sprinkler head.

22.00.07.126

Amend NFPA 13, Section 12.1 as follows: Listed residential sprinkler heads must be used in dwelling units and must be selected for use and installation as indicated in this Chapter and be positioned and spaced in accordance with Section 9.5.

22.00.07.127

Amend NFPA 13, adding Subsection 11.1.1 that reads as follows: Extended coverage sprinklers are not permitted in speculative business and mercantile occupancies.

22.00.07.128



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Amend NFPA 13, adding Subsection 9.2.1.19.6 that reads as follows: Any canopy with the potential for extended vehicle standing or parking below must have sprinkler protection on the underside of the canopy.

22.00.07.129

Amend NFPA 13, Subsection 9.2.1.7 that reads as follows: Combustible spaces filled with a listed non-combustible insulation do not require sprinkler protection and an additional insulation inspection is required prior to concealment.

22.00.07.130

Amend NFPA 13, Subsection 9.2.4.2 to add new Subsection 9.2.4.2.1 that reads as follows:

9.2.4.2.1 When sprinklers are required, sprinklers must not be installed directly above shelving.

22.00.07.131

Amend NFPA 13, Subsection 9.3.11.1 to delete the wording and replace with the following: For new ceiling installations, drop-out ceilings are prohibited.

22.00.07.132

Amend NFPA 13, Subsections 16.9.3.1.1 and 16.11.2.1 to add: When a sprinkler system serves more than one level, each level must be consistently and separately valved by a listed and approved control valve. In addition, where a sprinkler system is required to activate a building fire alarm system, the sprinkler system must have a separate and distinct water flow detecting device for each floor and zone.

Note: 16.9.11.1 requires zone control assemblies in buildings exceeding two stories.

Exception 1: In buildings not exceeding three floors and 3,000 square feet per floor.

Exception 2: Unoccupied and unused attics may be zoned with the level below.

Exception 3: Mezzanines not exceeding 3,000 square feet in area.

Exception 4: Detention and correctional facilities.



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22.00.07.133

Amend NFPA 13, Section 16.12 to add the following requirements for fire department connections:

| <u>System Demand (gpm)</u> | <u>No. of Inlets</u> |
|----------------------------|----------------------|
| <u>Up to 749</u> | <u>2</u> |
| <u>750-999</u> | <u>3</u> |
| <u>1,000 and above</u> | <u>4</u> |

- (1) Must be located within 100 feet of a fire hydrant, and between 18 and 48 inches from grade to the centerline of the inlets.
- (2) Multiple connects on the same building must be interconnected.
- (3) When a section of a building is fed by a connection (i.e., partial systems), permanent all-weather identification signs must be provided on connections.
- (4) Must be sized at least as large as the main sprinkler system riser pipe or the fire pump discharge line, whichever is larger.

22.00.07.134

Amend NFPA 13, Subsection 19.2.1 to delete the wording and replace with the following: Calculations for new systems or new portions of systems must meet the criteria below.

- (1) Highest hazard and most demanding use allowed by building construction permit or property zoning.
- (2) Storage use: Available storage height for high storage of a class 4 non-encapsulated material.
- (3) All uses: 20% safety factor. For systems without a pump, this is based on the demand pressure only at the supply point. For systems with a pump, this is based on both the demand pressure and demand flow at the pump discharge. All design options, except grids in speculative buildings, must be explored.

Exception to safety factor only: Owner-occupied buildings may use a lower safety factor if a pump would be necessary to achieve the 20%.



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22.00.07.135

Amend NFPA 13, Subsection 19.3.2.3 to delete (3) and (4).

22.00.07.136

Amend NFPA 13, Subsection 5.1.2 to add: Pressure and flow availability as determined by a hydraulic information sheet received from a public utility must be used for new taps. Pressure and flow availability for existing taps must be determined by an interior flow test. In any case, the supply information must be corrected for the low hydraulic gradient. Fire pumps and fire pump/tank supplies must only be used where it is demonstrated that the public water supply is inadequate.

22.00.07.137

Amend NFPA 13, Section 28.1 to add:

- (5) Finished surfaces must be completed within a 1 ft radius of sprinkler heads.

22.00.07.138

Amend NFPA 13, Subsection 28.2.1.8 to add a third sentence: Pendent sprinkler heads must not be installed in plastic pipe until after the hydrostatic test is passed.

22.00.07.139

Amend NFPA 13D, Subsection 1.1.1 to add a second sentence: This standard also applies to Day Care homes containing 12 clients or less if located within converted one- and two-family dwellings or townhouses.

22.00.07.140

Amend NFPA 13D, Subsection 6.1.1 to add: Pressure and flow availability as determined by a public utility must be used and must be adjusted to the low hydraulic gradient. Booster pumps and pump/tank supplies may be used only where it is demonstrated that the public water supply is inadequate as determined by the Director of the Department of Permitting Services

22.00.07.141



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Amend NFPA 13D to add a new Subsection 6.1.1.1 that reads as follows: All calculations must include at least a 10% safety factor to account for minor field changes, unless a booster pump is necessary to obtain this safety factor.

22.00.07.142

Amend NFPA 13D, Section 6.2 to add a new item that reads as follows:

- (6) System specific data plate on durable material to be fixed at sprinkler system main riser.

22.00.07.143

Amend NFPA 13D, Subsection 7.5.6.1 to add: Where possible to maintain listed coverage, sprinkler heads must be positioned so as to eliminate the need to install sprinkler heads of a higher temperature rating.

22.00.07.144

Amend NFPA 13D, Subsection 8.2.5.1 to add new Subsection 8.2.5.1.5:

- 8.2.5.1.5** Sprinkler heads in closets must not be located directly above shelves.

22.00.07.145

Amend NFPA 13D, Subsection 8.3.4 to add the following after the word “garages”: “, unless located partially or wholly beneath living space.”

22.00.07.146

Amend NFPA 13D, Subsection 9.1.2 to delete Methods (1), (2) and (4).

22.00.07.147

Amend NFPA 13D, Subsection 11.1.1 to add the following sentence: Finished surfaces must be completed within a 1 ft radius of all sprinklers before the final inspection.

22.00.07.148



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Amend NFPA 13D, Subsection 11.2.1.4 to add a second sentence: When systems utilizing plastic pipe are being hydrostatically tested, pendent sprinklers are not permitted.

22.00.07.149

Amend NFPA 13R, Subsection 5.4.3 to add the following: Antifreeze, dry pipe and preaction systems are prohibited in dwelling units and interior corridors leading to dwelling units.

22.00.07.150

Amend NFPA 13R, Subsection 6.4.6.3.2 to add item (3):

- (3) Sprinkler heads in closets must not be located directly above shelves.

22.00.07.151

Amend NFPA 13R, Subsection 6.11.1 to add the following sentence: The fire department connection must be a minimum of one 2 ½ inch inlet with a feed line sized at least as large as the main system riser. The fire department connection must be located on a fire department access road and be 18 to 48 inches from the centerline of the inlet to finish grade.

22.00.07.152

Amend NFPA 13R, to add new Subsection 8.2.1.1 that reads as follows: All calculations must include at least a 10% safety factor to account for minor field changes, unless a listed fire pump is necessary to obtain this safety factor.

22.00.07.153

Amend NFPA 13R, Section 9.1, to add the following: Pressure and volume availability as determined by a public utility must be used and must be adjusted to the low hydraulic gradient. Booster pumps and pump/tank supplies may be used only where it is determined that the public water supply is inadequate.

22.00.07.154

Amend NFPA 13R, to add new Subsection 9.7.3 that reads as follows: Domestic pumps are permitted for townhomes.

22.00.07.155



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Amend NFPA 13R, Subsection 10.2.2 to add a new Subsection that reads as follows:

10.2.2.3 Pendent sprinkler heads must not be installed in plastic pipe until after the hydrostatic test is passed.

22.00.07.156

Amend NFPA 14, Subsection 4.8.2 to delete the existing wording and replace with the following: Each fire hose valve must have a 2 ½ inch hose connection, 2 ½ inch to 1 ½ inch reducer, cap, and chain.

