Virginia Board of Housing and Community Development
STATEWIDE FIRE PREVENTION CODE DEVELOPMENT COMMITTEE
2018 CODE CHANGE CYCLE – BOOK 1
SEPTEMBER 16, 2019

Opening Statement

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DEPARTMENT OF HOUSING AND COMMUNITY DEVELOPMENT
2018 Virginia Statewide Fire Prevention Code Base Document

Summary – This document is compiled by staff of the State Building Codes Office of the Division of Building and Fire Regulation. Its purpose is to convert the 2015 SFPC to the 2018 SFPC by comparing the language in the 2015 SFPC to the 2018 edition of the International Fire Code (IFC) which has amendments in the SFPC. It is not intended to create substantive changes to the 2015 SFPC. The base document is simply to make those necessary changes to the 2015 SFPC to bring in the 2018 International Fire Code (IFC) and standards and keep the existing state amendments. If the 2018 IFC includes construction related provisions that conflict with the USBC, that language is removed or amended. If the 2018 IFC includes language that is consistent with an existing state amendment, then the existing state amendment is no longer needed and is deleted. The staff document is intended to serve as the basis for the publishing of proposed regulations for the 2018 SFPC. Once the base document is approved by the Board of Housing and Community Development, if any code change proposals are considered and approved by the Board of Housing and Community Development to also go into the proposed regulations for the 2018 SFPC, those proposals would be correlated with this base document and brought back to the Board of Housing and Community Development as a separate "proposed regulations" document for review.

13VAC5-51-11. Chapter 1 Administration; Section 101 Scope.

Part I. General Regulations

A. 101.1 Title. These regulations shall be known as the Virginia Statewide Fire Prevention Code (SFPC), hereinafter referred to as "this code" or "SFPC." The term "chapter" means a chapter in the SFPC. The SFPC was cooperatively developed by the Virginia Fire Services Board and the Virginia Board of Housing and Community Development.

B. 101.2 Scope. The SFPC prescribes regulations affecting or relating to maintenance of structures, processes and premises and safeguards to be complied with for the protection of life and property from the hazards of fire or explosion and for the handling, storage and use of fireworks, explosives or blasting agents, and provides for the administration and enforcement of such regulations. The SFPC also establishes regulations for obtaining permits for the manufacturing, storage, handling, use, or sales of explosives. Inspections under the SFPC are a governmental responsibility.

C. 101.3 Purpose. The purposes of the SFPC are to provide for statewide standards to safeguard life and property from the hazards of fire or explosion arising from the improper maintenance of life safety and fire prevention and protection materials, devices, systems and structures, and the unsafe storage, handling, and use of substances, materials and devices, including explosives and blasting agents, wherever located.

D. 101.4 Validity. To the extent that any provisions of the SFPC or the referenced codes or standards are not within the scope of this chapter, those provisions are considered to be invalid. When any provision of the SFPC is found to be in conflict with the USBC, OSHA, or statute, that provision of the SFPC shall become invalid.

E. 101.5 Local regulations. Any local governing body may adopt fire prevention regulations that are more restrictive or more extensive in scope than the SFPC provided such regulations do not affect the manner of construction or materials to be used in the erection, alteration, repair, or use of a building or structure, as provided in the USBC, including the voluntary installation of smoke alarms and regulation and inspections

thereof in commercial buildings where such smoke alarms are not required under the provisions of the SFPC.

F. 101.6 Nonresidential farm structures. Farm structures not used for residential purposes are exempt from the SFPC except when the inspection and enforcement provisions of the code are exercised by a warrant issued under the authority of §§ 27-98.2 through 27-98.5 of the Code of Virginia.

13VAC5-51-21. Section 102 Applicability.

A. 102.1 General. The provisions of the SFPC shall apply to all matters affecting or relating to structures, processes and premises as set forth in Section 101. The SFPC shall supersede any fire prevention regulations previously adopted by a local government or other political subdivision.

B. 102.1.1 Change of occupancy. No change of occupancy shall be made in any building or structure unless such building or structure is made to comply with the requirements of the USBC as determined by the building official.

C. 102.2 Application to pre-1973 buildings and structures. Buildings and structures constructed prior to the USBC (1973) shall comply with the maintenance requirements of the SFPC to the extent that equipment, systems, devices, and safeguards which were provided and approved when constructed shall be maintained. Such buildings and structures, if subject to the state fire and public building regulations (Virginia Public Building Safety Regulations, VR 394-01-05) in effect prior to March 31, 1986, shall also be maintained in accordance with those regulations.

D. 102.3 Application to post-1973 buildings and structures. Buildings and structures constructed under any edition of the USBC shall comply with the maintenance requirements of the SFPC to the extent that equipment, systems, devices, and safeguards which were provided and approved when constructed shall be maintained.

E. 102.4 Referenced codes and standards. The codes and standards referenced in the IFC shall be those listed in Chapter 80 and considered part of the requirements of the SFPC to the prescribed extent of each such reference. Where differences occur between the provisions of this code and the referenced standards, the provisions of this code shall apply.

F. 102.5 State-owned buildings and structures. The SFPC shall be applicable to all state-owned buildings and structures in the manner and extent described in § 27-99 of the Code of Virginia and the State Fire Marshal shall have the authority to enforce this code in state-owned buildings and structures as is prescribed in §§ 27-98 and 27-99 of the Code of Virginia.

G. 102.6 Relationship to USBC. In accordance with §§ 27-34.4, 36-105.1 and 36-119.1 of the Code of Virginia, the USBC does not supersede the provisions of this code that prescribe standards to be complied with in existing buildings and structures, provided that this code shall not impose requirements that are more restrictive than those of the USBC under which the buildings or structures were constructed. Subsequent alteration, enlargement, rehabilitation, repair or conversion of the occupancy classification of such buildings and structures shall be subject to the construction and rehabilitation provisions of the USBC. Inspection of buildings other than state-owned buildings under construction and the review and approval of building plans for these structures for enforcement of the USBC shall be the sole responsibility of the appropriate local building inspectors.

Upon completion of such structures, responsibility for fire safety protection shall pass to the local fire marshal or official designated by the locality to enforce this code in those localities that enforce the SFPC or to the State Fire Marshal in those localities that do not enforce this code.

H. 102.7 Inspections for USBC requirements. The fire official shall require that existing structures subject to the requirements of the applicable retrofitting provisions relating to the fire protection equipment and system requirements of the USBC, Part ~~I~~ II, ~~Construction~~ Existing Buildings, Section ~~103.7~~ 1101, comply with the provisions located therein.

13VAC5-51-31. Section 103 Incorporation by Reference.

A. 103.1 General. The following document is adopted and incorporated by reference to be an enforceable part of the SFPC:

> The International Fire Code – ~~2015~~ 2018 Edition, hereinafter referred to as "IFC," published by the International Code Council, Inc., 500 New Jersey Avenue, NW, 6th Floor, Washington, DC 20001-2070, 1-888 422-7233.

B. 103.1.1 Deletion. Delete IFC Chapter 1.

C. 103.1.2 Appendices. The appendices in the IFC are not considered part of the IFC for the purposes of Section 103.1.

Note: Section 101.5 references authority contained in the Code of Virginia for local fire prevention regulations that may be evaluated by localities to determine whether provisions in the IFC appendices may be considered for local fire prevention regulations.

D. 103.2 Amendments. All requirements of the referenced codes and standards that relate to fees, non-operational permits not specifically required by Section 107.2, unsafe notices, disputes, condemnation, inspections, scope of enforcement and all other procedural, and administrative matters are deleted and replaced by the provisions of Chapter 1 of the SFPC.

Exception: The scope of referenced codes and standards referenced by the SFPC that relate to the maintenance, testing and inspection requirements or limitations shall be enforceable.

E. 103.2.1 Other amendments. The SFPC contains provisions adopted by the Virginia Board of Housing and Community Development (BHCD), some of which delete, change or amend provisions of the IFC and referenced standards. Where conflicts occur between such changed provisions and the unchanged provisions of the IFC and referenced standards, the provisions changed by the BHCD shall govern.

Note ~~1~~: The IFC and its referenced standards contain some areas of regulation outside of the scope of the SFPC, as established by the BHCD and under state law. Where conflicts have been readily noted, changes have been made to the IFC and its referenced standards to bring it within the scope of authority; however, in some areas, judgment will have to be made as to whether the provisions of the IFC and its referenced standards are fully applicable.

~~Note 2: Section numbers preceded by "(N)" indicate sections of the IFC that have been changed to remove construction-related provisions that are outside of the scope of the SFPC.~~

F. 103.3 International Fire Code. Retroactive fire protection system requirements contained in the IFC shall not be enforced unless specified by the USBC.

13VAC5-51-41. Section 104 Enforcement.

A. 104.1 Local enforcement. Any local government may enforce the SFPC following official action by such body. The official action shall (i) require compliance with the provisions of the SFPC in its entirety or with respect only to those provisions of the SFPC relating to open burning, fire lanes, fireworks, and hazardous materials and (ii) assign enforcement responsibility to the local agency or agencies of its choice. Any local governing body may establish such procedures or requirements as may be necessary for the administration and enforcement of this code. If a local governing body elects to enforce only those provisions of the SFPC relating to open burning, it may do so in all or in any designated geographic areas of its jurisdiction. The terms "enforcing agency" and "fire official" are intended to apply to the agency or agencies to which responsibility for enforcement of the SFPC has been assigned. The terms "building official" or "building department" are intended to apply only to the local building official or local building department.

B. 104.1.1 Enforcement of fireworks provisions by law-enforcement officers. In accordance with § 27-100.1 of the Code of Virginia, law-enforcement officers who are otherwise authorized to enforce certain provisions of this code shall not be subject to the certification requirements of Section 105.2 or 105.3.2.

C. 104.2 State enforcement. In accordance with § 27-98 of the Code of Virginia, the State Fire Marshal shall also have the authority, in cooperation with any local governing body, to enforce the SFPC. The State Fire Marshal shall also have authority to enforce the SFPC in those jurisdictions in which the local governments do not enforce the SFPC and may establish such procedures or requirements as may be necessary for the administration and enforcement of the SFPC in such jurisdictions.

D. 104.3 State structures. Every agency, commission or institution of this Commonwealth, including all institutions of higher education, shall permit, at all reasonable hours, the fire official reasonable access to existing structures or a structure under construction or renovation, for the purpose of performing an informational and advisory fire safety inspection. The fire official is permitted to submit, subsequent to performing such inspection, his findings and recommendations, including a list of corrective actions necessary to ensure that such structure is reasonably safe from the hazards of fire, to the appropriate official of such agency, commission, or institution and the State Fire Marshal. Such agency, commission or institution shall notify, within 60 days of receipt of such findings and recommendations, the State Fire Marshal and the fire official of the corrective measures taken to eliminate the hazards reported by the fire official. The State Fire Marshal shall have the same power in the enforcement of this section as is provided for in § 27-98 of the Code of Virginia. The State Fire Marshal may enter into an agreement as is provided for in § 9.1-208 of the Code of Virginia with any local enforcement agency that enforces the SFPC to enforce this section and to take immediate enforcement action upon verification of a complaint of an imminent hazard such as a chained or blocked exit door, improper storage of flammable liquids, use of decorative materials, and overcrowding.

13VAC5-51-51. Section 105 Enforcing Agency.

A. 105.1 Fire official. Each enforcing agency shall have an executive official in charge, hereinafter referred to as the "fire official."

Note: Fire officials are subject to sanctions in accordance with the Virginia Certification Standards (13VAC5-21).

B. 105.1.1 Appointment. The fire official shall be appointed in a manner selected by the local government having jurisdiction. After permanent appointment, the fire official shall not be removed from office except

for cause after having been afforded a full opportunity to be heard on specific and relevant charges by and before the appointing authority.

C. 105.1.2 Notification of appointment. The appointing authority of the local governing body shall notify the DHCD and the State Fire Marshal's Office (SFMO) within 30 days of the appointment or release of the permanent or acting fire official.

D. 105.1.3 Qualifications. The fire official shall have at least five years of fire-related experience as a firefighter, fire officer, licensed professional engineer or architect, fire or building inspector, contractor or superintendent of fire protection-related or building construction or at least five years of fire-related experience after obtaining a degree in architecture or engineering, with at least three years in responsible charge of work. Any combination of education and experience that would confer equivalent knowledge and ability shall be deemed to satisfy this requirement. The fire official shall have general knowledge of sound engineering practice with respect to the design and construction of structures, the basic principles of fire prevention and protection, the accepted requirements for means of egress and the installation of elevators and other service equipment necessary for the health, safety and general welfare of the occupants and the public. The local governing body may establish additional qualification requirements.

E. 105.2 Certification. The permanent or acting fire official shall obtain certification from the BHCD in accordance with the Virginia Certification Standards (13VAC5-21) within one year after permanent or acting appointment.

Exception: A fire official appointed prior to April 1, 1994, continuously employed by the same local governing body as the fire official shall comply with required DHCD training under the Virginia Certification Standards (13VAC5-21).

F. 105.2.1 Noncertified fire official. Except for a fire official exempt from certification under the exception to Section 105.2, any acting or permanent fire official who is not certified as a fire official in accordance with the Virginia Certification Standards (13VAC5-21) shall attend the core module of the Virginia Building Code Academy or an equivalent course in an individual or regional code academy accredited by DHCD within 180 days of appointment. This requirement is in addition to meeting the certification requirement in Section 105.2.

G. 105.3 Technical assistant. The local governing body or its designee may utilize one or more technical assistants who, in the absence of the fire official, shall have the powers and perform the duties of the fire official.

Note: Technical assistants are subject to sanctions in accordance with the Virginia Certification Standards (13VAC5-21).

H. 105.3.1 Notification. The fire official shall notify the DHCD within 60 days of the employment, contract or termination of all technical assistants for enforcement of the SFPC.

I. 105.3.2 Qualifications. A technical assistant shall have at least three years of experience and general knowledge in at least one of the following areas: fire protection, firefighting, electrical, building, plumbing or mechanical trades. Any combination of education and experience that would confer equivalent knowledge and ability shall be deemed to satisfy this requirement. The locality may establish additional qualification requirements.

J. 105.3.3 Certification. All technical assistants employed by or under contract to an enforcing agency for enforcing the SFPC shall be certified in the appropriate subject area in accordance with the Virginia

Certification Standards (13VAC5-21) within one and one-half years after permanent or acting appointment. When required by a locality to have two or more certifications, the remaining certifications shall be obtained within three years from the date of such requirement.

Exception: Any technical assistant continuously employed by or continuously under contract to the same enforcing agency for enforcing the SFPC since before April 1, 1994, shall be exempt from the provisions of this section; however, such exempt technical assistant shall comply with required DHCD training under Virginia Certification Standards (13VAC5-21).

Note: Continuing education and periodic training requirements for DHCD certifications are set out in the Virginia Certification Standards (13VAC5-21).

K. 105.4 Control of conflict of interest. The standards of conduct for officials and employees of the enforcing agency shall be in accordance with the provisions of the State and Local Government Conflict of Interests Act, Chapter 31 (§ 2.2-3100 et seq.) of Title 2.2 of the Code of Virginia.

13VAC5-51-61. Section 106 Duties and Powers of the Fire Official.

A. 106.1 General. The fire official shall enforce the provisions of the SFPC as provided herein and as interpreted by the State Review Board in accordance with § 36-118 of the Code of Virginia.

B. 106.2 Delegation of duties and powers. The fire official may delegate duties and powers subject to any limitations imposed by the local governing body. The fire official shall be responsible that any powers and duties delegated are carried out in accordance with this code.

C. 106.3 Inspections. The fire official is authorized to conduct such inspections as are deemed necessary to determine the extent of compliance with the provisions of this code and to approve reports of inspection by approved agencies or individuals in accordance with the fire official's written policy. All reports of such inspections by approved agencies or individuals shall be prepared and submitted in writing for review and approval. Inspection reports shall be certified by a responsible officer of such approved agency or by the responsible individual. The fire official is authorized to engage such expert opinion as deemed necessary to report upon unusual, detailed or complex technical issues in accordance with local policies.

D. 106.3.1 Observations. When, during an inspection, the fire official or an authorized representative observes an apparent or actual violation of another law, ordinance or code not within the official's authority to enforce, such official shall report the findings to the official having jurisdiction in order that such official may institute the necessary measures.

E. 106.4 Alternatives. The SFPC provisions are not intended to prevent the use of any safeguards used to protect life and property from the hazards of fire or explosion that are not specifically prescribed by the SFPC, provided that such alternative safeguards comply with the intent of the SFPC. The alternative safeguard offered shall be, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

F. 106.5 Modifications. The fire official may grant modifications to any provision of the SFPC upon application by the owner or the owner's agent provided the spirit and intent of the SFPC are observed and public health, welfare, and safety are assured.

Note: The current editions of many nationally recognized model codes and standards are referenced by the SFPC. Future amendments to such codes and standards do not automatically become part of the SFPC;

however, the fire official should consider such amendments in deciding whether a modification request should be granted.

G. 106.5.1 Supporting data. The fire official shall require that sufficient technical data be submitted to substantiate the proposed use of any alternative. If it is determined that the evidence presented is satisfactory proof of performance for the use intended, the fire official shall approve the use of such alternative subject to the requirements of this code. The fire official may require and consider a statement from a professional engineer, architect or other competent person as to the equivalency of the proposed modification.

H. 106.5.2 Decision. The application for modification and the final decision of the fire official shall be in writing and shall be recorded in the permanent records of the local enforcing agency.

I. 106.6 Notices and orders. The fire official shall issue all necessary notices or orders to ensure compliance with the SFPC.

J. 106.7 Department records. The fire official shall keep official records of applications received, permits and certificates issued, fees collected, reports of inspections, and notices and orders issued. Such records shall be retained in the official records or disposed of in accordance with General Schedule Number ~~Ten~~ Seventeen available from The Library of Virginia.

13VAC5-51-81. Section 107 Permits and Fees.

A. 107.1 Prior notification. The fire official may require notification prior to (i) activities involving the handling, storage or use of substances, materials or devices regulated by the SFPC; (ii) conducting processes which produce conditions hazardous to life or property; or (iii) establishing a place of assembly.

B. 107.2 Permits required. Operational permits may be required by the fire official as permitted under the SFPC in accordance with Table 107.2, except that the fire official shall require permits for the manufacturing, storage, handling, use, and sale of explosives. In accordance with Section 5601.2.3.1, an application for a permit to manufacture, store, handle, use, or sell explosives shall only be made by a designated individual.

Exception: Such permits shall not be required for the storage of explosives or blasting agents by the Virginia Department of State Police provided notification to the fire official is made annually by the Chief Arson Investigator listing all storage locations.

C. Add Table 107.2 as follows:

Table 107.2. OPERATIONAL PERMIT REQUIREMENTS (to be filled in by local jurisdiction).			
Description	Permit Required (yes or no)	Permit Fee	Inspection Fee
Aerosol products. An operational permit is required to manufacture, store or handle an aggregate quantity of Level 2 or Level 3 aerosol products in excess of 500 pounds (227 kg) net weight.			
Amusement buildings. An operational permit is required to operate a special amusement building.			
Aviation facilities. An operational permit is required to use a Group H or Group S occupancy for aircraft servicing or repair and aircraft fuel-servicing vehicles. Additional permits required by other sections of this code include, but are not limited to, hot work, hazardous materials and flammable or combustible finishes.			
Carnivals and fairs. An operational permit is required to conduct a carnival or fair.			
Cellulose nitrate film. An operational permit is required to store, handle or use cellulose nitrate film in a Group A occupancy.			
Combustible dust-producing operations. An operational permit is required to operate a grain elevator, flour starch mill, feed mill, or a plant pulverizing aluminum, coal, cocoa, magnesium, spices or sugar, or other operations producing combustible dusts as defined in Chapter 2.			
Combustible fibers. An operational permit is required for the storage and handling of combustible fibers in quantities greater than 100 cubic feet (2.8 m^3). Exception: An operational permit is not required for agricultural storage.			
Compressed gas. An operational permit is required for the storage, use or handling at normal temperature and pressure (NTP) of compressed gases in excess of the amounts listed below. Exception: Vehicles equipped for and using compressed gas as a fuel for propelling the vehicle. Permit Amounts for Compressed Gases Type of Gas — Amount (cubic feet at NTP) Corrosive — 200			

Flammable (except cryogenic fluids and liquefied petroleum gases) 200 Highly toxic Any Amount Inert and simple asphyxiant 6,000 Oxidizing (including oxygen) 504 Pyrophoric Any Amount Toxic Any Amount For SI: 1 cubic foot = 0.02832 m^3.				
Covered and open mall buildings. An operational permit is required for: 1. The placement of retail fixtures and displays, concession equipment, displays of highly combustible goods and similar items in the mall. 2. The display of liquid-fired or gas-fired equipment in the mall. 3. The use of open-flame or flame-producing equipment in the mall.				
Cryogenic fluids. An operational permit is required to produce, store, transport on site, use, handle or dispense cryogenic fluids in excess of the amounts listed below. Exception: Operational permits are not required for vehicles equipped for and using cryogenic fluids as a fuel for propelling the vehicle or for refrigerating the lading. Permit Amounts for Cryogenic Fluids Type of Cryogenic Fluid / Inside Building (gallons) / Outside Building (gallons) Flammable: More than 1 / 60 Inert: 60 / 500 Oxidizing (includes oxygen): 10 / 50 Physical or health hazard not indicated above: Any Amount / Any Amount For SI: 1 gallon = 3.785 L.				

Cutting and welding. An operational permit is required to conduct cutting or welding operations within the jurisdiction.			
Dry cleaning plants. An operational permit is required to engage in the business of dry cleaning or to change to a more hazardous cleaning solvent used in existing dry cleaning equipment.			
Exhibits and trade shows. An operational permit is required to operate exhibits and trade shows.			
Explosives, fireworks, and pyrotechnics. An operational permit is required for the storage, handling, sale or use of any quantity of explosive, explosive materials, fireworks, pyrotechnic special effects, or pyrotechnic special effects material within the scope of Chapter 56. Exception: Storage in Group R-3 or R-5 occupancies of smokeless propellant, black powder and small arms primers for personal use, not for resale, and in accordance with the quantity limitations and conditions set forth in Section 5601.1, exception numbers four and 12.			
Explosives, restricted manufacture. An operational permit is required for the restricted manufacture of explosives within the scope of Chapter 56.			
Explosives, unrestricted manufacture. An operational permit is required for the unrestricted manufacture of explosives within the scope of Chapter 56.			
Fire hydrants and valves. An operational permit is required to use or operate fire hydrants or valves intended for fire suppression purposes that are installed on water systems and accessible to a fire apparatus access road that is open to or generally used by the public. Exception: An operational permit is not required for authorized employees of the water company that supplies the system or the fire department to use or operate fire hydrants or valves.			
Flammable and combustible liquids. An operational permit is required: 1. To use or operate a pipeline for the transportation within facilities of flammable or combustible liquids. This requirement shall not apply to the offsite transportation in pipelines regulated by the U.S. Department of Transportation (DOTn) nor does it apply to piping systems. 2. To store, handle or use Class I liquids in excess of 5 gallons (19 L) in a building or in excess of 10 gallons (37.9 L) outside of a building, except that a permit is not required for the following:			

2.1. The storage or use of Class I liquids in the fuel tank of a motor vehicle, aircraft, motorboat, mobile power plant or mobile heating plant, unless such storage, in the opinion of the fire official, would cause an unsafe condition. 2.2. The storage or use of paints, oils, varnishes or similar flammable mixtures when such liquids are stored for maintenance, painting or similar purposes for a period of not more than 30 days. 3. To store, handle or use Class II or Class IIIA liquids in excess of 25 gallons (95 L) in a building or in excess of 60 gallons (227 L) outside a building, except for fuel oil used in connection with oil-burning equipment. 4. To remove Class I or Class II liquids from an underground storage tank used for fueling motor vehicles by any means other than the approved, stationary on-site pumps normally used for dispensing purposes. 5. To operate tank vehicles, equipment, tanks, plants, terminals, wells, fuel-dispensing stations, refineries, distilleries and similar facilities where flammable and combustible liquids are produced, processed, transported, stored, dispensed or used. 6. To install, alter, remove, abandon, place temporarily out of service (for more than 90 days) or otherwise dispose of an underground, protected above-ground or above-ground flammable or combustible liquid tank. 7. To change the type of contents stored in a flammable or combustible liquid tank to a material that poses a greater hazard than that for which the tank was designed and constructed. 8. To manufacture, process, blend or refine flammable or combustible liquids.			
Floor finishing. An operational permit is required for floor finishing or surfacing operations exceeding 350 square feet (33 m^2) using Class I or Class II liquids.			
Fruit and crop ripening. An operational permit is required to operate a fruit- ripening or crop-ripening facility or conduct a fruit-ripening process using ethylene gas.			

