ORDINANCE NO. O-9-16

AN ORDINANCE TO REPEAL AND REENACT CHAPTER 11 OF THE CITY CODE, ENTITLED, "FIRE SAFETY," SECTIONS 11-1 THROUGH 11-17, TO ADOPT, WITH AMENDMENTS, THE MONTGOMERY COUNTY FIRE SAFETY CODE AND VARIOUS RELATED NATIONAL CODES AND STANDARDS

BE IT ORDAINED by the Mayor and City Council of Gaithersburg, in public meeting assembled, that Chapter 11 of the City Code entitled "Fire Safety", is hereby repealed and re-enacted with amendments to read as follows:

Chapter 11

FIRE SAFETY

Sec. 11-1. Fire Safety Code--Adoption of County Fire Safety Code and National Fire Protection Association (NFPA) Codes and Standards.

The Fire Safety Code of Montgomery County, Maryland, as it existed on August 1, 1996, being Chapter 22 of the Montgomery County Code, 1984 (1994 Replacement Volume), (hereinafter, the "County Code"), the ~~2012~~ 2015 Editions of the National Fire Protection Association Uniform Fire Code (NFPA 1) and Life Safety Code® (NFPA 101®), all associated NFPA codes or standards incorporated by reference, and the latest editions of certain other NFPA codes not incorporated by reference into NFPA 1 or NFPA 101®, are hereby adopted as the Fire Safety Code of the City of Gaithersburg, except as otherwise hereinafter provided in this chapter

Boldface	*Heading or defined term.*
Underlining	*Added to existing law by original bill.*
~~Single strikethrough~~	*Deleted from existing law by original bill.*
Double underlining	*Added by Amendment.*
~~Double strikethrough~~	*Deleted from existing law or the bill by amendment.*
* * *	*Existing law unaffected by bill.*

Sec. 11-2. Scope and Definitions.

This chapter shall apply to the construction, alteration, addition, repair, removal, demolition, use, location, occupancy, and/or maintenance of all buildings, structures, properties and their service equipment, within the City of Gaithersburg. It supersedes Ordinance No. ~~0-21-10~~ 0-3-14, dated ~~August 16, 2010~~ January 6, 2014 and all previous regulations adopting the Montgomery County Fire Safety Code for fire code. Its purpose is to adopt the ~~2012~~ 2015 editions of the ~~Uniform~~ Fire Code (NFPA 1) and the Life Safety Code® (NFPA 101®), and all associated NFPA codes or standards incorporated by reference and the latest editions of certain other NFPA codes not incorporated by reference into NFPA 1 or NFPA 101®, with modifications necessary to achieve uniformity and consistency with certain Maryland, Montgomery County, and City of Gaithersburg laws and ordinances, as well as certain Planning and Code Department policies and procedures. Where this ordinance differs from any other City of Gaithersburg ordinances or the State of Maryland Fire Prevention Code (COMAR 29.06.01), it does not preempt or negate any more restrictive provisions adopted or enacted by those ordinances and the more restrictive provision(s) shall apply. For the purposes of this chapter, "AHJ" shall mean authority having jurisdiction, "MCDFRS" shall mean Montgomery County Department of Fire and Rescue Services and "COMAR" shall mean the Code of Maryland Regulations.

Sec. 11-3. Street Names and Addresses.

(a) The city planning commission is authorized to approve the names and addresses of improved property within the city. The commission shall not duplicate existing names or addresses, and may seek the recommendation and assistance of any local, state or federal agency to ensure the proper identification of streets and properties in the city.

(b) It shall be the responsibility of the owner of any single-family detached or attached residential structure occupied for the first time on or after January 1, 1983, to display, facing the front lot line, numerals at least three (3) inches in height designating the address assigned to the structure by the city. The owners of existing single-family detached and attached residential dwellings are requested and encouraged, but are not required, to comply with the provisions of this section. It shall be the responsibility of the owners of any existing or hereafter constructed commercial, industrial and multifamily residential structures to display, facing the front lot line, numerals at least six (6) inches in height designating the address assigned to the structure by the city. All address displays shall be posted on a contrasting background, displayed in a conspicuous place and in a manner as to be clearly visible from the nearest street. When a structure has more than one address, numerals should be used to designate the address in sequence.

Sec. 11-4. City Fire Marshal; Creation, Powers and Duties.

(a) *Creation.* There is hereby created within the government of the City of Gaithersburg, Maryland, the position of City Fire Marshal. The City Fire Marshal shall be an unclassified employee who shall be qualified for the position by training and experience in fire prevention, fire safety and regulatory matters of the nature provided for in this city fire safety code.

(b) *Duties.* The City Fire Marshal shall be responsible for the enforcement and administration of the provisions of the city fire safety code (Chapter 11, Gaithersburg City Code), except that investigation of fires, explosions or incidents involving the combustion or activity of hazardous chemicals *or* materials shall be carried out by the Montgomery County Department of Fire and Rescue Services, Division of Fire and Explosive Investigations. The city manager may appoint or designate assistants to assist the City Fire Marshal in the carrying out of his/her duties or in delegating those duties.

(c) *Powers.* The City Fire Marshal is empowered to administer the provisions of the city fire safety code (Chapter 11, *Gaithersburg* City Code) and perform such other duties as may be set forth in other sections of the City Code, and as may be conferred and imposed from time to time by law, regulation or directive of the city manager. The City Fire Marshal shall also be empowered to exercise the following duties within the jurisdiction of the city:

(i) Those duties set forth in Chapter 22, section 22-6 of the Montgomery County Fire Safety Code; and

(ii) The review and approval of plans for buildings, structures and the storage of hazardous or combustible chemicals, petroleum products or other such materials for conformance with the city fire safety code; and

(iii) Issue permits authorized or required under the city fire safety code; and

(iv) Inspect all buildings and structures, except lawful single-family private residential dwelling units, and all storage sites and facilities containing substantial quantities of hazardous or combustible materials for the purpose of ascertaining and causing to be corrected any condition reasonably believed to cause fire or explosion, contribute to the spread of fire, interfere with ~~fire-fighting~~firefighting operations, endanger life or property, or violate the provisions of the city fire safety code or any other law, ordinance or regulation involving fire safety or fire prevention; and

(v) Issue warnings, orders, decisions and directives relating to the enforcement of the provisions of the city fire safety code; issuance or revocation of any permit issued under the fire safety code; evacuations as hereinafter provided; and, the unlawful continuance of any unsafe condition or activity in violation of the fire safety code; and

(vi) Issue municipal infraction citations pursuant to section 1-9 of the City Code or such misdemeanor prosecutions pursuant to section 1-7 of the City Code.

In addition, the City Fire Marshal may seek those additional legal and equitable remedies provided for in section 1-11 of the City Code.

(vii) Modify or vary provisions and requirements of the city fire safety code or other code provisions relating to fire safety or fire prevention applicable within the city, except those areas reserved to Montgomery County under section 11-4(b). A modification or variation may only be granted where an alternative is provided which achieves a comparable level of fire safety and/or prevention or where a requirement cannot physically be achieved on a specific property, building or structure.

Sec. 11-5. Revocation of Permits.

The City Fire Marshal, upon reasonable notice to a permittee, is hereby authorized to suspend or revoke any permit issued under the city fire safety code whenever in his/her judgment any violation of the conditions of the permit or violation of the provisions of the city fire safety code exists, or a hazardous or unsafe condition arises beyond the scope of the permit, or affecting a permit condition. The permit holder shall comply with the suspension or revocation order, even though an appeal is filed to the City Fire Marshal's order with the City of Gaithersburg Board of Appeals.

Sec. 11-6. Evacuation.

When, in the opinion of the City Fire Marshal, there is actual and/or potential danger to the occupants or those in the proximity of any building, structure or premises because of any violation of the fire safety code constituting a dangerous or hazardous condition, the City Fire Marshal may order the immediate evacuation of said building, structure or premises. All of the occupants so notified shall immediately leave the building, structure or premises, and persons shall not enter or reenter until authorized to do so by the City Fire Marshal. The fire marshal shall order such dangerous conditions and materials removed or remedied. Buildings or premises deemed unsafe by the City Fire Marshal for fire safety code violations or the presence of dangerous or hazardous conditions may be reopened for use by the City Fire Marshal or his/her assistants after inspection of the said building and a determination as to the safety and habitability of the building or premises.

Sec. 11-7. Unlawful Continuance.

Any person who shall refuse to leave, interfere with the evacuation of other occupants, or continue any operation after having been given an evacuation order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be deemed guilty of a municipal infraction, and shall be subject to a fine as provided in section 11-12(i).

Sec. 11-8. Fire Protection Permits and Fire Protection Systems Operations Licenses.

(a) A Fire Protection Ppermit shall be obtained from the City of Gaithersburg to install or modify any fire protection system, and where otherwise required by the City of Gaithersburg Fire Code. Where a Fire Protection Permit is required, said permit shall be obtained and a copy of the permit and the approved plans shall be on the job site prior to beginning the work covered under said permit and shall remain on the job site until final inspection has been approved by the City of Gaithersburg. For the purposes of this section, "modify" shall include replacement of major system components (i.e. Fire Alarm control panel) or major portions of a fire protection system, even when the components are replaced "in kind".

(b) Once in place, all fire protection systems shall maintain a valid and current Fire Protection System Operation License. All systems shall be inspected, tested, and maintained in accordance with applicable codes and standards. The owner of the property is responsible for said inspections, testing and maintenance, and shall keep complete records of such. On an annual basis, upon request from the City of Gaithersburg, the owner shall submit said documentation to the City for review, and, if all documentation is approved, the Fire Protection System Operation License will be renewed.

(c) Personnel performing inspections, testing, and maintenance of fire protection systems shall submit copies of the reports of said inspections, testing, and maintenance to the City of Gaithersburg or a designated third party data management company. Reports shall be submitted for review annually.

Sec. 11-9. Inspections.

All work for which a fire protection permit is required by this chapter shall be inspected by the City of Gaithersburg to assure compliance with this chapter. The contractor ~~listed~~ designated on the fire protection permit shall be responsible for obtaining all the required inspections.

Sec. 11-10. Licenses required for Fire Protection System ~~License~~Work.

A contractor or person responsible for the installation, modification, service, or third-party inspection of any fire sprinkler system or non-water based extinguishing ~~protection~~ system or any portion thereof in the City of Gaithersburg must have a valid, current license from ~~either Montgomery County or~~ the State of Maryland for the appropriate type of fire protection system. Any contractor installing or modifying any fire alarm system must have a valid, current City of Gaithersburg Electrician License.