22.00.07.157

Amend NFPA 14, Subsection 5.1.2 to add new Subsection 5.1.2.1 that reads as follows: New system installations must meet the following requirements:

- (1) Systems must be automatic wet type.
- (2) Standpipe systems in unheated areas must be automatic dry type.
- (3) Standpipe systems in detached open parking garages may be the manual dry type, if the piping is air supervised for breaks or open valves.
- (4) Occupant use hose is prohibited in new or existing buildings.
- (5) New standpipe systems must be Class I only.

22.00.07.158

Amend NFPA 14, Subsection 6.4.3 to add Subsection 6.4.3.2 (Fire Department Connections):

| <u>System Demand (gpm)</u> | <u>No. of Inlets</u> |
|----------------------------|----------------------|
| <u>Up to 749</u> | <u>2</u> |
| <u>750-999</u> | <u>3</u> |
| <u>1,000 and above</u> | <u>4</u> |

Multiple connections on the same building must be interconnected.



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- (1) When a section of a building is fed by a connection (i.e., partial systems), permanent all-weather identification signs must be provided on connections.

22.00.07.159

Amend NFPA 14, Subsections 7.3.2.2.1.1 and 7.3.2.2.1.2 to add the following:

- (1) Measurement must be parallel or at right angles to walls.
- (2) Supplemental hose valves outside the stairs must not be located within tenant spaces unless hose reach requirements cannot be met by placement of valves in public corridors or by use of wall hydrants for spaces opening to the exterior. Hose valve locations must be marked by the placement of signs, the striping of columns, or other approved methods.

22.00.07.160

Amend NFPA 14, Subsection 7.8.1 to add the following exceptions:

Exception 1: In high-rise buildings, where booster pumps are necessary to produce the required residual pressures, pumps and piping systems must be sized to provide for the demand of the hydraulically most remote hose station, or the sprinkler system demand, whichever is greater. The standpipe system must also be sized to provide the required flow and pressure for all hose stations required to be flowing, when supplied by 150 psi at 1,000 gpm at the fire department connection(s). two sets of calculations will, therefore, be required under this exception.

Exception 2: Systems in buildings that are not high-rise, and dry systems with no automatic water supply, may be sized to obtain the required flows and pressures, when supplied by 150 psi at 1,000 gpm at the fire department connection(s).

Exception 3: In existing buildings, after shell occupancy, hose valves added to correct hose reach deficiencies created by tenant modifications may be supplied by 3 inch pipe without recalculation.

22.00.07.161

Amend NFPA 20, Subsection 4.7.7.2 to add Subsection 4.7.7.2.1 that reads as follows: A relief valve is permitted to be installed to reduce operating pressure below 175 psi at high gradient.



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22.00.07.162

Amend NFPA 20, Subsection 14.2.3 to add the following: Fire pump control equipment must be inspected and approved by a Montgomery County electrical inspector before a fire pump performance test is performed and witnessed by a Montgomery County fire inspector.

22.00.07.163

Amend NFPA 20, Subsection 4.20.7 to delete the existing wording and replace with the following: For other than static water supplies, relief valves must not be piped back into the source of the supply.

22.00.07.164

Amend NFPA 72, Subsection 10.4.3 to add Subsection 10.4.3.1 that reads as follows:

10.4.3.1 When fire alarm equipment is installed in a parking garage or other similar space, if the AHJ determines that the humidity or temperature of the space or both cannot be maintained, then the fire alarm equipment must be listed for outdoor use and the environment where it is installed.

22.00.07.165

Amend NFPA 72, Subsection 10.18.1.1 to add Subsection 10.18.1.1.3 that reads as follows: An annunciator with the following features is required when the building is greater than one story, has a sprinkler system, or has more than one type of alarm initiating device.

22.00.07.166

Amend NFPA 72, Subsection 10.18.4 to add Subsection 10.18.4.3 that reads as follows: Annunciation must be in accordance with the following:

- (1) Annunciator must have a visible signal for each different floor, zone, and device type. Supervised computer screen or printer type annunciators may be used to meet this requirement if the zone identification is approved by the Director.
- (2) Unless approved by the Director, zones must not exceed a single floor, 52,00 square feet, or 300 linear feet. Sprinkler systems are permitted to be zoned under the applicable sprinkler standard.



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- (3) In zones that are greater than 22,500 square feet, a graphic outline on or adjacent to the annunciator must be provided showing the building outline, fire alarm and sprinkler zone boundaries, “you are here” notation, north compass arrow, all stairways, stairway identification numbers, sprinkler zones, all standpipe risers, fire department connections, elevators, and the building address.
- (4) A lamp-type annunciator must have a lamp test switch unless the annunciator circuits are supervised.

22.00.07.167

Amend NFPA 72, Subsection 10.18.3.1 to delete the existing wording and replace with the following: All required annunciation means must be located at, and be visible from, the main fire department entrance unless the building has a fire command center.

22.00.07.168

Amend NFPA 72, Section 14.5 to add Subsection 14.5.8 that reads as follows:

14.5.8 Maintenance. The building owner must maintain a service contract for emergency repair of the system. The service contract must be such that telephone support is available within 2 hours, and on-site maintenance service can be provided within 24 hours of recognition that the in-building public safety radio enhancement system is not operating correctly. A copy of the contract must be submitted to the AHJ at the time of acceptance testing. If the service contract is terminated, both the building owner and contractor must notify the AHJ within 24 hours.

22.00.07.169

Amend NFPA 72, Subsection 17.7.1.7 to add Subsection 17.7.1.7.1 that reads as follows: Detectors located at the top of shafts and stairs must be on a supervisory circuit only unless a confirmation or verification feature is provided. The location must be identified at the annunciator or fire alarm control panel.

22.00.07.170

Amend NFPA 72, Subsection 17.7.4.5 to delete the existing wording and replace with the following: Activation of duct smoke detectors must sound an audible alarm in a normally occupied area or through the building fire alarm system and must be identified as duct detector.



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Where connected to the building alarm, the signal must be supervisory only and must not initiate the building evacuation alarm unless a confirmation or verification feature is provided.

22.00.07.171

Amend NFPA 72, Subsection 17.13.3 to add Subsection 17.13.3.1 that reads as follows: Standpipe or main water flow indicators, if provided, must sound a supervisory signal only.

22.00.07.172

Amend NFPA 72, Subsection 17.15.9.4 to add Subsection 17.15.9.4.1 that reads as follows: When fire alarm systems are not monitored by a UL listed central station, an approved permanent sign must be installed adjacent to each manual fire alarm box. The sign must read as follows:

Local Alarm Only:

- (1) Activate Alarm
- (2) Exit Building
- (3) Call Fire Department

22.00.07.173

Amend NFPA 72, Subsection 23.8.2.9.1 to read as follows: Where multiple control units are interconnected in a network arrangement and serve the same protected premises, the control units must be arranged to be reset or silenced from one location.

22.00.07.174

Delete NFPA 72, Subsection 23.8.2.9.2.

22.00.07.175

Amend NFPA 72, Subsection 24.8.16 by changing “two” to “six”.

22.00.07.176

Amend NFPA 72, Subsection 24.9.2 to add Subsection 24.9.2.1 that reads as follows: Radio Coverage. Radio coverage must be provided throughout the building such that a minimum of



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95% of the building (including underground levels, basements, elevators, stairways, etc.) is covered at a minimum of 95% of the time.

22.00.07.177

Amend NFPA 72, Subsection 29.8.1.1 to add Subsection 29.8.1.1.1 that reads as follows: Enclosed rooms with a closet such as dens, libraries, studies, or sitting rooms which could be used as a sleeping area must be treated as sleeping rooms.