Fumigation, thermal, and insecticidal fogging. An operational permit is required to operate a business of fumigation, thermal, or insecticidal fogging and to maintain a room, vault or chamber in which a toxic or flammable fumigant is used.			
Hazardous materials. An operational permit is required to store, transport on site, dispense, use or handle hazardous materials in excess of the amounts listed below. Permit Amounts for Hazardous Materials			
Type of Material — Amount Combustible liquids — See flammable and combustible liquids Corrosive materials Gases — See compressed gases Liquids — 55 gallons Solids — 1000 pounds Explosive materials — See explosives Flammable materials Gases — See compressed gases Liquids — See flammable and combustible liquids Solids — 100 pounds Highly toxic materials Gases — See compressed gases Liquids — Any amount Solids — Any amount Oxidizing materials Gases — See compressed gases			

Liquids				
Class 4	Any amount			
Class 3	1 gallon [a]			
Class 2	10 gallons			
Class 1	55 gallons			
Solids				
Class 4	Any amount			
Class 3	10 pounds [b]			
Class 2	100 pounds			
Class 1	500 pounds			
Organic peroxides				
Liquids				
Class I	Any amount			
Class II	Any amount			
Class III	1 gallon			
Class IV	2 gallons			
Class V	No permit required			
Solids				
Class I	Any amount			
Class II	Any amount			
Class III	10 pounds			
Class IV	20 pounds			
Class V	No permit required			

Pyrophoric materials				
Gases	See compressed gases			
Liquids	Any amount			
Solids	Any amount			
Toxic materials				
Gases	See compressed gases			
Liquids	10 gallons			
Solids	100 pounds			
Unstable (reactive) materials				
Liquids				
Class 4	Any amount			
Class 3	Any amount			
Class 2	5 gallons			
Class 1	10 gallons			
Solids				
Class 4	Any amount			
Class 3	Any amount			
Class 2	50 pounds			
Class 1	100 pounds			
Water reactive materials				
Liquids				
Class 3	Any amount			
Class 2	5 gallons			
Class 1	55 gallons			

Solids Class 3 Any amount Class 2 50 pounds Class 1 500 pounds For SI: 1 gallon = 3.785 L, 1 pound = 0.454 kg. a. Twenty gallons when Table 5003.1.1(1) Note k applies and hazard identification signs in accordance with Section 5003.5 are provided for quantities of 20 gallons or less. b. Two hundred pounds when Table 5003.1.1(1) Note k applies and hazard identification signs in accordance with Section 5003.5 are provided for quantities of 200 pounds or less.			
HPM facilities. An operational permit is required to store, handle or use hazardous production materials.			
High piled storage. An operational permit is required to use a building or portion thereof as a high-piled storage area exceeding 500 square feet (46 m^2).			
Hot work operations. An operational permit is required for hot work including, but not limited to: 1. Public exhibitions and demonstrations where hot work is conducted. 2. Use of portable hot work equipment inside a structure. Exception: Work that is conducted under a construction permit. 3. Fixed-site hot work equipment such as welding booths. 4. Hot work conducted within a hazardous fire area. 5. Application of roof coverings with the use of an open-flame device. 6. When approved, the fire official shall issue a permit to carry out a Hot Work Program. This program allows approved personnel to regulate their facility's hot work operations. The approved personnel shall be trained in the fire safety aspects denoted in this chapter and shall be responsible for issuing permits requiring compliance with the requirements found in this chapter. These permits shall be issued only to their employees or hot work operations under their supervision.			
Industrial ovens. An operational permit is required for operation of industrial ovens regulated by Chapter 30.			
Lumber yards and woodworking plants. An operational permit is required for the storage or processing of lumber exceeding 100,000 board feet (8,333 ft^3) (236 m^3).			

Liquid-fueled or gas-fueled vehicles or equipment in assembly buildings. An operational permit is required to display, operate or demonstrate liquid-fueled or gas-fueled vehicles or equipment in assembly buildings.			
LP-gas. An operational permit is required for: 1. Storage and use of LP-gas. Exception: An operational permit is not required for individual containers with a 500-gallon (1893 L) water capacity or less or multiple container systems having an aggregate quantity not exceeding 500 gallons (1893 L), serving occupancies in Group R-3. 2. Operation of cargo tankers that transport LP-gas.			
Magnesium. An operational permit is required to melt, cast, heat treat or grind more than 10 pounds (4.54 kg) of magnesium.			
Miscellaneous combustible storage. An operational permit is required to store in any building or upon any premises in excess of 2,500 cubic feet (71 m^3) gross volume of combustible empty packing cases, boxes, barrels or similar containers, rubber tires, rubber, cork or similar combustible material.			
Mobile food preparation vehicles. A permit is required for mobile food preparation vehicles equipped with appliances that produce smoke or grease laden vapors. Exception: Recreational vehicles used for private recreation.			
Open burning. An operational permit is required for the kindling or maintaining of an open fire or a fire on any public street, alley, road, or other public or private ground. Instructions and stipulations of the permit shall be adhered to. Exception: Recreational fires.			
Open flames and candles. An operational permit is required to use open flames or candles in connection with assembly areas, dining areas of restaurants or drinking establishments.			
Open flames and torches. An operational permit is required to remove paint with a torch, or to use a torch or open-flame device in a wildfire risk area.			
Organic coatings. An operational permit is required for any organic-coating manufacturing operation producing more than 1 gallon (4 L) of an organic coating in one day.			
Places of assembly. An operational permit is required to operate a place of assembly.			

Private fire hydrants. An operational permit is required for the removal from service, use or operation of private fire hydrants. Exception: An operational permit is not required for private industry with trained maintenance personnel, private fire brigade or fire departments to maintain, test and use private hydrants.			
Pyrotechnic special effects material. An operational permit is required for use and handling of pyrotechnic special effects material.			
Pyroxylin plastics. An operational permit is required for storage or handling of more than 25 pounds (11 kg) of cellulose nitrate (pyroxylin) plastics and for the assembly or manufacture of articles involving pyroxylin plastics.			
Refrigeration equipment. An operational permit is required to operate a mechanical refrigeration unit or system regulated by Chapter 6.			
Repair garages and service stations. An operational permit is required for operation of repair garages and automotive, marine and fleet service stations.			
Rooftop heliports. An operational permit is required for the operation of a rooftop heliport.			
Spraying or dipping. An operational permit is required to conduct a spraying or dipping operation utilizing flammable or combustible liquids or the application of combustible powders regulated by Chapter 24.			
Storage of scrap tires and tire byproducts. An operational permit is required to establish, conduct or maintain storage of scrap tires and tire byproducts that exceeds 2,500 cubic feet (71 m^3) of total volume of scrap tires and for indoor storage of tires and tire byproducts.			
Temporary membrane structures and tents. An operational permit is required to operate an air-supported temporary membrane structure or a tent. Exceptions: 1. Tents used exclusively for recreational camping purposes. 2. Tents and air-supported structures that cover an area of 900 square feet (84 m^2) or less, including all connecting areas or spaces with a common means of egress or entrance and with an occupant load of 50 or less persons.			
Tire-rebuilding plants. An operational permit is required for the operation and maintenance of a tire-rebuilding plant.			
Waste handling. An operational permit is required for the operation of wrecking yards, junk yards and waste material-handling facilities.			
Wood products. An operational permit is required to store chips, hogged material, lumber or plywood in excess of 200 cubic feet (6 m^3).			

D. 107.3 Application for permit. Application for a permit shall be made on forms prescribed by the fire official.

E. 107.4 Issuance of permits. Before a permit is issued, the fire official shall make such inspections or tests as are necessary to assure that the use and activities for which application is made comply with the provisions of this code.

F. 107.5 Conditions of permit. A permit shall constitute permission to store or handle materials or to conduct processes in accordance with the SFPC and shall not be construed as authority to omit or amend any of the provisions of this code. Permits shall remain in effect until revoked or for such period as specified on the permit. Permits are not transferable.

G. 107.6 Annual. The enforcing agency may issue annual permits for the manufacturing, storage, handling, use, or sales of explosives to any state regulated public utility.

H. 107.7 Approved plans. Plans approved by the fire official are approved with the intent that they comply in all respects to this code. Any omissions or errors on the plans do not relieve the applicant of complying with all applicable requirements of this code.

I. 107.8 Posting. Issued permits shall be kept on the premises designated therein at all times and shall be readily available for inspection by the fire official.

J. 107.9 Suspension of permit. A permit shall become invalid if the authorized activity is not commenced within six months after issuance of the permit or if the authorized activity is suspended or abandoned for a period of six months after the time of commencement.

K. 107.10 Local fees. In accordance with § 27-98 of the Code of Virginia, fees may be levied by the local governing body in order to defray the cost of enforcement and appeals under the SFPC. However, for the city of Chesapeake no fee charged for the inspection of any place of religious worship designated as Assembly Group A-3 shall exceed $50. For purposes of this section, "defray the cost" may include the fair and reasonable costs incurred for such enforcement during normal business hours but shall not include overtime costs, unless conducted outside of the normal working hours established by the locality. A schedule of such costs shall be adopted by the local governing body in a local ordinance. A locality shall not charge an overtime rate for inspections conducted during the normal business hours established by the locality. Nothing herein shall be construed to prohibit a private entity from conducting such inspections, provided the private entity has been approved to perform such inspections in accordance with the written policy of the fire official for the locality.

L. 107.11 State Fire Marshal's office permit fees for explosives, blasting agents, theatrical flame effects, and fireworks. Complete permit applications shall be submitted to and received by the State Fire Marshal's Office not less than 15 days prior to the planned use or event. A $500 expedited handling fee will be assessed on all permit applications submitted less than 15 days prior to the planned use or event. Inspection fees will be assessed at a rate of $60 per staff member per hour during normal business hours (Monday through Friday, 8:30 a.m. to 4:30 p.m.) and at a rate of $90 per hour at all other times (nights, weekends, holidays). State Fire Marshal's Office permit fees shall be as follows:

1. Storage of explosives and blasting agents, 12-month permit $250 first magazine, plus $150 per each additional magazine on the same site.

2. Use of explosives and blasting agents, nonfixed site, 6-month permit $250 per site, plus inspection fees.

3. Use of explosives and blasting agents, fixed site, 12-month permit $250 per site.

4. Sale of explosives and blasting agents, 12-month permit $250 per site.

5. Manufacture explosives (unrestricted), blasting agents, and fireworks, 12-month permit $250 per site.

6. Manufacture explosives (~~Restricted~~ restricted), 12-month permit $20 per site.

7. Fireworks display in or on state-owned property $300 plus inspection fees.

8. Pyrotechnics or proximate audience displays in or on state-owned property $300 plus inspection fees.

9. Flame effects in or on state-owned property $300 plus inspection fees.

10. Flame effects incidental to a permitted pyrotechnics display $150 (flame effects must be individual or group effects that are attended and manually controlled).

Exception: Permit fees shall not be required for the storage of explosives or blasting agents by state and local law enforcement and fire agencies.

M. 107.12 State annual compliance inspection fees. Fees for compliance inspections performed by the State Fire Marshal's office shall be as follows:

1. Nightclubs.

1.1. $350 for occupant load of 100 or less.

1.2. $450 for occupant load of 101 to 200.

1.3. $500 for occupant load of 201 to 300.

1.4. $500 plus $50 for each 100 occupants where occupant loads exceed 300.

2. Private college dormitories with or without assembly areas. If containing assembly areas, such assembly areas are not included in the computation of square footage.

2.1. $150 for 3500 square feet or less.

2.2. $200 for greater than 3500 square feet up to 7000 square feet.

2.3. $250 for greater than 7000 square feet up to 10,000 square feet.

2.4. $250 plus $50 for each additional 3000 square feet where square footage exceeds 10,000.

3. Assembly areas that are part of private college dormitories.

3.1. $50 for 10,000 square feet or less provided the assembly area is within or attached to a dormitory building.

3.2. $100 for greater than 10,000 square feet up to 25,000 square feet provided the assembly area is within or attached to a dormitory building, such as gymnasiums, auditoriums or cafeterias.

3.3. $100 for up to 25,000 square feet provided the assembly area is in a separate or separate buildings such as gymnasiums, auditoriums or cafeterias.

3.4. $150 for greater than 25,000 square feet for assembly areas within or attached to a dormitory building or in a separate or separate buildings such as gymnasiums, auditoriums or cafeterias.

4. Hospitals.

4.1. $300 for 1 to 50 beds.

4.2. $400 for 51 to 100 beds.

4.3. $500 for 101 to 150 beds.

4.4. $600 for 151 to 200 beds.

4.5. $600 plus $100 for each additional 100 beds where the number of beds exceeds 200.

5. Facilities licensed by the Virginia Department of Social Services based on licensed capacity as follows:

5.1. $50 for 1 to 8.

5.2. $75 for 9 to 20.

5.3. $100 for 21 to 50.

5.4. $200 for 51 to 100.

5.5. $300 for 101 to 150.

5.6. $400 for 151 to 200.

5.7. $500 for 201 or more.

Exception: Annual compliance inspection fees for any building or groups of buildings on the same site may not exceed $2500.

6. Registered complaints.

6.1. No charge for first visit (initial complaint), and if violations are found.

6.2. $51 per hour for each State Fire Marshal's office staff for all subsequent visits.

7. Bonfires (small and large) on state-owned property.

7.1. For a small bonfire pile with a total fuel area more than 3 feet in diameter and more than 2 feet in height, but not more than 9 feet in diameter and not more than 6 feet in height, the permit fee is $50. If an application for a bonfire permit is received by the State Fire Marshal's office less than 15 days prior to the planned event, the permit fee shall be $100. If an application for a bonfire permit is received by the State Fire Marshal's office less than seven days prior to the planned event, the permit fee shall be $150.

7.2. For a large bonfire pile with a total fuel area more than 9 feet in diameter and more than 6 feet in height, the permit fee is $150. If an application for a bonfire permit is received by the State Fire Marshal's office less than 15 days prior to the planned event, the permit fee shall be $300. If an application for a bonfire permit is received by the State Fire Marshal's office less than seven days prior to the planned event, the permit fee shall be $450.

N. 107.13 Fee schedule. The local governing body may establish a fee schedule. The schedule shall incorporate unit rates, which may be based on square footage, cubic footage, estimated cost of inspection or other appropriate criteria.

O. 107.14 Payment of fees. A permit shall not be issued until the designated fees have been paid.

Exception: The fire official may authorize delayed payment of fees.

P. 107.14.1 State Fire Marshal's office certification and permit fees not refundable. No refund of any part of the amount paid as a permit or certification fee will be made where the applicant, permit or certification holder, for any reason, discontinued an activity, changed conditions, or changed circumstances for which the permit or certification was issued. However, the permit or certification fee submitted with an application will be refunded if the permit or certification is canceled, revoked, or suspended subsequent to having been issued through administrative error, or if a permit being applied for is to be obtained from a locally appointed fire official.

13VAC5-51-85. Section 108 Operational Permits.

A. 108.1 General. Operational permits shall be in accordance with Section 108. The fire official may require notification prior to (i) activities involving the handling, storage or use of substances, materials or devices regulated by the SFPC; (ii) conducting processes which produce conditions hazardous to life or property; or (iii) establishing a place of assembly.

B. 108.1.1 Permits required. Operational permits may be required by the fire official in accordance with Table 107.2. The fire official shall require operational permits for the manufacturing, storage, handling, use and sale of explosives. Issued permits shall be kept on the premises designated therein at all times and shall be readily available for inspection by the fire official.

Exceptions:

1. Operational permits will not be required by the State Fire Marshal except for the manufacturing, storage, handling, use and sale of explosives in localities not enforcing the SFPC.

2. Operational permits will not be required for the manufacturing, storage, handling or use of explosives or blasting agents by the Virginia Department of State Police provided notification to the fire official is made annually by the Chief Arson Investigator listing all storage locations.

C. 108.1.2 Duration of operational permits.

An operational permit allows the applicant to conduct an operation or a business for which a permit is required by Section 108.1.1 for either:

1. A prescribed period.

2. Until renewed, suspended, or revoked.

D. 108.1.3 Operational permits for the same location. When more than one operational permit is required for the same location, the fire official is authorized to consolidate such permits into a single permit provided that each provision is listed in the permit.

E. 108.2 Application. Application for an operational permit required by this code shall be made to the fire official in such form and detail as prescribed by the fire official. Applications for permits shall be accompanied by such plans as prescribed by the fire official.

F. 108.2.1 Refusal to issue permit. If the application for an operational permit describes a use that does not conform to the requirements of this code and other pertinent laws and ordinances, the fire official shall not issue a permit, but shall return the application to the applicant with the refusal to issue such permit. Such refusal shall, when requested, be in writing and shall contain the reasons for refusal.

G. 108.2.2 Inspection authorized. Before a new operational permit is approved, the fire official is authorized to inspect the receptacles, vehicles, buildings, devices, premises, storage spaces or areas to be used to determine compliance with this code or any operational constraints required.

H. 108.2.3 Time limitation of application. An application for an operational permit for any proposed work or operation shall be deemed to have been abandoned six months after the date of filing, unless such application has been diligently prosecuted or a permit shall have been issued; except that the fire official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each if there is reasonable cause.

I. 108.2.4 Action on application. The fire official shall examine or cause to be examined applications for operational permits and amendments thereto within a reasonable time after filing. If the application does not conform to the requirements of pertinent laws, the fire official shall reject such application in writing, stating the reasons. If the fire official is satisfied that the proposed work or operation conforms to the requirements of this code and laws and ordinances applicable thereto, the fire official shall issue a permit as soon as practicable.

J. 108.3 Conditions of a permit. An operational permit shall constitute permission to maintain, store or handle materials; or to conduct processes in accordance with the SFPC, and shall not be construed as authority to omit or amend any of the provisions of this code.

Note: The building official issues permits to install equipment utilized in connection with such activities or to install or modify any fire protection system or equipment or any other construction, equipment installation or modification.

K. 108.3.1 Expiration. An operational permit shall remain in effect until reissued, renewed, or revoked for such a period of time as specified in the permit. Permits are not transferable and any change in occupancy, operation, tenancy or ownership shall require that a new permit be issued.

L. 108.3.2 Extensions. A permittee holding an unexpired permit shall have the right to apply for an extension of the time within which the permittee will commence work under that permit when work is unable to be commenced within the time required by this section for good and satisfactory reasons. The fire official is authorized to grant, in writing, one or more extensions of the time period of a permit for periods of not more than 90 days each. Such extensions shall be requested by the permit holder in writing and justifiable cause demonstrated.

M. 108.3.3 Annual. The enforcing agency may issue annual operational permits for the manufacturing, storage, handling, use, or sales of explosives to any state regulated public utility.

N. 108.3.4 Suspension of permit. An operational permit shall become invalid if the authorized activity is not commenced within six months after issuance of the permit, or if the authorized activity is suspended or abandoned for a period of six months after the time of commencement.

O. 108.3.5 Posting. Issued operational permits shall be kept on the premises designated therein at all times and shall be readily available for inspection by the fire official.

P. 108.3.6 Compliance with code. The issuance or granting of an operational permit shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of this code or of any other ordinance of the jurisdiction. Operational permits presuming to give authority to violate or cancel the provisions of this code or other ordinances of the jurisdiction shall not be valid. The issuance of a permit based on other data shall not prevent the fire official from requiring the correction of errors in the provided documents and other data. Any addition to or alteration of approved provided documents shall be approved in advance by the fire official, as evidenced by the issuance of a new or amended permit.

Q. 108.3.7 Information on the permit. The fire official shall issue all operational permits required by this code on an approved form furnished for that purpose. The operational permit shall contain a general description of the operation or occupancy and its location and any other information required by the fire official. Issued permits shall bear the original or electronic signature of the fire official or other designee approved by the fire official.

R. 108.4 Revocation. The fire official is authorized to revoke an operational permit issued under the provisions of this code when it is found by inspection or otherwise that there has been a false statement or misrepresentation as to the material facts in the application or documents on which the permit or approval was based including, but not limited to, any one of the following:

1. The permit is used for a location or establishment other than that for which it was issued.

2. The permit is used for a condition or activity other than that listed in the permit.

3. Conditions and limitations set forth in the permit have been violated.

4. Inclusion of any false statements or misrepresentations as to a material fact in the application for permit or plans submitted or a condition of the permit.

5. The permit is used by a different person or firm than the person or firm for which it was issued.

6. The permittee failed, refused or neglected to comply with orders or notices duly served in accordance with the provisions of this code within the time provided therein.

7. The permit was issued in error or in violation of an ordinance, a regulation, or this code.

13VAC5-51-91. Section 109 Inspection.

A. 109.1 Inspection. The fire official may inspect all structures and premises for the purposes of ascertaining and causing to be corrected any conditions liable to cause fire, contribute to the spread of fire, interfere with firefighting operations, endanger life, or any violations of the provisions or intent of the SFPC.

Exception: Single family dwellings and dwelling units in two family and multiple family dwellings and farm structures shall be exempt from routine inspections. This exemption shall not preclude the fire official from conducting routine inspections in Group R-3 or Group R-5 occupancies operating as a commercial bed and breakfast as outlined in Section 310.3 of the USBC or inspecting under § 27-98.2 of the Code of Virginia for hazardous conditions relating to explosives, flammable and combustible conditions, and hazardous materials.

B. 109.1.1 Right to entry. The fire official may enter any structure or premises at any reasonable time to inspect subject to constitutional restrictions on unreasonable searches and seizures. If entry is refused or not obtained, the fire official may pursue recourse as provided by law.

Note: Specific authorization and procedures for inspections and issuing warrants are set out in §§ 27-98.1 through 27-98.5 of the Code of Virginia and shall be taken into consideration.

C. 109.1.2 Credentials. The fire official and technical assistants shall carry proper credentials of office when inspecting in the performance of their duties under the SFPC.

D. 109.2 Coordinated inspections. The fire official shall coordinate inspections and administrative orders with any other state and local agencies having related inspection authority, and shall coordinate those inspections required by the USBC for new construction when involving provisions of the amended IFC, so that the owners and occupants will not be subjected to numerous inspections or conflicting orders.

Note: The USBC requires the building official to coordinate such inspections with the fire official.

E. 109.3 Other inspections. In accordance with § 9.1-207 of the Code of Virginia, the State Fire Marshal, upon presenting proper credentials, shall make annual inspections for hazards incident to fire in all (i) residential care facilities operated by any state agency, (ii) assisted living facilities licensed or subject to licensure pursuant to Chapter 18 (§ 63.2-1800 et seq.) of Title 63.2 of the Code of Virginia which are not inspected by a local fire marshal, (iii) student-residence facilities owned or operated by the public institutions of higher education in the Commonwealth, and (iv) public schools in the Commonwealth which are not inspected by a local fire marshal. In the event that any such facility or residence is found to be nonconforming to the SFPC, the State Fire Marshal or local fire marshal may petition any court of competent jurisdiction for the issuance of an injunction.

13VAC5-51-101. Section 110 Unsafe Conditions.

A. 110.1 General. The fire official shall order the following dangerous or hazardous conditions or materials to be removed or remedied in accordance with the SFPC:

1. Dangerous conditions which are liable to cause or contribute to the spread of fire in or on said premises, building or structure, or to endanger the occupants thereof.

2. Conditions which would interfere with the efficiency and use of any fire protection equipment.

3. Obstructions to or on fire escapes, stairs, passageways, doors or windows, which are liable to interfere with the egress of occupants or the operation of the fire department in case of fire.

4. Accumulations of dust or waste material in air conditioning or ventilating systems or grease in kitchen or other exhaust ducts.

5. Accumulations of grease on kitchen cooking equipment, or oil, grease or dirt upon, under or around any mechanical equipment.

6. Accumulations of rubbish, waste, paper, boxes, shavings, or other combustible materials, or excessive storage of any combustible material.

7. Hazardous conditions arising from defective or improperly used or installed electrical wiring, equipment or appliances.

8. Hazardous conditions arising from defective or improperly used or installed equipment for handling or using combustible, explosive or otherwise hazardous materials.

9. Dangerous or unlawful amounts of combustible, explosive or otherwise hazardous materials.

10. All equipment, materials, processes or operations which are in violation of the provisions and intent of this code.

B. 110.2 Maintenance. The owner shall be responsible for the safe and proper maintenance of any structure, premises or lot. In all structures, the fire protection equipment, means of egress, alarms, devices and safeguards shall be maintained in a safe and proper operating condition as required by the SFPC and applicable referenced standards.

C. 110.3 Occupant responsibility. If a building occupant creates conditions in violation of this code, by virtue of storage, handling and use of substances, materials, devices and appliances, such occupant shall be held responsible for the abatement of said hazardous conditions.

D. 110.4 Unsafe structures. All structures that are or shall hereafter become unsafe or deficient in adequate exit facilities or which constitute a fire hazard, or are otherwise dangerous to human life or the public welfare, or by reason of illegal or improper use, occupancy or maintenance or which have sustained structural damage by reason of fire, explosion, or natural disaster shall be deemed unsafe structures. A vacant structure, or portion of a structure, unguarded or open at door or window shall be deemed a fire hazard and unsafe within the meaning of this code. Unsafe structures shall be reported to the building official or building maintenance official who shall take appropriate action under the provisions of the USBC to secure abatement. Subsequently, the fire official may request the legal counsel of the local governing body to institute the appropriate proceedings for an injunction against the continued use and occupancy of the structure until such time as conditions have been remedied.

E. 110.5 Evacuation. When, in the fire official's opinion, there is actual and potential danger to the occupants or those in the proximity of any structure or premises because of unsafe structural conditions, or inadequacy of any means of egress, the presence of explosives, explosive fumes or vapors, or the presence of toxic fumes, gases or materials, the fire official may order the immediate evacuation of the structure or premises. All notified occupants shall immediately leave the structure or premises and no person shall enter until authorized by the fire official.