Sec. 11-11. Maintenance of Residential Sprinkler Systems.

For buildings having residential sprinkler systems, all leases must have the following provision: "Sprinkler System. In all units equipped with fire sprinkler systems, no portion of the system may be changed or altered except by a licensed fire sprinkler contractor. Sprinklers shall not have any item hung from them, nor shall they be painted, covered, or obstructed in any manner. Prior to any alteration of the sprinkler system or any changes, addition, or removal of ceilings, partitions, or walls, plans must be submitted to and a permit obtained from the City of Gaithersburg.

Sec. 11-12. Amendments to Chapter 22 of the Montgomery County Code (the Montgomery County Fire Safety Code)

The Montgomery County Fire Safety Code adopted by section 11-1 of the City Code is hereby amended and modified as follows:

(1) ~~(a)~~ Wherever the County Code shall provide for the collection of any fee, such fee shall be collected and disbursed by the City of Gaithersburg, Maryland.

~~(1)~~(2) ~~(b)~~ Wherever the words "Montgomery County, Maryland" or "county" are referenced in the County Code, they shall be deemed to mean the "City of Gaithersburg, Maryland" in this Chapter 11.

(3) ~~(c)~~ The words "county executive" as those words are used in Chapter 22, with the exception of section 22-13, shall be deemed to mean the city manager or ~~his~~ designee.

(4) ~~(d)~~ The words "director," "director of the county department of fire and rescue services," "fire marshal," and "fire official" as used in Chapter 22 shall be deemed to mean the Fire Marshal for the City of Gaithersburg, or such person(s) designated by the city manager to act in the place of the City Fire Marshal. Any reference in any applicable building code, property maintenance code, housing or similar code adopted by or applying within the city which refers to the Montgomery County Department of Fire and Rescue Services or fire marshal shall mean the Fire Marshal for the City of Gaithersburg.

(5) ~~(e)~~ The words "department of environmental protection" and "department of permitting services" shall be deemed to mean the city manager or ~~his~~ designee.

(6) ~~(f)~~ The words "and any other fire department officer or county employee specifically designated by the county executive" in section 22-33(g) are hereby deleted, and in lieu thereof shall be substituted the words "and the City Fire Marshal and any designee of the city manager."

(7) ~~(g)~~ The words "Montgomery County Board of Appeals," "county board of appeals" and "board of appeals" as they are used in the Chapter 22 shall be deemed to mean the City of Gaithersburg Board of Appeals.

(8) ~~(h)~~ Whenever the words "name of governmental authority having jurisdiction" appear in section 22-39 of the County Code or in adoptive rules and regulations, they shall mean the city manager or ~~his~~ authorized designee.

(9) ~~(i)~~ Whenever the County Code imposes a penalty for the violation of the provisions of Chapter 22, the penalty shall be:

Criminal violations --A fine not exceeding one thousand dollars ($1,000.00) or imprisonment for up to ninety (90) days, or both fine and imprisonment.

Municipal infraction -A penalty in an amount as set forth in the City of Gaithersburg Fee Schedule for each infraction, as provided in section 1-9(b) of the City Code.

Each day that a violation continues shall constitute a separate and independent violation and offense.

(10) ~~(j)~~ In the application of section 22-97 of the County Code, after the words "three inches high," add the words "or five (5) inches in height if constructed after June 1, 1989."

Sec. 11-13. Standards Adopted.

The following standards published by the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269, are hereby adopted as part of the City Fire Code except as modified in Sections 11-14, 11-15 and 11-16:

NFPA No.	Code or Standard
1	~~Uniform~~ Fire Code, ~~2012~~ 2015 Edition
13	Standard for the Installation of Sprinkler Systems, ~~2010~~ 2016 Edition
13D	Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes, 2013 Edition
13R	Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies, 2013 Edition
14	Standard for the Installation of Standpipe and Hose Systems, ~~2010~~ 2013 Edition
20	Standard for the Installation of Stationary Pumps for Fire Protection, ~~2010~~ 2013 Edition

NFPA No.	Code or Standard
30	Flammable and Combustible Liquids Code, 2015 Edition
30A	Code for Motor Fuel Dispersion Facilities and Repair Garages, 2015 Edition
40	Standard for the Storage and Handling of Cellulose Nitrate Film, 2011 Edition
55	Compressed Gases and Cryogenic Fluids Code, ~~2010~~ 2013 Edition
72	National Fire Alarm and Signaling Code, ~~2010~~ 2013 Edition
80	Standard for Fire Doors and Other Opening Protectives, 2013 Edition
92	Standard for Smoke Control Systems, 2012 Edition
96	Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, 2014 Edition
101®	Life Safety Code®, ~~2012~~ 2015 Edition
105	~~Recommended Practice for the Installation of Smoke Control~~Standard for Smoke Door Assemblies and Other Opening Protectives, 2010 Edition
~~130~~	~~Standard for Fixed Guideway Transit and Passenger Rail Systems 2010 Edition~~
170	Standard for Fire Safety Symbols, ~~2009~~ 2012 Edition
214	Standard on Water-Cooling Towers, 2011 Edition
241	Standard for Safeguarding Construction, Alteration , and Demolition Operations, 2013 Edition
720	Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment, ~~2012~~ 2015 Edition
~~850~~	~~Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations, 2010 Edition~~
1124	Code for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles, 2013 Edition

Sec. 11-14. Amendments and Modifications to the ~~Uniform~~ Fire Code (NFPA 1).

The *~~Uniform~~ Fire* Code, ~~2012~~ 2015 Edition, is modified as follows:

(1) *NFPA 1, 1.7.12.2.* Add "The City Fire Marshal shall be authorized to require plans to bear the stamp of a registered design professional."*~~NFPA 1, 1.9.~~* ~~Delete.~~

(2) *NFPA 1, 1.10,* and *1.11.3.* Delete.

(3) *NFPA 1, 1.12.6.13, and 1.12.8.* Change the word "shall" to "may".

(4) *NFPA 1, 1.13.2.* Delete the word ""Mandatory" and replace the word "shall" with "may".

(5) *NFPA 1, 1.13.12.4 and 1.16.4.2.* Delete

(6) *NFPA 1, 2.2.* Where NFPA 13 is referenced, replace "2013 edition" with "2016 edition". Delete the referenced publication *NFPA 150, Standard of 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*, 2013 Edition. Delete the referenced publication NFPA 5000, Building Construction and Safety Code, ~~2012~~ 2015 edition. Wherever NFPA 5000 is referenced, other than for extracted text, substitute the "City of Gaithersburg Building Code" ~~Delete the referenced publication *NFPA 150, Standard of Fire and Life Safety in Animal Housing Facilities, 2009 Edition.*~~

(7) *NFPA 1, 3.3.12714.13. Add ~~"and as referenced in Public Safety Article, §10-101, Annotated Code of Maryland~~new subsection 3.3.14.13 to read as follows:*

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."* ~~.~~

(8) *NFPA 1, 3.3.182183.6.* Delete the phrase "more than 3 but".

(9) *NFPA 1, 3.3.182183.7.* Delete the phrase "four or more".

(10) *NFPA 1, 3.3.182183.22.* Replace the word "three" with "five" and delete the phrase ", if any, accommodated in rented rooms".

~~(11) *NFPA 1, 3.3.182.23.3.* Replace "of 30.8.1.3" with "for open parking structures" and replace "NFPA 5000. [5000, 2012]" with "NFPA 88A, *Standard for Parking Structures.*".~~

(~~12~~11) *NFPA 1, 3.3.182183.25.* Replace the word "four" with "six".

(~~13~~12) *NFPA 1, 4.5.8.1.* Delete the phrase "for compliance with the provisions of this Code".

(~~14~~13) *NFPA 1, 4.5.8.3.* Delete the phrase "by the Code".

(~~15~~14) *NFPA 1, 6.1.4.1.* Delete the phrase "four or more".

(~~16~~15) *NFPA 1, 6.1.9.1.* Replace the word "four" with "six".

(~~17~~16) *NFPA 1, 10.1.2.* Add "~~except~~ as amended by COMAR 29.06.01.07, COMAR 29.06.01.08, COMAR 29.06.01.09 and the City of Gaithersburg Fire Code."

~~(18) *NFPA 1, 10.4.1.* Delete the phrase "for compliance with the provisions of this Code".~~

~~(19) *NFPA 1, 10.4.3.* Delete the phrase "by the Code".~~

(~~20~~17) *NFPA 1, 10.~~5~~4.1 and 10.~~5~~4.2.* After the phrase "by the AHJ", insert "or incident commander".

~~(21) *NFPA 1, 10.11.2. Replace the word "candles," insert "sky lanterns,".*~~

(~~22~~18) *NFPA 1, 10.~~11~~10.6.1.* Delete the text and replace with the following: "The use of charcoal burning, other fuel burning, or electric cooking equipment outside of any multi-family dwelling shall be prohibited unless such cooking equipment is at least twenty (20) feet from every part of the building. The provisions of this section shall not apply to townhouses, row houses or other multiple dwelling construction where the dwellings are separated by fire walls and none are superimposed above another."

(~~23~~19) *NFPA 1, 10.~~11~~10.6.2.* Replace the word "grill" with "gas-fired grill, charcoal grill".

(~~24~~20) *NFPA 1, 10.~~12~~11.1.1.1.* Add new subsection 10.~~12~~11.1.1.1 to read as follows:

"10.~~12~~11.1.1.1 _Subject to the approval of the ~~AHJ~~City Fire Marshal, individual suites within structures and rear store entrances and/or access from service corridors shall be clearly identified."

(~~25~~21) NFPA *1, 10.~~12~~11.1.2 and 10.~~12~~11.1.3.* After the phrase "Address numbers" insert "or premises identification".

(~~26~~22) *NFPA 1, 10.~~12~~11.1.4.* Add new subsection 10.~~12~~11.1.4 to read as follows:

"10.~~12~~11.1.4 _Where required by the ~~AHJ~~City Fire Marshal, symbols in compliance with NFPA 170, *Standard for Fire Safety and Emergency Symbols*, shall be used."

(23) *NFPA 1, 10.13.1.* Add the following: "References to "Christmas trees" in this section shall apply to any cut or balled tree used for decoration, regardless of the holiday or time of year."

(~~27~~24) *NFPA 1, 10.~~14~~13.1.1.* _Replace the word "Christmas" with the phrase "Unless otherwise approved by the ~~AHJ~~City Fire Marshal, Christmas".