[22.00.07.106] 22.00.07.178

Amend NFPA 80, as referenced by NFPA 1, [sections] Subsections 8.4.2.1.2, 10.4.1.2, 11.4.1.2, 11.4.3.2.2, and 13.4.2 to add the following:

Release of fire doors and shutters must not be solely by fusible link and must be accomplished by one or more of the following:

[(a)](1) [Approved] approved local smoke detection at the doors[,];

[(b)](2) [Approved] approved area smoke detection per NFPA 72[,]; or

[(c)](3) [Full] full automatic sprinkler protection for NFPA 13 with water flow interlock.

22.00.07.107

Amend NFPA 92A, Section 5.3.1(2) by adding the following: At minimum, the design must achieve the performance objectives in the condition with two doors open simultaneously. If there is a door directly to the outside from the stair, the exterior door must be one of the two doors used in the design.]

22.00.07.179

Amend NFPA 92, Subsection 4.4.2.1.5 by adding the following: At a minimum, the design must achieve the performance objectives in the condition with two doors open simultaneously. If there is a door directly to the outside from the stair, the exterior door must be one of the two doors used in the design.

[22.00.07.108] 22.00.07.180



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Amend NFPA [92B] 92, [Section] Subsection 5.2.3.1 by adding the following: The design fire must be not less than [5000] 5,000 Btu/s ([5275] 5,275 kW) [or more] unless approved by the AHJ.

[22.00.07.109]

Amend NFPA 92B, Section 5.2.4 by adding the following: At the steady phase, the design fire must be 5000 Btu/s (5275 kW) or more unless approved by the AHJ.]

[22.00.07.110] 22.00.07.181

Amend NFPA 96 as referenced by NFPA 1, [section] Subsection 1.1.1, to add an exception to read:

In places of worship and day care facilities, protection is permitted to consist of the following:

- (1) [Electrical] electrical range with not more than four heating elements, each heating element must be electronically controlled to limit the element temperature to below 670 degrees F[.];
- (2) [A] a shunt trip must be installed for the electric range. If building is equipped with a fire alarm system, the shunt trip must be interconnected with the fire alarm system. If the building is not equipped with a fire alarm system, other automatic means/devices, approved by the AHJ, to cut off power to the unit must be installed in the kitchen[.];
- (3) [Kitchen] kitchen must not be located more than one story above the level of exist discharge[.];
- (4) [Kitchen] kitchen must not be located more than one story below the level of exit discharge[.]; and
- (5) [Kitchen] kitchen must be separated from adjoining areas by fire barriers with a fire resistance rating of one hour or greater; OR, the kitchen must be protected with automatic sprinklers.

22.00.07.182



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Amend NFPA 1221, Subsection 9.6.6.1 to add the phrase: “A fire alarm permit and” at the beginning of the sentence.

22.00.07.183

Amend NFPA 1221, Subsection 9.6.7 to add new Subsection 9.6.7.7 that reads as follows: Systems must be engineered to minimize the near-far effect. Radio enhancement system designs must include sufficient antenna density to address reduced gain conditions unless one or both of the following are present:

- (1) Class A narrow band signal booster devices with independent AGC/ALC circuits per channel are used; and/or
- (2) systems where are portable devices within the same band are using active power control features.

22.00.07.184

Amend NFPA 1221, Subsection 9.6.7.3 to delete the existing wording and replace with the following: Critical Areas. Critical areas include exist passageways, stairwells, exits, common/public areas, base building lobby areas, areas of public gathering during an emergency, fire pump and command/control rooms, dangerous process areas (e.g., dipping process areas, hazardous materials handling areas, etc.) electrical and mechanical utility rooms, police holding areas, elevator lobbies, sprinkler system sectional valve locations, elevator shafts, and must be provided with 99 percent floor area radio coverage.

22.00.07.185

Amend NFPA 1221, Subsection 9.6.7.4 to delete the existing wording and replace with the following: Radio Coverage. Radio coverage must be provided throughout the building such that a minimum of 95% of the building (including underground levels, basements, elevators, stairways, etc.) is covered at a minimum of 95% of the time.

22.00.07.186

Amend NFPA 1221, Subsection 9.6.13.2.1 to add Subsection 9.6.13.2.1.1 that reads as follows: “Where a fire command center is not present, the dedicated monitoring panel must be located adjacent to the main fire alarm control panel for the building.”

22.00.07.187



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Amend NFPA 1221, Subsection 11.3.9.1 to delete the entire Subsection and replace with the following:

11.3.9.1.1 Testing Procedure. The test plan must ensure testing throughout the building. Test procedures must be as directed by the design professional and the AHJ. Using the Montgomery County control channel, each floor must be RF (radio frequency) signal level mapped utilizing a calibrated, portable spectrum analyzer. Each floor must be divided into equal grids of no larger than 25 feet by 25 feet. Individual testing points must not be spaced greater than 25 feet apart. Each grid must meet the required signal strength level and provide a Delivered Audio Quality (DAQ) of not less than 3.5. (DAQ 3.5 is defined as “Speech understandable with repetition rarely required. Some noise/distortion.”) A maximum of two non-adjacent grids will be permitted to fail on the same floor. Failure of any two adjacent grids is considered a failure for the entire floor.

11.3.9.1.2 Systems incorporating Class B signal-booster devices or Class B broadband fiber remote devices must be tested using two portable radios simultaneously conducting subjective voice quality checks. One portable radio must not be positioned greater than 10 feet from the indoor antenna. The second portable radio must be positioned at a distance that represents the farthest distance from any indoor antenna. With both portable radios simultaneously keyed up on different frequencies within the same band, subjective audio testing must be conducted and must comply with the minimum acceptable DAQ level of 3.5.

11.3.9.1.3 The design and acceptance testing of the in-building public safety radio enhancement system must be performed under the supervision of a professional engineer registered in the State of Maryland with a minimum of five years of experience in the design, installation, and alignment of emergency responder radio communication enhancement systems.

11.3.9.1.4 Acceptance test data of the system must be approved by the AHJ prior to final fire alarm system approval.

22.00.07.188

NFPA 1225, 2022 edition, Chapter 18, is adopted in its entirety.

[22.00.07.111



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Amend NFPA 101, Section 2.2 by adding section 2.2.1 that reads as follows: Wherever NFPA 5000, 2012 edition is referenced, other than for extracted text, substitute the building code that is in effect in Montgomery County.]

[22.00.07.112] 22.00.07.189

Amend NFPA 101, [Section] Sections 2.2 [to add the referenced publication NFPA 1124 Code for Manufacture, Transportation, and Retail Sales of Fireworks and Pyrotechnic Articles, 2006 edition] and 2.4 by deleting the referenced publication NFPA 150 Standard on Fire and Life Safety in Animal Housing Facilities, 2019 edition.

22.00.07.190

Amend NFPA 101, Section 2.4, by adding Subsection 2.4.1 that reads as follows: Wherever NFPA 5000, 2021 edition is referenced, other than for extracted text, substitute the building code that is in effect in Montgomery County.

[22.00.07.113] 22.00.07.191

Amend NFPA 101, [section] Section 3.3 [is amended] as follows:

[(a)](1) Subsection [3.3.62] 3.3.64, add the following new [subsection] Subsection and definition:

[3.3.62.3] 3.3.64.3 Bulkhead Door. A type of door assembly covering an opening in the ground providing direct access to a basement, the floor of which is not more than eight (8) feet below ground level. The door consists of a single rigid leaf or two overlapping rigid leaves or covers which need to be pushed or lifted upwards in order to be opened. A person, after opening the door, can walk up a series of steps to escape to the outside.