F. 110.6 Unlawful continuance. Any person who refuses to leave, interferes with the evacuation of other occupants or continues any operation after having been given an evacuation order shall be in violation of this code.

Exception: Any person performing work directed by the fire official to be performed to remove an alleged violation or unsafe condition.

13VAC5-51-111. Section 111 Violations.

A. 111.1 Notice. When the fire official discovers an alleged violation of a provision of the SFPC or other codes or ordinances under the fire official's jurisdiction, the fire official shall prepare a written notice citing the section allegedly violated, describing the condition deemed unsafe and specifying time limitations for the required abatements to be made to render the structure or premises safe and secure.

B. 111.1.1 Right of appeal. Notices of violation issued under Section 111.1 shall indicate the right of appeal by referencing the appeals section of this code.

Exceptions:

1. Summons issued in lieu of a notice of violation in accordance with Section 111.5 of this code.

2. Documents reflecting uncorrected violations in subsequent inspections to verify compliance.

C. 111.2 Service. The written notice of violation of this code shall be served upon the owner, a duly authorized agent or upon the occupant or other person responsible for the conditions under violation. Such notice shall be served either by delivering a copy of same to such persons by mail to the last known post office address, by delivering in person or by delivering it to and leaving it in the possession of any person in charge of the premises, or, in the case such person is not found upon the premises, by affixing a copy thereof in a conspicuous place at the entrance door or avenue of access. Such procedure shall be deemed the equivalent of personal notice.

D. 111.3 Failure to correct violations. If the notice of violation is not complied with within the time specified, the fire official shall request the legal counsel of the local governing body to institute the appropriate legal proceedings to restrain, correct, or abate such alleged violation.

E. 111.4 Penalty. Penalties upon conviction of violating the SFPC shall be as set out in § 27-100 of the Code of Virginia.

F. 111.5 Summons. When authorized and certified in accordance with § 27-34.2 of the Code of Virginia, the fire official may, subject to any limitations imposed by the local governing body, issue a summons in lieu of a notice of violation. Fire officials not certified in accordance with § 27-34.2 of the Code of Virginia may request the law-enforcement agency of the local governing body to make arrests for any alleged violations of the SFPC or orders affecting the immediate public safety.

13VAC5-51-121. Section 112 Appeals.

A. 112.1 Local Board of Fire Prevention Code Appeals (LBFPCA). Each local governing body which enforces the SFPC shall have a LBFPCA to hear appeals as authorized herein or it shall enter into an agreement with the governing body of another county or municipality, with some other agency, or with a state agency approved by the DHCD to act on appeals. An appeal case decided by some other approved

agency shall constitute an appeal in accordance with this section and shall be final unless appealed to the State Review Board.

B. 112.2 Membership. The LBFPCA shall consist of at least five members appointed by the local governing body and having terms of office established by written policy. Alternate members may be appointed to serve in the absence of any regular members and, as such, shall have the full power and authority of the regular members. Regular and alternate members may be reappointed. Written records of current membership, including a record of the current chairman and secretary shall be maintained in the office of the local governing body. In order to provide continuity, the terms of the members may be of different length so that less than half will expire in any one-year period. The LBFPCA shall meet as necessary to assure a duly constituted board, appoint officers as necessary and receive such training on the code as may be appropriate or necessary from staff of the locality.

C. 112.2.1 Chairman. The LBFPCA shall annually select one of its regular members to serve as chairman. In case of the absence of the chairman at a hearing, the members present shall select an acting chairman.

D. 112.2.2 Secretary. The local governing body shall appoint a secretary to the LBFPCA to maintain a detailed record of all proceedings.

E. 112.3 Qualifications of members LBFPCA. members shall be selected by the local governing body on the basis of their ability to render fair and competent decisions regarding application of the SFPC and shall, to the extent possible, represent different occupational or professional fields relating to building construction or fire prevention. At least one member should be an experienced builder and one member a licensed professional engineer or architect. Employees or officials of the local governing body shall not serve as members of the LBFPCA.

F. 112.4 Disqualification of member. A member shall not hear an appeal in which that member has conflict of interest in accordance with the State and Local Government Conflict of Interests Act, Chapter 31 (§ 2.2-3100 et seq.) of Title 2.2 of the Code of Virginia.

G. 112.5 Application for appeal. The owner of a structure, the owner's agent or any other person involved in the maintenance of the structure, or activity, may appeal a decision of the fire official concerning the application of the SFPC or the fire official's refusal to grant modification under Section 106.5 to the provisions of the SFPC. The appeal shall first lie to the LBFPCA and then to the State Review Board except that appeals concerning the application of the SFPC or refusal to grant modifications by the State Fire Marshal shall be made directly to the State Review Board. The appeal shall be submitted to the LBFPCA within 14 calendar days of the application of the SFPC. The application shall contain the name and address of the owner of the structure and the person appealing if not the owner. A copy of the written decision of the fire official shall be submitted along with the application for appeal and maintained as part of the record. The application shall be stamped or otherwise marked by the LBFPCA to indicate the date received. Failure to submit an application for appeal within the time limit established by this section shall constitute acceptance of the fire official's decision.

Note: In accordance with § 27-98 of the Code of Virginia, any local fire code may provide for an appeal to a local board of appeals. If no local board of appeals exists, the State Review Board shall hear appeals of any local fire code violation.

H. 112.6 Notice of meeting. The LBFPCA shall meet within 30 calendar days after the date of receipt of the application for appeal. Notice indicating the time and place of the hearing shall be sent to the parties in writing to the addresses listed on the application at least 14 calendar days prior to the date of the hearing. Less notice may be given if agreed upon by the applicant.

I. 112.7 Hearing procedures. All hearings before the LBFPCA shall be open to the public. The appellant, the appellant's representative, the local governing body's representative and any person whose interests are affected shall be given an opportunity to be heard. The chairman shall have the power and duty to direct the hearing, rule upon the acceptance of evidence and oversee the record of all proceedings.

J. 112.7.1 Postponement. When a quorum of the LBFPCA is not present to hear an appeal, either the appellant or the appellant's representative shall have the right to request a postponement of the hearing. The LBFPCA shall reschedule the appeal within 30 calendar days of the postponement.

K. 112.8 Decision. The LBFPCA shall have the power to uphold, reverse or modify the decision of the fire official by a concurring vote of a majority of those present. Decisions of the LBFPCA shall be final if no appeal is made therefrom and the appellant and the fire official shall act accordingly.

L. 112.8.1 Resolution. The LBFPCA's decision shall be explained in writing, signed by the chairman, and retained as part of the record by the LBFPCA. The following wording shall be part of the written decision: "Any person who was a party to the appeal may appeal to the State Building Code Technical Review Board (State Review Board) by submitting an application to the State Review Board within 21 calendar days upon receipt by certified mail of the written decision. Application forms are available from the Office of the State Review Board, 600 East Main Street, Richmond, Virginia 23219, (804) 371-7150." Copies of the written decision shall be furnished to all parties.

M. 112.9 Appeal to the State Review Board. After final determination by the LBFPCA, any person who was a party to the local appeal may appeal to the State Review Board. Application shall be made to the State Review Board within 21 calendar days of receipt of the decision to be appealed. Application for appeal to the State Review Board arising from the SFMO's enforcement of the code or from any local fire code violation if no local board of appeals exists shall be made to the State Review Board within 14 calendar days of receipt of the decision to be appealed and shall be accompanied by copies of the inspection reports and other relevant information. Failure to submit an application for appeal within the time limit established by this section shall constitute an acceptance of the LBFPCA's resolution or fire official's decision.

N. 112.9.1 Information to be submitted. Copies of the fire official's decision and the written decision of the LBFPCA shall be submitted with the application for appeal. Upon request by the office of the State Review Board, the LBFPCA shall submit a copy of all inspection reports and all pertinent information from the record of the LBFPCA.

O. 112.9.2 Decision of State Review Board. Procedures of the State Review Board are in accordance with Article 2 (§ 36-108 et seq.) of Chapter 6 of Title 36 of the Code of Virginia. Decisions of the State Review Board shall be final if no appeal is made therefrom and the appellant and the code official shall act accordingly.

13VAC5-51-129. Application of Part II.

Part II. Technical Amendments

The changes in this part shall be made to the model codes and standards as indicated in this chapter for use as part of the SFPC.

13VAC5-51-130. ~~Ifc~~ IFC Section 202 Definitions.

A. Add the following definitions to read:

Applicable building code. The local or statewide building code and referenced standards in effect at the time the building or portion thereof was constructed, altered, renovated, or underwent a change of occupancy. See Section 103 for the application of the code.

Background clearance card or BCC. An identification card issued to an individual who is not a certified blaster or pyrotechnician and is responsible management or an employee of a company, corporation, firm, or other entity, solely for the purpose of submitting an application to the fire official for a permit to manufacture, use, handle, store, or sell explosive materials; or conduct a fireworks display. A person to whom a BCC has been issued can fulfill the role of a designated individual on an application for a permit to manufacture, use, handle, store, or sell explosive materials; or on an application for a permit to design, setup, and conduct a fireworks display.

Blaster, restricted. Any person engaging in the use of explosives or blasting agents utilizing five pounds (2.25 kg) or less per blasting operation and using instantaneous detonators. A certified restricted blaster can fulfill the role of a designated individual on an application for permit to manufacture, use, handle, store, or sell explosive materials.

Blaster, unrestricted. Any person engaging in the use of explosives or blasting agents without the limit to the amount of explosives or blasting agents or type of detonator. A certified unrestricted blaster can fulfill the role of a designated individual on an application for permit to manufacture, use, handle, store, or sell explosive materials.

~~Chemical fume hood. A ventilated enclosure designed to contain and exhaust fumes, gases, vapors, mists, and particulate matter generated within the hood.~~

Design. For the purposes of a fireworks display, either inside a building or structure or outdoors, it shall mean the pyrotechnician who will be in attendance and makes the final artistic determination for the placement of fireworks and ground display pieces suitable for the display site.

Designated individual. A person who is in possession of a BCC issued by the SFMO, certified by the SFMO as a pyrotechnician, or a restricted or unrestricted blaster, any of whom are responsible for ensuring compliance with state law and regulations relating to blasting agents and explosives and applying for explosives or firework permits; is at least 21 years of age; and demonstrates the capability to effectively communicate safety messages verbally and in writing in the English language.

DHCD. The Virginia Department of Housing and Community Development.

Explosive manufacturing. Mixing, blending, extruding, assembling articles, disassembling, chemical synthesis, and other functions involved in making a product or device that is intended to explode.

~~Laboratory suite. A fire-rated enclosed laboratory area that will provide one or more laboratory spaces, within a Group B educational occupancy, that are permitted to include ancillary uses such as offices, bathrooms, and corridors that are contiguous with the laboratory area and are constructed in accordance with Section 430.3 of the USBC, Part I, Construction.~~

LBFPCA. Local Board of Fire Prevention Code Appeals.

Local government, local governing body or locality. The governing body of any county, city, or town, other political subdivision and state agency in this Commonwealth charged with the enforcement of the SFPC under state law.

Maintained. To keep unimpaired in an appropriate condition, operation, and continuance as installed in accordance with the applicable building code, or as previously approved, and in accordance with the applicable operational and maintenance provisions of this code.

~~Mobile food preparation vehicles. Vehicles and enclosed trailers able to be occupied by persons during cooking operations that contain cooking equipment that utilize open flames or produce smoke or grease laden vapors for the purpose of preparing and serving food to the public. Vehicles used for private recreation shall not be considered mobile food preparation vehicles.~~

Night club. Any building or portion thereof in which the main use is a place of public assembly that provides exhibition, performance or other forms or entertainment; serves alcoholic beverages; and provides music and space for dancing.

Permissible fireworks. Any sparklers, fountains, Pharaoh's serpents, caps for pistols, or pinwheels commonly known as whirligigs or spinning jennies.

Pyrotechnician (firework operator). Any person supervising or engaged in the design, setup, or conducting of any fireworks display, either inside a building or outdoors. A certified pyrotechnician can fulfill the role of a designated individual on an application for a permit for a fireworks display.

Pyrotechnician, aerial. A person supervising or engaged in the design, setup, or conducting of an outdoor aerial fireworks display performed in accordance with the regulations as set forth in this code and NFPA 1123, a referenced standard for fireworks displays.

Pyrotechnician, proximate. A person supervising or engaged in the design, setup, or conducting of a fireworks display, either inside a building or outdoors, performed in accordance with the regulations as set forth in this code and NFPA 1126, a referenced standard for the use of pyrotechnics before a proximate audience.

Reactive target. A target designator intended to be shot at with a firearm and is purchased or obtained through a commercial or retail outlet, is comprised of two or more components in presized quantities of 1 pound (0.453592 kg) or less that are advertised and sold together with instructions on how to combine the components or create a target that explodes upon impact. Also known as exploding targets.

Responsible management. A person who is any of the following:

1. The sole proprietor of a sole proprietorship.

2. The partners of a general partnership.

3. The managing partners of a limited partnership.

4. The officers or directors of a corporation.

5. The managers or members of a limited liability company.

6. The managers, officers or directors of an association.

7. Individuals in other business entities recognized under the laws of the Commonwealth as having a fiduciary responsibility to the firm.

Restricted explosives manufacturing. When an individual engaged in the incidental manufacture or production of explosive materials composed of commercially available components that are packaged or marketed for the purpose of producing explosive materials, including reactive targets, at a location not within the definition of unrestricted explosives manufacture; is for immediate use at the site of incidental explosives manufacturing or production without residual storage; and does not involve or include the bulk mixing and delivery vehicles that are within the scope of NFPA 495.

Sole proprietor. A person or individual, not a corporation, who is trading under his own name or under an assumed or fictitious name pursuant to the provisions of §§ 59.1-69 through 59.1-76 of the Code of Virginia.

~~Special expert. An individual who has demonstrated qualifications in a specific area, outside the practice of architecture or engineering, through education, training, and experience.~~

State Fire Marshal. The State Fire Marshal as provided for by § 9.1-206 of the Code of Virginia.

State Regulated Care Facility (SRCF). A building with an occupancy in Group R-2, R-3, R-4, or R-5 occupied by persons in the care of others where program oversight is provided by the Virginia Department of Social Services, the Virginia Department of Behavioral Health and Developmental Services, the Virginia Department of Education or the Virginia Department of Juvenile Justice.

State Review Board. The Virginia State Building Code Technical Review Board as established under § 36-108 of the Code of Virginia.

Teaching and research laboratory. A building or portion of a building where hazardous materials are stored, used, and handled for the purpose of testing, analysis, teaching, research, or developmental activities on a nonproduction basis rather than in a manufacturing process.

Technical Assistant. Any person employed by or under an extended contract to a local enforcing agency for enforcing the SFPC. For the purposes of this definition, an extended contract shall be a contract with an aggregate term of 18 months or longer.

Unrestricted explosives manufacturing. When any company, person, or group of persons engaged in the business of manufacturing or producing explosive materials at a fixed site or facility for the purpose of commercial sale, use, or distribution of explosives.

USBC. The Virginia Uniform Statewide Building Code (13VAC5-63).

B. ~~Add the following definition under the term "Occupancy Classification - Residential Group R" to read:~~

~~Residential Group R-5. Detached one and two family dwellings and multiple single family dwellings (townhouses) not more than three stories high with separate means of egress and their accessory structures. The terms "R-5" and "one and two family dwelling" where used in this code shall be interchangeable.~~

~~C.~~ Change the following definitions to read:

Approved. Acceptable to the authority having jurisdiction.

Automatic fire-extinguishing system. An approved system of devices and equipment that automatically detects a fire and discharges an approved fire-extinguishing agent onto or in the area of a fire. Such system shall include an automatic sprinkler system, unless otherwise expressly stated.

Change of occupancy. Either of the following shall be considered a change of occupancy where the current VCC requires a greater degree of accessibility, structural strength, fire protection, means of egress, ventilation, or sanitation than that which is existing in the current building or structure:

1. Any change in the occupancy classification of a building or structure.

2. Any change in the purpose of, or change in the level of activity within, a building or structure.

Note: The use and occupancy classification of a building or structure shall be determined in accordance with Chapter 3 of the VCC.

Fire code official. The officer or other designated authority charged with administration and enforcement of this code, or a duly authorized representative. For the purpose of this code, the terms "code official" and "fire official" shall have the same meaning as the term "fire code official" and, in addition, such official shall have the powers outlined in § 27-98.1 of the Code of Virginia.

Fireworks. Any firecracker, torpedo, skyrocket, or other substance or object, of whatever form or construction, that contains any explosive or inflammable compound or substance and is intended, or commonly known, as fireworks and that explodes, rises into the air or travels laterally, or fires projectiles into the air. Fireworks shall not include automobile flares, paper caps containing not more than the average of 0.25 grain (16 mg) of explosive content per cap or toy pistols, toy canes, toy guns, or other devices utilizing such caps and items commonly known as party poppers, pop rocks, and snap-n-pops. Fireworks may be further delineated and referred to as:

Fireworks, 1.4G (formerly known as Class C, Common Fireworks). Small fireworks devices containing restricted amounts of pyrotechnic composition designed primarily to produce visible or audible effects by combustion. Such 1.4G fireworks that comply with the construction, chemical composition, and labeling regulations of the U.S. Department of Transportation DOTn for Fireworks, UN0336, and the U.S. Consumer Product Safety Commission as set forth in CPSC 16 CFR Parts 1500 and 1507, are not explosive materials for the purpose of this code.

Fireworks, 1.3G (formerly Class B, Special Fireworks). Large fireworks devices, which are explosive materials, intended for the use in fireworks displays and designed to produce audible or visible effects by combustion, deflagration, or detonation. Such 1.3G fireworks include, but are not limited to, firecrackers containing more than 130 milligrams (2 grains) of explosive composition, aerial shells containing more than 40 grams of pyrotechnic composition, and other display pieces that exceed the limits for classification as 1.4G fireworks. Such 1.3G fireworks are also described as Fireworks, UN0335 by the DOTn.

Laboratory suite. A fire-rated enclosed laboratory area that will provide one or more laboratory spaces, within a Group B educational occupancy, that are permitted to include ancillary uses such as offices, bathrooms, and corridors that are contiguous with the laboratory area and are constructed in accordance with Section 430.3 of the USBC, Part I, Construction.

Mobile food preparation vehicles. Vehicles and enclosed trailers able to be occupied by persons during cooking operations that contain cooking equipment that utilize open flames or produce smoke or grease laden vapors for the purpose of preparing and serving food to the public. Vehicles used for private recreation shall not be considered mobile food preparation vehicles.

Occupancy classification. For the purposes of this code, occupancies are defined in accordance with the applicable building code.

Smokeless propellants. Solid propellants, commonly referred to as smokeless powders or any propellant classified by DOTn as a smokeless propellant in accordance with NA3178, Smokeless Powder for Small Arms, used in small arms ammunition, firearms, cannons, rockets, propellant-actuated devices, and similar articles.

13VAC5-51-131. ~~Ifc~~ IFC Chapter 3 General Requirements.

A. The following changes shall be made to Section 301, General:

1. Change Section 301.2 to read:

301.2 Permits. Permits shall be required as set forth in Section 107.2 for the activities or uses regulated by Sections 306, 307, 308, and 315.

2. Add Section 301.3 to read:

301.3 Occupancy. The occupancy of a structure shall be continued as originally permitted under and in full compliance with the codes in force at the time of construction or alteration. The occupancy of a structure shall not change to another occupancy that will subject the structure to any special provisions of this code or the applicable building code without the approval of the building official. Where a certificate of occupancy is not available for a building, the owner or owner's agent may request that one be issued by the building official and retained on site for reference.

B. The following changes shall be made to Section 302, Definitions:

Change Section 302.1 to read:

302.1 Definitions. The following terms are defined in Chapter 2:

Bonfire.

Explosive manufacturing.

Hi-boy.

High-voltage transmission line.

Mobile food preparation vehicles.

Open burning.

Portable outdoor fireplace.

Powered industrial truck.

Reactive targets.

Recreational fire.

Restricted explosives manufacturing.

Sky lantern.

Unrestricted explosives manufacturing.

C. The following changes shall be made to Section 304, Combustible Waste Material:

1. Change Section 304.1.2 to read:

304.1.2 Vegetation. Weeds, grass, vines, or other growth that is capable of being ignited and endangering property shall be cut down and removed by the owner or occupant of the premises.

2. Change Section 304.1.3 to read:

~~(N)~~304.1.3 Space underneath seats. Spaces underneath grandstand and bleacher seats shall be kept free from combustible and flammable materials unless approved by the applicable building code.

3. Change Section 304.3.2 to read:

304.3.2 Capacity exceeding 5.88 cubic feet. Containers with a capacity exceeding 5.88 cubic feet (44 gallons) (0.17 m^3) shall be provided with lids. Containers and lids shall be constructed of noncombustible materials or approved combustible materials.

4. Change Section 304.3.3 to read:

304.3.3 Capacity exceeding 1.5 cubic yards. Dumpsters and containers with an individual capacity of 1.5 cubic yards (40.5 cubic feet (1.15 m^3)) or more shall not be stored in buildings or placed within 5 feet (1524 mm) of combustible walls, openings or combustible roof eave lines.

Exceptions:

1. Dumpsters or containers in areas protected by an approved automatic sprinkler system installed throughout in accordance with the applicable ~~building code~~ NFPA 13 standard.

2. Storage in a structure shall not be prohibited where the structure is of Type I or IIA construction, located not less than 10 feet (3048 mm) from other buildings, and used exclusively for dumpster or container storage.

5. Change Section 304.3.4 to read:

304.3.4 Capacity of 1.0 cubic yard or more. Dumpsters with an individual capacity of 1.0 cubic yard 200 gallons (0.76 m^3) or more shall not be stored in buildings or placed within 5 feet (1524 mm) of combustible walls, openings or combustible roof eave lines unless the dumpsters are constructed of noncombustible materials or of combustible materials with a peak rate of heat release not exceeding 300 kW/m^2 where tested in accordance with ASTM E 1354 at an incident heat flux of 50 kW/m^2 in the horizontal orientation.

Exceptions:

1. Dumpsters in areas protected by an approved automatic sprinkler system installed throughout in accordance with the applicable ~~building code~~ NFPA 13 standard.

2. Storage in a structure shall not be prohibited where the structure is of Type I or IIA construction, located not less than 10 feet (3048 mm) from other buildings, and used exclusively for dumpster or container storage.

D. The following change shall be made to Section 306, Motion Picture Projection Rooms and Film:

Change Section 306.1 to read:

306.1 Motion picture projection rooms. Electric arc, xenon, or other light source projection equipment that develops hazardous gases, dust, or radiation and the projection of ribbon-type cellulose nitrate film, regardless of the light source used in projection, shall be operated within a motion picture projection room complying with the applicable building code.

E. The following changes shall be made to Section 307, Open Burning, Recreational Fires and Portable Outdoor Fireplaces:

1. Add an exception to Section 307.1 to read:

Exception: Approved outdoor live fire training using equipment or appliances accessible or available to the general public, and that complies with Section 307.4.

2. Change Section 307.2 to read:

307.2 Permit required. A permit shall be obtained from the fire code official in accordance with Section 107.2 prior to kindling a fire for recognized silvicultural or range or wildlife management practices, prevention or control of disease or pests, or a bonfire. Application for such approval shall only be presented by and permits issued to the owner of the land upon which the fire is to be kindled.

F. The following changes shall be made to Section 308, Open Flames:

1. Change Section 308.2 to read:

308.2 Permits required. Permits shall be obtained from the fire code official in accordance with Section 107.2 prior to engaging in the following activities involving open flame, fire, and burning:

1. Use of a torch or flame-producing device to remove paint from a structure.

2. Use of open flame, fire, or burning in connection with Group A or E occupancies.

3. Use or operation of torches and other devices, machines, or processes liable to start or cause fire in or upon wildfire risk areas.

2. Change Section 308.3 to read:

308.3 Group A occupancies. Open-flame devices shall not be used in a Group A occupancy.

Exceptions:

1. Open-flame devices are allowed to be used in the following situations, provided approved precautions are taken to prevent ignition of a combustible material or injury to occupants:

1.1 Where necessary for ceremonial or religious purposes in accordance with Section 308.1.7.

1.2. On stages and platforms as a necessary part of a performance in accordance with Section 308.3.2.

1.3. Where candles on tables are securely supported on substantial noncombustible bases and the candle flames are protected.

2. Heat-producing equipment complying with Chapter 6 and the applicable building code.

3. Gas lights are allowed to be used provided adequate precautions satisfactory to the fire code official are taken to prevent ignition of combustible materials.

G. The following changes shall be made to Section 311, Vacant Premises:

1. ~~Change Section 311.1 to read:~~

~~311.1 General. Temporarily unoccupied buildings, structures, premises, or portions thereof, including tenant spaces, shall be safeguarded and maintained in accordance with Sections 311.1.1 through 311.6.~~

~~2.~~ Change Section 311.1.1 to read:

311.1.1 Abandoned premises. Buildings, structures and premises for which an owner cannot be identified or located by dispatch of a certificate of mailing to the last known or registered address, which persistently or repeatedly become unprotected or unsecured, which have been occupied by unauthorized persons or for illegal purposes, or which present a danger of structural collapse or fire spread to adjacent properties shall be considered abandoned and unsafe until declared abated <u>by the</u> Virginia Maintenance Code or the applicable building code.