(~~28~~25) *NFPA 1, 10.~~14~~13.1.2.* _Add new subsection 10.~~14~~13.1.2 to read as follows:

"10.~~14~~13.1.2 _The ~~AHJ~~ City Fire Marshal shall:

(1) Approve the placement of 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."

(~~29~~26) *NFPA 1, 10.~~14~~13.3.1.* _Replace the phrase "by the manufacturer ~~as being fire retardant~~" with "by a testing laboratory recognized by the Office of the State Fire Marshal".

(~~30~~27) *NFPA 1, 10.~~14~~13.9.1.* Replace "½ in. (13mm) with "2 in." and add "A natural cut tree shall not exceed 10 ft. in height, excluding the tree stand."

~~(31) *NFPA 1, 10.15.2.* After the phrase "such as" insert ", but not limited to".~~

~~(32) *NFPA 1, 10.15.11.2.6.* After the word "vehicles" insert ", buildings".~~

(~~33~~28) *NFPA 1, 10. ~~16~~15.1.* Delete all text after the word "within" and replace with "15 feet of a property line, building, or adjacent pile of combustible material." and add the following exception:

"**Exception:** If the City Fire Marshal determines that a higher hazard to the adjoining property exists, the City Fire Marshal shall have the authority to require a greater distance of separation."

(~~34~~29) *NFPA 1, 10.~~16~~15.5.* Add "and shall not exceed 10,000 square feet in area."

(~~35~~30) *NFPA 1, 10.~~16~~15.6.* Add new subsection 10.~~16~~15.6 to read as follows:

"10.16.6 The ~~AHJ~~ City Fire Marshal shall have 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."

(~~36~~31) *NFPA 1, 10.~~19~~18.7.* After the word "repaired" insert "on any balcony, under any overhanging portion, or".

(~~37~~32) *NFPA 1, 11.1.~~9~~7.3.2.* Add new subsection 11.1.~~9~~7.3.2 to read as follows:

"11.1.~~9~~7.3.2 Doors to electrical control panel rooms shall be marked with a plainly visible and legible sign stating 'ELECTRICAL ROOM' or similar approved wording in contrasting letters not less than 1.5 inches high and not less than ¼ inch stroke width."

(~~38~~33) *NFPA 1, 11.1.~~11~~9.* Add new subsection 11.1.~~11~~9 to read as follows:

"11.1.~~11~~9 **Clearance.** Except where specialized dimensions are required by NFPA 70, a clear space of not less than 30 inches in width, 36 inches in depth, and 78 inches in height shall be provided in front of electrical service equipment. Where such service equipment is wider than 30 inches, the width of the required clear space shall not be less than the width of the equipment. Storage of any kind is prohibited within the required clear space."

(~~39~~34) *NFPA 1, 11.3.6.1.1.* ~~After the word "code", insert "to comply with the Maryland State Elevator Code~~ Add "Keys for new elevators shall be cut to a uniform key code to comply with the Maryland State Elevator Code."~~;~~

(~~40~~35) *NFPA 1, 11.9.1.* Delete the phrase "the fire department" and replace with "Montgomery County Fire & Rescue Service and the City of Gaithersburg~~"~~".

~~(41) *NFPA 1, 11.12.1.1.* Add new subsection 11.12.1.1 to read as follows:~~

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

(42~~36~~) *NFPA 1, 13.1.13.* Add new subsection 13.1.13 to read as follows:

"13.1.13 **Appearance of Equipment.** Any device that has the physical appearance of life safety or fire protection equipment but that does not perform that life safety or fire protection function shall be prohibited."

(43~~37~~) *NFPA 1, 13.3.1.2.1.* Add new subsection 13.3.1.2.1 to read as follows:

"13.3.1.2.1 Drop-out ceilings as referenced in NFPA 13 and NFPA 13R are prohibited in new ceiling installations."

(44~~38~~) *NFPA 1, 13.3.2.1.1.* Add new subsection 13.3.2.1.1 to read as follows:

"13.3.2.1.1 All new buildings shall be equipped with an automatic sprinkler system or other fire suppression system where required by Section 903 of the International Building Code as incorporated by reference by the Maryland Building Performance Standards."

(45~~39~~) *NFPA 1, 13.3.3.1 and 13.3.3.2.* Delete the phrase "A sprinkler system installed in accordance with this *Code*" and replace with "Sprinkler systems".

(40) *NFPA 1, 13.4.1.1.1.* Add new subsection 13.4.1.1.1 to read as follows:

"13.4.1.1.1 No fire pump component, including the pump, driver, or controller, shall be permitted to be installed in below-ground vaults or pits unless specifically approved by the City Fire Marshal."

(46~~41~~) *NFPA 1, 13.6.1.2.* Add "unless otherwise permitted by the ~~AHJ~~City Fire Marshal".~~"~~

(47~~42~~) *NFPA 1, 13.6.9~~4~~.1.2.1.* After the word "certified", add "or licensed as required by the ~~AHJ~~City Fire Marshal".

(48~~43~~) *NFPA 1, 13.6.9~~4~~.1.2.1.1, 13.6.9~~4~~.1.2.1.2, 13.6.9~~4~~.1.2.1.3, 13.6.9~~4~~.1.2.1.4, 13.6.9~~4~~.1.2.1.5, and 13.6.9~~4~~.1.2.1.6, ~~and 13.6.9.1.2.2~~.* Delete.

(44) *NFPA 1, 13.6.4.1.2.3.* Add "or licensed."

(49~~45~~) *NFPA 1, 13.7.2.~~22~~28.1.2 and 13.7.2.~~22~~28.1.3.* After the phrase "Storage occupancies", insert "less than three stories".

(~~50~~46) *NFPA 1, 14.13.1.2.* In the first sentence, replace the word "only" with ", but not be limited to,".

(~~51~~47) *NFPA 1, 18.1.3.1 and 18.1.3.2.* Replace the phrase "fire department" with "City of Gaithersburg".

(~~52~~48) *NFPA 1, 18.2.2.1.* Delete the text and replace with the following: "~~18.2.2.1~~ **Access Boxes.** All occupancies shall provide an ~~approved~~ access box(es) of an approved type, listed in accordance with UL1037.

The size, contents and location of the access box shall be determined by Montgomery County Department of Fire & Rescue Service (MCDFRS), in cooperation with the occupancy owner or management.

Exception 1: One- and two-family dwellings.

Exception 2: Multifamily buildings having no lockable doors other than those to individual dwelling units.

Exception 3: Occupancies which provide 24-hour on-site staffing with access to all areas of the building or complex. At least one person shall staff a fixed location proximate to the main building or complex entrance to provide ready access for the fire department.

Exception 4: Multiple occupancies within a single structure and multiple buildings within a residential building complex shall be permitted to have a single access box where permitted by MCDFRS."

(~~53~~49) *NFPA 1, 18.2.3.2.1.* After the phrase "exterior door" insert "acceptable to the the City of Gaithersburg" and after the phrase "provides access to" insert "all floors of".

~~(54) *NFPA 1, 18.4.5.2.1.* At the end of the first sentence, insert "or the building is an open parking structure of Type I or Type II construction".~~

(50) *NFPA 1, 20.2.4.2.3(1)(b).* Delete the text and replace with the following: "A minimum total of eight emergency drills shall be conducted during the school year, with at least three conducted within four months of the beginning of the school year.

Exception to (b): For educational occupancies in buildings protected throughout by an automatic sprinkler system, the total number of emergency drills conducted during the school year shall be five, with at least two conducted within four months of the beginning of the school year."

(~~55~~51) *NFPA 1, 20.3.4.1.1.* Delete the phrase "more than 3, but".

~~(56) *NFPA 1, 20.3.4.2.3.5.4.* Add the following exception:~~

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

(~~57~~52) *NFPA 1, 25.2.2.1.* Add "or other testing standard approved by the State Fire Marshal."

(53) *NFPA 1, 26.1.5.2, 26.1.5.3, and 26.1.5.4.* Add new subsections 26.1.5.2, 26.1.5.3, and 26.1.5.4 to read as follows:

"26.1.5.2 *When* requested by the City Fire Marshal, a hazard assessment shall be conducted by a technically qualified person acceptable to the City Fire Marshal.

26.1.5.3 When *requested* by the City Fire Marshal, a list of hazardous materials used in each laboratory shall be provided. The list shall specify the chemical name, quantity and hazard class.

26.1.5.4 New laboratories or laboratories where the NFPA 45 laboratory hazard *classification* changes shall post an information placard near the main entrance to the laboratory. The placard shall 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 maximum quantities of flammable gases permitted within the laboratory."

(54) *NFPA 1, 26.3.* Add new subsection 26.3 to read as follows:

*"26.*3 **Construction.** All laboratories, laboratory suites or laboratory units within the scope of NFPA 45, regardless of the laboratory hazard classification in NFPA 45, shall 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 shall be used. Rooms that are an incidental use to the lab shall be considered part of the laboratory for the purpose of this requirement and shall not require additional separation."

(~~58~~55) *NFPA 1, 31.3.6.* Add "shall comply with this section as amended by the State of Maryland Fire Prevention Code (COMAR 29.06.01)."~~.~~

~~(59) *NFPA 1, Chapter 35, Animal Housing Facilities.* Delete.~~

(~~60~~56) *NFPA 1, 42.7.5.1.* ~~Replace~~ Delete "AHJ" and replace with "~~AHJ~~City Fire Marshal, and such facilities shall comply with the State of Maryland Fire Prevention Code (COMAR 29.06.01)."~~.~~

(~~61~~57) *NFPA 1, 50.2.1.10.* Add new subsections 50.2.1.10 through 50.2.1.10.3.3 to read as follows:

"50.2.1.10 ~~Commercial outdoor cooking operations shall comply with the State of Maryland Fire Prevention Code (COMAR 29.06.01).~~**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, sautéing, and grilling operations.

50.2.1.10.1 Tent and Canopy Requirements.

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

50.2.1.10.1.2 All tent and canopy material shall comply with the flame resistance requirements of Subsection 25.2.2.

50.2.1.10.2 LP Gas Fuel Requirements.

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

50.2.1.10.2.2 Tanks shall be maintained in good physical condition and shall have a valid hydrostatic date stamp.

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

50.2.1.10.2.5 All LP gas equipment shall be properly maintained and comply with the requirements of NFPA 58.

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

50.2.1.10.3 General Safety Requirements.

50.2.1.10.3.1 All electrical cords shall be maintained in a safe condition and shall be secured to prevent damage.

50.2.1.10.3.2 Movable cooking equipment shall have wheels removed or shall be placed on blocks or otherwise secured to prevent movement of the appliance during operation.