(2) Subsections 3.3.68.1 and 6.1.8.1.1 to replace “three” with “five” and delete “, if any, accommodated in rented rooms”;

(3) Subsection 3.3.84, amend the definition of “Existing” by deleting the existing wording and replace with the following: That which is already in existence greater than one calendar year after being approved, accepted, or commissioned by the authority having jurisdiction;



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[(b)](4) [Amend Subsection 3.3.142.1] amend Subsections 3.3.150.1, 16.6.1.1.2 and 17.6.1.1.2 to delete [to change the definition of “Day-Care Home” by deleting the phrase] “...more than three, but...”₂

[(c)](5) [Amend Subsection 3.3.190.4] amend Subsections 3.3.198.4 and 6.1.4.1 to delete [to change the definition of “Day Care Occupancy” by deleting the phrase] “...four or more...”₂

[(d)](6) [Amend] amend Subsections [3.3.190.12] 3.3.150.2, 6.1.5.1, 3.3.198.12 and 6.1.9.1 to [change the definition of “Residential Board and Care Occupancy” to] replace the word “four” with “six”[.]; and

(7) amend Subsection 3.3.254 to add the following new Subsection and definition:

3.3.254.1 Incapable of self-preservation. A person who, because of age, physical or mental disability, medical or therapeutic intervention, medication, etc., is unable to act to protect themselves from harm during an emergency situation without assistance.

[22.00.07.114] 22.00.07.192

Amend NFPA 101, [Section] Subsections 4.5.8 and [Section] 4.6.12.1 to delete the phrase “for compliance with the provisions of this Code”.

22.00.07.193

Amend NFPA 101, Subsection 4.6.10.2 to replace “Where required by Chapters 11 through 43, construction” with “Construction”.

[22.00.07.115] 22.00.07.194

Amend NFPA 101, [Section] Subsection 4.6.12.3 to delete the phrase “by the Code” and add the following phrase after the word “removed”: by qualified personnel. Removal of life safety features must be approved by the Department of Permitting Services.

[22.00.07.116] 22.00.07.195

Amend NFPA 101, [section] Subsection 4.8.2, to add the following [subsection] Subsection:



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4.8.2.4 Emergency action plans must be maintained in a location approved by the [authority having jurisdiction] AHJ.

[22.00.07.117]

Amend NFPA 101, subsection 6.1.4.1 by deleting the phrase “...four or more...”]

[22.00.07.118]

Amend NFPA 101, subsection 6.1.9.1 to change the definition of “Residential Board and Care Occupancy” to replace the word “four” with “six”.]

22.00.07.196

Amend NFPA 101, Subsection 7.1.10 to add the following Subsection:

7.1.10.3 Trash or recyclable materials awaiting scheduled collection cannot be placed in exits, exit access corridors, or on egress balconies.

[22.00.07.119] 22.00.07.197

Amend NFPA 101, [subsection 7.2.1.5.8] Subsection 7.2.1.5.7, to add the phrase “and all stairway doors must be unlocked simultaneously without unlatching upon a signal from the fire command center.” to [items (2) and] item (3).

[22.00.07.120] 22.00.07.198

Amend NFPA 101, [subsection 7.2.1.5.8.1] Subsection 7.2.1.5.7.1, to add an item (6), to read:

- (6) Entry levels must provide free access to an approved second exit. These levels must be designated in “core/shell” building permit drawings with future tenant layouts arranged accordingly.

[22.00.07.121]

Amend NFPA 101, subsection 7.2.1.5.12 to replace “required” with “provided”.]

[22.00.07.122] 22.00.07.199



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Amend NFPA 101, [Section 7.2.1.6.3] Subsections 7.2.1.6.4.1, 7.2.1.14.1, and 7.2.1.15.1 to replace the phrase “in Chapters 11 through 43” with the phrase “by the AHJ and Chapters 11 through 43”.

[22.00.07.123] 22.00.07.200

Amend NFPA 101, [subsection] Subsection 7.2.1.7.1 to delete “required to be”.

[22.00.07.124] 22.00.07.201

Amend NFPA 101, [subsection 7.2.1.7.3] Subsection 7.2.1.7.4 to delete “Required”.

[22.00.07.125] 22.00.07.202

Amend NFPA 101, [Section] Subsection 7.2.2.1 to add the following [subsection] Subsection:

7.2.2.1.3 In new installations, at least one exit stair that serves all stories of the building must be accessible by an internal corridor from the main entrance of the building or fire department response location.

[22.00.07.126] 22.00.07.203

Amend NFPA 101, [section 7.2.2.4.6.2.(1)] Subsection 7.2.2.4.5.2, by replacing the [word] words “Existing required” with “Interior”.

[22.00.07.127] 22.00.07.204

Delete NFPA 101, Subsection 7.2.3.9.2(3).

[22.00.07.128] 22.00.07.205

Amend NFPA 101, Table 7.3.1.2 to add the following:

| Use | | (ft ² per person) | (m ² per person) |
|--------------|-----------------------------|---|---|
| Assembly Use | Tennis court (area of play) | 50 (net) | 15.24 (net) |
| Assembly Use | Bars ^g | [1 person/]18 linear in. ^[g] /pers | [1 person/]455 linear mm ^[g] /pers |



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| Business Use | Core/shell | 65 (gross) | [6] 16 (gross) |
| g: Measured at the patron side of the bar | | | |

[22.00.07.129] 22.00.07.206

Amend NFPA 101, Subsection 7.9.1.2, to replace the word “only” in the first sentence with “but not be limited to.”

[22.00.07.130] 22.00.07.207

Amend NFPA 101, [subsection] Subsection 7.10.8.3.1 by adding: If the sign is on the door, then the door must be equipped with an approved self-closing device.

[22.00.07.131]

Amend NFPA 101, subsection 8.6.6(3) by adding a second sentence:

Areas are considered to satisfy the requirements of ‘readily obvious’ when the communicating space is proved with automatic smoke detection and alarm in accordance with NFPA 72.]

[22.00.07.132] 22.00.07.208

Amend NFPA 101, [subsection] Subsection 8.6.7(6)(b) by adding the following phrase at the end of the sentence: “in a location approved by the AHJ”.

22.00.07.209

Amend NFPA 101, Subsection 8.7.3.3 to replace “following criteria:” in the opening sentence with “following criteria, unless otherwise permitted by the AHJ:”

[22.00.07.133] 22.00.07.210

Amend NFPA 101, Section 9.1 by [adding new subsection 9.1.5 as follows] deleting the text in Section 9.15 and replacing it with the following:

[9.1.5 In-Building Public Safety Radio Enhancement System]
9.15 Emergency Responder Radio Communication Enhancement Systems (ERRCES).



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[9.1.5.1] All newly constructed below ground floors of a building, all floors in buildings greater than 25,000 ft² per floor, and all floors of buildings greater than 3 stories in height must meet minimum emergency radio communication system performance criteria adopted by Montgomery County. Proof that minimum performance criteria are met must be provided in writing to the AHJ.]

9.15.1 For newly constructed buildings, ERRCES must be provided where any of the following conditions exist:

- (1) on all floors of a building located below the level of exit discharge;
- (2) on all floors of a building in which any floor of the building exceeds 25,000 ft² per floor in gross aggregate area;
- (3) throughout any building in which the building area exceeds 100,000 ft² in gross aggregate area; and
- (4) on all floors of a building for any building greater than three (3) stories in height above the lowest level of fire department vehicle access.

[(1)](a) System performance testing must be performed in accordance with technical standards for systems and testing personnel established by Montgomery County.

[(2)](b) Compliance testing must be performed at time of occupancy.

[(3)](c) Field testing may be performed upon reasonable notification to the owner or occupant by any authorized fire and rescue personnel.

Exception: [Section 9.1.5.1 does not apply to one] One- and two-family dwellings and [town homes] townhomes.

[9.1.5.2] 9.15.2 In existing buildings, where emergency radio communication system performance is reported to be inadequate, and the building meets the criteria of 9.15.1(a) through (d), the Director [may] is permitted to require a technical analysis to determine the level of performance of the emergency radio communication system. The technical analysis must comply with Section 9.6.7 of the 2019 edition of NFPA 1221, and the results certified by a Professional Engineer in the State of Maryland with at least five (5) years of experience in the design, installation, and alignment of emergency responder radio communication enhancement systems. Where the analysis demonstrates unacceptable



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performance, an in-building public safety radio enhancement system must be provided.