~~3.~~ <u>2.</u> Change Section 311.2.3 to read:

311.2.3 Fire separation. Fire-resistance-rated partitions, fire barriers, and fire walls separating vacant tenant spaces from the remainder of the building shall be maintained. Protection of openings, joints, and penetrations in fire-resistance-rated assemblies shall be maintained in accordance with Chapter 7.

~~4.~~ <u>3.</u> Change Section 311.3 to read:

311.3 Removal of combustibles. Persons owning, or in charge or control of, a vacant building or portion thereof shall remove therefrom all accumulations of combustible materials, flammable or combustible waste, or rubbish and shall securely lock or otherwise secure doors, windows, and other openings to prevent entry by unauthorized persons. The premises shall be maintained clear of waste or hazardous materials.

Exceptions:

1. Buildings or portions of buildings undergoing additions, alterations, repairs, or change of occupancy in accordance with the applicable building code where waste is controlled and removed as required by Section 304.

2. Seasonally occupied buildings.

~~5.~~ <u>4.</u> Add Section 311.5.6 to read:

311.5.6 Removal. Removal of placards posted in accordance with this section without the approval of the fire official shall be a violation of this code.

~~6.~~ 5. Change Section 311.6 to read:

~~(N)~~311.6 Unoccupied tenant spaces in mall buildings. Unoccupied tenant spaces in covered and open mall buildings shall be:

1. Kept free from the storage of any materials.

2. Without doors or other access openings other than one door that shall be kept key locked in the closed position except during that time when opened for inspection.

3. Kept free from combustible waste and be broom swept clean.

H. The following changes shall be made to Section 313, Fueled Equipment:

Change Section 313.1 to read:

313.1 General. Fueled equipment including motorcycles, mopeds, lawn-care equipment, portable generators, and portable cooking equipment shall not be stored, operated, or repaired within a building.

Exceptions:

1. Buildings or rooms constructed for such use in accordance with the applicable building code.

2. Where allowed by Section 314.

3. Storage of equipment utilized for maintenance purposes is allowed in approved locations where the aggregate fuel capacity of the stored equipment does not exceed 10 gallons (38 L) and the building is protected throughout by an approved automatic sprinkler system in accordance with the applicable NFPA 13 standard.

I. The following changes shall be made to Section 314, Indoor Displays:

1. Change Section 314.1 to read:

314.1 General. Indoor displays constructed within any building or structure shall comply with Sections 314.2 through 314.5.

2. Add Section 314.5 to read:

314.5 Smokeless powder and small arms primers. Venders shall not store, display, or sell smokeless powder or small arms primers during trade shows inside exhibition halls except as follows:

1. The amount of smokeless powder displayed by each vender is limited to the amount established in Section 5606.5.1.1.

2. The amount of smokeless powder each vender may store is limited to the storage arrangements and storage amounts established in Section 5606.5.2.1. Smokeless powder shall remain in the

manufacturer's original sealed container, and the container shall remain sealed while inside the building. The repackaging of smokeless powder shall not be performed inside the building. Damaged containers shall not be repackaged inside the building and shall be immediately removed from the building in such manner to avoid spilling any powder.

3. There shall be at least 50 feet separation between venders and 20 feet from any exit.

4. Small arms primers shall be displayed and stored in the manufacturer's original packaging and in accordance with the requirements of Section 5606.5.2.3.

J. The following changes shall be made to Section 315, General Storage:

1. Change Section 315.2 to read:

315.2 Permit required. A permit for miscellaneous combustible storage shall be required as set forth in Section 107.2.

2. Change ~~Section~~ Exception 2 of 315.3.1 and Section 315.3.4 to read:

2. The 18-inch (457 mm) ceiling clearance is not required for storage along walls in areas of buildings equipped with an automatic sprinkler system in accordance with the applicable NFPA 13 standard.

~~(N)~~315.3.4 Attic, under-floor and concealed spaces. Attic, under-floor and concealed spaces shall not be used for storage of combustible materials unless approved or not prohibited by the applicable building code.

3. Change Section 315.4 to read:

315.4 Outside storage. Outside storage of combustible materials shall not be located within 10 feet (3048 mm) of a property line or other building on the site.

Exceptions:

1. The separation distance is allowed to be reduced to 3 feet (914 mm) for storage not exceeding 6 feet (1829 mm) in height.

2. The separation distance is allowed to be reduced when the fire official determines that no hazard to the adjoining property exists.

4. Change Section 315.4.1 to read:

315.4.1 Storage beneath overhead projections from buildings. To the extent required by the code the building was constructed under, when buildings are required to be protected by automatic sprinklers, the outdoor storage, display, and handling of combustible materials under eaves, canopies, or other projections or overhangs is prohibited except where automatic sprinklers are installed under such eaves, canopies, or other projections or overhangs.

5. Change Section 315.6 to read:

~~(N)~~315.6 Storage in plenums. Storage shall not be permitted in plenums unless approved for such use by the applicable building code. Abandoned material in plenums shall be deemed to be storage and shall be

removed. Where located in plenums, the accessible portion of abandoned cables that are not identified for future use with a tag shall be deemed storage and shall be removed.

K. The following changes shall be made to Section 316, Hazards to Fire Fighters:
Change Section 316.6.1 to read:

~~(N)~~316.6.1 Structures. Structures shall not be constructed within the utility easement beneath high-voltage transmission lines unless approved.

L. The following changes shall be made to Section 317, Rooftop Gardens and Landscaped Roofs:

1. Change Section 317.1 to read:

~~(N)~~317.1 General. Rooftop gardens and landscaped roofs shall be maintained in accordance with Sections 317.2 through 317.5.

2. Change Section 317.2 to read:

~~(N)~~317.2 Rooftop garden or landscaped roof size. Rooftop garden or landscaped roof areas shall not exceed the size approved in accordance with the applicable building code.

3. Change Section 317.3 to read:

~~(N)~~317.3 Rooftop structure and equipment clearance. Required structure and equipment clearances shall be maintained as provided by the applicable building code.

~~4. Change Section 317.4 to read:~~

~~317.4 Vegetation. Vegetation shall be maintained in accordance with Sections 317.4.1 and 317.4.2.~~

M. The following ~~changes~~ change shall be made to Section 318, Laundry Carts:

Change Section 318.1 to read:

318.1 Laundry carts with a capacity of 1 cubic yard or more. Laundry carts with an individual capacity of 1 cubic yard (200 gallons (0.76 m^3)) or more used in laundries within Groups B, E, F-1, I, M and R-1 occupancies shall be constructed of noncombustible materials or materials having a peak rate of heat release not exceeding 300 kW/m^2 at a flux of 50 kW/m^2 where tested in a horizontal orientation in accordance with ASTM E 1354.

Exceptions:

1. Laundry carts in areas protected by an approved automatic sprinkler system throughout in accordance with the applicable NFPA 13 standard.

2. Laundry carts in coin-operated laundries.

N. ~~Add~~ Change Section 319, Mobile Food Preparation Vehicles~~.~~ , in its entirety, to read:

~~Add Sections 319.1 through 319.11, including subsections, to read:~~

319.1 General. Mobile food preparation vehicles that are equipped with appliances that utilize open flames or produce smoke or grease laden vapors shall comply with this section.

319.2 Permit required. Permits shall be required as set forth in Section 107.2.

319.3 Seating. Seating for the public within any mobile food preparation vehicles is prohibited.

319.4 Exhaust hood. Cooking equipment that produces grease laden vapors shall be provided with a kitchen exhaust hood in accordance with NFPA 96, Annex B.

319.5 Fire protection. Fire protection shall be provided in accordance with Sections 319.5.1 through 319.5.2.

319.5.1 Fire protection for cooking equipment. Cooking equipment shall be protected by automatic fire extinguishing systems in accordance with Section 904.3.

319.5.2 Fire extinguisher. Portable fire extinguishers shall be provided in accordance with Section 904.12.5.

319.6 Appliance connection to fuel supply. Gas cooking appliances shall be secured in place and connected to fuel supply piping with an appliance connector complying with ANSI Z21.69/CSA 6.16. The connector installation shall be configured in accordance with manufacturer's installation instructions. Movement of appliances shall be limited by restraining devices installed in accordance with the connector and appliance manufacturer's instructions.

319.6.1 Construction and modifications. Following initial construction and any modifications of the fuel system, the system, including hoses, shall be proven free of leaks by performing a pressure test in accordance with NFPA 58 at not less than the normal operating pressure.

319.6.2 Leak detection. Gas systems shall be inspected prior to each use and following fuel tank replacement or refill in one of the following methods:

1. A water and soap solution shall be applied to every accessible connection or connection manipulated during the replacement or fueling and observed for evidence of gas leakage.

2. Pressure testing in accordance with Annex L of NFPA 58.

319.6.3 Leaks. When leaks are discovered during inspections and testing, the fuel supply shall be secured in the "off" position or disconnected from the appliance, and the appliance shall not be operated until serviced by a qualified person.

319.7 Cooking oil storage containers. Cooking oil storage containers within mobile food preparation vehicles shall have a minimum aggregate area volume not to exceed 120 gallons (454L) and shall be stored in such a way as to not be toppled or damaged during transport.

319.8 Cooking oil storage tanks. Cooking oil storage tanks within mobile food preparation vehicles shall comply with Sections 319.8.1 through 319.8.5.

319.8.1 Metallic storage tanks. Metallic cooking oil storage tanks shall be listed in accordance with UL 142 or UL 80, and shall be installed in accordance with the tank manufacturer's instructions.

319.8.2 Nonmetallic tanks. Nonmetallic cooking oil storage tanks shall be installed in accordance with the tank manufacturer's instructions and shall also comply with all of the following:

1. Tanks shall be listed for use with cooking oil, including maximum temperature to which the tanks will be exposed to during use.

2. Tank capacity shall not exceed 200 gallons (757 L) per tank.

319.8.3 Cooking oil storage system components. Metallic and nonmetallic cooking oil storage system components shall include piping, connections, fittings, valves, tubing, hose, pumps, vents, and other related components used for the transfer of cooking oil.

319.8.4 Design criteria. The design, fabrication, and assembly of system components shall be suitable for the working pressures, temperatures, and structural stresses to be encountered by the components.

319.8.5 Tank venting. Normal and emergency venting shall be provided for cooking oil storage tanks.

319.8.5.1 Normal vents. Normal vents shall be located above the maximum normal liquid line and shall have a minimum effective area not smaller than the largest filling or withdrawal connection. Normal vents are not required to vent to the exterior.

319.8.5.2 Emergency vents. Emergency relief vents shall be located above the maximum normal liquid line and shall be in the form of a device that will relieve excessive internal pressure caused by an exposure fire. For nonmetallic tanks, the emergency relief vent shall be allowed to be in the form of construction. Emergency vents are not required to discharge to the exterior.

319.9 Liquefied petroleum gas (LP-gas) systems. Where LP-gas systems provide fuel for cooking appliances, such systems shall comply with NFPA 58, Chapter 61 and Sections 319.9.1 through 319.9.5.

319.9.1 Maximum aggregate volume. The maximum aggregate capacity of LP-gas containers transported on the vehicle and used to fuel cooking appliances only shall not exceed 200 pounds propane capacity.

319.9.2 Protection of container. LP-gas containers installed on the vehicle shall be securely mounted and restrained to prevent movement.

319.9.3 LP-gas container construction. LP-gas containers shall be manufactured in compliance with the requirements of NPFA 58.

319.9.4 Protection of system piping. LP-gas system piping, including valves and fittings, shall be adequately protected to prevent tampering, impact damage, and damage from vibration.

319.9.5 LP-gas alarms. A listed LP-gas alarm shall be installed with the vehicle in the vicinity of LP-gas system components, in accordance with manufacturer's instructions.

319.10 Compressed natural gas (CNG) systems. Where CNG systems provide fuel for cooking appliances, such systems shall comply with Sections 319.10.1 through 319.10.4.

319.10.1 CNG containers supplying only cooking fuel. CNG containers installed solely to provide fuel for cooking purposes shall be in accordance with Sections 319.10.1.1 through 319.10.1.3.

319.10.1.1 Maximum aggregate volume. The maximum aggregate capacity of CNG containers transported on the vehicle shall not exceed 1,300 pounds water capacity.

319.10.1.2 Protection of container. CNG containers shall be securely mounted and restrained to prevent movement. Containers shall not be installed in locations subject to direct vehicle impact.

319.10.1.3 CNG container construction. The construction of CNG containers shall be approved.

319.10.2 CNG containers supplying transportation and cooking fuel. Where CNG containers and systems are used to supply fuel for cooking purposes in addition to being used for transportation fuel, the installation shall be in accordance with NFPA 52.

319.10.3 Protection of system piping. CNG system piping, including valves and fittings, shall be adequately protected to prevent tampering, impact damage, and damage from vibration.

319.10.4 Methane alarms. A listed methane gas alarm shall be installed within the vehicle in accordance with manufacturer's instructions.

319.11 Maintenance. Maintenance of systems on mobile food preparation vehicles shall be in accordance with Sections 319.11.1 through 319.11.3.

319.11.1 Exhaust system. The exhaust system, including hood, grease-removal devices, fans, ducts and other appurtenances, shall be inspected and cleaned in accordance with Chapter 6.

319.11.2 Fire protection systems and devices. Fire protection systems and devices shall be maintained in accordance with Chapter 9.

319.11.3 Fuel-gas systems. LP-gas containers installed on the vehicle and fuel-gas piping systems shall be inspected annually by an approved inspection agency or a company that is registered with the U.S. Department of Transportation to requalify LP-gas cylinders to ensure that system components are free of damage, suitable for the intended service, and not subject to leaking. CNG containers shall be inspected every three years in a qualified service facility. CNG containers shall not be used past their expiration dates listed on the manufacturer's container label. Upon satisfactory inspection, the approved inspection agency shall affix a tag on the fuel-gas system or within the vehicle indicating the name of the inspection agency and the date of satisfactory inspection.

13VAC5-51-132. ~~Ifc~~ IFC Chapter 4 Emergency Planning and Preparedness.

A. The following change shall be made to Section 401, General:

Add Section 401.1.1 to read:

401.1.1 State Regulated Care Facilities. When a state license is required by the Virginia Department of Social Services; Virginia Department of Behavioral Health and Developmental Services; Virginia Department of Education; or Virginia Department of Juvenile Justice to operate, SRCF shall comply with this section and the provisions of Section 404.

B. The following changes shall be made to Section 403, Emergency Preparedness Requirements:

1. Add Section 403.1.1 to read:

403.1.1 Maintaining occupant load posting. Occupant load postings required by the building code are required to be maintained.

2. Add Sections 403.2.2.1, 403.2.2.1.1, and 403.2.2.1.2 to read:

403.2.2.1 Night clubs. Night clubs shall comply with Sections 403.2.2.1.1 and 403.2.2.1.2.

403.2.2.1.1 Audible announcements. Audible announcements shall be made to the occupants no longer than 10 minutes prior to the start of the entertainment and at each intermission to notify the occupants of the location of the exits to be used in the event of a fire or other emergency.

403.2.2.1.2 Occupant load count. Upon request of the fire code official, the owner or operator, or both, will be required to keep a running count of the occupant load to provide to the fire code official during performance hours of operation, entertainment hours of operation, or both.

3. Change Section 403.8.3.2 to read:

403.8.3.2 Employee staffing. Group I-3 occupancies shall be provided with 24-hour staffing. An employee shall be within three floors or 300 feet (91 440 mm) horizontal distance of the access door of each resident housing area. In Group I-3 Conditions 3, 4, and 5, as defined in Chapter 2, the arrangement shall be such that the employee involved can start release of locks necessary for emergency evacuation or rescue and initiate other necessary emergency actions within 2 minutes of an alarm.

Exception: An employee shall not be required to be within three floors or 300 feet (91 440 mm) horizontal distance of the access door of each resident housing area in areas in which all locks are unlocked remotely and automatically in accordance with the applicable building code.

4. Change Section 403.10 to read:

403.10 Group R occupancies. Group R occupancies shall comply with Sections 403.10.1 through 403.10.4.

5. Add Section 403.10.4 to read:

403.10.4 Groups R-3 and R-5 lodging facilities. An approved fire safety and evacuation plan in accordance with Section 404 shall be prepared and maintained for Groups R-3 and R-5 bed and breakfast and other transient boarding facilities that are either proprietor or non-proprietor occupied.

6. Change Section 403.11 to read:

403.11 Special uses. Special uses shall be in accordance with Sections 403.11.1 through ~~403.11.5~~ 403.11.6.

7. Change Section 403.11.1.4 to read:

403.11.1.4 Lease plan revisions. The lease plans shall be revised annually or as often as necessary to keep them current. Modifications or changes in tenants or occupancies shall not be made without prior approval of the fire code official.

8. Add Section ~~403.11.5~~ 403.11.6 to read:

~~403.11.5~~ 403.11.6 SRCF. An approved fire safety and evacuation plan in accordance with Section 404 shall be prepared and maintained for SRCFs.

C. The following change shall be made to Section 404, Fire Safety, Evacuation and Lockdown Plans:

Change Section 404.4.1 to read:

404.4.1 Distribution. The fire safety and evacuation plans shall be distributed to the tenants and building service employees by the owner or owner's agent. Tenants shall distribute to their employees applicable parts of the fire safety plan affecting the employees' actions in the event of a fire or other emergency. Fire safety and evacuation plans shall be made available by the proprietor of Group R-3 and R-5 bed and breakfast and other transient boarding facilities to transient guests upon their arrival or are present in each transient guest room.

D. The following changes shall be made to Section 405, Emergency Evacuation Drills

1. Change Section 405.1 to read:

405.1 General. Emergency evacuation drills complying with Sections 405.2 through 405.9 shall be conducted at least annually where fire safety and evacuation plans are required by Section 403 or when required by the fire code official. Drills shall be designed in cooperation with the local authorities.

Exception: Emergency evacuation drills shall not be conducted in school buildings during periods of mandatory testing required by the Virginia Board of Education.

2. Add the following row to Table 405.2 to read:

Group or Occupancy	Frequency	Participation
SRCF	Monthly	All occupants

3. Add Section 405.2.1 to read:

405.2.1 High-rise buildings. Fire exit drills shall be conducted annually by building staff personnel or the owner of the building in accordance with the fire safety plan and shall not affect other current occupants.

13VAC5-51-133. ~~Ifc~~ IFC Chapter 5 Fire Service Features.

A. The following changes shall be made to Section 501, General:

1. Change Section 501.2 to read:

501.2 Permits. A permit shall be required as set forth in Section 107.2.

2. Delete Section 501.4.

B. The following changes shall be made to Section 503, Fire Apparatus Access Roads:

1. Add exceptions to Section 503.1 to read:

Exceptions:

1. Fire apparatus access roads shall be permitted to be provided and maintained in accordance with written policy that establish fire apparatus access road requirements and such requirements shall be identified to the owner or his agent prior to the building official's approval of the building permit.

2. On construction and demolition sites fire apparatus access roads shall be permitted to be provided and maintained in accordance with Section 3310.1.

2. Change Section 503.1.1 to read:

503.1.1 Buildings and facilities. Approved fire apparatus access roads shall be provided for every facility, building, or portion of a building hereafter constructed or moved into or within the jurisdiction. The fire apparatus access road shall comply with the requirements of this section and shall extend to within 150 feet (45,720 mm) of all portions of the facility and all portions of the exterior walls of the first story of the building as measured by an approved route around the exterior of the building or facility.

Exceptions:

1. The fire code official is authorized to increase the dimension of 150 feet (45,720 mm) where any of the following conditions occur:

1.1. The building is equipped throughout with an approved automatic sprinkler system in accordance with the applicable NFPA13~~, NFPA 13R, or NFPA13D~~ standard.

1.2. Fire apparatus access roads cannot be installed because of location on property, topography, waterways, nonnegotiable grades, or other similar conditions, and an approved alternative means of fire protection is provided.

1.3. There are not more than two Group R-3 or Group U occupancies.

2. Where approved by the fire code official, fire apparatus access roads shall be permitted to be exempted or modified for solar photovoltaic power generation facilities.

3. Add exception to Section 503.2.1 to read:

Exception: Fire apparatus access roads exclusively serving single family dwelling or townhouse developments that are fully sprinklered as provided for in Sections R313.1 or R313.2 of the International Residential Code shall have an unobstructed width of not less than 18 feet (5486 mm), exclusive of shoulders.

4. Add Section 503.7 to read:

503.7 Fire lanes for existing buildings. The fire code official is authorized to designate public and private fire lanes as deemed necessary for the efficient and effective operation of fire apparatus. Fire lanes shall comply with Sections 503.2 through 503.6.

C. The following changes shall be made to Section 504, Access to Building Openings and Roofs:

1. Change Section 504.1 to read:

504.1 Required access. Exterior doors and openings required by the applicable building code shall be maintained readily accessible for emergency access by the fire department. An approved access walkway

leading from fire apparatus access roads to exterior openings shall be provided when required by the fire code official.

2. Change Section 504.3 to read:

~~(N)~~504.3 Stairway access to roof. Stairway access to the roof shall be maintained and marked at street and floor levels with a sign indicating that the stairway continues to the roof.

D. The following changes shall be made to Section 507, Fire Protection Water Supplies:

1. Add Section 507.3.1 to read:

507.3.1 Fire flow requirements for fully sprinklered residential developments. Notwithstanding Section 103.1.2, the fire flow requirements in Table B105.1(1) of Appendix B of the IFC shall be permitted to be used for determining fire flow in single family dwelling and townhouse developments which are fully sprinklered as provided for in Sections R313.1 or R313.2 of the International Residential Code.

2. Change Section 507.5.1 to read:

507.5.1 Where required. Fire hydrant systems shall be located and installed as directed by the fire department. Fire hydrant systems shall conform to the written standards of the jurisdiction and the fire department.

Exceptions:

1. For in-fill development of fewer than five detached single-family dwellings constructed in existing residential developments.

2. For the reconstruction or rehabilitation of detached single-family dwellings.

3. Add Section 507.5.1.2 to read:

507.5.1.2 Fire hydrant requirements for fully sprinklered residential developments. Notwithstanding Section 103.1.2, the number and distribution of fire hydrants in Table C102.1 of Appendix C of the IFC shall be permitted to be used in single family dwelling and townhouse developments which are fully sprinklered as provided for in Sections R313.1 or R313.2 of the International Residential Code, with the spacing and distances of fire hydrants indicated in Table C102.1 increased by 100%.

E. The following changes shall be made to Section 508, Fire Command Center:

1. Change Section 508.1 to read:

~~(N)~~508.1 General. Where required by the applicable building code or where otherwise provided, a fire command center for fire department operations shall comply with Sections 508.1.1 through 508.1.6.

2. Delete Section 508.1.1.

3. Change Section 508.1.2 to read:

~~(N)~~508.1.2 Separation. Fire-rated construction shall be maintained in accordance with Section 703 of this code.

4. Delete Section 508.1.3.

5. Change Section 508.1.4 to read:

~~(N)~~508.1.4 Layout approval. A layout of the fire command center and all features shall be submitted for approval prior to modification.

6. Change Section 508.1.6 to read:

~~(N)~~ 508.1.6 Required features. In addition to the features required by the applicable building code, the fire command center shall contain the following:

1. A telephone for fire department use with controlled access to the public telephone system.

2. Schematic building plans indicating the typical floor plan and detailing the building core, means of egress, fire protection systems, firefighter air-replenishment systems, firefighting equipment, and fire department access and the location of fire walls, fire barriers, fire partitions, smoke barriers, and smoke partitions.

3. An approved building information card that includes all of the following information:

3.1. General building information that includes property name, address, the number of floors in the building above and below grade, use and occupancy classification (for mixed uses, identify the different types of occupancies on each floor) and the estimated building population during the day, night and weekend;

3.2. Building emergency contact information that includes a list of the building's emergency contacts including building manager, building engineer, and their respective work phone numbers, cell phone numbers, and email addresses;

3.3. Building construction information that includes the type of building construction including floors, walls, columns, and roof assembly;

3.4. Exit access stairway and exit stairway information that includes number of exit access stairways and exit stairways in building; each exit access stairway and exit stairway designation and floors served; location where each exit access stairway and exit stairway discharges; interior exit stairways that are pressurized; exit stairways provided with emergency lighting; each exit stairway that allows reentry; exit stairways providing roof access; elevator information that includes: number of elevator banks, elevator bank designation, elevator car numbers, and respective floors that they serve; location of elevator machine rooms; control rooms and control spaces; location of sky lobby; and location of freight elevator banks;

3.5. Building services and system information that includes location of mechanical rooms, location of building management system, location and capacity of all fuel oil tanks, location of emergency generator, and location of natural gas service;

3.6. Fire protection system information that includes location of standpipes, location of fire pump room, location of fire department connections, floors protected by automatic sprinklers, and location of different types of automatic sprinkler systems installed including dry, wet, and preaction; and

3.7. Hazardous material information that includes: location and quantity of hazardous material.

4. Work table.

F. The following changes shall be made to Section 510, Maintenance of In-Building Emergency Communication Equipment:

Change Sections 510.1 through 510.3 ~~to read:~~ and delete Sections 510.4 through 510.6, including subsections.

510.1 General. In-building emergency communication equipment shall be maintained in accordance with USBC and the provisions of this section.