50.2.1.10.3.3 Portable fire extinguishers shall be provided in accordance with NFPA 1, Section 13.6 and shall be specifically listed for such use."

(~~62~~58) *NFPA 1, 65.1.1.* ~~Add the following: "Explosives, Fireworks and Model Rocketry shall comply with this chapter and with~~After the phrase "shall comply with" insert "the State of Maryland Fire Prevention Code (COMAR 29.06.01.09)."

Sec. 11-15. Amendments and Modifications to the NFPA Codes Governing Construction.

The *Standard For Fire Doors and ~~Fire Windows~~Other Opening Protectives* (NFPA 80), ~~2010~~ 2013 edition, ~~the *Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations* (NFPA 96), 2011 edition,~~ and the *Life Safety Code*® (NFPA 101®), ~~2012~~ 2015 edition, are modified as follows:

(1) *NFPA 80, 4.7.1.* Add the following: "Release of fire doors and shutters shall not be solely by fusible link, and shall be activated by one or more of the following methods:

(a) Approved local smoke detection at the protected opening.

(b) Approved area smoke detection per NFPA 72.

(c) Full automatic sprinkler protection per NFPA 13."

~~(2) *NFPA 96, 1.1.5.* Add new subsection 1.1.5 to read as follows:~~

~~"1.1.5 In day-care centers and business occupancies doing food warming only, Home Economics classrooms in Educational Occupancies, or in existing structures that were originally constructed as single family dwellings and have been converted to Lodging or Rooming Houses or small Board and Care facilities, protection may consist of the following:~~

~~(a) A listed and approved recirculating residential ventilation hood with range top extinguishing system installed in accordance with the manufacturer's specifications~~

~~(b) For residential ranges with recirculating ventilation hoods in buildings equipped with approved automatic sprinkler protection throughout, the sprinkler system may be considered to provide surface protection."~~

(~~3~~2) *NFPA 101, General.* Delete all references to NFPA 5000, Building Construction and Safety Code, and substitute "the City of Gaithersburg Building Code."

~~(4) *NFPA 101, 1.4.4.* Add new subsection 1.4.4 to read as follows:~~

~~"1.4.4 The use of NFPA 101A to justify equivalency concepts is not permitted in new construction."~~

(3) *NFPA 101, 2.2.* Add "NFPA 1124, *Code for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles*, 2006 edition."

(~~5~~4) *NFPA 101, 3.3.62.3.* Add new subsection 3.3.57.3 to read as follows:

"3.3.62.3 **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 8 feet below ground level. A Bulkhead 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."

(~~6~~5) *NFPA 101, 3.3.124126.* ~~In the second sentence, replace "6 ft (1830mm)" with "20 ft (6096 mm)" (both instances)~~Add "(See 4.6.15 for establishing Grade Plane.)".

(~~7~~6) *NFPA 101, 3.3.~~140~~142.1.* Delete the phrase "more than three, but".

(~~8~~7) *NFPA 101, 3.3.~~188~~190.4.* Delete the phrase "four or more".

(~~9~~8) *NFPA 101, 3.3.~~188~~190.12.* Replace the word "four" with "six".

(~~10~~9) *NFPA 101, 3.3.~~267~~268.* After the word "discharge", insert "or the first story above grade plane, whichever is lower,"~~.~~ and add "(See also 4.6.3.)".

(~~11~~10) *NFPA 101, 4.5.8.* Delete the phrase "for compliance with the provisions of this Code".

(~~12~~11) *NFPA 101, 4.6.3 (1) and 4.6.3 (2).* Replace the phrase "level of exit discharge" with "first story above grade plane or level of exit discharge, whichever is lower, ".

(~~13~~12) *NFPA 101, 4.6.3 (5).* Delete.

(~~14~~13) *NFPA 101, 4.6.12.1.* Delete the phrase "for compliance with the provisions of this Code".

(~~15~~14) *NFPA 101, 4.6.12.3.* Delete the phrase "by the Code".

(15) *NFPA 101, 4.6.15.* Replace both occurrences of the phrase "6 ft (1.8m)" with "20 ft".

(16) *NFPA 101, 4.8.2.4.* Add new subsection 4.8.2.4 to read as follows:

"4.8.2.4 Emergency action plans shall be maintained in a location approved by the City Fire Marshal."

(17) *NFPA 101, 6.1.4.1.* Delete the phrase "four or more".

(18) *NFPA 101, 6.1.9.1.* Replace the word "four" with "six".

(19) *NFPA 101, 7.1.3.2.1(9).* Delete subparagraphs (a) and (b) and re-letter the remaining subparagraphs as (a) through (c) accordingly, and add new subparagraph (d) to read as follows:

"(d) Existing previously approved openings."

(~~19~~20) *NFPA 101, 7.2.1.2.2.2(5).* Add new subsection 7.2.1.2.2.2(5) to read as follows:

"(5) For power operated sliding door assemblies that utilize a fixed panel adjacent to and on the exterior of the sliding panel, and the door system is designed such that the fixed panel also breaks away to become side hinged in the emergency breakout mode, the width of means of egress shall be permitted to be no more than the combined width of the fixed panel and the moving panel, minus 32 inches."

(21) *NFPA 101, 7.2.1.4.3.1.* Replace the word "During" with "Except for existing exit access doors into existing exit stairs, during" and delete all text after the word "unobstructed," (including parenthetical subparagraphs 1 and 2) and replace with "and shall not project more than 7 inches into the required width when fully open."

(22) *NFPA 101, 7.2.1.4.3.2.* Delete.

(~~20~~23) *NFPA 101, 7.2.1.5.12.* Replace the word "required" with "~~provided~~installed".

(~~21~~24) *NFPA 101, 7.2.1.6.3.* After the phrase "Where permitted", insert "by the ~~AJH~~ City Fire Marshal and".

(~~22~~25) *NFPA 101, 7.2.1.7.1.* Delete the phrase "required to be".

(~~23~~26) *NFPA 101, 7.2.1.7.3.* Change the phrase "Required panic hardware" to "Panic hardware".

(~~24~~27) NFPA 101, Table 7.3.1.2. Under "Business Use" add "New Business Occupancy shell space shall be calculated at 65 ft² (6.0 m²) per person."

(~~25~~28) *NFPA 101, 7.9.1.2.* In the first sentence, replace the word "only" with the phrase ", but not be limited to,".

(~~26~~29) *NFPA 101, 7.10.8.3.2.* Add the following: "When located at a door, the sign shall be visible with the door in any position, or if the sign is located on the door, the door shall be self-closing."

(~~27~~30) *NFPA 101, 8.6.7(6)(b).* Delete all text after the word "are" and replace with "located at the annunciator panel or in the Fire Control Room."

~~(28) *NFPA 101, 9.6.8.* Add new subsection 9.6.8 to read as follows:~~

~~"9.6.8 All newly constructed below ground floors of a building, all floors in buildings greater than 25,000 square feet per floor, and all floors of buildings greater than 3 stories in height of Type I and Type II construction shall meet minimum emergency radio communication system performance criteria adopted by Montgomery County. Proof that minimum performance criteria are met shall be provided in writing to the Fire Chief of MCDFRS.~~

~~(1) System performance testing shall be performed in accordance with technical standards for systems and testing personnel established by Montgomery County.~~
~~(2) Compliance testing shall be performed at the time of occupancy an annually thereafter.~~
~~(3) Field testing may be performed upon reasonable notification of the owner or occupant by any authorized fire and rescue personnel.~~

~~Exception: The requirements of this section shall not apply to areas within an individual dwelling unit."~~

(31) *NFPA 101, 9.6.1.3.* Delete the phrase "required by this *Code*".

~~(29) *NFPA 101, 9.6.1.6.* Add the following: "When a property owner or the owner's agent cannot be contacted to establish a fire watch, the MCDFRS at their discretion may provide the fire watch and charge the property owner the inspection overtime rate per person per hour."~~

(~~30~~32) *NFPA 101, 9.6.2.6.* Add the following: "This paragraph does not permit the omission of manual fire alarm boxes in accordance with other provisions of this subsection unless specifically permitted by Chapters 11 through 43."

~~(31) *NFPA 101, 9.6.2.10.1.2.* Delete all text after the word "required".~~

~~(32) *NFPA 101, 9.6.2.10.2.* Delete the word "existing" and delete all text after the word "powered" and replace with "by the building electrical system and have battery back-up power".~~

(33) *NFPA 101, 9.6.3.3.* Delete all text after the word "delay" and replace with "to a listed central station in accordance with 9.6.4."

(34) *NFPA 101, 9.6.3.4.* At the end of the sentence, add the phrase "and only when the initial fire alarm signal is automatically transmitted without delay to a listed central station in accordance with 9.6.4."

(35) *NFPA 9.6.3.6.2.* Add the following: "Where selective evacuation is used in high rise buildings, occupant notification shall be by voice announcement and shall send a predetermined message to the floor where the fire alarm originated, to the floor immediately below and to the floor immediately above, providing information and directions to the occupants. Any subsequent alarm(s) on other than the initial fire floor must initiate the voice notification as described above. The voice notification shall be designed to be heard clearly by all occupants within the designated portions. Communicating levels (open to one another) shall be considered one floor/fire area for the audible and visual fire alarm signals."

(36) *NFPA* 101, *9.6.3.6.4 and 9.6.3.6.5.* Replace the phrase "be required" with "sound automatically."

(~~35~~37) *NFPA 101, 9.6.3.9.* Add the following: "New systems having voice notification shall be by automatic, pre-recorded announcement in accordance with Section 9.6. Live voice as the sole means of notification method is prohibited."

(~~36~~38) *NFPA* 101, *9.6.4.2.* Delete all text after the word "automatically" and replace with "to a listed central station."

(~~37~~39) *NFPA* 101, *9.6.4.3.* Delete.

(~~38~~40) *NFPA 101, 9.6.5.2(3).* Add the following exception:

"**Exception to (3)**: Manual fire alarm initiation shall not activate floor- or zone-dependent smoke control systems."

(41) *NFPA 101, 9.6.7.2.* Add the following: "Annunciation shall comply with the requirements set forth in NFPA 72, as amended by the City Fire Code."

(42) *NFPA 101, 9.6.7.3.* Delete all text after the word "zone".

(43) *NFPA 101, 9.6.7.4.* Delete all text after the word "direction".