[9.1.5.3] 9.15.3 [Where installed to achieve the minimum emergency radio communication system performance criteria, an in-building public safety radio enhancement system must be designed in accordance with NFPA 73, as amended.] The system must be designed in accordance with Section 9.6 of the 2019 NFPA 1221, Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems, and the frequencies listed in the DPS Emergency Responder Radio Coverage In-Building Radio Signal Amplification System Standard, effective April 1, 2005.

[9.1.5.4] 9.15.4 All testing, design, installation, inspection, and maintenance required by Section [9.1.5] 9.15 must be performed by personnel approved by the [AHJ] Director.

22.00.07.211

Amend Subsections 9.6.1.3 and 9.11.1 to delete “required by this Code”.

[22.00.07.134] 22.00.07.212

NFPA, [subsection] Subsection 9.6.2.6 is amended as follows:

[(a)](1) Add the following sentence to the end of the [section] Section: “This paragraph does not permit the omission of manual fire alarm boxes in accordance with other provisions of this [subsection] Subsection unless specifically permitted by Chapters 11 through 43.”

[(b)](2) Add two new [subsections] Subsections as follows:

9.6.2.6.1 Zoned fire alarm systems must have manual pull stations located at the entrance to each exit enclosure and at the main exit.

9.6.2.6.2 When a fire alarm system is required in a multiple tenant building, for each tenant exiting directly to the exterior of the building, a manual pull station and approved occupant notification must be located at each required or marked exit.

[22.00.07.135] 22.00.07.213



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Amend NFPA 101, [Section] Subsection 9.6.2.9 to add the following sentence: “In environments not suitable for smoke detectors, alternate means of detection must be provided and must comply with NFPA 72, [Section 10.14.1 (2013 Edition) 2019 edition].”

[22.00.07.136]

NFPA 101, add new subsection 9.6.2.11 to read: “Where required by another section of this code, carbon monoxide alarms or carbon monoxide detectors must be installed in accordance with NFPA 720.”]

[22.00.07.137] 22.00.07.214

Amend NFPA 101, [Section] Subsection 9.6.3.2.1 to delete the word “lobby,”.

[22.00.07.138] 22.00.07.215

Amend NFPA 101, [Section] Subsection 9.6.3.4, [by adding the following at the end of the sentence: “only when the initial fire alarm is automatically transmitted without delay] by deleting the phrase after the words “without delay” and replacing it with the following: “to a listed central station in accordance with 9.6.4.”

[22.00.07.139] 22.00.07.216

NFPA 101, [Section 9.6.3.7] Subsection 9.6.3.8, add a second sentence to read: “Required audibility must be met with all intervening doors (between any space and the audible devices) closed.”

22.00.07.217

Amend NFPA 101, Subsections 9.6.3.10 and 9.6.3.10.1 by deleting the word “live”.

[22.00.07.140] 22.00.07.218

Amend NFPA 101, [Section 9.6.3.9] Subsection 9.6.3.10 by adding: Where voice type occupant notification is used, automatic pre-recorded messages must be used [complying with Section 9.6]. Live voice as the sole notification method is prohibited.

Exception: Previously “approved” live voice systems are permitted to remain.



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[22.00.07.141] 22.00.07.219

Amend NFPA 101, [Section] Subsection 9.6.4.2 by deleting the list of four items and replace the phrase “via any of the following means acceptable to the authority having jurisdiction” with “by a listed central station fire alarm system.”

[22.00.07.142] 22.00.07.220

[Delete] Amend NFPA 101[, subsection] to delete Subsections 9.6.4.3, 9.6.8.4.3, 9.6.8.4.4, and 9.6.8.4.5.

[22.00.07.143] 22.00.07.221

Amend NFPA 101, [subsection 9.6.5.2(3)] Subsection 9.6.6.2(3), to add the following sentence: “Manual fire alarm initiation must not activate floor or zone-dependent smoke control systems”

[22.00.07.144]

Delete NFPA 101, subsections 9.6.7.4.3, 9.6.7.4.4 and 9.6.7.4.5.]

22.00.07.222

Amend NFPA 101, Subsection 9.6.8.3 to delete the phrase after the word “zone”.

[22.00.07.145] 22.00.07.223

Amend NFPA 101, [Section] Subsection 9.7.1.1 to add the following [subsection] Subsection:

9.7.1.1.1[.] For new installations, drop-out ceilings as referenced in NFPA 13, Subsections [8.15.14] 9.2.16 and 9.3.11 are prohibited.

[22.00.07.146] 22.00.07.224

Amend NFPA 101, [subsection 9.7.2.2] Subsection 9.7.2.2.1, the first sentence [is amended] to read: “Where supervised automatic sprinkler protection is required [by another section of this Code], waterflow alarms must be automatically transmitted to a listed central station.”

[22.00.07.147] 22.00.07.225

Amend NFPA 101, [subsection] Subsection 9.8.1 to read as follows:



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“Where water as an extinguishing agent is not compatible with the fire hazard or is prohibited by law, statute or ordinance, the affected area must be equipped with an approved automatic fire suppression system utilizing a suppression agent that is compatible with the fire hazard. Such system must be installed in accordance with the appropriate standard as determined in Table 9.8.1.”

[22.00.07.148]

Amend NFPA 101, Section 9.11.1 to delete the phrase “required by this Code”.]

22.00.07.226

Amend Subsections 9.11.4.1 and 9.14.1 to replace “Chapter 11 through 43” with “the AHJ or Chapters 11 through 43”.

22.00.07.227

Amend Subsections 10.4.1 and 10.5.1 to add the following at the beginning of each sentence: “Where required by the AHJ,”.

[22.00.07.149] 22.00.07.228

Amend NFPA 101, [Section 11.8.3.1] Subsection 11.8.1.2 [by adding the phrase “except for existing high-rise apartment occupancy buildings”] to add the following at the end of the first sentence. [Add the sentence]“High-rise buildings do not include a structure or building used exclusively for open-air parking”.

[22.00.07.150] 22.00.07.229

Amend NFPA 101, [subsection] Subsection 11.8.4.1, to add new [subsection] Subsection 11.8.4.1.1 that reads as follows:

11.8.4.1.1 In buildings having staged evacuation, the voice fire alarm system must send a predetermined message to the floor where the alarm originated, to the floor immediately below and to the floor immediately above, providing information and direction to the occupants. Any subsequent alarm(s) on other than the initial fire floor must initiate the voice fire alarm as described above. The voice fire alarm must be designed to be heard clearly by all occupants within the designated portions thereof as required by Section 9.6, but it must not sound automatically in elevator cars and enclosed exit stairways.



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Communicating levels are considered one floor/fire area for the audible and visual fire alarm signals.

22.00.07.230

Amend NFPA 101, Subsection 11.8.4.2.2 to delete the existing wording and replace with the following: The requirement of Subsection 11.8.4.2.1 does not apply if an approved two-way radio communications enhancement system is installed throughout the building.

[22.00.07.151] 22.00.07.231

Amend NFPA 101, [section] Subsection 11.8.6.1, to [add a new subsection 11.8.6.1.1 to] delete the existing wording and read:

11.8.6.1 In new installations, the emergency command center must have a door directly to the exterior of the building on the address side. The exterior door to the emergency command center must be within 50 feet of unimpeded travel to a fire department access road. A fire department access box must be provided in an approved location within six (6) feet of the door to the emergency command center. The exterior door to the emergency command center must be identified on the exterior face as the emergency command center in a manner acceptable to the AHJ.

22.00.07.232

Amend Subsection 11.8.6.2 to replace “approved by the fire department” with “approved by the AHJ”.