510.2 Additional in-building emergency communications installations. If it is determined by the locality that increased amplification of their emergency communication system is needed, the building owner shall allow the locality access as well as provide appropriate space within the building to install and maintain necessary additional communication equipment by the locality. If the building owner denies the locality access or appropriate space, or both, the building owner shall be responsible for the installation and maintenance of these additional systems.

510.3 Field tests. After providing reasonable notice to the owner or the owner's representative, the fire official, police chief, or their agents shall have the right during normal business hours, or other mutually agreed upon time, to enter onto the property to conduct field tests to verify that the required level of radio coverage is present at no cost to the owner.

13VAC5-51-133.5. ~~Ifc~~ IFC Chapter 6 Building Services and Systems.

A. The following changes shall be made to Section 601, General:

1. Change Section 601.1 to read:

601.1 Scope. The provisions of this chapter shall apply to the operation and maintenance of fuel-fired appliances and heating systems, emergency and standby power systems, electrical systems, and equipment, mechanical refrigeration systems, elevator recall, stationary storage battery systems and commercial kitchen equipment.

2. Change Section 601.2 to read:

601.2 Permits. Permits shall be obtained for refrigeration systems, battery systems and solar photovoltaic power systems as set forth in Section 107.2.

B. The following changes shall be made to Section 603, Fuel-Fired Appliances:

1. Change Section 603.1 to read:

~~(N)~~603.1 Installation. The installation of nonportable fuel gas appliances and systems shall comply with the applicable building code. The use of all other fuel-fired appliances, other than internal combustion engines, oil lamps and portable devices such as blow torches, melting pots and weed burners, shall comply with this section.

2. Change Section 603.1.1 to read:

~~(N)~~603.1.1 Manufacturer's instructions. Appliances shall be maintained in accordance with the manufacturer's instructions and applicable federal, state, and local rules and regulations. Where it becomes necessary to change, modify, or alter a manufacturer's instructions in any way, written approval shall first be obtained from the manufacturer.

3. Delete Section 603.1.2.

4. Change Section 603.1.3 to read:

~~(N)~~603.1.3 Electrical wiring and equipment. Electrical wiring and equipment used in connection with oil-burning equipment shall be maintained in accordance with Section 605 and NFPA 70.

5. Change Section 603.1.5 to read:

~~(N)~~603.1.5 Access. Appliances shall be readily accessible for cleaning hot surfaces; removing burners; replacing motors, controls, air filters, chimney connectors, draft regulators, and other working parts; and for adjusting, cleaning, and lubricating parts.

6. Change Section 603.1.6 to read:

~~(N)~~603.1.6 Testing, diagrams and instructions. Following servicing or maintenance of oil-burning equipment, operation and combustion performance tests shall be conducted to determine that the burner is in proper operating condition and that all accessory equipment, controls, and safety devices function properly.

7. Change Section 603.1.6.1 to read:

~~(N)~~603.1.6.1 Diagrams. Two copies of diagrams showing the main oil lines and controlling valves shall be provided, one copy of which shall be posted at the oil-burning equipment and another at an approved location that will be accessible in case of emergency.

~~8. Change Section 603.1.7 to read:~~

~~(N)603.1.7 Clearances. Working clearances between oil-fired appliances and electrical panelboards and equipment shall be in accordance with NFPA 70. Clearances between oil-fired equipment and oil supply tanks shall be in accordance with NFPA 31~~.

~~9.~~ 8. Change Section 603.2 to read:

~~(N)~~603.2 Chimneys. Masonry, metal, and factory-built chimneys shall be maintained in accordance with the applicable building code and NFPA 211.

~~10.~~ 9. Change Section 603.3 to read:

~~(N)~~603.3 Fuel oil storage systems. Fuel oil storage systems shall be maintained as provided by the applicable building code.

~~11.~~ 10. Change Section 603.3.1 to read:

~~(N)~~603.3.1 Fuel oil storage in outside, aboveground tanks. Where connected to a fuel-oil piping system, the maximum amount of fuel oil storage allowed outside above ground without additional protection shall be 660 gallons (2498 L) unless otherwise installed in accordance with the applicable building code. The storage of fuel oil above ground in quantities exceeding 660 gallons (2498 L) shall ~~comply~~ be maintained in accordance with NFPA 31.

~~12.~~ 11. Change Section 603.3.2 to read:

~~(N)~~603.3.2 Fuel oil storage inside buildings. Fuel oil storage inside buildings shall be maintained in accordance with the applicable building code.

~~13.~~ 12. Change Section 603.3.2.1 to read:

~~(N)~~603.3.2.1 Quantity limits. The amount of fuel oil storage in fuel oil storage tanks inside buildings shall not exceed that amount approved under the applicable building code.

~~14.~~ 13. Change Section 603.3.2.2 to read:

~~(N)~~603.3.2.2 Restricted use and connection. Tanks subject to Section 603.3.2 shall be used only as approved under the applicable building code. Closed piping systems shall be maintained in accordance with the applicable building code.

~~15.~~ 14. Change Section 603.3.2.3 to read:

~~(N)~~603.3.2.3 Applicability of maximum allowable quantity and control area requirements. The quantity of combustible liquid stored in tanks subject to Section 603.3.2 shall not be counted toward the maximum allowable quantity set forth in Table 5003.1.1(1), and such tanks shall not be required to be located in a control area when there are such allowances under the applicable building code.

~~16.~~ 15. Change Section 603.3.2.4 ~~to read~~ and delete Sections 603.3.2.5 and 603.3.2.6:

~~(N)~~603.3.2.4 Installation. Tanks and piping systems shall be maintained in accordance with the applicable building code.

~~17.~~ 16. Change Section ~~603.3.2.5~~ 603.3.2.7 to read:

~~(N)603.3.2.5~~ 603.3.2.7 Tanks in basements. Tanks in basements shall be maintained in accordance with the applicable building code.

~~18.~~ 17. Change Section 603.3.3 to read:

~~(N)~~603.3.3 Underground storage of fuel oil. The storage of fuel oil in underground storage tanks shall be maintained in accordance with the applicable building code.

~~19.~~ 18. Change Section 603.5 to read:

~~(N)~~603.5 Heating appliances. Heating appliances shall be maintained in accordance with the applicable building code.

~~20.~~ 19. Change Section 603.5.1 to read:

~~(N)~~603.5.1 Guard against contact. The heating element or combustion chamber guard shall be maintained so as to prevent accidental contact by persons or material to the extent required by the applicable building code.

~~21.~~ 20. Change Section 603.5.2 to read:

~~(N)~~603.5.2 Heating appliance installation and maintenance. Heating appliances shall be maintained in accordance with the applicable building code.

~~22.~~ 21. Change Section 603.6 to read:

~~(N)~~603.6 Chimneys and appliances. Chimneys, incinerators, smokestacks or similar devices for conveying smoke or hot gases to the outer air and the stoves, furnaces, fireboxes or boilers to which such devices are connected shall be maintained in accordance with the applicable building code.

~~23.~~ 22. Change Section 603.6.1 to read:

~~(N)~~603.6.1 Masonry chimneys. Masonry chimneys that, upon inspection, are found to be without a flue liner and that have open mortar joints that will permit smoke or gases to be discharged into the building or that are cracked as to be dangerous shall be repaired in accordance with the applicable building code.

~~24.~~ 23. Change Section 603.6.2 to read:

~~(N)~~603.6.2 Metal chimneys. Metal chimneys that are corroded shall be repaired or replaced.

~~25. Change Section 603.6.3 to read:~~

~~(N)603.6.3 Decorative shrouds. Decorative shrouds installed at the termination of factory-built chimneys shall be removed except where such shrouds are listed and labeled for use with the specific factory-built chimney system and are installed in accordance with the chimney manufacturer's instructions.~~

~~26.~~ 24. Change Section 603.6.4 to read:

~~(N)~~603.6.4 Factory-built chimneys. Existing factory-built chimneys that are corroded shall be repaired or replaced.

~~27.~~ 25. Change Section 603.6.5 to read:

~~(N)~~603.6.5 Connectors. Existing chimney and vent connectors that are damaged or corroded shall be repaired or replaced.

~~28.~~ 26. Add a note to Section 603.7 to read:

Note: The fire code official may request a copy of the latest certificate of inspection from the Virginia Department of Labor and Industry for boilers and pressure vessels subject to such requirements. When the certificate is not available, the fire code official shall notify the Department of Labor and Industry to ensure that the required maintenance and testing is performed in accordance the Virginia Boiler and Pressure Vessel Regulations (16VAC25-50).

~~29.~~ 27. Change Section 603.8 to read:

~~(N)~~603.8 Incinerators. Commercial, industrial and residential-type incinerators and chimneys shall be maintained as installed in accordance with the applicable building code.

~~30.~~ 28. Change Section 603.8.1 to read:

~~(N)~~603.8.1 Residential incinerators. Residential incinerators not regulated by the applicable building code shall be of an approved type.

~~31.~~ 29. Change Section 603.8.2 to read:

~~(N)~~603.8.2 Spark arrestor. Incinerators not regulated by the applicable building code shall be equipped with an effective means for arresting sparks.

~~32.~~ 30. Delete Section ~~608.8.6~~ 603.8.6.

C. ~~The following changes shall be made to Section 604, Emergency and Standby Power Systems:~~

~~1. Change Section 604.1 to read:~~

~~(N)604.1 General. Emergency power systems and standby power systems shall be maintained in accordance with the applicable building code.~~

~~2. Change Section 604.1.1 to read:~~
~~(N)604.1.1 Generators Emergency and standby power generators shall be listed.~~

~~3. Delete Section 604.1.2.~~

~~4. Change Section 604.1.3 to read:~~

~~(N)604.1.3 Load transfer. Emergency power systems shall automatically provide secondary power within 10 seconds after primary power is lost unless specified otherwise by the applicable building code. Standby power systems shall automatically provide secondary power within 60 seconds after primary power is lost unless specified otherwise by the applicable building code.~~

~~5. Change Section 604.1.4 to read:~~

~~(N)604.1.4 Load duration. Emergency power systems and standby power systems shall require power for a minimum duration of hours without being refueled or recharged, unless otherwise specified by the applicable building code.~~

~~6. Change Section 604.1.5 to read:~~

~~(N)604.1.5 Uninterruptable power source. An uninterrupted source of power shall be provided for equipment where required by the manufacturer's instructions, the listing, the applicable building code, or the applicable referenced standards.~~

~~7. Change Section 604.1.6 to read:~~

~~(N)604.1.6 Interchangeability. Emergency power systems shall be an acceptable alternative for installations that require standby power systems when permitted by the applicable building code.~~

8. Delete Section 604.1.7.

9. Change Section 604.1.8 to read:

604.1.8 Maintenance. Existing installations shall be maintained in accordance with the original approval and Section 604.4.

10. Change Section 604.2 to read:

(N)604.2 Specific equipment requirements. Emergency and standby power systems shall be maintained in accordance with Sections 604.2.1 through 604.2.16.

11. Change Section 604.2.1 to read:

(N)604.2.1 Elevators and platform lifts. Standby power shall be maintained in accordance with NFPA 72 for elevators and platform lifts required by the applicable building code.

12. Change Section 604.2.2 to read:

(N)604.2.2 Emergency alarm systems. Emergency power shall be maintained for emergency alarm systems as required by applicable building code.

13. Delete Section 604.2.3.

14. Change Section 604.2.4 to read:

(N)604.2.4 Emergency voice or alarm communication systems. Emergency power shall be maintained for emergency voice or alarm communication systems as required by the applicable building code. The system shall be capable of powering the required load for a duration of not less than 24 hours, as required in NFPA 72.

15. Change Section 604.2.5 to read:

(N)604.2.5 Exit signs. Emergency power for exit signs shall be capable of powering the required load for a duration of not less than 90 minutes unless otherwise specified by the applicable building code.

16. Change Section 604.2.6 to read:

(N)604.2.6 Group I-2 occupancies. Essential electrical systems for Group I-2 occupancies shall be maintained in accordance with NFPA 70 when required by applicable building code.

17. Change Section 604.2.7 to read:

(N)604.2.7 Group I-3 occupancies. Power-operated sliding doors or power-operated locks for swinging doors in Group I-3 occupancies shall be operable by a manual release mechanism at the door and emergency power provided for the doors and locks shall be maintained where required by the applicable building code.

18. Change Section 604.2.8 to read:

(N)604.2.8 Hazardous materials. Emergency and standby power shall be maintained in accordance with NFPA 70 in occupancies with hazardous materials when required by the applicable building code.

~~19. Delete Section 604.2.9.~~

~~20. Change Section 604.2.10 to read:~~

~~(N)604.2.10 Horizontal sliding doors. Standby power shall be maintained in accordance with NFPA 70 for horizontal sliding doors as required by the applicable building code. The standby power supply shall have a capacity to operate not fewer than 50 closing cycles of the door unless otherwise specified by the applicable building code.~~

~~21. Change Section 604.2.11 to read:~~

~~(N)604.2.11 Hydrogen fuel gas rooms. Standby power shall be maintained in accordance with NFPA 70 for hydrogen fuel gas rooms as required by the applicable building code.~~

~~22. Change Section 604.2.12 to read:~~

~~(N)604.2.12 Means of egress illumination. Emergency power shall be maintained for means of egress illumination in accordance with the applicable building code.~~

~~23. Change Section 604.2.13 to read:~~

~~(N)604.2.13 Membrane structures. Standby power shall be maintained for auxiliary inflation systems in permanent membrane structures in accordance with applicable building code. Auxiliary inflation systems shall be provided in temporary air-supported and air-inflated membrane structures in accordance with Section 3103.10.4.~~

~~24. Change Section 604.2.14 to read:~~

~~(N)604.2.14 Semiconductor fabrication facilities. Emergency power shall be maintained in accordance with NFPA 70 for semiconductor fabrication facilities as required by the applicable building code.~~

~~25. Change Section 604.2.15 to read:~~

~~(N)604.2.15 Smoke control systems. Standby power shall be maintained in accordance with NFPA 70 for smoke control as required by the applicable building code.~~

~~26. Change Section 604.2.16 to read:~~

~~(N) 604.2.16 Underground buildings. Emergency and standby power shall be maintained in accordance with NFPA 70 in underground buildings as required by the applicable building code.~~

~~27. Change Section 604.3 to read:~~

~~(N)604.3 Critical circuits. Cables used for survivability of required critical circuits shall be listed. Electrical circuit protective systems shall be maintained in accordance with their listing requirements.~~

~~28. Change Section 604.4 to read:~~

~~604.4 Maintenance. Emergency and standby power systems shall be maintained in accordance with NFPA 70, NFPA 110, and NFPA 111 such that the system is capable of supplying service within the time specified for the type and duration required in accordance with the applicable building code.~~

~~29. Change Section 604.5 to read:~~

~~604.5 Operational inspection and testing. Emergency power systems, including all appurtenant components, shall be inspected and tested under load in accordance with NFPA 110, NFPA 70, and NFPA 111.~~

~~Exception: Where the emergency power system is used for standby power or peak load shaving, such use shall be recorded and shall be allowed to be substituted for scheduled testing of the generator set, provided that appropriate records are maintained.~~

~~30. Add Section 604.8 to read:~~

~~604.8 Testing of battery powered emergency lights and exit signs. Required emergency lighting utilizing battery powered emergency lights or exit signs, or both, shall be tested annually. The emergency lights and exit signs shall be tested for proper operation for the time period established in the building code in effect when the equipment was installed. Written records of tests shall be retained by the owner of the building for a minimum of two years after the test is conducted and shall be made available to the fire code official upon request.~~

~~D.~~ The following changes shall be made to Section ~~605~~ 604, Electric Equipment, Wiring and Hazards:

1. Change Section ~~605.2~~ 604.2 to read:

~~605.2~~ 604.2 Illumination. Illumination shall be maintained for service equipment areas, motor control centers, and electrical panelboards.

2. Change Section ~~605.9~~ 604.9 to read:

~~(N)605.9~~ 604.9 Temporary wiring. Temporary wiring for electrical power and lighting installations not regulated by the applicable building code is allowed for a period not to exceed 90 days. Temporary wiring methods shall meet the applicable provisions of NFPA 70.

Exception: Temporary wiring for electrical power and lighting installations is allowed during periods of construction, remodeling, repair, or demolition of buildings, structures, equipment, or similar activities.

3. Change Section ~~605.10.1~~ 604.10.1 to read:

~~605.10.1~~ 604.10.1 Listed and labeled. Only portable electric space heaters listed and labeled in accordance with UL 1278 shall be used.

~~4. Change Section 605.11 to read:~~

~~(N)605.11 Solar photovoltaic power systems. Solar photovoltaic power systems shall be maintained in accordance with Sections 605.11.1 through 605.11.2, the applicable building code and NFPA 70.~~

~~5. Change Section 605.11.1 to read:~~

~~(N)605.11.1 Access and pathways. Roof access, pathways, and spacing requirements shall be maintained in accordance with Section 605.11.1.~~

~~6. Change Section 605.11.1.1 to read:~~

~~(N)605.11.1.1 Roof access points. Roof access points shall be maintained in areas that do not require the placement of ground ladders over openings such as windows or doors and located at strong points of building construction in locations where the access point does not conflict with overhead obstructions such as tree limbs, wires, or signs.~~

~~7. Delete Section 605.11.1.2.~~

~~8. Delete Section 605.11.1.2.1.~~

~~9. Delete Section 605.11.1.2.2.~~

~~10. Delete Section 605.11.1.2.3.~~

~~11. Delete Section 605.11.1.2.4.~~

~~12. Delete Section 605.11.1.2.5.~~

~~13. Delete Section 605.11.1.3.~~

~~14. Delete Section 605.11.1.3.1.~~

~~15. Delete Section 605.11.1.3.2.~~

~~16. Delete Section 605.11.1.3.3.~~

~~17. Change Section 605.11.2 to read:~~

~~(N)605.11.2 Ground-mounted photovoltaic arrays. A clear, brush-free area of 10 feet (3048 mm) shall be maintained for ground-mounted photovoltaic arrays.~~

~~E.~~ D. The following changes shall be made to Section 606, Mechanical Refrigeration:

1. Change ~~Section 606.1~~ Sections 605.1 and 605.1.2, and delete Section 605.1.1 ~~to read~~:

~~606.1~~ 605.1 Scope. Refrigeration systems shall be maintained in accordance with the applicable building code.

605.1.2 Ammonia refrigeration. Refrigeration systems using ammonia refrigerant and the buildings in which such systems are installed shall comply with IIAR-7 for operating procedures.

2. Change Section ~~606.2~~ 605.2 to read:

~~606.2~~ 605.2 Refrigerants. The use and purity of new, recovered, and reclaimed refrigerants shall be in accordance with the applicable building code.

3. Change Section ~~606.3~~ 605.3 to read:

~~606.3~~ 605.3 Refrigerant classification. Refrigerants shall be classified in accordance with the applicable building code.

4. Change Section ~~606.4~~ 605.4 to read:

~~606.4~~ 605.4 Change in refrigerant type. A change in the type of refrigerant in a refrigeration system shall be in accordance with the applicable building code.

5. Change Section ~~606.6~~ 605.6 to read:

~~606.6~~ 605.6 Testing of equipment. Refrigeration equipment and systems having a refrigerant circuit containing more than 220 pounds (100 kg) of Group A1 or 30 pounds (14 kg) of any other group refrigerant shall be subject to periodic testing in accordance with Section 606.6.1. Records of tests shall be maintained. Tests of emergency devices or systems required by the applicable building code shall be conducted by persons trained and qualified in refrigeration systems.

6. Change Section ~~606.7~~ 605.7 to read:

~~606.7~~ 605.7 Emergency signs. Refrigeration units or systems having a refrigerant circuit containing more than 220 pounds (100 kg) of Group A1 or 30 pounds (14 kg) of any other group refrigerant shall be provided with approved emergency signs, charts and labels in accordance with NFPA 704. Hazard signs shall be in accordance with the applicable building code for the classification of refrigerants listed therein.

7. Change Section ~~606.8~~ 605.8 and 605.8.1 to read:

~~(N)606.8 Refrigerant detector detection. Refrigerant detection systems shall be maintained. The alarm shall be actuated at a value not greater than the corresponding threshold limit value-time-weighted average values (TLV-TWA) for those agents. Detectors and alarms shall be maintained in approved locations. The detector shall transmit a signal to an approved location.~~

605.8 Refrigerant detection. Refrigerant detection systems shall be maintained. Where ammonia is used as the refrigerant, detection shall comply with IIAR 2. Detectors and alarms shall be maintained in approved locations. The detector shall transmit a signal to an approved location. For refrigerants other than ammonia, refrigerant detection shall comply with Section 605.8.1.

605.8.1 Refrigerants other than ammonia. Refrigerant detection systems shall be maintained. The alarm shall be actuated at a value not greater than the corresponding threshold limit value-time-weighted average values (TLV-TWA) for those agents. Detectors and alarms shall be maintained in approved locations. The detector shall transmit a signal to an approved location.

8. Change Section ~~606.9~~ 605.9 to read:

~~(N)606.9~~ 605.9 Remote controls. Remote controls required by the applicable building code shall be maintained and accessible at all times as required by that code.

9. Change Section ~~606.9.1~~ 605.9.1 to read:

~~(N)606.9.1~~ 605.9.1 Refrigeration system emergency shutoff. Emergency shutoffs shall be maintained and accessible at all times.

10. Change Section ~~606.9.2~~ 605.9.2 to read:

~~(N)606.9.2~~ 605.9.2 Ventilation system. Ventilation system switches shall be clearly identified and maintained in an approved manner.

11. Change Section ~~606.10~~ 605.10 to read:

~~(N)606.10~~ 605.10 Emergency pressure control system. Permanently installed refrigeration systems containing more than 6.6 pounds (3 kg) of flammable, toxic or highly toxic refrigerant or ammonia shall be maintained as installed in accordance with the applicable building code and this code.

12. Change Section ~~606.10.1~~ 605.10.1 to read:

~~(N)606.10.1~~ 605.10.1 Automatic crossover valves. Automatic crossover valves shall be maintained as installed in accordance with the applicable building code.

13. Change Section ~~606.10.1.1~~ 605.10.1.1 to read:

~~(N)606.10.1.1~~ 605.10.1.1 Overpressure limit set point. Automatic crossover valves shall be arranged and maintained in accordance with the applicable building code.

14. Change Section ~~606.10.1.2~~ 605.10.1.2 to read:

~~(N)606.10.1.2~~ 605.10.1.2 Manual operation. Manual operation of the automatic crossover valve, where provided, shall be maintained in accordance with the applicable building code.

15. Delete Section ~~606.10.1.3~~ 605.10.1.3.

16. Change Section ~~606.10.2~~ 605.10.2 to read:

~~(N)606.10.2~~ 605.10.2 Automatic emergency stop. An automatic emergency stop feature shall be maintained in accordance with the applicable building code.

17. Delete Section ~~606.10.2.1~~ 605.10.2.1.

18. Delete Section ~~606.10.2.2~~ 605.10.2.2.

19. Change Section ~~606.12~~ 605.12 to read:

~~(N)606.12~~ 605.12 Discharge and termination of pressure relief and purge systems. Pressure relief devices, fusible plugs and purge systems discharging to the atmosphere from refrigeration systems containing flammable, toxic or highly toxic refrigerants or ammonia shall be maintained in accordance with Sections 606.12.3 through 606.12.5.

20. ~~Delete Section 606.12.1.~~

~~21. Change Section 606.12.1.1 to read:~~

~~(N)606.12.1.1 Ammonia refrigeration. Refrigeration systems using ammonia refrigerant and the buildings in which such systems are installed shall comply with IIAR-7 for operating procedures.~~

~~22.~~ Change Section ~~606.12.2~~ 605.12.1 to read:

~~(N)606.12.2~~ 605.12.1 Fusible plugs and rupture members. Unless otherwise required by the applicable building code, discharge piping and devices connected to the discharge side of a fusible plug or rupture member shall have provisions to prevent plugging the pipe in the event the fusible plug or rupture member functions.

~~23.~~ 21. Change Section ~~606.12.3~~ 605.12.2 to read:

~~(N)~~ ~~606.12.3~~ 605.12.2 Flammable refrigerants. Unless otherwise regulated by the applicable building code, systems containing more than 6.6 pounds (3 kg) of flammable refrigerants having a density equal to or greater than the density of air shall discharge vapor to the atmosphere only through an approved treatment system in accordance with Section 606.12.6 or a flaring system in accordance with Section 606.12.7. Systems containing more than 6.6 pounds (3 kg) of flammable refrigerants having a density less than the density of air shall be permitted to discharge vapor to the atmosphere provided that the point of discharge is located outside of the structure at not less than 15 feet (4572 mm) above the adjoining grade level and not less than 20 feet (6096 mm) from any window, ventilation opening, or exit.

~~24.~~ 22. Change Section ~~606.12.4~~ 605.12.3 to read:

~~(N)606.12.4~~ 605.12.3 Toxic and highly toxic refrigerants. Toxic or highly toxic refrigerant discharge methods shall be maintained in accordance with the applicable building code.

~~25.~~ 23. Change Section ~~606.12.5~~ 605.12.4 to read:

~~(N)606.12.5~~ 605.12.4 Ammonia refrigerant. The discharge methods for systems containing more than 6.6 pounds (3 kg) of ammonia refrigerant shall be maintained in accordance with the applicable building code.