(44) *NFPA 101, 9.6.7.4.1, 9.6.7.4.2, 9.6.7.4.3, 9.6.7.4.4, and 9.6.7.4.5.* Delete.

(45) *NFPA* 101, *9.6.8.* Add new subsection 9.6.8 to read as follows:

"9.6.8 All newly constructed below-ground floors of a building, all floors in buildings greater than 25,000 square feet per floor, and all floors of buildings greater than 3 stories in height of Type I and Type II construction shall meet minimum emergency radio communication system performance criteria adopted by Montgomery County. Proof that minimum performance criteria are met shall be provided in writing to the Fire Chief of MCDFRS.

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

(2) Compliance testing shall be performed at the time of occupancy an annually thereafter.

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

Exception: The requirements of this section shall not apply to areas within an individual dwelling unit."

(~~39~~46) *NFPA 101, 9.7.1.1.1.* Add new subsection 9.7.1.1.1 to read as follows:

"9.7.1.1.1 For new ceiling installations, drop-out ceilings as referenced in NFPA 13, Subsection 8.14.13 shall be prohibited."

(~~40~~47) *NFPA 101, 9.7.1.2~~3~~.* Delete ~~the second sentence and~~the phrase "NFPA 13, *Standard for the Installation of Sprinkler Systems*" and replace with the following: "~~The sprinkler piping shall be~~ valved with the domestic water system," and at the end of the paragraph add~~.~~ "Any and all work shall be performed only by a licensed sprinkler contractor."

(~~41~~48) *NFPA 101, 9.7.2.2.1.* Delete all text after the phrase "waterflow alarms shall be" and replace with the following: "~~Where a supervised automatic sprinkler system is required by another section of this *Code*, waterflow alarms must be~~ automatically transmitted to a listed central station."

(~~42~~49) *NFPA 101, 9.~~7~~.3~~8~~.1.* Delete all text and replace with the following: "Where water as an extinguishing agent is not compatible with the fire hazard or is prohibited by law, statute or ordinance, the affected area shall be equipped with an approved automatic fire suppression system utilizing a suppression agent that is compatible with the fire hazard. Automatic fire-extinguishing systems installed as an alternative to required automatic sprinkler systems must be approved by the ~~authority having jurisdiction~~City Fire Marshal. All such systems shall be installed

in accordance with the appropriate standard as determined in Table 9.~~7.~~38.1."

(4~~3~~50) *NFPA 101, 9.~~7.~~511.1.* Delete the phrase "required by this Code".

(44~~5~~1) *NFPA 101, 9.~~7.6.1~~11.2.* Add the following: "When a fire watch is deemed necessary due to a system impairment and the property owner or the owner's agent cannot be contacted to establish a fire watch, the MCDFRS at their discretion may provide the fire watch and charge the property owner the inspection overtime rate per person per hour."

(45~~5~~2) *NFPA 101, 11.8.3.1.* Add the following exception:

"**Exception:** Structures used exclusively as open parking structures."

~~(46) *NFPA 101, 11.8.4.1.1.* Add new subsection 11.8.4.1.1 to read as follows:~~

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

(53) *NFPA 101, 11.8.6.1.* Delete the phrase "fire department" and replace with "City Fire Marshal", and add the following: "In new construction, the emergency command center shall have a door directly to the exterior of the building located as approved by the City Fire Marshal, and the exterior face of the door shall be marked with a plainly visible and legible sign stating "FIRE COMMAND CENTER" or similar approved wording. In addition to the provisions of 11.8.6.2 the fire command center shall also comply with Section 911 of the 2015 edition of the International Building Code."

(47~~5~~4) *NFPA 101, 11.8.6.2(8).* Add the following: "and remote starting.".~~:~~

(48~~5~~5) *NFPA 101, 11.8.6.2(10).* Add the following: "and remote starting only."

(49~~5~~6) *NFPA 101, 11.11.2.1.* Add the following: "or other testing standard approved by the State Fire Marshal."

(~~5~~057) *NFPA* 101, *12.2.2.2.4.* Delete.

(~~5~~158) *NFPA 101, 12.2.4.1 and 13.2.4.1.* Delete and replace with the following: "The number of means of egress shall comply with the following:

(1) Not less than two separate exits shall be provided on every story.

(2) Not less than two separate exits shall be accessible from every part of every story.

(3) All other numbers of means of egress shall comply with Section 7.4.

Exception: Exits for fenced outdoor assembly occupancies in accordance with 12.2.4.4.

(~~52~~59) *NFPA 101, 12.7.7.3.1 and 13.7.7.3.1.* Add new subsections 12.7.7.3.1 and 13.7.7.3.1 to read as follows:

"The employees or attendants of assembly occupancies shall ensure that the following measures are taken:

(1) It is the duty of the individual in charge to call the attention of those present, immediately before the beginning of the proceedings for which the people are assembled, to the number and location of the exits, and to state that the doors to all exits are unlocked. Before making the announcement, it is the duty of the individual to make an actual inspection to verify that the doors are unlocked and the means of egress are free of obstructions, and to correct any deficiencies found.

(2) It is the duty of the individual in charge to call the attention of everyone present at the proceedings to the exits by displaying or announcing the following: "Notice. For your own safety, look for your nearest exit. In case of emergency, walk, do not run, to that exit."

(3) The requirement for calling the attention of everyone present at the proceedings to the exits is complied with by one or more of the following methods:

(a) Oral announcement of the notices in this section at the beginning of the proceedings; or

(b) Showing the notices in this section on the viewing screen where the motion pictures are shown; or

(c) Printing the notices in this section in bold type letters not less than ¼ inch in height on the back of programs for the proceedings. Nothing but the notice shall be placed on the back of the program; or

(d) Having a fixed sign or signs displaying the notices in this section printed in letters of a size and clearness that can be easily read from each point in the assembly room."

(~~53~~60) *NFPA 101, 14.2.11.1.1(1).* After the word "tools", insert the phrase "keys, special knowledge, or excessive force.".

(61) *NFPA 101, 14.7.2.3(1)(b) and 15.7.2.3(1)(b).* Delete the text and replace with the following: "A minimum total of eight emergency drills shall be conducted during the school year, with at least three conducted within four months of the beginning of the school year.

Exception to (b): For educational occupancies in buildings protected throughout by an automatic sprinkler system, the total number of emergency drills conducted during the school year shall be five, with at least two conducted within four months of the beginning of the school year."

(~~54~~62) *NFPA 101, 16.1.1.1 and 17.1.1.1.* Add ~~new~~ the following exception ~~to read as follows~~:

"**Exception**: Day-care centers providing care for school age children before and/or after school hours in a building which is in legal use as a public or private school are not required to meet the provisions of this chapter, but shall meet the provisions for educational occupancies."

(~~55~~63) *NFPA 101, 16.2.11.1.1(3) & 17.2.11.1.1*(3). Add the following exception:

"**Exception to (3)**: For windows at grade, the minimum net clear opening shall be permitted to be 5.0 ft².”

(~~56~~64) *NFPA 101, 16.3.4.5(1) and 17.3.4.5(1).* Add the following exception:

"**Exception to (1)**: In buildings equipped with a selective evacuation fire alarm system, smoke detection at stairwell doors shall only be required at locations that would activate the alarm in the day-care center."

(~~57~~65) *NFPA 101, 16.3.5.4.* Add new subsection 16.3.5.4 to read as follows:

"16.3.5.4 Buildings containing new day-care centers above or below the level(s) of exit discharge shall be protected throughout with automatic sprinkler protection installed in accordance with section 9.7."

(~~58~~66) *NFPA 101, 16.6.1.1.2 and 17.6.1.1.2.* Delete the phrase "more than three, but".

(~~59~~67) *NFPA 101, 16.6.1.4.1.1 and 17.6.1.4.1.1.* Delete the phrase "more than three, but", and change "seven" to "nine"~~.~~"

(~~60~~68) *NFPA 101, 16.6.1.4.1.2 and 17.6.1.4.1.2.* Change "7" to "9".

(~~61~~69) *NFPA 101, 16.6.1.7.1 and 17.6.1.7.1.* Delete existing wording and replace with the following:

"In family day-care homes, a day-care provider's own children incapable of self-preservation shall be counted as clients served and the following shall apply:

(1) At any given time, a day-care provider may not care for more than eight clients, of whom no more than four may be incapable of self-preservation; and

(2) An adult to child ratio of at least one adult to every two children incapable of self-preservation shall be maintained at all times.

Exception to (2): If approved by the City of Gaithersburg Fire Marshal, the staff-to-client ratio may be modified where safeguards are provided in addition to those specified by local codes and ordinances."

~~(62) *NFPA 101, 16.6.2.1 and 17.6.2.1.* Add the following: "Bulkhead doors shall not be permitted to serve as primary means of escape."~~

(6370) *NFPA 101, 16.6.2.2 and 17.6.2.2.* Delete the word "Reserved", and replace with the following:

"**Sliding door.** For family day-care homes, a sliding door used as a required means of ~~egress~~ escape shall comply with the following conditions:

(1) The sliding door shall have not more than one, easily operated, locking device that does not require special knowledge, effort, or tools to operate;

(2) There may not be draperies, screens, or storm doors that could impede egress;

(3) The sill or track height may not exceed 1/2 inch above the interior finish floor;

(4) The surface onto which exit is made shall be an ~~all~~ all-weather surface such as a deck, patio, or sidewalk;

(5) The floor level outside the door may be one step lower than the inside, but not more than 8 inches lower;

(6) The sliding door shall open to a clear open width of at least 28 inches;

(7) Before day-care use each day, the sliding door shall be unlocked and tested to the full required width to be sure it is operating properly, and the door shall be nonbinding and slide easily; and

(8) During periods of snow or freezing rain, door tracks shall be cleared out and the door opened periodically throughout the day in order to ensure proper operation."

(6471) *NFPA 101, 16.6.2.3 and 17.6.2.3.* Delete the word "Reserved", and replace with the following:

"**Special means of escape requirements.** For family day-care homes, any door in a required means of escape may be provided a deadbolt locks ~~shall be provided~~only if the lock is openable with approved interior ~~latches~~mechanism, or these locks shall be of a ~~captured~~ 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.

(72) *NFPA 101, 16.6.2.4.5(3) and 17.6.2.4.5(3).* Add the following exception:

"**Exception to (3):** Bulkhead doors shall not serve as a primary means of escape."