[22.00.07.152] 22.00.07.233

Amend NFPA 101, [subsections 11.8.6.2 (8) and (10)] Subsections 11.8.6.6 (5) and (6), [are amended] to read as follows:

[(8)](5) Emergency generator status indicators, and remote starting.

[(10)](6) Fire pump status indicators and remote starting.

[22.00.07.153]

Amend NFPA 101, subsection 11.8.6, to add a new subsection 11.8.6.3 to read:



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11.8.6.3 The emergency command center must also comply with the provisions of Section 911 of the International Building Code, 2015 edition.]

[22.00.07.154] 22.00.07.234

Amend NFPA 101, Section 11.11.2.1 to add the phrase “or other testing standard approved by the AHJ”.

22.00.07.235

Delete Subsection 11.12.2.

[22.00.07.155] 22.00.07.236

Amend NFPA 101, [Sections] Subsections 12.2.4.1 and 13.2.4.1 to add the following:

- (1) Not less than two separate exits must be provided on every story.
- (2) Not less than two separate exits must be accessible from every part of every story.

22.00.07.237

Delete Subsections 12.2.1.2, 14.2.1.5, 16.2.1.1, 16.6.2.1.2, 24.2.8, 26.2.4, 28.2.1.4, 30.2.1.3, 32.2.2.7, 32.3.2.1.3, 36.2.1.6, 38.2.1.6, 40.2.1.3, and 42.2.1.3.

[22.00.07.156] 22.00.07.238

Amend NFPA 101, [subsection] Subsections 14.2.11.1.1(1) and 15.2.11.1.1(1) [is amended] by adding [the following after “...tools”,] “keys, special knowledge, or excessive force.” after the word “tools”.

22.00.07.239

Amend NFPA 101, Subsections 14.3.4.1 and 15.3.4.1 to add new Subsections 14.3.4.1.3 and 15.3.4.1.3 that read as follows:

For the purposes of this Chapter, each industrialized building, which is an independently certified unit serving as a portable or temporary classroom, must be considered a single building regardless of the number of units in the cluster sharing an egress system.



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22.00.07.240

Amend NFPA 101, Subsections 14.2.5.1 and 15.2.5.1 to add Subsections 14.2.5.1.1 and 15.2.5.1.1 that reads as follows:

Where industrialized buildings serving as portable or temporary classrooms are clustered into groups of buildings, each classroom must exit directly onto a common deck or other all-weather walking surface. This common deck must have two remote, accessible exits with a common path no greater than 75 feet. An “Exterior Area for Assisted Rescue” in accordance with the 2021 edition of the International Building Code, Section 1009.7, is permitted to be used as one of the accessible means of egress.

[22.00.07.157] 22.00.07.241

Amend NFPA 101, Subsections 14.7.2.3 and 15.7.2.3 to delete existing wording and replace with the following:

Fire emergency egress drills must be conducted as follows:

- (1) At least one fire emergency egress drill must be conducted every month the facility is in session, unless the following criteria are met:
 - (a) [In] in climates where the weather is sever, the monthly fire emergency egress drills may be deferred; and
 - (b) [In] in educational occupancies which are:
 - (i) [Fully] fully protected by an automatic sprinkler system, five (5) annual fire emergency egress drills must be conducted, with at least two (2) of the required drills conducted in the first four months of the school year; or
 - (ii) [Not] not fully protected by an automatic sprinkler system, eight (8) annual fire emergency egress drills must be conducted, with at least three (3) of the required drills conducted in the first four months of the school year.
- (2) All occupations of the building must participate in the fire emergency egress drill.



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- (3) One fire emergency egress drill, other than for educational occupancies that are open on a year-round basis, must be conducted within the first 30 days of operation.

22.00.07.242

Amend NFPA 101, Subsections 15.2.2.2.4.1 and 17.2.2.2.6.1 to add “provided that the locking device is of a type that is readily distinguishable as locked” to the end of item (3).

22.00.07.243

Amend NFPA 101, Subsections 15.2.2.2.4.1(9) and 17.2.2.2.6.1(9) to add a second sentence: Any locking or unlocking condition approved by the Director as part of the emergency action plan is permitted to remain in place.

22.00.07.244

Delete NFPA 101, Subsection 15.2.4.2 item (3).

[22.00.07.158] 22.00.07.245

Amend NFPA 101, [sections 16.1.1.7 and 17.1.1.7] Subsections 16.1.2 and 17.1.2, to add [subsections 16.1.1.7.1 and 17.1.1.7.1] Subsections 16.1.2.2 and 17.1.2.2 as follows:

Day-care centers providing day care for school age children before and after school hours in a building that is in use as a public or private school are not required to meet the provisions of this chapter[,] but must meet the provisions for educational occupancies.

22.00.07.246

Amend NFPA 101, Subsection 16.1.6.2 to add a new Subsection as follows:

16.1.6.2.1 Where day-care occupancies, with clients who are 30 months or younger in age or who are incapable of self-preservation, are located three (3) or more stories above the level of exit discharge, an independent means of egress dedicated for use by the day-care occupancy must be provided. Exceptions:

- (1) high-rise buildings with an approved phased evacuation plan and
- (2) day-care homes.



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[22.00.07.159] 22.00.07.247

Amend NFPA 101, [subsections] Subsections 16.2.11.1.1 and 17.2.11.1.1 to add the following item:

- (4) For windows at grade, the minimum net clear opening must be 5.0 square feet.

[22.00.07.160]

Amend NFPA 101, subsection 16.2.11.1.2, to add the following item:

- (3) Group Day-Care Homes and Family Day-Care Homes protected by hard-wired, interconnected smoke alarms or detectors in each room or space of the building (including corridors). Such smoke alarms or detectors are not necessary in bathrooms, closets, attached garages, or attic spaces without storage. In addition, if the building’s furnace, hot water heater, and/or clothes dryer is fueled by natural gas or propane gas, then these areas must be protected by sprinklers supplied by the domestic water supply.]

22.00.07.248

Amend NFPA 101, Subsections 16.3.2.1(2) and 17.3.2.1(2) to add new Subsection (e) that reads.

Building mechanical spaces housing fuel-fired equipment or appliances for purposes including, but not limited to, heating, ventilation, or clothes drying.

[22.00.07.161] 22.00.07.249

Amend NFPA 101, [subsections] Subsections 16.3.4.5 and 17.3.4.5 to add the following exception:

Exception: Day-care occupancies located in school facilities where enrollment is limited to children capable of self-reservation, where no sleeping facilities are provided and the school is provided with approved full automatic sprinkler protection.

22.00.07.250

Amend NFPA 101, Subsection 16.3.5.1 to add the following:



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Automatic sprinkler protection is not required if all of the following conditions are met:

- (1) the day care center has not more than 30 clients;
- (2) all rooms used for day care are located on the level of exit discharge; and
- (3) all rooms used for day care have at least one exterior exit door at grade level.

[22.00.07.162]

Amend NFPA 101, to add new subsection 16.3.5.4 to read:

16.3.5.4 Buildings containing new day care centers above or below the level of exit discharge must be protected throughout with full automatic sprinkler protection installed in accordance with section 9.7]

[22.00.07.163] 22.00.07.251

Amend NFPA 101, [subsections 16.6.1.1.2, and 17.6.1.1.2,] Subsections 16.6.1.4.1.1 and 17.6.1.4.1.1 to delete the phrase "...more than 3, but..." and replace "seven" with "nine".

[22.00.07.164] 22.00.07.252

Amend NFPA 101, [subsections 16.6.1.4.1.1, 17.6.1.4.1.1] Subsections 16.6.1.4.1.2 and 17.6.1.4.1.2 [are amended as follows:

- (a) Subsections 16.6.1.4.1.1 and 17.6.1.4.1.1, delete the phrase "more than three but" and replace the phrase "seven clients" with "nine clients".
- (b) Subsections 16.6.1.4.1.2 and 17.6.1.4.1.2,] to replace "7" with "9".