~~26.~~ 24. Change Section ~~606.12.6~~ 605.12.5 through 605.12.7 to read:

~~(N)606.12.6~~ 605.12.5 Treatment systems. Treatment systems for refrigerant gas discharge shall be maintained in accordance with the applicable building code.

~~(N)606.12.7~~ 605.12.6 Flaring systems. Flaring systems for incineration of flammable refrigerants shall be maintained in accordance with the applicable building code.

~~27~~. ~~Change Section 606.12.8 to read:~~

~~(N)606.12.8~~ 605.12.7 Ammonia diffusion systems. Ammonia diffusion systems shall be maintained in accordance with the applicable building code.

~~28~~25. Change Section ~~606.13~~ 605.13 to read:

~~(N)606.13~~ 605.13 Discharge location for refrigeration machinery room ventilation. Treatment systems for exhaust from mechanical ventilation systems serving refrigeration machinery rooms containing flammable, toxic or highly toxic refrigerants, other than ammonia, capable of exceeding 25% of the LFL or 50% of the IDLH shall be maintained in accordance with the applicable building code.

Exception: Refrigeration systems containing Group A2L complying with Section 605.17.

~~29~~26. Change Section ~~606.16~~ 605.16 to read:

~~(N)606.16~~ 605.16 Electrical equipment. The hazardous location classification of refrigeration machinery rooms where refrigerants of Groups A2, A3, B2 and B3, as defined in the International Mechanical Code, are used, shall be maintained in accordance with the applicable building code.

27. Change Sections 605.17 through 605.17.2 to read:

605.17 Special requirements for Group A2L refrigerant machinery rooms. Machinery rooms with systems containing Group A2L refrigerants shall comply with Sections 605.17.1 through 605.17.2.

605.17.1 Refrigerant detection system. Refrigerant detection systems in machinery rooms shall be maintained in accordance with the applicable building code.

605.17.2 Emergency ventilation system. Emergency ventilation systems shall be maintained in accordance with the applicable building code.

28. Delete Table 605.17.2 and Section 605.17.3.

~~F.~~ E. The following changes shall be made to Section 607, Elevator Operation, Maintenance and Fire Service Keys:

1. Change Section ~~607.1~~ 606.1 to read:

~~607.1~~ 606.1 Operation. Existing elevators with a travel distance of 25 feet (7620 mm) or more shall comply with the requirements of Section 607.5 and the USBC, Part III, Maintenance.

2. Change Section ~~607.2~~ 606.2 to read:

~~607.2~~ 606.2 Standby power. In buildings and structures where standby power is required or furnished to operate an elevator, standby power shall be maintained in accordance with Section 604. Operation of the system shall be in accordance with Sections ~~607.2.1~~ 606.2.1 through ~~607.2.4~~ 606.2.4.

3. Change Section ~~607.2.4~~ 606.2.4 to read:

~~607.2.4~~ 606.2.4 Machine room ventilation. Where standby power is connected to elevators, the machine room ventilation or air conditioning shall remain connected to the standby power source in accordance with the applicable building code.

4. Change Section ~~607.4~~ 606.4 to read:

~~607.4~~ 606.4 Fire service access elevator lobbies. Where fire service access elevators are required by the applicable building code, fire service access elevator lobbies shall be maintained free of storage and furniture.

5. Change Section ~~607.5~~ 606.5 to read:

~~607.5~~ 606.5 Occupant evacuation elevator lobbies. Where occupant evacuation elevators are provided in under the applicable building code, occupant evacuation elevator lobbies shall be maintained free of storage and furniture.

6. Change Section ~~607.6~~ 606.6 to read:

~~607.6~~ 606.6 Water protection of hoistway enclosures. Methods to prevent water from infiltrating into a hoistway enclosure required by the applicable building code shall be maintained.

~~G.~~ F. The following changes shall be made to Section 608, Storage Battery Systems:

1. ~~Change Section 608.1 to read:~~

~~608.1 Scope. Stationary storage battery systems having an electrolyte capacity of more than 50 gallons (189 L) for flooded lead-acid, nickel cadmium (Ni-Cd), and valve-regulated lead-acid (VRLA) or more than 1,000 pounds (454 kg) for lithium-ion and lithium metal polymer used for facility standby power, emergency power, or uninterruptible power supplies shall comply with this section and Table 608.1 when required by the applicable building code.~~

~~2. Change Section 608.4 to read:~~

~~608.4 Room design and construction. Enclosure of stationary battery systems shall comply with the applicable building code. Battery systems shall be allowed to be in the same room with the equipment they support.~~

~~3. Change Section 608.6.1 to read:~~

~~(N)608.6.1 Room ventilation. Ventilation shall be maintained in accordance with the applicable building code.~~

~~4. Change Section 608.6.2 to read:~~

~~(N)608.6.2 Cabinet ventilation. Where VRLA batteries are installed inside a cabinet, the cabinet shall be approved for use in occupied spaces and shall be mechanically or naturally vented in accordance with one of the following methods:~~

~~1. The cabinet ventilation shall limit the maximum concentration of hydrogen to 1% of the total volume of the cabinet during the worst-case event of simultaneous "boost" charging of all the batteries in the cabinet.~~

~~2. Where calculations are not available to substantiate the ventilation rate, continuous ventilation shall be provided at a rate of not less than 1 cubic foot per minute per square foot 1 $ft^3/min/ft^2$ or 0.0051 $m^3/(sm^2)$ of floor area covered by the cabinet. The room in which the cabinet is installed shall be ventilated as required in Section 608.6.1.~~

~~5. Change Section 608.6.3 to read:~~

~~(N)608.6.3 Supervision. Mechanical ventilation systems where required by Sections 608.6.1 and 608.6.2 shall be supervised by an approved central, proprietary, or remote station service or shall initiate an audible and visual signal at a constantly attended onsite location when required by the applicable building code.~~

~~6. Change Section 608.8 to read:~~

~~(N)608.8 Seismic protection. Seismic protection required for battery systems shall be maintained in accordance with the applicable building code.~~

~~7. Change Section 608.9 to read:~~

~~(N)608.9 Smoke detection. Automatic smoke detection system shall be maintained in accordance with Chapter 9 in rooms containing stationary battery systems.~~

~~H.~~ G. The following changes shall be made to Section ~~609~~ 607, Commercial Kitchen Hoods:

1. Change Section ~~609.1~~ 607.1 to read:

~~609.1~~ 607.1 General. Commercial kitchen exhaust hoods shall comply with the requirements of this Section.

2. Change Section ~~609.2~~ 607.2 to read:

~~(N)609.2~~ 607.2 Where required. A Type I hood shall be installed at or above all commercial cooking appliances and domestic cooking appliances used for commercial purposes that produce grease vapors in mobile food preparation vehicles.

Exception: A Type I hood shall not be required for an electric cooking appliance where an approved testing agency provides documentation that the appliance effluent contains 5 mg/m^3 or less of grease when tested at an exhaust flow rate of 500 cfm (0.236 m^3/s) in accordance with UL 710B.

3. Change Section ~~609.3.3.3~~ 607.3.3.3 to read:

~~609.3.3.3~~ 607.3.3.3 Records. Records for inspections shall state the individual and company performing the inspection, a description of the inspection, and when the inspection took place. Records for cleanings shall state the individual and company performing the cleaning and when the cleaning took place. Such records shall be completed after each inspection or cleaning and maintained for a minimum of three years and be copied to the fire code official upon request.

4. Change Section ~~609.3.3.3.1~~ 607.3.3.3.1 to read:

~~609.3.3.3.1~~ 607.3.3.3.1 Tags. Where a commercial kitchen hood or duct system is inspected or cleaned, a tag containing the service provider name, address, telephone number and date of service shall be provided in a conspicuous location. Prior tags shall be covered or removed.
Exception: Where records required by Section ~~609.3.3.3~~ 607.3.3.3 are maintained on the premises.

~~I.~~ H. The following change shall be made to Section ~~610~~ 608, Commercial Kitchen ~~Hoods~~ Cooking Oil Storage:

Change Section ~~610.7~~ 608.7 to read:

~~(N)610.7~~ 608.7 Electrical equipment. Electrical equipment used for the operation of cooking oil storage systems shall ~~comply~~ be maintained in accordance with NFPA 70.

13VAC5-51-133.8. ~~Ifc~~ IFC Chapter 7 Fire and Smoke Protection Features.

A. The following changes shall be made to Section 701, General:

1. Change Section 701.1 to read:

701.1 Scope. The provisions of this chapter shall govern maintenance of the materials, systems, and assemblies used for structural fire resistance and fire-resistance-rated construction separation of adjacent spaces to safeguard against the spread of fire and smoke within a building and the spread of fire to or from buildings.

2. Change Section ~~701.2~~ 701.6 and 701.7 to read:

701.6 Maintenance. The required fire-resistance rating of fire-resistance-rated construction, including walls, firestops, shaft enclosures, partitions, smoke barriers, floors, fire-resistive coatings, and sprayed fire-resistant materials applied to structural members and fire-resistant joint systems, shall be maintained. Such elements shall be visually inspected by the owner annually and properly repaired, restored, or replaced where damaged, altered, breached, or penetrated. Records of inspections and repairs shall be maintained. Where concealed, such elements shall not be required to be visually inspected by the owner unless the concealed space is accessible by the removal or movement of a panel, access door, ceiling tile, or similar movable entry to the space. Openings made therein for the passage of pipes, electrical conduit, wires, ducts, air transfer openings, and holes made for any reason shall be protected with approved methods capable of resisting the passage of smoke and fire. Openings through fire-resistance-rated assemblies shall be protected by self-closing or automatic-closing doors of approved construction meeting the fire protection requirements for the assembly.

~~701.2~~ 701.7 Unsafe conditions. Where any components in this chapter are not maintained and do not function as intended or do not have the fire resistance required by the code under which the building was constructed, remodeled or altered, such components or portion thereof shall be deemed an unsafe condition in accordance with Section 110.1.1. Components or portions thereof determined to be unsafe shall be repaired or replaced to conform to that code under which the building was constructed, remodeled, or altered or this chapter, as deemed appropriate by the fire code official.

Where the extent of the conditions of components is such that any building, structure, or portion thereof presents an imminent danger to the occupants of the building, structure, or portion thereof, the fire code official shall act in accordance with Section 110.5.

B. The following changes shall be made to Section 703, Fire-Resistance-Rated Construction:

1. ~~Change Section 703.1 to read:~~

~~703.1 Maintenance. The required fire-resistance rating of fire-resistance-rated construction, including walls, firestops, shaft enclosures, partitions, smoke barriers, floors, fire-resistive coatings, and sprayed fire-resistant materials applied to structural members and fire-resistant joint systems, shall be maintained. Such elements shall be visually inspected by the owner annually and properly repaired, restored, or replaced where damaged, altered, breached, or penetrated. Records of inspections and repairs shall be maintained. Where concealed, such elements shall not be required to be visually inspected by the owner unless the concealed space is accessible by the removal or movement of a panel, access door, ceiling tile, or similar movable entry to the space. Openings made therein for the passage of pipes, electrical conduit, wires, ducts, air transfer openings, and holes made for any reason shall be protected with approved methods capable of resisting the passage of smoke and fire. Openings through fire-resistance-rated assemblies shall be protected by self-closing or automatic-closing doors of approved construction meeting the fire protection requirements for the assembly.~~

~~Exception: When requested by the building owner and approved by the fire official, the visual inspection required by 703.1 may be modified to a time period greater than annually based on the history of the previous inspections.~~

~~2. Change Section 703.1.1 to read:~~

~~703.1.1 Fireblocking and draftstopping. Required fireblocking and draftstopping in combustible concealed spaces shall be maintained to provide continuity and integrity of the construction.~~

~~3. Change Section 703.2.1 to read:~~

~~703.2.1 Testing. Opening protectives shall be inspected and tested annually in accordance with NFPA 80 to confirm proper operation and full closure. A written record shall be maintained and be available to the fire code official.~~

~~4. Change Section 703.2.2 to read:~~

~~703.2.2 Signs. Where required by the fire code official, a sign shall be permanently displayed on or near each fire door in letters not less than 1 inch (25 mm) high to read as follows:~~

~~1. For doors designed to be kept normally open: FIRE DOOR – DO NOT BLOCK.~~

~~2. For doors designed to be kept normally closed: FIRE DOOR – KEEP CLOSED.~~

~~5. Change Section 703.2.3 to read:~~

~~703.2.3 Hold-open devices and closers. Hold-open devices and automatic door closers, where provided, shall be maintained. During the period that such device is out of service for repairs, the door it operates shall remain in the closed position.~~

~~6. Add new Section 703.2.4 to read:~~

~~703.2.4 Door operation. Swinging fire doors shall close from the full-open position and latch automatically. The door closer shall exert enough force to close and latch the door from any partially-open position.~~

C. The following changes shall be made to Section 704, ~~Floor Openings and Shafts~~ Joints and Voids:

1. ~~Change Section 704.1 to read:~~

~~704.1 Enclosure. New floor openings in existing buildings shall comply with the International Building Code.~~

~~2.~~ Change Section 704.2 to read:

~~(N)~~ 704.2 Opening protectives. Where openings are required to be protected, opening protectives and associated closing devices shall be maintained as self-closing or automatic-closing.

D. The following changes shall be made to Section 705, Door and Window Openings:

1. Change Section 705.2.2 to read:

705.2.2 Signs. Where required by the fire code official, a sign shall be permanently displayed on or near each fire door in letters not less than 1 inch (25 mm) high to read as follows:

For doors designed to be kept normally open: FIRE DOOR—DO NOT BLOCK.

For doors designed to be kept normally closed: FIRE DOOR—KEEP CLOSED.

2. Change Section 705.2.3 to read:

705.2.3 Hold-open devices and closers. Hold-open devices and automatic door closers, where provided, shall be maintained. During the period that such device is out of service for repairs, the door it operates shall remain in the closed position.

3. Change Section 705.2.4 to read:

705.2.4 Door operation. Swinging fire door operations shall be maintained in accordance with the applicable building code.

4. Change Section 705.2.5 to read:

705.2.5 Smoke- and Heat-activated doors. Smoke-activated doors shall be maintained to self-close or automatically close upon detection of smoke in accordance with the applicable building code.

5. Change Section 705.2.6 to read:

705.2.6 Testing. Opening protectives shall be inspected and tested annually in accordance with NFPA 80 to confirm proper operation and full closure. A written record shall be maintained and be available to the fire code official.

E. The following change shall be made to Section 707, Concealed Spaces:

1. Change Section 707.1 to read:

707.1 Fireblocking and draftstopping. Required fireblocking and draftstopping in combustible concealed spaces shall be maintained to provide continuity and integrity of the construction.

13VAC5-51-134. ~~Ifc~~ IFC Chapter 8 Interior Finish, Decorative Materials and Furnishings.

A. Change Section 801.1 to read:

801.1 Scope. The provisions of this chapter shall govern interior finish, interior trim, furniture, furnishings, decorative materials and decorative vegetation in buildings.

B. Change the title of Section 803 and Section 803.1 to read:

Section 803 Interior Wall and Ceiling Finish and Trim in Buildings

~~(N)~~803.1 General. The provisions of this section shall apply to the maintenance of interior wall and ceiling finishes and interior wall and ceiling trim in existing buildings in accordance with the applicable building code.

C. ~~Delete~~ Change Section 803.1.1 to read.

~~D. Change Section 803.1.2 to read:~~

~~(N)803.1.2~~ 803.1.1 Classification. Interior wall or ceiling finishes shall be classified and tested in accordance with the applicable building code.

~~E.~~ D. Delete Section ~~803.1.2.1~~ 803.1.1.1.

E. Delete Sections 803.1.2 and 803.1.3.

F. Change Sections 803.2 and 803.3 to read:

~~(N)~~803.2 Stability. Interior finish materials regulated by this chapter shall be applied or otherwise fastened in accordance with the applicable building code.

~~(N)~~803.3 Interior finish requirements. Interior wall and ceiling finish shall have a flame spread index not greater than that approved under the applicable building code.

G. Delete Table 803.3.

H. Change Section 803.5 to read:

~~(N)~~803.5 Textiles. Where used as interior wall or ceiling finish materials, textiles, including materials having woven or nonwoven, napped, tufted, looped or similar surface, shall comply with the requirements of the applicable building code.

I. Delete Sections 803.5.1, ~~and~~ 803.5.1.1, 803.5.2 and 803.6.

J. Change Sections ~~803.5.2 through~~ 803.7, 803.8, 803.10, 803.11 and 803.12 to read:

~~(N)803.5.2 Newly introduced textile wall and ceiling coverings. Newly introduced textile wall and ceiling coverings shall be approved by the building official.~~

~~(N)803.6~~ 803.7 Expanded vinyl wall ~~or ceiling~~ coverings. Expanded vinyl wall ~~or ceiling coverings~~ shall be maintained in accordance with the applicable building code.

~~(N)803.7 Facings or wood veneers intended to be applied on site over a wood substrate. Facings or veneers intended to be applied on site over a wood substrate shall be maintained in accordance with the applicable building code.~~

~~(N)803.8 Foam plastic materials. Foam plastic materials shall not be used as interior wall and ceiling finish unless specifically allowed by the applicable building code.~~

803.8 Expanded vinyl ceiling coverings. Expanded ceiling coverings shall be maintained in accordance with the applicable building code.

803.10 Site-fabricated stretch systems. Where used as newly installed interior wall or interior ceiling finish materials, site-fabricated stretch systems containing all three components described in the definition in Chapter 2 shall be tested in accordance with the applicable building code.

803.11 Foam plastic materials. Foam plastic materials shall not be used as interior wall and ceiling finish unless specifically allowed by the applicable building code.

K. Delete Sections 803.11.1 through 803.11.2 and change Section 803.12 to read:

803.12 Facings or wood veneers intended to be applied on site over a wood substrate. Facings or veneers intended to be applied on site over a wood substrate shall be maintained in accordance with the applicable building code.

~~K. Delete Sections 803.8.1 through 803.8.3.~~

L. Change ~~Section 803.10,~~ the title of Section 804, and Section 804.1 to read:

~~(N)803.10 Site-fabricated stretch systems. Where used as newly installed interior wall or interior ceiling finish materials, site-fabricated stretch systems containing all three components described in the definition in Chapter 2 shall be tested in accordance with the applicable building code.~~

Section 804 Interior Wall and Ceiling Trim and Interior Floor Finish in Buildings

~~(N)~~804.1 Interior trim. Material, other than foam plastic, used as interior trim shall be maintained in accordance with the applicable building code.

M. Delete ~~Section~~ Sections 804.1.1 and 804.1.2.

N. Change Sections 804.2 to read:

~~(N)~~804.2 Foam plastic. Foam plastic used as interior trim shall be maintained in accordance with the applicable building code.

O. Delete Sections 804.2.1 through 804.2.4.

P. Change Sections 804.3 through 804.4 to read:

~~(N)~~804.3 Interior floor finish. Interior floor finish and floor covering materials shall be maintained in accordance with the applicable building code.

~~(N)~~804.3.1 Classification. Interior floor finish and floor covering materials shall be classified in accordance with the applicable building code.

~~(N)~~804.3.2 Testing and identification. Interior floor finish and floor covering materials shall be tested in accordance with the applicable building code.

~~(N)~~804.3.3 Interior floor finish requirements. Interior floor coverings materials shall comply with Sections 804.3.3.1 and 804.3.3.2, and interior floor finish materials shall comply with Section 804.3.1.

~~(N)~~804.3.3.1 Testing. Floor covering material shall be testing in accordance with the applicable building code.

~~(N)~~804.3.3.2 Minimum critical radiant flux. In all occupancies, new interior floor finish and floor covering materials in enclosures for stairways and ramps, exit passageways, corridors and rooms or spaces not

separated from corridors by full-height partitions extending from the floor to the underside of the ceiling shall withstand a minimum critical radiant flux as required by the applicable building code.

~~(N)~~804.4 Interior floor-wall base. Interior floor-wall base shall be maintained in accordance with the applicable building code.

Q. Change the title of Section 805, and Sections 805.1.1.2, 805.1.2.2, 805.2.1.2, 805.2.2.2, 805.4.1.2 and 805.4.2.2 to read:

Section 805 Upholstered Furniture and Mattresses in Buildings

805.1.1.2 Heat release rate. Newly introduced upholstered furniture shall have limited rates of heat release when tested in accordance with ASTM E 1537 or California Technical Bulletin 133, as follows:

1. The peak rate of heat release for the single upholstered furniture item shall not exceed 80 kW.

Exception: Upholstered furniture in rooms or spaces protected by an approved automatic sprinkler system in accordance with the applicable NFPA 13 standard.

2. The total energy released by the single upholstered furniture item during the first 10 minutes of the test shall not exceed 25 megajoules (MJ).

Exception: Upholstered furniture in rooms or spaces protected by an approved automatic sprinkler system installed in accordance with the applicable NFPA 13 standard.

805.1.2.2 Heat release rate. Newly introduced mattresses shall have limited rates of heat release when tested in accordance with ASTM E 1590 or California Technical Bulletin 129, as follows:

1. The peak rate of heat release for the single mattress shall not exceed 100 kW.

Exception: Mattresses in rooms or spaces protected by an approved automatic sprinkler system installed in accordance with the applicable NFPA 13 standard.

2. The total energy released by the single mattress during the first 10 minutes of the test shall not exceed 25 MJ.

Exception: Mattresses in rooms or spaces protected by an approved automatic sprinkler system installed in accordance with the applicable NFPA 13 standard.

805.2.1.2 Heat release rate. Newly introduced upholstered furniture shall have limited rates of heat release when tested in accordance with ASTM E 1537 or California Technical Bulletin 133, as follows:

1. The peak rate of heat release for the single upholstered furniture item shall not exceed 80 kW.

Exception: Upholstered furniture in rooms or spaces protected by an approved automatic sprinkler system in accordance with the applicable NFPA 13 standard.

2. The total energy released by the single upholstered furniture item during the first 10 minutes of the test shall not exceed 25 MJ.

Exception: Upholstered furniture in rooms or spaces protected by an approved automatic sprinkler system installed in accordance with the applicable NFPA 13 standard.

805.2.2.2 Heat release rate. Newly introduced mattresses shall have limited rates of heat release when tested in accordance with ASTM E 1590 or California Technical Bulletin 129, as follows:

1. The peak rate of heat release for the single mattress shall not exceed 100 kW.

Exception: Mattresses in rooms or spaces protected by an approved automatic sprinkler system in accordance with the applicable NFPA 13 standard.

2. The total energy released by the single mattress during the first 10 minutes of the test shall not exceed 25 MJ.

Exception: Mattresses in rooms or spaces protected by an approved automatic sprinkler system in accordance with the applicable NFPA 13 standard.

805.4.1.2 Heat release rate. Newly introduced upholstered furniture shall have limited rates of heat release when tested in accordance with ASTM E 1537 or California Technical Bulletin 133, as follows:

1. The peak rate of heat release for the single upholstered furniture item shall not exceed 80 kW.

Exception: Upholstered furniture in rooms or spaces protected by an approved automatic sprinkler system installed in accordance with the applicable NFPA 13 standard.

2. The total energy released by the single upholstered furniture item during the first 10 minutes of the test shall not exceed 25 MJ.

Exception: Upholstered furniture in rooms or spaces protected by an approved automatic sprinkler system installed in accordance with the applicable NFPA 13 standard.

805.4.2.2 Heat release rate. Newly introduced mattresses shall have limited rates of heat release when tested in accordance with ASTM E 1590 or California Technical Bulletin 129, as follows:

1. The peak rate of heat release for the single mattress shall not exceed 100 kW.

Exception: Mattresses in rooms or spaces protected by an approved automatic sprinkler system installed in accordance with the applicable NFPA 13 standard.

2. The total energy released by the single mattress during the first 10 minutes of the test shall not exceed 25 MJ.

Exception: Mattresses in rooms or spaces protected by an approved automatic sprinkler system installed in accordance with the applicable NFPA 13 standard.

R. Change the title of Section 806, change Exception 1 and add ~~exception~~ Exception 3 in Section 806.1.1 to read:

Section 806 Decorative Vegetation in Buildings

1. Trees located in areas protected by an automatic sprinkler system in accordance with the applicable NFPA 13 standard.

3. Trees shall be permitted in places of worship in Group A occupancies.

S. Change the title of Section 807 a~~nd exception 1 in Section 807.3~~ and Exceptions 1 and 2 of Section 807.2 to read:

Section 807 Decorative Materials Other Than Decorative Vegetation in Buildings

~~1. In auditoriums in Group A, the permissible amount of curtains, draperies, fabric hangings and other similar combustible decorative material suspended from walls or ceilings shall not exceed 75% of the aggregate wall area where the building is equipped throughout with an approved automatic sprinkler system in accordance with the applicable NFPA 13 standard and where the material is installed in accordance with of the applicable building code.~~

1. In auditoriums in Group A, the permissible amount of curtains, draperies, fabric hangings and similar combustible decorative material suspended from walls or ceilings shall not exceed 75 percent of the aggregate wall area where the building is equipped throughout with an approved automatic sprinkler system in accordance with the applicable building code, and where the material is installed in accordance with Section 803.15 of the International Building Code.

2. In Group R-2 dormitories, within sleeping units and dwelling units, the permissible amount of curtains, draperies, fabric hangings and similar decorative materials suspended from walls or ceilings shall not exceed 50 percent of the aggregate wall areas where the building is equipped throughout with an approved automatic sprinkler system installed in accordance with the applicable NFPA 13 standard.