~~(65) *NFPA 101, 16.7.5 and 17.7.5.* Add the following exception:~~

~~"**Exception:** Day Care Homes with not more than three clients for overnight lodging."~~

(~~66~~73) *NFPA 101, 20.3.5.1.* Renumber the existing sections 20.3.5.1 through 20.3.5.3 to 20.3.5.2 through 20.3.5.4 respectively, and add a new subsection 20.3.5.1 to read as follows:

"20.3.5.1 Buildings containing new ambulatory health care occupancies located above or below the level of exit discharge shall be protected throughout by approved automatic sprinkler systems."

(~~67~~74) *NFPA 101, 22.4.5.1.3.* Delete the phrase "or 22.4.5.1.5".

(~~68~~75) *NFPA 101, 22.4.5.1.4(1) and 22.4.5.1.4(2).* Change "2" to "½".

(~~69~~76) *NFPA 101, 22.4.5.1.5 and 22.4.5.2.* Delete.

(~~70~~77) *NFPA 101, 23.4.5.1.3.* Delete the phrase "or 23.4.5.1.5"

(~~71~~78) *NFPA 101, 23.4.5.1.4(1) and 23.4.5.1.4(2).* Change "2" to "½".

(~~72~~79) *NFPA 101, 23.4.5.1.5 and 23.4.5.2.* Delete.

(~~73~~80) *NFPA 101, 24.1.1.~~1~~2.* Replace the word "three" with "five" and delete the phrase ", if any, accommodated in rented rooms".

(~~74~~81) *NFPA 101, 24.2.2.3.3.* After the phrase "5.7 ft² (0.53 m²)" insert the phrase "or not less than 5.0 ft² when at grade".

(82) *NFPA 101, 24.3.4.1.3.* Add the following: "in locations that were not required to have smoke alarms at the time the dwelling was constructed."

(~~75~~83) *NFPA 101, 26.1.1.1.* After the word "buildings" insert the phrase "that do not qualify as one- and two-family dwellings, and".

(84) *NFPA 101, 26.3.4.5.1* Delete the phrase ", other than existing smoke alarms meeting the requirements of 26.3.4.5.3,".

(~~76~~85) *NFPA 101, 26.3.4.5.3. Delete.*

(~~77~~86) *NFPA 101, 28.3.4.3.5.* Delete all text after the word "provided".

(~~78~~87) *NFPA 101, 29.3.4.5.2~~, 30.3.4.3.3, and 30.3.4.3.4~~.* Delete.

(88) *NFPA 101, 30.3.4.3.2.* Delete the phrase ", unless the building complies with either 30.3.4.3.3. or 30.3.4.3.4."

(89) *NFPA 101, 30.3.4.3.3 and 30.3.4.3.4.* Delete.

~~(79) *NFPA 101, 30.3.4.7.* Add new subsection 30.3.4.7 to read as follows:~~

~~"30.3.4.7 **Carbon Monoxide Alarms**. Carbon monoxide alarms shall be installed in accordance 9.6.2.12."~~

(~~80~~90) *NFPA 101, 31.3.4.5.2.* Delete.

(~~81~~91) *NFPA 101, 31.3.4.5.3.* Delete the phrase "or a complete, supervised automatic sprinkler system in accordance with 31.3.5".

(~~82~~92) *NFPA 101, 31.3.4.5.4.* ~~After the word "powered", insert the phrase "unless another state or local fire prevention code or building code or similar governmental code requires smoke alarms to be powered by the~~

~~building electrical service~~Add the following: "in sleeping rooms that were not required to have smoke alarms at the time the building was constructed".

(~~83~~93) *NFPA 101, 32.2.2.3.1(3).* After the phrase "5.7 ft² (0.53 m²)" insert the phrase "or not less than 5.0 ft² when at grade".

(~~84~~94) *NFPA 101, 32.2.3.4.~~5~~4.* Add new subsection 32.2.3.4.~~5~~4 to read as follows:

"*32.2.3.4.~~5~~4* **Carbon Monoxide Alarms.** Carbon monoxide alarms shall be installed in accordance 9.8."

(~~85~~95) *NFPA 101, 32.3.3.4.9.* Add new *subsection* 32.3.3.4.9 to read as follows:

"32.3.3.4.9 **Carbon Monoxide Alarms.** Carbon monoxide alarms shall be installed in accordance 9.8."

(~~86~~96) *NFPA 101, 32.7.5.2.2 and 32.7.5.3.2.* Delete all text after the word "tested".

(~~87~~97) *NFPA 101, 33.2.2.3.1(3).* After the phrase "5.7 ft² (0.53 m²)" insert the phrase "or not less than 5.0 ft² when at grade".

(~~88~~98) NFPA *101, 33.2.3.4.3.1.* Delete the phrase "33.2.3.4.3.6 and".

(~~89~~99) *NFPA 101, 33.2.3.4.3.3.* After the word "for", insert the phrase "sleeping rooms,".

(~~90~~100) *NFPA 101, 33.2.3.4.3.5.* After the word "system", insert the phrase "and have secondary battery backup" and add the following exception:

"**Exception**: Unless another state or local fire prevention code or building code or similar governmental code requires smoke alarms to be powered by the building electrical service, smoke alarms installed in sleeping rooms in order in order to comply with this section may be battery-powered without secondary power."

(~~91~~101) *NFPA 101, 33.2.3.4.3.6.* Delete.

(~~92~~102) *NFPA 101, 33.3.3.4.7.1.* After the word "system", insert the phrase "and have secondary battery backup"~~ and add the following exception:~~.

~~"**Exception**: Unless another state or local fire prevention code or building code or similar governmental code requires smoke alarms to be powered by the building electrical service, smoke alarms installed in sleeping rooms in order in order to comply with this section may be battery-powered without secondary power."~~

(~~93~~103) *NFPA 101, 33.3.3.4.7.2 and 33.3.3.4.7.3.* Delete.

(94104) *NFPA 101, 33.3.3.4.8.1.* Delete the phase "33.3.3.4.8.2 and".

(~~95~~105) *NFPA 101, 33.3.3.4.8.2.* Delete.

(~~96~~106) *NFPA 101, 33.7.5.2.2 and 33.7.5.3.2.* Delete all text after the word "tested".

(~~97~~107) *NFPA 101, 36.2.5.11(4).* Add the following: The egress path shall be defined by a fixed barrier or guardrail with at least one intermediate rail. The fixed barrier or guardrail shall be at least 42 inches above the adjacent walking surface, and any openings in the fixed barrier or guardrail for passage shall be limited to a maximum of 36 inches width."

(108) *NFPA 101, 36.3.1(5).* Delete the phrase "and the number of contiguous stories shall not be limited".

(~~98~~109) *NFPA 101, 36.3.4.1.* After the word "occupancies", insert the phrase "and multiple story Class B mercantile occupancies".

(~~99~~110) *NFPA 101, 36.4.4.47.3.2.* At the end of the sentence, add the phrase "as permitted in 9.6.3.5.7."

(~~100~~111) *NFPA 101, 37.2.5.11(4).* After the word "defined", insert the phrase "with fixed barriers".

(~~101~~112) *NFPA 101, 37.3.4.1.* After the word "occupancies", insert the phrase "and multiple story Class B mercantile occupancies".

(~~102~~113) *NFPA 101, 38.2.4.4(3)(a).* After the word "stories", insert the phrase ", and shall not have any openings into the stair from other stories".

(114) *NFPA 101, 38.3.1.1(3).* Delete the phrase "and the number of contiguous stories shall be unlimited".

~~(103) *NFPA 101, 39.2.4.8.* Add new subsection 39.2.4.8 to read as follows:~~

~~"39.2.4.8 Any two-story business occupancy building not exceeding 3000 square feet gross floor area per floor shall be permitted to have a single exit via an approved outside stairway, or a single totally enclosed interior stairway to the second floor having discharge directly to the exterior of 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.~~

~~**Exception**: An interior single exit stairway shall be permitted to be arranged as a floor communicating stair, with one-hour rated fire doors at the entrances to each level if it is protected as follows: The building shall be provided with A/C hard-wired smoke detection in accordance with NFPA 72 arranged to sound an audible alarm throughout each level, and the stairway shall be provided with approved automatic sprinkler protection, installed in accordance with NFPA 13, with sprinklers located at the top of the stair and over each landing and on the tenant side of each interior fire door opening into the stairway."~~

(~~104~~115) *NFPA 101, 42.3.4.1.2 and 42.3.4.1.3.* After the word "occupancies" add "less than 3 stories".

(~~105~~116) *NFPA 101, 42.8.2.2.3.2.* Add the following: "Stairway Identification in accordance with 7.2.2.5.4 shall be provided."

(117) *NFPA 101, 42.8.3.4.1.1 and 42.8.3.4.1.3.* after the word "structures", insert "less than three stories".

(~~106~~118) *NFPA 101, 42.8.3.4.3.1.* Delete the *text* after the word "shall" and replace with "~~–~~sound a general evacuation alarm in accordance with 9.6.3.6 and provide emergency forces notification in accordance with 9.6.4".

Sec. 11-16. Amendments and Modifications to the NFPA Codes Governing Fire Protection Systems.

The *Standard for the Installations of Sprinkler Systems* (NFPA 13), ~~2010~~ 2016 edition, the *Standard for the Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes* (NFPA 13D), 2013 edition, the *Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height* (NFPA 13R), 2013 edition, the *Standard for the Installation of Standpipe and Hose Systems* (NFPA 14), ~~2010~~ 2013 edition, the *Standard for the Installation of Stationary Pumps for Fire Protection* (NFPA 20), ~~2010~~ 2013 edition, the *National Fire Alarm Code*® (NFPA 72®), ~~2010~~ 2013 edition, ~~and~~ the *Standard for Smoke Control Systems* (NFPA 92), 2012 edition, and the *Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations(NFPA 96),* 2014 edition, are modified as follows:

(1) *NFPA 13, 8.1.1(89).* Add new ~~paragraph~~ subparagraph (89) as follows:

"(89) ~~Special Service~~ Sprinklers for special service conditions, as defined in 3.6.43, shall be installed where required by the ~~AHJ~~City Fire Marshal."

(2) *NFPA 13, 8.2.4.1.* Replace the phrase "Multistory buildings exceeding two stories in height" with "Where a sprinkler system serves more than one level, each level", and add the following exceptions:

Exception 1: In buildings not exceeding three floors and 3000 square feet per floor.

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

Exception 3: Mezzanines not exceeding 3000 square feet in area.

Exception 4: Detention and correctional facilities."

(3) *NFPA 13, 8.2.4.2 and 8.2.4.3.* Delete.