[22.00.07.165] 22.00.07.253

Amend NFPA 101, [subsections] Subsections 16.6.1.7.1 and 17.6.1.7.1, to replace "both" with "all" and items (1) and (2) with the following items:

- (1) The minimum staff-to-client ratio must be not less than one staff for up to eight clients, including the caretaker's own children incapable for self-preservation.



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- (2) There must be not more than four clients incapable of self-preservation, including the caretaker’s own children incapable for self-preservation.
- (3) A staff-to-client ratio of at least one staff to every two clients incapable of self-preservation must be maintained at all times.
- (4) The staff-to-client ratio may be modified by the authority having jurisdiction where safeguards in addition to those specified in this section are provided.

[22.00.07.166] 22.00.07.254

Amend NFPA 101, [subsections 16.6.2.1 and 17.6.2.1] Subsections 16.6.2.1.1 and 17.6.2.1.1, [and subsections 16.6.2.4.5 and 17.6.2.4.5] to add the following sentence: “Bulkhead doors are not permitted to serve as a primary means of escape.”

[22.00.07.167] 22.00.07.255

Amend NFPA 101, [subsections] Subsections 16.6.2.2 (Reserved) and 17.6.2.2 (Reserved) [are amended] as follows:

SLIDING DOOR

For family day-care homes, a sliding door used as a required means of egress must comply with the following conditions:

- (1) [The] the sliding door must not have more than one, easily operated, locking device that does not require special knowledge, effort, or tools to operate;
- (2) [Draperies] draperies, screens, or storm doors that could impede egress must not be present;
- (3) [The] the sill or track height may not exceed ½ inch above the interior finish floor;
- (4) [The] the surface onto which exit is made must be an all-weather surface such as a deck, patio, sidewalk, etc.;
- (5) [The] the floor level outside the door may be one step lower than the inside, but not more than 8 inches lower;
- (6) [The] the sliding door must open to a clear open width of at least 28 inches;



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- (7) [Before] before day care use, each day the sliding door must be unlocked and tested to the full required width to be sure it is operating properly, and the door must be nonbinding and slide easily;
- (8) [During] during periods of snow or freezing rain, door tracks must be cleared out and the door opened periodically throughout the day in order to ensure proper operation.

[22.00.07.168] 22.00.07.256

NFPA 101, [subsections] Subsections 16.6.2.3 (Reserved) and 17.6.2.3 (Reserved) are amended as follows:

SPECIAL MEANS OF ESCAPE REQUIREMENTS: For family day-care homes, dead-bolt locks must be provided with approved interior latches, or these locks must be of a captured key design from which the key cannot be removed from the interior side of the lock when the lock is in the locked position. These locks must be unlocked at all times when the home is occupied for the purpose of family day care. Exception: A double-keyed dead-bolt lock may be used on the secondary means of escape if the key is readily accessible and the lock is unlocked at all times the home is occupied for the purpose of family day care.

[22.00.07.169]

Amend NFPA 101, subsection 16.6.3.4 (Reserved) as follows:

16.6.3.4.4 Approved battery-powered smoke alarms rather than house electrical service-powered smoke alarms required by 16.6.3.4.3 are permitted where the facility has testing, maintenance and battery replacement programs that ensure reliability of power to the smoke alarms.]

22.00.07.257

Delete NFPA 101, Subsections 16.6.2.4.5(3) and 17.6.2.4.5(3).

22.00.07.258

Amend NFPA 101, Subsection 16.6.3.4.5 to replace “Reserved.” with the following: For compliance with Subsection 43.7.2.1(2), approved battery-powered smoke alarms, rather than



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house electrical service-powered smoke alarms required by Subsection 16.6.3.4.4, are permitted where the facility has testing, maintenance, and smoke alarm replacement programs that ensure reliability of power to the smoke alarms.

[22.00.07.170] 22.00.07.259

Amend NFPA 101, [subsections] Subsections 16.7.5 and 17.7.5, to add [an Exception]:

Exception: Day-Care Homes with no more than three clients for overnight lodging.

[22.00.07.171]

Amend NFPA 101, subsection 17.3.4.5 to add the following item to the list:

- (3) Group Day-Care Homes and Family Day-Care Homes which are:
 - (a) Protected by hard-wired, interconnected smoke alarms or detectors in each room or space of the building (including corridors). Such smoke alarms or detectors are not necessary in bathrooms, closets, attached garages, or attic spaces without storage; and
 - (b) When the building’s furnace, hot water heater, and/or clothes dryer is fueled by natural gas or propane gas, these areas are protected by sprinklers supplied by the domestic water supply.]

22.00.07.260

Amend NFPA 101, Subsections 17.6.3.4.5, 26.3.4.5.3, and 33.3.3.4.7.2 to delete “existing” and replace “battery” with “smoke alarm”.

22.00.07.261

Amend NFPA 101, Subsection 18.2.2.2.10 to add the word “lowest” prior to the phrase “level of fire department vehicle access”.

22.00.07.262

Amend NFPA 101, Table 19.1.6.1 to delete footnotes “c” and “d” from both rows of “Type V” construction.



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22.00.07.263

Amend NFPA 101, Subsections 19.1.6.7 and 19.1.6.8 to delete item (2).

22.00.07.264

Amend NFPA 101, Subsection 19.1.6.7, item (5) to replace “Section 19.6” with “Section 9.6”.

22.00.07.265

Amend NFPA 101, Subsections 20.1.1.4.3.2 and 21.1.1.4.3.2 to delete the wording after the “,” and replace it with “materials in accordance with the 2019 edition of NFPA 241, Section 4.3 Temporary Enclosures, are permitted.”

[22.00.07.172] 22.00.07.266

Amend the following NFPA 101 [sections] Sections and [subsections] Subsections as follows:

- [(a) Subsection 17.6.3.4.4, delete “Existing...”]
- [(b)](1) Amend [Section 22.4.5.1.3] Subsection 22.4.6.1.3 to delete the phrase “or [22.4.5.1.5] 22.4.6.1.5”.
- [(c) Sections 22.4.5.1.4(1) and 23.4.5.1.4(1) to replace the phrase “2 minutes” with “30 seconds”.]
- [(d) Sections 22.4.5.1.4(2) and 23.4.5.1.4(2) to replace the phrase “2 minute” with “30 seconds”.]
- [(e)](2) Delete NFPA 101, [Sections 22.4.5.1.5 and 23.4.5.1.5] Subsections 22.4.6.1.5 and 23.4.6.1.5.
- [(f)](3) Delete NFPA 101, [Sections 22.4.5.2 and 23.4.5.2] Subsections 22.4.6.2 and 23.4.6.2.
- [(g)](4) Amend [Section 23.4.5.1.3] Subsection 23.4.6.1.3 to delete the phrase “or [23.4.5.1.5] 23.4.6.1.5”.

[22.00.07.173] 22.00.07.267



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Amend NFPA 101, [subsection] Subsection 24.1.1.2 to replace the word “three” with “five” and to delete the phrase “, if any, accommodated in rented rooms”.

[22.00.07.174] 22.00.07.268

Amend NFPA 101, [subsections] Subsections 24.2.2.3.3, 32.2.2.3.1(3) and 33.2.2.3.1(3) to insert the phrase “, not less than 5.0 ft² [when at] for grade floor windows” after the phrase “5.7 ft²”.

[22.00.07.175] 22.00.07.269

Amend NFPA 101, [subsection] Subsection 26.1.1.1., to change “buildings” to “buildings that do not qualify as one- and two-family dwellings”.

22.00.07.270

Amend NFPA 101, Subsection 26.3.4.6.1 to delete the word “new”.

22.00.07.271

Delete NFPA 101, Subsections 26.3.4.6.3(3), 28.3.4.7.3(3), 29.3.4.3.6, 29.3.4.5.2, 29.3.4.6.3(3), 30.3.4.2.2, 30.3.4.3.4, 30.3.4.6.3(3), 31.3.4.2.2, 31.3.4.5.2, 32.2.3.4.4.3(3), and 32.3.3.4.9.3(3).