T. Change ~~exception~~ Exceptions 1 and 2 in Section 807.3 to read:

1. In auditoriums in Group A, the permissible amount of curtains, draperies, fabric hangings and other similar combustible decorative material suspended from walls or ceilings shall not exceed 75% of the aggregate wall area where the building is equipped throughout with an approved automatic sprinkler system in accordance with the applicable NFPA 13 standard and where the material is installed in accordance with of the applicable building code.

2. In dwelling units or sleeping rooms in Group R-2 dormitories, the permissible amount of decorative material suspended from or attached to the walls shall not exceed 50% of the aggregate area of the walls where the building has an approved automatic sprinkler system or 20% of the aggregate area of the walls where approved smoke alarms are provided and in the corridors of such buildings, the permissible amount of decorative material suspended from or attached to the walls shall not exceed 10% of the aggregate area of the walls.

U. Change Exception to 807.4 to read:

Exception: Testing of artificial vegetation is not required in Group I-1; Group I-2, Condition 1; Group R-2; Group R-3; or Group R-4 occupancies equipped throughout with an *approved automatic sprinkler system* installed in accordance with the applicable NFPA 13 standard, where such artificial vegetation complies with the following:

1. Wreaths and other decorative items on doors shall not obstruct the door operation and shall not exceed 50 percent of the surface area of the door.

2. Decorative artificial vegetation shall be limited to not more than 30 percent of the wall area to which it is attached.

3. Decorative artificial vegetation not on doors or walls shall not exceed 3 feet (914 mm) in any dimension.

V. Change Section 807.5.1.2 and 807.5.2.1 to read:

807.5.1.2 Motion picture screens. The screens upon which motion pictures are projected in buildings of Group A shall either meet the flame propagation performance criteria of Test Method 1 or Test Method 2, as appropriate, of NFPA 701 or shall comply with the requirements for a Class B interior finish in accordance with the applicable building code.

~~V. Change Section 807.5.2.1 to read:~~

807.5.2.1 Storage in corridors and lobbies. Clothing and personal effects shall not be stored in corridors and lobbies.

Exceptions:

1. Corridors protected by an approved automatic sprinkler system in accordance with the applicable NFPA 13 standard.

2. Corridors protected by an approved fire alarm system installed in accordance with NFPA 72.

3. Storage in metal lockers, provided the minimum required egress width is maintained.

W. Change Sections 807.5.3.1 through 807.5.3.4 to read:

807.5.3.1 Group I-1 and Group I-2 Condition 1 within units. In Group I-1 and Group I-2 Condition 1 occupancies, equipped with an approved automatic sprinkler system in accordance with the applicable NFPA 13 standard, within sleeping units and dwelling units, combustible decorative materials placed on walls shall be limited to not more than 50% of the wall area to which they are attached.

807.5.3.2 In Group I-1 and Group I-2 Condition 1 for areas other than within units. In Group I-1 and Group I-2 Condition 1 occupancies, equipped with an approved automatic sprinkler system installed in accordance with the applicable NFPA 13 standard, combustible decorative materials placed on walls in areas other than within dwelling and sleeping units shall be limited to not more than 30% of the wall area to which they are attached.

807.5.3.3 In Groups I-2 Condition 2. In Group I-2 Condition 2 occupancies, equipped with an approved automatic sprinkler system installed in accordance with the applicable NFPA 13 standard, combustible decorative materials placed on walls shall be limited to not more than 30% of the wall area to which they are attached.

807.5.3.4 Other areas in Groups I-1 and I-2. In Group I-1 and I-2 occupancies, in areas not equipped with an approved automatic sprinkler system, combustible decorative materials shall be of such limited quantities that a hazard of fire development or spread is not present.

X. Change Section 807.5.5.1 to read:

807.5.5.1 Storage in corridors and lobbies. Clothing and personal effects shall not be stored in corridors and lobbies.

Exceptions:

1. Corridors protected by an approved automatic sprinkler system in accordance with the applicable NFPA 13 standard.

2. Corridors protected by an approved fire alarm system installed in accordance with Section 907.

3. Storage in metal lockers, provided the minimum required egress width is maintained.

Y. Change the title of Section 808 and Sections 808.1, ~~and~~ 808.2 and 808.4 to read:

Section 808 Furnishings Other Than Upholstered Furniture and Mattresses or Decorative Materials in Buildings

808.1 Wastebaskets and linen containers in Groups I-1, I-2, and I-3 occupancies and Group B ambulatory care facilities. Wastebaskets, linen containers, and other waste containers, including their lids, located in Groups I-1, I-2, and I-3 occupancies shall be constructed of noncombustible materials or of materials that meet a peak rate of heat release not exceeding 300 kW/m^2 when tested in accordance with ASTM E 1354 at an incident heat flux of 50 kW/m^2 in the horizontal orientation. Metal wastebaskets and other metal waste containers with a capacity of 20 gallons (75.7 L) or more shall be listed in accordance with UL 1315 and shall be provided with a noncombustible lid. Portable containers exceeding 32 gallons (121 L) shall be stored in an area classified as a waste and linen collection room and constructed in accordance with the applicable building code.

808.2 Waste containers with a capacity of 20 gallons or more in Group R-2 college and university dormitories. Waste containers, including their lids, located in Group R-2 college and university dormitories, and with a capacity of 20 gallons (75.7 L) or more, shall be constructed of noncombustible materials or of materials that meet a peak rate of heat release not exceeding 300 kW/m^2 when tested in accordance with ASTM E 1354 at an incident heat flux of 50 kW/m^2 in the horizontal orientation. Metal wastebaskets and other metal waste containers with a capacity of 20 gallons (75.7 L) or more shall be listed in accordance with UL 1315 and shall be provided with a noncombustible lid. Portable containers exceeding 32 gallons (121 L) shall be stored in an area classified as a waste and linen collection room constructed in accordance with the applicable building code.

808.4 Combustible lockers. Where lockers constructed of combustible materials are used, the lockers shall be considered to be interior finish and shall comply with Section 803.

Exception: Lockers constructed entirely of wood and noncombustible materials shall be permitted to be used wherever interior finish materials are required to meet a Class C classification in accordance with the applicable building code.

13VAC5-51-135. ~~Ifc~~ IFC Chapter 9 Fire Protection Systems.

A. The following changes shall be made to Section 901, General:

1. Change Section 901.1 to read:

901.1 Scope. The provisions of this chapter shall apply to the inspection, operation, testing and maintenance of all fire protection systems.

2. Delete Sections 901.2 and 901.2.1.

3. Change Section 901.3 to read:

901.3 Permits. Permits shall be required as set forth in Section 107.2.

4. Change Sections 901.4 and 901.4.1 to read:

~~(N)~~901.4 Maintenance and alterations. Fire protection systems shall be maintained in accordance with the original installation standards for that system. Alterations and repairs to fire protection systems shall be done in accordance with the applicable building code and the applicable standards.

~~(N)~~901.4.1 Required fire protection systems. Fire protection systems shall be repaired, operated, tested and maintained in accordance with this code. A fire protection system for which a design option, exception or reduction to the provisions of this code or the applicable building code has been granted shall be considered to be a required system.

5. Change Section 901.4.2 to read:

901.4.2 Nonrequired fire protection systems. Nonrequired fire protection systems shall be maintained to function as originally installed. If any such systems are to be reduced in function or discontinued, approval shall be obtained from the building official in accordance with Section ~~103.8.1~~ 103.3.1 of Part I of the USBC.

6. Change Section 901.4.3 to read:

~~(N)~~901.4.3 Fire areas. Where buildings, or portions thereof, are divided into fire areas so as not to exceed the limits established for requiring a fire protection system in accordance with the applicable building code, such fire areas shall be maintained.

7. Delete Section 901.4.4.

8. Change ~~Section~~ Sections 901.4.6, 901.4.6.3 and 901.4.6.4 to read:

~~(N)~~901.4.6 Pump and riser room size. Where provided, fire pump rooms and automatic sprinkler system riser rooms shall maintain clearances around equipment to elements of permanent construction, including other installed equipment and appliances, and shall be sufficient to allow inspection, service, repair or replacement without removing such elements of permanent construction or disabling the function of a required fire-resistance-rated assembly. Passageways provided for the removal of equipment shall remain unobstructed.

901.4.6.3 Environment. Suitable means shall be provided for maintaining the temperature in automatic sprinkler system riser rooms and fire pump rooms above 40°F (5°C).

901.4.6.4 Lighting. Permanently installed artificial illumination in automatic sprinkler system riser rooms and fire pump rooms shall be maintained in accordance with the applicable building code.

9. Delete Section 901.5.1.

10. ~~Change~~ Add Section 901.5.2 to read:

901.5.2 Hydrant and fire service main acceptance testing. Fire hydrant systems and private fire service mains shall be subject to acceptance tests as contained in the installation standards and as approved by the fire code official. The fire code official shall be notified before any required acceptance testing.

11. Change Section 901.6 to read:

901.6 Inspection, testing and maintenance. To the extent that equipment, systems, devices, and safeguards, such as fire detection, alarm and extinguishing systems, which were provided and approved by the building official when constructed, shall be maintained in an operative condition at all times. And where such equipment, systems, devices, and safeguards are found not to be in an operative condition, the fire official shall order all such equipment to be rendered safe in accordance with the USBC.

12. Change Sections 901.7.1 through 901.7.6 and add Section 901.7.7 to read:

901.7.1 Modifications during impairment. The fire code official is authorized to require safeguards in a building or fire area when the required fire protection is out of service. Those safeguards may be based upon the provisions of the applicable building code or other recognized safety standards.

901.7.2 Impairment coordinator. The building owner shall assign an impairment coordinator to comply with the requirements of this section. In the absence of a specific designee, the owner shall be considered the impairment coordinator.

901.7.3 Tag required. A tag shall be used to indicate that a system or portion thereof has been removed from service.

901.7.4 Placement of tag. The tag shall be posted at each fire department connection, system control valve, fire alarm control unit, fire alarm annunciator and fire command center indicating which system or part thereof has been removed from service. The fire code official shall specify where the tag is to be placed.

901.7.5 Preplanned impairment programs. Preplanned impairments shall be authorized by the impairment coordinator. Before authorization is given, a designated individual shall be responsible for verifying that all of the following procedures have been implemented:

1. The extent and expected duration of the impairment have been determined.

2. The areas or buildings involved have been inspected and the increased risks determined.

3. Recommendations have been submitted to management or the building owner or manager.

4. The fire department has been notified.

5. The insurance carrier, the alarm company, the building owner or manager and other authorities having jurisdiction have been notified.

6. The supervisors in the areas to be affected have been notified.

7. A tag impairment system has been implemented.

8. Necessary tools and materials have been assembled on the impairment site.

901.7.6 Emergency impairments. Where unplanned impairments occur, appropriate emergency action shall be taken to minimize potential injury and damage. The impairment coordinator shall implement the steps outlined in Section 901.7.4.

901.7.7 Restoring systems to service. When impaired equipment is restored to normal working order, the impairment coordinator shall verify that all of the following procedures have been implemented:

1. Necessary inspections and tests have been conducted to verify that affected systems are operational.

2. Supervisors have been advised that protection is restored.

3. The fire department has been advised that protection is restored.

4. The building owner or manager, insurance carrier, alarm company and other involved parties have been advised that protection is restored.

5. The impairment tag has been removed.

13. Change Section 901.8 to read:

901.8 Removal of or tampering with equipment. It shall be unlawful for any person to remove, tamper with, or otherwise disturb any fire hydrant, fire detection and alarm system, fire suppression system, or other fire appliance required by this code or the applicable building code except for the purpose of extinguishing fire, for training purposes, for recharging or making necessary repairs, or where approved by the fire code official.

14. Change Section 901.8.2 to read:

901.8.2 Removal of existing occupant-use hose lines. The fire code official is authorized to permit the removal of existing occupant-use hose lines where all of the following conditions exist:

1. Installation is not required by this code or the applicable building code.

2. The hose line would not be utilized by trained personnel or the fire department.

3. The remaining outlets are compatible with local fire department fittings.

15. Add Section 901.11 to read:

901.11 Defective equipment. When the fire official determines through investigation or testing or reports by a nationally recognized testing agency that specific, required water sprinkler or water-spray extinguishing equipment has been identified as failing to perform or operate through not less than 30

randomly selected sprinkler heads at four or more building sites anywhere in the nation, the fire official shall order all such equipment to be rendered safe.

B. The following changes shall be made to Section 903, Automatic Sprinkler Systems:

1. Delete Sections 903.1.1 through 903.2.11.1.3, including Tables.

2. Change Section 903.2.11.2 to read:

~~(N)~~903.2.11.2 Rubbish and linen chutes. Access to automatic sprinkler systems shall be maintained for servicing of the automatic sprinkler system components.

3. Delete Sections 903.2.11.3 through 903.2.11.6, including Tables.

4. Change Sections 903.2.12 and 903.3 to read:

~~(N)~~903.2.12 During construction and demolition. Automatic sprinkler systems required by the applicable building code during construction, alteration and demolition operations shall be maintained in accordance with Chapter 33.

~~(N)~~903.3 Installation requirements. Automatic sprinkler systems shall be maintained in accordance with the applicable building code.

5. Delete Sections 903.3.1 through 903.3.5.2.

6. Change Sections 903.3.6 to read:

~~(N)~~903.3.6 Hose threads. Fire hose threads and fittings used in connection with automatic sprinkler systems shall be maintained as approved by the fire code official.

7. Delete Sections 903.3.7 through 903.3.8.4.

8. Change Sections 903.3.8.5 to read:

~~(N)~~903.3.8.5 Calculations. When required by inspections, testing, and maintenance provisions of NFPA 25, hydraulic calculations shall be provided to demonstrate that the available water flow and pressure are adequate to supply all sprinklers installed in any single fire area with discharge densities corresponding to the hazard classification.

9. Delete Sections 903.4 through 903.4.3.

10. Change Section 903.6 to read:

903.6 Where required in existing buildings and structures. An automatic sprinkler system shall be provided in existing buildings and structures in accordance with Section 102.7 of this code.

C. The following changes shall be made to Section 904, Alternative Automatic Fire-Extinguishing Systems:

1. Change Sections 904.1 and 904.1.1 to read:

~~(N)~~904.1 General. Automatic fire-extinguishing systems, other than automatic sprinkler systems, shall be inspected, tested and maintained in accordance with the provisions of this section and the applicable referenced standards.

904.1.1 Certification of service personnel for fire-extinguishing equipment. Service personnel providing or conducting maintenance on automatic fire-extinguishing systems, other than automatic sprinkler systems, shall possess a valid certificate issued by an approved agency or other approved organization for the type of system and work performed.

2. Delete Section 904.2 and 904.2.1.

3. Change Sections 904.2.2 and 904.3 to read:

~~(N)~~904.2.2 Commercial hood and duct systems. Each required commercial kitchen exhaust hood and duct system required by Section 319.4 for mobile food preparation vehicles to have a Type I hood shall be protected with an approved automatic fire-extinguishing system installed in accordance with this code.

~~(N)~~904.3 Installation. Automatic fire-extinguishing systems shall be installed in accordance with Annex B of NFPA 96 when required in mobile food preparation vehicles.

4. Delete Sections 904.3.1 through 904.4.3.

5. Change Section 904.5 to read:

904.5 Wet-chemical systems. Wet-chemical extinguishing systems shall be maintained, periodically inspected and tested in accordance with NFPA 17A and their listing. Records of inspections and testing shall be maintained.

6. Change Section 904.6 to read:

904.6 Dry-chemical systems. Dry-chemical extinguishing systems shall be maintained, periodically inspected and tested in accordance with NFPA 17 and their listing. Records of inspections and testing shall be maintained.

7. Change Section 904.7 to read:

904.7 Foam systems. Foam-extinguishing systems shall be maintained, periodically inspected and tested in accordance with NFPA 11 and NFPA 16 and their listing. Records of inspections and testing shall be maintained.

8. Change Section 904.8 to read:

904.8 Carbon dioxide systems. Carbon dioxide extinguishing systems shall be maintained, periodically inspected and tested in accordance with NFPA 12 and their listing. Records of inspections and testing shall be maintained.

9. Change Section 904.9 to read:

904.9 Halon systems. Halogenated extinguishing systems shall be maintained, periodically inspected and tested in accordance with NFPA 12A and their listing. Records of inspections and testing shall be maintained.

10. Change Section 904.10 to read:

904.10 Clean-agent systems. Clean-agent fire-extinguishing systems shall be maintained, periodically inspected and tested in accordance with NFPA 2001 and their listing. Records of inspections and testing shall be maintained.

11. Change Section 904.11 to read:

~~(N)~~904.11 Automatic water mist systems. Automatic water mist systems shall be maintained in accordance with NFPA 25 and the manufacturer's instructions.

12. Delete Sections 904.11.1.1 through 904.11.2.3.

13. Change Sections 904.12 through 904.12.2 to read:

~~(N)~~904.12 Commercial cooking systems. Automatic fire-extinguishing systems for commercial cooking shall comply with this section.

~~(N)~~904.12.1 Manual system operation. Where provided, manual actuation devices shall be maintained as installed in accordance with the applicable building code and shall not be obstructed.

~~(N)~~904.12.2 System interconnection. Where required by the applicable building code, the actuation of the fire extinguishing system shall automatically shut down the fuel or electrical power supply to the cooking equipment. The fuel and electrical supply reset shall be manual.

14. Delete Sections 904.12.3 through 904.12.4.

15. Change Sections 904.12.4.1 to read:

~~(N)~~904.12.4.1 Listed sprinklers. Sprinklers replaced in accordance with NFPA 25, which are used for the protection of fryers, shall be tested in accordance with UL 199E, listed for that application, and installed in accordance with their listing.

16. Change Section ~~904.12.6.1~~ 904.12.5.1to read:

~~(N)904.12.6.1~~ 904.12.5.1 Existing automatic fire-extinguishing systems. Where a change in the cooking media, positioning of cooking equipment, or replacement of cooking equipment occurs in existing commercial cooking systems, the automatic fire-extinguishing system shall be required to comply with the applicable building code.

17. Delete Sections 904.13 through ~~904.13.2~~ 904.13.1.2.

18. Change Section 904.14 to read:

904.14 Aerosol fire-extinguishing systems. Aerosol fire-extinguishing systems shall be periodically inspected, tested and maintained in accordance with Section 901 and NFPA 2010, and in accordance with their listing.

D. The following changes shall be made to Section 905, Standpipe Systems:

1. Change Sections 905.1 and 905.2 to read:

~~(N)~~905.1 General. Standpipe systems shall be inspected, tested and maintained in accordance with the provisions of this section and the applicable referenced standards.

~~(N)~~905.2 Maintenance standard. Standpipe systems shall be maintained in accordance with this section and NFPA 14. Fire department connections for standpipe systems shall be in accordance with Section 912.

2. Delete Sections 905.3 through 905.3.4.

3. Change Sections 905.3.4.1 to read:

~~(N)~~905.3.4.1 Hose and cabinet. Where required by the applicable building code, hose connections shall be equipped with sufficient lengths of 1-1/2-inch (38 mm) hose to provide fire protection for the required area. Hoses shall be equipped with an approved adjustable fog nozzle and be mounted in a cabinet or on a rack.

4. Delete Sections 905.3.5 and 905.3.6.

5. Change Section 905.3.7 to read:

~~(N)~~905.3.7 Marinas and boatyards. Standpipes in marinas and boatyards shall comply with Chapter 36.

6. Delete Sections 905.3.8 through 905.5.2.

7. Change Section 905.5.3 to read:

~~(N)~~905.5.3 Class II system 1-inch hose. A minimum 1-inch (25 mm) hose shall be allowed to be used for hose stations in light-hazard occupancies where investigated and listed for this service and where approved by the fire code official.

8. Delete Sections 905.6 through 905.6.2.

9. Change Sections 905.7 through 905.7.2 to read:

~~(N)~~905.7 Cabinets. Cabinets containing firefighting equipment, such as standpipes, fire hose, fire extinguishers or fire department valves, shall not be blocked from use or obscured from view.

~~(N)~~905.7.1 Cabinet equipment identification. Cabinets shall be identified in an approved manner by a permanently attached sign with letters not less than 2 inches (51 mm) high in a color that contrasts with the background color indicating the equipment contained therein.

Exceptions:

1. Doors not large enough to accommodate a written sign shall be marked with a permanently attached pictogram of the equipment contained therein.

2. Doors that have either an approved visual identification clear glass panel or a complete glass door panel are not required to be marked.

~~(N)~~905.7.2 Locking cabinet doors. Cabinets shall be unlocked.

Exceptions:

1. Visual identification panels of glass or other approved transparent frangible material that is easily broken and allows access.

2. Approved locking arrangements.

3. Group I-3 occupancies.

10. Delete Sections 905.8 and 905.9.

11. Change Section 905.10 to read:

~~(N)~~905.10 During construction. Standpipe systems required during construction and demolition operations shall comply with Chapter 33.

12. Delete ~~Section~~ Sections 905.11 and 905.12.

E. The following changes shall be made to Section 906, Portable Fire Extinguishers:

1. Change Item 1 in Section 906.1 to read:

1. In Group A, B, E, F, H, I, M, R-1, R-4 and S occupancies.

Exceptions:

1. In Groups A, B, and E occupancies equipped throughout with quick response sprinklers, portable fire extinguishers shall be required only in locations specified in Items 2 through 6.

2. In Group I-3 occupancies, portable fire extinguishers shall be permitted to be located at staff locations and the access to such extinguishers shall be permitted to be locked.

2. Add a note to Section 906.1 to read:

Note: In existing buildings, whether fire extinguishers are needed is determined by the USBC or other code in effect when such buildings were constructed.

3. Change Section 906.2.1 to read:

906.2.1 Certification of service personnel for portable fire extinguishers. Service personnel providing or conducting maintenance on portable fire extinguishers shall possess a valid certificate issued by an approved agency, or other approved organization for the type of work performed.

F. The following changes shall be made to Section 907, Fire Alarm and Detection Systems:

1. Change Section 907.1 to read:

907.1 General. This section covers the performance and maintenance of fire alarm systems and their components in buildings and structures.

2. Delete Sections 907.1.1 and 907.1.2.

3. Change Section 907.1.3 to read:

~~(N)~~907.1.3 Equipment. Systems and components not regulated by the applicable building code shall be listed and approved for the purpose for which they are installed.

4. Delete Sections 907.2 through 907.2.6.3.2.

5. Delete Sections 907.2.6.3.3 through ~~907.2.10.3~~ 907.2.9.3.

6. Change Section ~~907.2.11~~ 907.2.10 to read:

~~(N)907.2.11~~ 907.2.10 Single-station and multiple-station smoke alarms. Alarms not required by the applicable building code shall be listed single-station and multiple-station smoke alarms complying with UL 217 and installed in accordance with the manufacturer's instructions and NFPA 72.

7. Delete Sections ~~907.2.11.1~~ 907.2.10.1 through 907.3.1.

8. Change Sections 907.3.2 and 907.3.3 to read:

~~(N)~~907.3.2 ~~Delayed egress locks~~ Special locking systems. Where ~~delayed egress locks~~ special locking systems are installed on means of egress doors, they shall be maintained as installed in accordance with the applicable building code.

~~(N)~~907.3.3 Elevator emergency operation. Automatic fire detectors installed for elevator emergency operation shall be maintained as provided by the applicable building code.

9. Delete Sections 907.3.4 through 907.4.1.

10. Change Section 907.4.2 to read:

~~(N)~~907.4.2 Manual fire alarm boxes. Manual fire alarm boxes or pull stations shall be maintained as provided in accordance with the applicable building code.

11. Delete Sections 907.4.2.1 and 907.4.2.2.

12. Change Sections 907.4.2.3 and 907.4.2.5 to read:

~~(N)~~907.4.2.3 Color. Manual fire alarm boxes shall be maintained as installed unless otherwise approved.

907.4.2.5 Protective covers. The fire code official is authorized to require the installation of listed manual fire alarm box protective covers to prevent malicious false alarms or to provide the manual fire alarm box with protection from physical damage. The protective cover shall be transparent or red in color with a transparent face to permit visibility of the manual fire alarm box. Each cover shall include proper operating instructions. A protective cover that emits a local alarm signal shall not be installed unless approved. Protective covers shall not reduce the required means of egress width.

13. Delete Sections 907.4.3 through 907.5.

14. Change Section 907.5.1 to read:

~~(N)~~907.5.1 Presignal feature. A presignal feature shall not be utilized unless approved by the fire code official and the fire department. Where a presignal feature is provided, a signal shall be annunciated at a constantly attended location approved by the fire department so that occupant notification can be activated in the event of fire or other emergency.

15. Delete Sections 907.5.2 through 907.5.2.2.3.

16. Change Section 907.5.2.2.4 to read:

~~(N)~~907.5.2.2.4 Emergency voice or alarm communication captions. Where stadiums, arenas and grandstands are required to caption audible public announcements in accordance with of the applicable building code, the emergency or voice alarm communication system shall be captioned. Prerecorded or live emergency captions shall be from an approved location constantly attended by personnel trained to respond to an emergency.