(24) *NFPA 13, 8.4.5.1.* Delete text and replace with the following: "Listed residential sprinklers shall be permitted to be used in cells and dwelling units ~~except~~ in Detention and Correctional occupancies, and shall be used in all dwelling units in all other occupancies. Residential sprinklers

are permitted in corridors serving dwelling units provided they are installed in conformance with their listing."

(5) *NFPA 13, 8.15.3.2.3.1.* Delete.

(36) *NFPA 13, 8.15.7.5.* Add the following: "This includes porte-cocheres, canopies and roofs over areas with vehicle access except those over drive-up windows."

(7) *NFPA 13, 8.15.8.2.* After the word "motels" insert "where the least dimension of the closet does not exceed 3 ft., and".

(48) *NFPA 13, 8.15.1415.* Add the *following*: "New drop-out ceilings are prohibited."

(59) *NFPA 13, 8.15.1920.1.* After the word "ceiling" add "and in any speculative areas subject to tenant changes".

(610) *NFPA 13, 8.15.1920.2 and 8.15.20.3.* Delete. ~~all text after the word "bushings" and replace with "for hydrostatic testing only, and shall be removed prior to the occupancy of the space."~~

(711) *NFPA 13, 8.15.19.3.* Delete.

(812) *NFPA 13, 8.16.1.1.1.4.* Add new subsection 8.16.1.1.1.4 to read as follows:

"8.16.1.1.1.4 ~~When a sprinkler system serves more than one level, each level shall be consistently and separately valved by a listed and approved control valve.~~

~~**Exception 1**: In buildings not exceeding three floors and 3000 square feet per floor.~~

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

~~**Exception 3**: Mezzanines not exceeding 3000 square feet in area.~~

~~**Exception 4**: Detention and correctional facilities.~~Floor control valve assemblies shall be provided as required by 8.2.4, as amended by this ordinance."

(913) *NFPA 13, 8.17.1.1.* Add the following: Where a sprinkler system is required to activate a fire alarm system and separate valves for each level are required ~~by 8.16.1.1.1.4~~, the sprinkler system shall have a separate and distinct water flow detecting device for each floor and zone.

(1014) *NFPA 13, 8.17.2.1.* Add the following: "and shall meet the following requirements:

(a) ~~Shall be positioned between 18 and 48 inches from grade to the centerline of the inlets.~~

(~~b~~a) The number of 2½-inch inlets provided shall be as follows:

System Demand (gpm)	No. of inlets
Up to 749	2
750—999	3
1000 and above	4

(~~c~~b) Multiple connections for the same building shall be interconnected."

~~(11) *NFPA 13, 8.17.2.3.* Delete all text after the word "be" and replace with the following: "sized at least as large as the main sprinkler system riser pipe or the fire pump discharge line, whichever is larger."~~

(~~12~~15) *NFPA 13, 8.17.2.4.6.* Delete text and replace with the following: "Fire department connections shall be positioned between 18 and 48 inches from grade to the centerline of the inlets and shall be located within 100 feet of a free standing (not wall type) hydrant, measured along a path accessible by walking. Measurement shall be around all obstructions, including parking spaces, fences, and landscaping.

(~~13~~16) *NFPA 13, 11.1.1.* Add the following: "Calculations for new systems or new portions of systems shall meet the following criteria:

(a) Highest hazard and most demanding use allowed by building construction permit or property zoning.

(b) Storage use: Available storage height and configuration which produces the greatest demand.

(c) New speculative spaces subject to tenant changes shall not use grid systems or extended coverage sprinklers, and design cannot use small room or room design method.

(d) All uses: 20% safety factor. For systems without a pump, the safety factor is based on the demand pressure only at the supply point. For systems with a pump, the safety factor is based on both the demand pressure and demand flow at the pump discharge. All design options, except grids, shall be explored. Owner occupied buildings may use a lower safety factor if a pump would be necessary to achieve the 20%."

~~(14) *NFPA 13, 11.3.1.1.* Delete the word "adjacent", and add the following: "Where sprinklers are installed on ceilings that are not smooth, flat, and level, sprinklers listed for the ceiling configuration shall be used. If there are no sprinklers listed for the proposed ceiling configuration, then the number of design sprinklers calculated shall be at least five."~~

(17) *NFPA 13, 23.4.4.8.1(5).* Add the following exception:

"**Exception to (5):** When fitting equivalent lengths from manufacturer's published tables are used instead of equivalent lengths from Table 23.4.3.1.1, all fitting equivalent lengths in the manufacturer's chart must be accounted for in the calculations, including equivalent lengths for straight-through flow in tee or cross fittings.

(~~15~~18) *NFPA 13, ~~23~~24.1.2.* Add the following: "Pressure and flow availability as determined by ~~a public utility~~WSSC Hydraulic Information Sheet shall be used for new taps. Pressure and flow availability for existing taps shall be determined by interior flow test. In any case, the supply information shall be corrected for the low hydraulic gradient. Booster pumps and pump/tank supplies shall only be used where it is demonstrated that the public water supply is inadequate."

(~~16~~19) *NFPA 13D, 6.2.(1).* Add the following: "Pressure ~~and flow~~ availability as determined by ~~a public utility~~WSSC Low Hydraulic Gradient shall be used ~~and shall be adjusted to the low hydraulic gradient~~. Booster pumps and pump/tank supplies may only be used where it is demonstrated that the public water supply is inadequate to meet sprinkler demand.

(~~17~~20) *NFPA 13D, 6.2.1(5).* Add new paragraph (5) as follows:

"(5) The pump shall be connected to a run timer that will keep the pump running for at least 5 minutes when the pump is started for any reason."

(~~18~~21) *NFPA 13D, 6.2.3.1.* Replace the phrase "be permitted to serve" with "also control".

(~~19~~22) *NFPA 13D, 7.1.2.* After the word "unless", insert the phrase "fed by a tank and"

(~~20~~23) *NFPA 13D, 7.2.1.* Add the following: "Drain shall be downstream of any pump."

(~~21~~24) *NFPA 13D, 7.5.6.3(5).* Add new paragraph (5) as follows:

"(5) Where possible to maintain listed coverage, sprinklers shall be positioned so as to eliminate the need to install sprinklers of a higher temperature rating."

(~~22~~25) *NFPA 13D, 8.2.5.1.* Add the following: "Sprinklers in closets shall not be located directly above shelves."

~~(23) *NFPA 9.1.2(5).* Add the following "Dry pendent and dry sidewall sprinkler barrel lengths shall be as specified by the manufacturer."~~

(~~24~~26) *NFPA 13D, 9.2.* Add the following: "Antifreeze Systems shall not be installed unless specifically permitted by the City Fire Marshal."

(~~25~~27) *NFPA 13D, 10.4.10.* Add new subsection 10.4.10 to read as follows:

"10.4.10 All calculations shall include at least 10% safety factor to account for minor field changes, unless a booster pump is necessary to obtain this safety factor."

(28) *NFPA 13D, 11.2.1.4.* Replace the phrase "be permitted to" with "not", and delete the phrase "or plugs".

(29) *NFPA 13D, 12.3.3.3.* Add new subsection 12.3.3.3 to read as follows:

"12.3.3.3 Concealed sprinklers shall not have any spray foam insulation applied to the sprinkler assembly, and the cover plates shall not have any caulk, sealant, paint, glue, or any other product that may adversely affect sprinkler operation applied to the cover plate or between the cover plate and the ceiling."

(~~26~~30) *NFPA 13R, 3.3.6.* Delete text and replace with the following: "Grade Plane. For the purposes of this standard, grade plane shall be as defined in NFPA 101, as amended by the City Fire Code.

(~~27~~31) *NFPA 13R, 5.4.2(1).* After the word "system", insert the phrase ", where specifically permitted by the City Fire Marshal, and".

(~~28~~32) *NFPA 13R, 6.2.1.1.* Delete the phrase " 6.2.1.3 or".

(~~29~~33) *NFPA 13R, 6.2.1.3, 6.2.1.3.1, and 6.2.1.3.2.* Delete.

(~~30~~34) *NFPA 13R, 6.2.3.1.* Add the following: "Where possible to maintain listed coverage, sprinklers shall be positioned so as to eliminate the need to install sprinklers of a higher temperature rating."

(~~31~~35) *NFPA 13R, 6.4.6.3.2.* Add the following: "Sprinklers shall not be located directly above shelves."

(36) *NFPA 13R, 6.8.2.* Delete text and replace with the following: "On systems protecting more than one dwelling unit, the system piping may have a separate control valve installed if the valve is supervised in the open position by central station monitoring."

(~~32~~37) *NFPA 13R, 6.11.2.* Add the following: " -The fire department connection shall be located on a street front and shall be mounted such that it is 18 to 48 inches from the centerline of the inlet to finished grade."

(38) *NFPA 13R, 6.11.5.* Add new subsection 6.11.5 to read as follows:

"6.11.5 The piping between the fire department connection and the system riser shall not have a smaller diameter than the system riser diameter."

(~~33~~39) *NFPA 13R, 6.15.* Delete.

(~~34~~40) *NFPA 13R, 7.4.* Add the following: "All calculations shall include at least a 10% safety factor to account for minor field changes, unless a booster pump is necessary to obtain this safety factor."

(41) *NFPA 13R, 8.2.* Add new subsection 8.2 to read as follows:

"8.2 Piping shall be sized using hydraulic calculation procedures in accordance with NFPA 13."

(~~35~~42) *NFPA 13R, 9.3.1.* Add new subsection 9.3.1 to read as follows: "Pressure and volume availability, as determined by ~~a public utility~~WSSC, shall be used and shall be adjusted to the low hydraulic gradient. Booster pumps or pump/tanks as part of the water supply shall only be used where it is demonstrated that the public water supply is inadequate.

(~~36~~43) *NFPA 13R, 9.6.* Add the following exception:

"**Exception**: Where the common domestic/fire main serves a single dwelling unit, the domestic demand may be omitted from the overall system demand."

(~~37~~44) *NFPA 13R, 11.1.1.* Delete the phrase "at least six".

(~~38~~45) *NFPA 13R, 11.1.5* Add new exception to read as follows:

"**Exception to (1)**: For systems serving a single dwelling unit, one sprinkler of each type and temperature rating shall be provided."

(~~39~~46) *NFPA 14, 4.7.3.* Add the following: "Caps shall be secured to the standpipe riser with chains."

(~~40~~47) *NFPA 14, 5.1.2.* Add the following:

"(1) Standpipe systems in unheated areas shall be automatic dry type.