22.00.07.272

Amend NFPA 101, Subsections 26.3.6.2.2, 28.3.5.3, 30.3.5.1.2, 31.3.5.2, 32.2.3.5.3.1, 33.2.3.5.3.4, 33.2.3.5.3.5, and 33.3.3.5.1.1 to change “in height above grade plane” to “above the lowest level of fire department vehicle access.”

22.00.07.273

Amend NFPA 101, Section 26.4 to delete the existing wording and replace it with the following: Lodging and rooming occupancies must comply with Chapter 11 where located in a special structure.

[22.00.07.176] 22.00.07.274

Amend NFPA 101, [subsection 28.3.4.3.5] Subsection 28.3.4.3.6, to delete all wording after “provided” in the first sentence only.

[22.00.07.177]



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Delete NFPA 101, subsections 29.3.4.5.2 and 31.3.4.5.2.]

[22.00.07.178

Amend NFPA 101, Section 30.2.4.3, after the word “exits” insert the phrase “which are provided on every story and which are”.]

[22.00.07.179] 22.00.07.275

Amend NFPA 101, [Section 30.3.4.3.2] Subsections 30.3.4.2.1 and 31.3.4.2.1 to delete [phrase “unless the building complies with either 30.3.4.3.3 or 30.3.4.3.4] the wording after “with 9.6.2”.

[22.00.07.180] 22.00.07.276

[Delete] Amend NFPA 101, [subsections] Subsection 30.3.4.3.3 [and 30.3.4.3.4] to delete the phrase “unless the building complies with either 30.3.4.3.4 or 30.3.4.3.5” and delete Subsection 30.3.4.3.4.

[22.00.07.181] 22.00.07.277

[Delete] Amend NFPA 101, [Section 31.3.5.12] Subsection 31.3.5.7 to delete the phrase “seven or more stories in height”.

[22.00.07.182

Amend NFPA 101, t add new subsections 32.2.3.4.3.5, and 32.3.3.4.9 to read: “Carbon monoxide alarms or detectors must be installed as follows:

- (1) In any dwelling unit or sleeping unit, where the unit is served by or contains a fuel burning appliance or fireplace; and
- (2) In common areas, whether the common areas are served by a fuel burning appliance of ire place.”]

22.00.07.278

Delete NFPA 101, Subsections 32.2.3.5.2, 33.2.3.5.3.6, 33.3.3.4.6.1, 33.3.3.4.7.3, and 33.3.3.4.8.2.



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[22.00.07.183]

Amend NFPA 101, Sections 32.7.3.6 and 33.7.3.6 to add a sentence as follows: “If more than three residents are not able to participate in the drill, the facility is considered as a Health Care Occupancy and must be reevaluated in accordance with Section 43.7.]

22.00.07.279

Amend NFPA 101, Subsection 32.2.3.5.3.2 to add the following at the beginning of the Section, “In small board and care homes serving eight or fewer residents,” and delete item (2).

22.00.07.280

Amend NFPA 101, Subsection 33.3.3.4.6.2 and delete the wording before the word “emergency”.

[22.00.07.184] 22.00.07.281

Amend NFPA 101, [subsections 33.2.3.4.3.5 and 33.3.3.4.7.1] Subsections 33.2.3.4.4.6 and 33.3.3.4, to add at the end of the sentence, “... and have secondary battery back-up power.”

[22.00.07.185] 22.00.07.282

Amend NFPA 101 [subsection] Subsection 33.3.3.4.8.1 to delete the phrase “33.3.3.4.8.2 and”.

[22.00.07.186]

Delete NFPA 101 subsection 33.3.3.4.8.2.]

[22.00.07.187] 22.00.07.283

Amend NFPA 101, [subsections] Subsections 36.3.4.1 and 37.3.4.1 to read [are amended to read] as follows: General. Class A mercantile occupancies and multiple story Class B mercantile occupancies must [have] be provided with a fire alarm system in accordance with [section] Section 9.6.

[22.00.07.188] 22.00.07.284

Amend NFPA 101, [subsection] Subsection 36.4.4.7.3.2, to add the phrase “where approved alternative visible means of occupant notification is provided” after the word “concourses”.



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[22.00.07.189] 22.00.07.285

Amend NFPA 101, [section] Subsection 38.2.4.4(3)(a) to replace “stories.” with “stories, with no openings therein.”

[22.00.07.190]

NFPA 101, subsections 38.2.4.7 and 39.2.4.8, are added as new sections to read as follows:

Any two story business occupancy building not exceeding 3000 square feet gross floor area per floor must be permitted a single exit with an approved outside stairway, or a single totally enclosed interior stairway to the second floor having discharge directly outside the building, if the total travel distance to the outside of the building does not exceed 100 feet, the travel distance to the interior stairway does not exceed 75 feet, and such interior stairway does not communicate with any other floor. An interior single exit stairway may be arranged as a floor communicating stair, with one (1) hour fire resistance rated opening protectives at the entrances from each level, and protection provided as follows: The building must have a non-supervised AC hard-wired smoke detection and alarm system in accordance with NFPA 72, arranged to sound an alarm audible throughout each level, and the stairway must have an approved automatic sprinkler protection, with sprinklers located at the top of the stair and over each landing on the tenant side of each interior fire door leading to the stairway, in accordance with NFPA 13.]

[22.00.02.191] 22.00.07.286

Amend NFPA 101, [Section] Subsections 38.3.2.1 and 39.3.2.1 by adding [Section 38.3.2.1.1 to read as follows] the following sentence: **[38.3.2.1.1]** General storage areas with a floor area not greater than 100 square feet are exempt from the provisions of 8.7.

[22.00.07.192] 22.00.07.287

Amend NFPA 101, [subsection 39.2.2.2.4] Subsection 39.2.2.2.5 [is amended] to read: “The re-entry provisions of Subsection 7.2.1.5.8 [shall] do apply.”

[22.00.07.193]

Amend NFPA 101, Section 39.3.2.1 by adding Section 39.3.2.1.1 to read as follows:



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39.3.2.1.1 General storage areas with a floor area not greater than 100 square feet are exempt from the provisions of 8.7.]

[22.00.07.194] 22.00.07.288

Amend NFPA 101, [subsection 39.3.4.3(2)] Subsection 39.3.4.2 [is amended to read: “Sound an audible alarm in a constantly attended location and transmit a signal to a listed Central Station.”] to delete “by one of the following means:” and replace with: “by all of the following means where provided:”.

[22.00.07.195] 22.00.07.289

Amend NFPA 101, [subsections] Subsections 40.3.4.3.1, 42.3.4.3.1 and 42.8.3.4.3.1 [are amended] to only read: “The required fire alarm system must provide occupant notification in accordance with Subsection 9.6.3.”

[22.00.07.196] 22.00.07.290

Amend NFPA 101, Table 42.2.5 to replace “50” with “75” and “15” with “23” for Common Path of Travel for Ordinary Hazard Storage Occupancy not protected throughout by an approved, supervised automatic sprinkler system in accordance with Subsection 9.7.1.1(1).

[22.00.07.197] 22.00.07.291

Amend NFPA 101, [Sections] Subsections 42.3.4.1.2 and 42.3.4.1.3 to replace the phrase “Storage occupancies” with “Storage occupancies less than three stories”.

22.00.07.292

Amend NFPA 101, Subsections 42.8.3.4.1.1 and 42.8.3.4.1.3 to replace “Parking structures” with “Parking structures less than three stories”.

[22.00.07.198] 22.00.07.293 Severability

The provisions of these regulations are severable. If a court of competent jurisdiction holds that a provision is invalid or inapplicable, the remainder of the regulation remains in effect.

Approved:



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Marc Elrich, County Executive

Date

APPROVED AS TO FORM AND LEGALITY:



Walter E. Wilson
Associate County Attorney

8/19/24

Date