(2) Standpipe systems in detached open parking garages may be manual dry type, if the piping is air supervised for breaks or open valves.

(3) All other standpipe systems shall be automatic wet type.

(4) Occupant use hose is prohibited in new or existing buildings.

(5) New standpipe systems shall be Class I only."

(~~41~~48) *NFPA 14, 5.4.1.1.* Delete all text and replace with the following: "Class I standpipe systems shall be of the types as specified in 5.1.2 as amended."

(49) *NFPA 14, 6.1.2.3.2, 6.1.2.3.2.1, 6.1.2.3.2.2, and 6.1.2.3.2.3.* Delete.

(~~42~~50) *NFPA 14, 6.4.3.2.* Add ~~the~~ new subsection 6.4.3.2 to read as ~~following~~follows:

"~~(5) The number of 2 ½ in. inlets provided shall be as follows:~~

~~System Demand (gpm)~~	~~No. of inlets~~
~~(a) Up to 749~~	~~2~~
~~(b) 750-999~~	~~3~~
~~(c) 1,000 and above~~	4

~~(6)~~ 6.4.3.2 Multiple connections on the same building shall be interconnected."

(~~43~~51) *NFPA 14, 6.4.5.3.* After the word "services", insert the phrase "a section of a building, or".

(~~44~~52) *NFPA 14, 6.4.5.4.* Add the following: "Measurement shall be along a path accessible by walking. Measurement shall be around all obstructions, including parking spaces, fences, and landscaping."

(~~45~~53) *NFPA 14, 7.3.2.2.* Add the following:

"(1) Measurement shall be parallel or at right angles to walls.

(2) Measurement in parking areas shall be around all designated parking spaces.

(3) Supplemental hose valves outside the stairs shall 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 shall be marked by the placement of signs, the striping of columns, or other approved methods.

(4) Where supplemental hose valves are provided in parking areas, valves must be located adjacent to drive lanes or provided 44-inch wide access aisles to the valve, defined by curbs, railings, bollards or other approved means to prevent vehicles from parking in the access aisle."

(~~46~~54) *NFPA 14, 7.8.1.* 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 shall 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 shall also be sized to provide the required flow and pressure for all hose stations required to be flowing, when supplied by 150 psi at the fire department connection(s). Two sets of calculations will, therefore, be required under this exception.

Exception 2: In existing buildings, after shell occupancy, hose valves added to correct reach violations created by tenant modifications may be supplied by 3 inch pipe without recalculation."

(~~47~~55) *NFPA 14, 7.8.1.1.* After the word "systems", insert the phrase "and systems in buildings that are not high-rise", and add the following ", assuming 150 psi available supply".

(~~48~~56) *NFPA 20, 4.12.1.* Add the following: "Fire pump installations, including the pump, driver, or controller, shall not be permitted to be installed in below-ground areas such as vaults or pits unless specifically allowed by the City of Gaithersburg Fire Marshal."

(4957) *NFPA 20, 4.14.6.4.* Add the following: "Eccentric reducers shall be installed with the flat side on the bottom when fed from above."

~~(50) *NFPA 20, 4.18.1.2.* Add the following: "A relief may be installed to reduce operating pressure below 175 psi at high gradient."~~

(5158) *NFPA 20, 4.18.7.* Delete text and replace with: "Relief valves shall not be piped back into the source of the supply."

(59) *NFPA 20, 4.18.7.1, 4.18.7.2, and 4.18.7.2.1.* Delete.

(5260) *NFPA 72, 10.1618.1.1.3.* Add ~~new subsection 10.16.1.1.3 to read as follows~~the following: "~~10.16.1.1.3~~ An annunciator with the following features is required when the building is greater than one story, over 22,500 square feet in area per floor, or has more than one type of alarm initiating device:

(a) Annunciator shall have a visible signal for each different floor, zone, and device type. Floor designations shall match those used in elevators and stairways.

~~(b) Zones shall not exceed a single floor, 22,500 square feet, or 300 linear feet. Sprinkler systems may be zoned in accordance with the applicable sprinkler standard.~~

~~(c) If two or more zones per floor are required, a graphic outline incorporated into or adjacent to the annunciator shall be provided showing the building address, building outline, exterior entrances, zone boundaries, "you are here" notation, north compass arrow, all stairways, stairway identification, the floors served by each stairway, stairways that have roof access, all elevators, elevator identification, the floors served by each elevator, elevator machine rooms, emergency generator, main utility shutoffs, fire alarm control panel, fire pump, all standpipe risers, adjacent, street(s), and fire department connections.~~

(b) A lamp type annunciator shall have a lamp test switch unless the annunciator circuits are supervised.

~~If two or more buildings are controlled by one alarm system, an annunciator shall be installed in each building with a pilot lamp indicating the building of alarm origination."~~

(5361) *NFPA 72, 10.1618.3.2.* Delete the text after the word "~~be~~located" and replace with "~~located~~ at, and visible from, the main fire department entrance, or other location approved by Montgomery County Fire and Rescue Service".

(62) *NFPA 72, 10.18.5.1.* Add the following: "Floors exceeding 22,500 square feet in area or 300 linear feet shall be separated into multiple zones not to exceed those parameters.

(63) *NFPA 72, 10.18.5.2.* Delete the text and replace with the following: "If two or more zones per floor are required, a graphic outline incorporated into or adjacent to the annunciator shall be provided showing the building address, building outline, exterior entrances, zone boundaries, "you are here" notation, north compass arrow, all stairways, stairway identification, the floors served by each stairway, stairways that have roof access, all elevators, elevator identification, the floors served by each elevator, elevator machine rooms, emergency generator, main utility shutoffs, fire alarm control panel, fire pump, all standpipe risers, adjacent, street(s), and fire department connections.

(64) *NFPA 72, 10.18.5.3.* Delete the text and replace with the following: "If two or more buildings are controlled by one alarm system, an annunciator shall be installed in each building with a pilot lamp indicating the building of alarm origination."

(~~54~~65) *NFPA 72, 17.7.1.7.* Add the following: "Detectors located at the top of shafts and stairs shall only sound a supervisory signal ~~only~~ unless a confirmation or verification feature is provided to minimize unwanted alarms. The location shall be identified at the annunciator or fire alarm control panel."

(~~55~~66) *NFPA 72, 17.7.1.8.* Add the following: "Environments not suitable for smoke detectors shall use rate of rise or rate compensated detectors, or other detection as approved by the City Fire Marshal."

(~~56~~67) *NFPA 72, 17.7.5.4.2.* Add the following: "Activation of duct smoke detectors shall sound an audible signal in a normally occupied area or through the building fire alarm system, and shall be identified as duct detector. If connected to the building alarm system, the signal shall be supervisory only and shall not initiate the building evacuation alarm unless a confirmation or verification feature is provided to minimize unwanted alarms."

(~~57~~68) *NFPA 72, 17.12.4.* Add new subsection 17.12.4 to read as follows:

"17.12.4 Standpipe or main water flow indicators, if provided, shall sound a supervisory signal only."

(~~58~~69) *NFPA72, 17.14.9.* Add new subsection 17.14.9 to read as follows:

"17.14.9 Approved '9-1-1' instruction signs shall be permanently affixed and maintained at each manual fire alarm ~~station~~box, unless the fire alarm is monitored by a UL listed central station."

(~~59~~70) *NFPA 72, 18.4.3.1.~~1.~~* Add the following: "and with intervening doors closed."

(~~60~~71) *NFPA 72, 23.8.5.4.5.* After the word "notification", insert the phrase "or activation of a required extinguishing system."

(~~61~~72) *NFPA 72, 24.5.1.15* . Delete the text and replace with the following: "At least six handsets shall be provided in the fire command center."

(~~62~~73) *NFPA 72, 29.8.3.4(13), 29.8.3.4(14) and 29.8.3.4(15).* Add new subsections (13), (14) and (15) to read as follows:

"(13) ~~Smoke alarms shall be arranged such that smoke from areas other than bathrooms or clothes/linen closets cannot bypass the detector before spreading to any sleeping room or area.~~

(14) ~~Entrances to sleeping rooms shall be protected by properly placed smoke alarms unless the door leads only to a bathroom or clothes/linen closet.~~

(15) Enclosed rooms such as dens, libraries, studies, or sitting rooms which could be used as a temporary sleeping area shall be treated as bedrooms."

(~~63~~74) *NFPA 92, 7.1(3).* Add new subsection (3) to read as follows:

"(3) System shop drawings for submittal to the AHJ."

(~~64~~75) *NFPA 92, 7.2.* Add new subsection 7.2 to read as follows:

"7.2 **Shop Drawing Submittals.** Shop drawings shall be prepared and submitted to the City of Gaithersburg for review and a Fire Protection Permit shall be obtained prior to beginning installation. Shop drawings shall include the following information:

i. Plans and specifications
ii. Engineering calculations and/or computer model
iii. Floor plans
iv. System diagram and details
v. Sequence of operations and control layout
vi. Preliminary test procedures
vii. Acceptance test procedures
viii. Pass/fail criteria"

(76) *NFPA 96, 1.1.5.* Add new subsection 1.1.5 to read as follows:

"1.1.5 In day-care centers and business occupancies doing food warming only, Home Economics classrooms in Educational Occupancies, or in existing structures that were originally constructed as single family dwellings and have been converted to Lodging or Rooming Houses or small Board and Care facilities, protection may consist of the following:

(a) A listed and approved recirculating residential ventilation hood with range top extinguishing system installed in accordance with the manufacturer's specifications

(b) For residential ranges with recirculating ventilation hoods in buildings equipped with approved automatic sprinkler protection throughout, the sprinkler system may be considered to provide surface protection."

Sec. 11-17. Severability.

Should any provision or section of this Chapter 11 be held to be invalid, it is intended that the remaining provisions and sections of this chapter shall not be affected and shall continue to apply.

ADOPTED by the City Council this 6th day of September, 2016.

JUD ASHMAN, MAYOR and
President of the Council

DELIVERED to the Mayor of the City of Gaithersburg this 6th day of September, 2016. APPROVED by the Mayor of the City of Gaithersburg this 6th day of September, 2016.

JUD ASHMAN, MAYOR

THIS IS TO CERTIFY, that the foregoing Ordinance was adopted by the City Council of the City of Gaithersburg, in public meeting assembled on the 6th day of September, 2016; and that the same was APPROVED by the Mayor of the City of Gaithersburg on the 6th day of September, 2016. This Ordinance will become effective on the 26th day of September, 2016.

Tony Tomasello, City Manager