17. Delete Sections 907.5.2.2.5 through 907.6.2.

18. Change Section 907.6.3 to read:

~~(N)~~907.6.3 Initiating device identification. The fire alarm systems that identify the specific initiating device address, location, device type, floor level where applicable, and status, including indication of normal, alarm, trouble and supervisory status, shall be maintained as provided in accordance with the applicable building code.

19. Delete Sections 907.6.3.1 through 907.6.4.2.

20. Change Sections 907.6.5 through 907.6.6 to read:

~~(N)~~907.6.5 Access. Access to each fire alarm device and notification appliance for periodic inspection, maintenance and testing shall not be obstructed.

~~(N)~~907.6.6 Monitoring. The monitoring of fire alarm systems required by the applicable building code shall be maintained in accordance with NFPA 72.

21. Delete Sections 907.7 through 907.7.2.

22. Change Section 907.7.3 to read:

907.7.3 Instructions. Operating, testing and maintenance instructions and existing record drawings ("as builts") and equipment specifications shall be provided at an approved location.

23. Change Section 907.8.2 to read:

907.8.2 Testing. Testing shall be performed in accordance with the schedules in Chapter 10 of NFPA 72 or more frequently where required by the fire code official. Where automatic testing is performed at least weekly by a remotely monitored fire alarm control unit specifically listed for the application, the manual testing frequency shall be permitted to be extended to annual. In Group R-1 occupancies, battery-powered single station smoke detectors shall be tested and inspected at one-month intervals.

Exception: Devices or equipment that are inaccessible for safety considerations shall be tested during scheduled shutdowns where approved by the fire code official, but not less than every 18 months.

24. Change Section 907.8.5 to read:

907.8.5 Maintenance, inspection and testing. The building owner shall be responsible for maintaining the fire and life safety systems in an operable condition at all times. Service personnel shall meet the qualification requirements of NFPA 72 for maintaining, inspecting and testing such systems. A written record shall be maintained and shall be made available to the fire code official. In addition to all applicable information contained in Figure 7.8.2 of NFPA 72, the written record of inspections, testing and maintenance shall contain the following minimum information:

1. Date, name and address of property.

2. Name of person performing inspection, maintenance and tests, or combination thereof, and affiliation, business address and telephone number.

3. Name, address and representative of approving agency or agencies.

4. Test frequency.

5. Designation of the detector or detectors tested (for example, "Test performed in accordance with Section _____.").

6. Physical location (for example, "Heat detector in main kitchen; horn-strobe in Room 115.") and a list of all initiating and notification devices and appliances tested.

7. Functional list of detectors and required sequence of operations.

8. Check of all smoke detectors.

9. Loop resistance for all fixed-temperature, line-type detectors.

10. Other tests as required by either the equipment manufacturer's published instructions or the authority having jurisdiction.

11. Signature of tester and approved authority representative.

12. Disposition of problems identified during test (examples, "Owner notified," "Problem corrected or successfully retested, or both," "Device abandoned in place.").

25. Delete Section 907.9.

G. The following changes shall be made to Section 908, Emergency Alarm Systems:
Change Sections 908.1 ~~through 908.7~~ and 908.2 to read:

908.1 Group H occupancies. Emergency alarms for the detection and notification of an emergency condition in Group H occupancies shall be maintained as provided in accordance with the applicable building code.

~~(N)~~908.2 Group H-5 occupancy. Emergency alarms for notification of an emergency condition in a hazardous production material (HPM) facility shall be maintained as provided in accordance with the

applicable building code. Continuous gas detection systems shall be maintained for HPM gases as provided in accordance with the applicable building code.

~~(N)908.3 Highly toxic and toxic materials. Where required by the applicable building code for highly toxic and toxic materials, gas detection systems shall be maintained.~~

~~(N)908.4 Ozone gas generator rooms. Where required by the applicable building code, gas detection systems provided in ozone gas generator rooms shall be maintained.~~

~~(N)908.5 Repair garages. A flammable gas detection system provided in accordance with the applicable building code in repair garages for vehicles fueled by nonodorized gases shall be maintained.~~

~~(N)908.6 Refrigeration systems. Refrigeration system machinery rooms provided with refrigerant detection in accordance with the applicable building code shall be maintained.~~

~~908.7 Carbon dioxide systems. Emergency alarm systems provided in accordance with the applicable building code shall be maintained.~~

H. The following changes shall be made to Section 909, Smoke Control Systems:

1. Change Section 909.1 to read:

~~(N)~~909.1 Scope and purpose. This section applies to the inspection, testing, and maintenance of mechanical or passive smoke control systems. The purpose of these systems to provide a tenable environment for the evacuation or relocation of occupants. These provisions are not intended for the preservation of contents, the timely restoration of operations, or for assistance in fire suppression or overhaul activities.

2. Delete Sections 909.2 through 909.4.5.

3. Change Section 909.4.6 to read:

~~(N)~~909.4.6 Duration of operation. All portions of active or engineered smoke control systems shall be capable of continued operation after detection of the fire event for a period of not less than that required by the applicable building code.

4. Delete Section 909.4.7.

5. Change Section 909.5 to read:

~~(N)~~909.5 Smoke barriers. Smoke barriers required for passive smoke control and smoke control systems using the pressurization method shall be maintained in accordance with Chapter 7 of this code.

6. Delete Sections 909.5.1 and 909.5.2.

7. Change Section 909.5.3 to read:

~~(N)~~909.5.3 Opening protection. Protection of openings in smoke barriers shall be maintained in accordance with Chapter 7.

8. Delete Section 909.5.3.1

9. Change Section 909.5.3.2 to read:

~~(N)~~909.5.3.2 Ducts and air transfer openings. Protection of ducts and air transfer openings shall be maintained in accordance with Chapter 7.

10. Delete Sections 909.6 through 909.10.4.

11. Change Sections 909.10.5 through 909.11.1 to read:

~~(N)~~909.10.5 Fans. Motors driving fans associated with smoke control systems shall not be operated beyond their nameplate horsepower (kilowatts) as determined from measurement of actual current draw and shall have a minimum service factor of 1.15.

~~(N)~~909.11 Standby power. Standby power provided for smoke control systems shall be maintained in accordance with Section ~~604~~ 1203.

~~(N)~~909.11.1 Equipment room. Fire barriers associated with equipment rooms servicing smoke control systems shall be maintained in accordance with Chapter 7.

12. Delete Sections 909.11.2 through 909.13.3.

13. Change Sections 909.14 and 909.15 to read:

909.14 Marking and identification. The detection and control systems shall be clearly marked at all junctions, accesses and terminations.

909.15 Control diagrams. Identical control diagrams showing all devices in the system and identifying their location and function shall be maintained current and kept on file with the fire code official, with the fire department, and in the fire command center in a format and manner approved by the fire chief.

14. Delete Sections 909.16 and 909.16.1.

15. Change Section 909.16.2 to read:

~~(N)~~909.16.2 Smoke control panel. The firefighter's control panel shall maintain control capability over the complete smoke control system equipment within the building in accordance with the applicable building code.

16. Delete Section 909.16.3.

17. Change Sections 909.17 and 909.18 to read:

~~(N)~~909.17 System response time. Smoke-control system activation, including all associated components, shall be initiated in accordance with its design. The total response time shall not be less than the requirements specified in the design.

~~(N)~~909.18 Acceptance testing.

18. Delete Sections 909.18.1 through 909.18.8.3.

19. Change Sections 909.18.8.3.1 and 909.18.9 to read:

~~(N)~~909.18.8.3.1 Report filing. A copy of the final report required by the applicable building code shall be filed with the fire code official and an identical copy shall be maintained in an approved location at the building.

~~(N)~~909.18.9 Identification and documentation. Copies of charts, drawings, and other documents identifying and locating each component of the smoke control system and describing their proper function and maintenance requirements shall be maintained on file at the building. Devices shall have an approved identifying tag or mark on them consistent with such copies and shall be dated indicating the last time they were successfully tested and by whom.

20. Delete Section 909.19.

21. Change Sections 909.20.1, 909.20.6 and 909.21 to read:

909.20.1 Schedule. A routine maintenance and operational testing program shall be initiated immediately after the smoke control system has passed the acceptance tests. A written schedule for routine maintenance and operational testing shall be established and approved by the fire code official in accordance with Chapter 9 of the applicable building code.

~~(N)~~909.20.6 Components bypassing weekly test. Where components of the smoke control system are bypassed by the preprogrammed weekly test in accordance with the applicable building code, such components shall be tested semiannually. The system shall be tested under standby power conditions.

~~(N)~~909.21 Elevator hoistway pressurization alternative. Where elevator hoistway pressurization is provided in lieu of required enclosed elevator lobbies, the pressurization system shall be maintained in accordance with Section 909.

22. Delete Sections 909.21.1 through 909.21.2.

23. Change Sections 909.21.3 through 909.21.4.1 to read:

~~(N)~~909.21.3 Ducts for system. Any duct system protected with a fire-resistance rating shall be maintained in accordance with Chapter 7.

~~(N)~~909.21.4 Fan system. The fan system provided for the pressurization system shall comply with Sections 909.21.4.1.

~~(N)~~909.21.4.1 Fire resistance. Where provided in accordance with the applicable building code, the fire-resistance rating required for the elevator shaft enclosure shall be maintained in accordance with Chapter 7.

24. Delete Sections 909.21.4.2 through 909.21.4.4.

25. Change Section 909.21.5 to read:

~~(N)~~909.21.5 Standby power. Standby power systems for pressurization systems shall be maintained in accordance with Section ~~604~~ 1203.

26. Delete Sections 909.21.6 and 909.21.7.

27. Change Sections 909.21.8 and 909.21.9 to read:

~~(N)~~909.21.8 Marking and identification. Detection and control systems shall be marked in accordance with Section 909.14.

~~(N)~~909.21.9 Control diagrams. Control diagrams shall be provided in accordance with Section 909.15.

28. Delete Section 909.21.10.

29. Change Section 909.21.11 to read:

~~(N)~~909.21.11 System response time. Hoistway pressurization systems response time shall be maintained in accordance with the requirements for smoke control system response time in the applicable building code.

I. The following changes shall be made to Section 910, Smoke and Heat Removal:

1. Change Section 910.1 to read:

~~(N)~~910.1 General. Where required by the applicable building code, smoke and heat vents or mechanical smoke removal systems shall be maintained as installed.

2. Delete Sections 910.2 through 910.3.3.

3. Change Section 910.4 to read:

~~(N)~~910.4 Mechanical smoke removal systems. Mechanical smoke removal systems provided shall be maintained as installed in accordance with the applicable building code.

4. Delete Sections 910.4.1 through 910.4.7.

J. The following changes shall be made to Section 911, Explosion Control:

1. Change Section 911.1 to read:

~~(N)~~911.1 General. Explosion control systems and components shall be maintained and operated in accordance with NFPA 69, or NFPA 495, as applicable. Deflagration venting shall not be used as a means to protect buildings from detonation hazards.

2. Delete Table 911.1 and Sections 911.2 through 911.4.

K. The following changes shall be made to Section 912, Fire Department Connections:

1. Delete Sections 912.1 through 912.2.1.

2. Change Section 912.6 to read:

~~(N)~~912.6 Backflow protection. The potable water supply to automatic sprinkler and standpipe systems protected against backflow as required by the applicable building code shall be maintained in accordance with NFPA 25.

L. The following changes shall be made to Section 913, Fire Pumps:

1. Change Sections 913.1 through 913.2.1 to read:

~~(N)~~913.1 General. Where provided, fire pumps shall be maintained in accordance with the applicable building code.

~~(N)~~913.2 Protection against interruption of service. The fire pump, driver and controller shall be maintained in accordance with the applicable building code.

~~(N)~~913.2.1 Protection of fire pump rooms. Rooms where fire pumps are separated from all other areas of the building by a fire-rated assembly in accordance with the applicable building code shall be maintained in accordance with Chapter 7.

2. Delete Section 913.2.2.

3. Change Sections 913.3 and 913.4 to read:

~~(N)~~913.3 Temperature of pump room. Suitable means shall be provided for maintaining the temperature of a pump room or pump house above 40°F (5°C).

~~(N)~~913.4 Valve supervision. Where provided, the fire pump suction, discharge and bypass valves, and isolation valves on the backflow prevention device or assembly shall be maintained in accordance with the applicable building code.

4. Delete Section 913.5.1.

M. The following changes shall be made to Section 914, Fire Protection Based on Special Detailed

Requirements of Use and Occupancy:

1. Delete Sections 914.1 through 914.2.3.

2. Change Section 914.2.4 to read:

914.2.4 Fire department access to equipment. Rooms or areas containing controls for air-conditioning systems, automatic fire-extinguishing systems, automatic sprinkler systems, or other detection, suppression, or control elements shall be identified for use by the fire department.

3. Delete Sections 914.3 through 914.11.3, including Tables.

N. The following changes shall be made to Section 915, Carbon Monoxide Detection:

1. Change Section 915.1 to read:

~~(N)~~915.1 General. Where provided, carbon monoxide detection shall be installed in accordance with the applicable building code.

2. Delete Sections 915.1.1 through 915.5.3.

3. Change Section ~~915.6~~ 916.1 to read:

~~915.6 Maintenance. Carbon monoxide alarms and carbon monoxide detection systems shall be maintained in accordance with NFPA 720. Carbon monoxide alarms and carbon monoxide detectors that become inoperable or begin producing end-of-life signals shall be replaced.~~

916.1 Gas detection systems. Gas detection systems shall be maintained in accordance with the applicable building code.

4. Delete Sections 916.2 through 917.

13VAC5-51-135.5. ~~Ifc~~ IFC Chapter 10 Means of Egress.

A. The following changes shall be made to Section 1001, Administration:

1. Change Section 1001.1 to read:

1001.1 General. Means of egress systems for buildings or portions thereof shall be maintained in accordance with the applicable building code and Section 1031.

2. Add Section 1001.3 to read:

1001.3 Overcrowding. Overcrowding, admittance of any person beyond the approved occupant load established by the USBC or other building code under which the building was constructed, or obstructing aisles, passageways, or any part of the means of egress shall not be allowed. The fire code official, upon finding any condition that constitutes a life safety hazard, shall be authorized to cause the event to be stopped until such condition or obstruction is corrected.

B. The following changes shall be made to Section 1003, General Means of Egress:

1. Change Section 1003.1 to read:

~~(N)~~1003.1 Applicability. The general requirements specified in Sections 1003 through 1015 shall apply to the maintenance of the building.

2. Change Section 1003.2 to read:

~~(N)~~1003.2 Ceiling height. The means of egress ceiling height shall be maintained in accordance with the applicable building code.

3. Change Section 1003.3 to read:

1003.3 Protruding objects. Protruding objects on circulation paths shall comply with the requirements of Sections 1003.3.1 and 1003.3.4.

4. Change Section 1003.3.1 to read:

~~(N)~~1003.3.1 Headroom. Minimum headroom shall be maintained in accordance with the applicable building code.

5. Delete Section 1003.3.2.

6. Delete Section 1003.3.3.

7. Change Section 1003.3.4 to read:

~~(N)~~1003.3.4 Clear width. Protruding objects shall not reduce the minimum clear width of accessible routes.

8. Change Section 1003.4 to read:

~~(N)~~1003.4 Floor surface. Slip and trip hazards in the means of egress shall be abated.

9. Delete Section 1003.5.

10. Change Section 1003.6 to read:

~~(N)~~1003.6 Means of egress continuity. Means of egress continuity shall be maintained in accordance with the applicable building code.

11. Delete Section 1003.7.

C. The following changes shall be made to Section 1004, Occupant Load:

1. Change Section 1004.1 to read:

~~(N)~~1004.1 Design occupant load. The design occupant load shall be maintained in accordance with the applicable building code.

2. Delete ~~Section~~ Sections ~~1004.1.1~~ 1004.2 through 1004.3, 1004.5, 1004.5.1 and 1004.6 including Table 1004.5.

3. ~~Delete~~ Change ~~Section~~ Sections ~~1004.1.1.1~~ 1004.4 and 1004.7 to read.

1004.4 Multiple occupancies. Where a building contains two or more occupancies, the means of egress requirements shall be maintained in accordance with the applicable building code.

1004.7 Outdoor areas. The means of egress for outdoor areas shall be maintained in accordance with the applicable building code.

4. Delete Section ~~1004.1.1.2~~ 1004.8.

5. ~~Delete Section 1004.1.1.3.~~

~~6. Delete Section 1004.1.2 and Table 1004.1.2.~~

~~7. Delete Section 1004.2.~~

~~8.~~ Change Section ~~1004.3~~ 1004.9 to read:

~~(N)1004.3~~ 1004.9 Posting of occupant load. Every room or space that is an assembly occupancy and where the occupant load of that room or space is 50 or more shall have the occupant load of the room or space posted in a conspicuous place near the main exit or exit access doorway from the room or space. Posted

signs shall be of an approved legible permanent design and shall be maintained by the owner or the owner's authorized agent.

~~9. Delete Section 1004.4.~~

~~10. Change Section 1004.5 to read:~~

~~(N)1004.5 Outdoor areas. The means of egress for outdoor areas shall be maintained in accordance with the applicable building code.~~

~~11. Change Section 1004.6 to read:~~

~~(N)1004.6 Multiple occupancies. Where a building contains two or more occupancies, the means of egress requirements shall be maintained in accordance with the applicable building code.~~

D. The following changes shall be made to Section 1005, Means of Egress Sizing:

1. Change Section 1005.1 to read:

~~(N)~~1005.1 General. All portions of the means of egress system shall be sized in accordance with the applicable building code.

2. Change Section 1005.2 to read:

~~(N)~~1005.2 Minimum width based on component. The minimum width of any means of egress components shall be maintained in accordance with the applicable building code.

3. Change Section 1005.3 to read:

~~(N)~~1005.3 Required capacity based on occupant load. The required capacity of the means of egress for any room, area, space or story shall be maintained in accordance with the applicable building code.

4. Change Section 1005.3.1 to read:

~~(N)~~1005.3.1 Stairways. The capacity, in inches, of means of egress stairways shall be maintained in accordance with the applicable building code.

5. Delete Section 1005.3.2.

6. Change Section 1005.4 to read:

~~(N)~~1005.4 Continuity. The minimum width or required capacity of the means of egress required from any story of a building shall be maintained in accordance with the applicable building code.

7. Delete Section 1005.5.

8. Change Section 1005.6 to read:

~~(N)~~1005.6 Egress convergence. Where the means of egress from stories above and below converge at an intermediate level, the capacity of the means of egress from the point of convergence shall be maintained in accordance with the applicable code.

9. Change Section 1005.7 to read:

~~(N)~~1005.7 Encroachment. Encroachments into the required means of egress width shall be in accordance with the provisions of the applicable building code.

10. Delete Section 1005.7.1.

11. Delete Section 1005.7.2.

12. Delete Section 1005.7.3.

E. The following changes shall be made to Section 1006, Numbers of Exits and Exit Access Doorways:

1. Change Section 1006.1 to read:

~~(N)~~1006.1 General. The number of exits or exit access doorways required within the means of egress system shall be maintained in accordance with the applicable building code.

2. Change Section 1006.2 to read:

~~(N)~~1006.2 Egress from spaces. Egress from spaces shall be maintained in accordance with the applicable building code.

3. Delete Section 1006.2.1 and Table 1006.2.1.

4. Delete Section 1006.2.1.1.

5. Delete Section 1006.2.2.

6. Delete Section 1006.2.2.1.

7. Delete Section 1006.2.2.2.

8. Delete Section 1006.2.2.3.

9. Delete Section 1006.2.2.4.

10. Delete ~~Section~~ Sections 1006.2.2.5 and 1006.2.2.6.

11. Change Section 1006.3 to read:

~~(N)~~1006.3 Egress from stories or occupied roofs. The means of egress system serving any story or occupied roof shall be maintained in accordance with the applicable building code.

12. Delete Section 1006.3.1 and Table 1006.3.1.

13. Delete Section 1006.3.2, 1006.3.3 and Tables ~~1006.3.2(1)~~ 1006.3.3(1) and ~~1006.3.2(2)~~ 1006.3.3(2).

14. Delete Section ~~1006.3.2.1~~ 1006.3.3.1.

~~15. Delete Section 1006.3.2.2.~~

F. The following changes shall be made to Section 1007, Exit and Exit Access Doorway Configuration:

1. Change Section 1007.1 to read:

~~(N)~~1007.1 General. Exits, exit access doorways, and exit access stairways and ramps serving spaces, including individual building stories, shall be maintained in accordance with the applicable code.

2. Delete Section 1007.1.1.

3. Delete Section 1007.1.1.1.

4. Delete Section 1007.1.2.

5. Delete Section 1007.1.3.

6. Delete Section 1007.1.3.1.

G. The following changes shall be made to Section 1008, Means of Egress Illumination:

1. Change Section 1008.1 to read:

~~(N)~~1008.1 Means of egress illumination. Illumination provided in the means of egress shall be maintained in accordance with the applicable code.

2. Change Section 1008.2 to read:

~~(N)~~1008.2 Illumination required. Illumination provided for the means of egress serving a room or space shall be maintained in accordance with the applicable building code.

3. Delete Section 1008.2.1.

4. Delete Section 1008.2.2 and 1008.2.3.

5. Change Section 1008.3 to read:

~~(N)~~1008.3 Emergency power for illumination. The power supply for means of egress illumination shall be maintained in accordance with the applicable building code.

6. Delete Section 1008.3.1.

7. Delete Section 1008.3.2.

8. Delete Section 1008.3.3.

9. Delete Section 1008.3.4.

10. Delete Section 1008.3.5.

H. The following changes shall be made to Section 1009, Accessible Means of Egress:

1. Change Section 1009.1 to read:

~~(N)~~1009.1 Accessible means of egress required. Accessible means of egress shall be maintained in accordance with the applicable building code.

2. Change Section 1009.2 to read:

~~(N)~~1009.2 Continuity and components. Continuity and components provided for accessible means of egress shall be maintained in accordance with the applicable building code.

3. Delete Section 1009.2.1.

4. Change Section 1009.3 ~~to read~~ and delete Sections 1009.3.1, 1009.3.2 and 1009.3.3:

~~(N)~~1009.3 Stairways. Stairways part of an accessible means of egress shall be maintained in accordance with the applicable building code.

5. Change Section 1009.4 ~~to read~~ and delete Sections 1009.4.1 and 1009.4.2:

~~(N)~~1009.4 Elevators. Elevators considered part of the means of egress shall be maintained in accordance with the applicable building code.

6. Change Section 1009.5 to read:

~~(N)~~1009.5 Platform lifts. Platform lifts serving as a part of an accessible means of egress shall be maintained in accordance with the applicable building code.

7. Change Section 1009.6 to read:

~~(N)~~1009.6 Areas of refuge. Areas of refuge shall be maintained in accordance with the applicable building code.

8. Delete Section 1009.6.1.

9. Delete Section 1009.6.2.

10. Delete Section 1009.6.3.

11. Delete Section 1009.6.4.

12. Delete Section 1009.6.5.

13. Change Section 1009.7 to read:

~~(N)~~1009.7 Exterior areas for assisted rescue. Exterior areas for assisted rescue shall be maintained in accordance with the applicable building code.

14. Delete Section 1009.7.1.

15. Delete Section 1009.7.2.

16. Delete Section 1009.7.3.

17. Delete Section 1009.7.4.

18. Change Section 1009.8 to read:

~~(N)~~1009.8 Two-way communication. Where provided, two-way communication systems shall be maintained in accordance with the applicable building code.

19. Delete Section 1009.8.1.

I. The following changes shall be made to Section 1010, Doors, Gates and Turnstiles:

1. Change Section 1010.1 to read:

~~(N)~~1010.1 Doors. Doors serving a means of egress system shall be maintained in accordance with the applicable building code. Means of egress doors shall be readily distinguishable from the adjacent construction and finishes such that the doors are easily recognizable as doors. Mirrors or similar reflecting materials shall not be used on means of egress doors. Means of egress doors shall not be concealed by curtains, drapes, decorations or similar materials.

2. Delete Section 1010.1.1.

3. Delete Section 1010.1.1.1.

4. Delete Section 1010.1.2.

5. Delete Section 1010.1.2.1.

6. Delete Section 1010.1.3.

7. Delete Section 1010.1.3.1.

8. Delete Section 1010.1.4.

9. Delete Section 1010.1.4.1 and Tables 1010.1.4.1(1) and 1010.1.4.1(2).

10. Delete Section 1010.1.4.1.1.

11. Delete Section 1010.1.4.1.2.

12. Delete Section 1010.1.4.2.

13. Delete Section 1010.1.4.3.

14. Delete Section 1010.1.5.

15. Delete Section 1010.1.6.

16. Delete Section 1010.1.7.

17. Delete Section 1010.1.8.

18. Delete Section 1010.1.9.1.

19. Delete Section 1010.1.9.2.

20. ~~Change~~ Delete Section 1010.1.9.3 ~~to read:~~.

21. Change Section 1010.1.9.4 to read:

~~(N)1010.1.9.3~~ 1010.1.9.4 Locks and latches. Where required, a readily visible durable sign is posted on the egress side on or adjacent to the door stating THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. The sign shall be in letters 1 inch (25 mm) high on a contrasting background and shall be maintained.

~~21. Delete Section 1010.1.9.4.~~

22. Delete Section 1010.1.9.5.

23. Delete Section ~~1010.1.9.5.1~~ 1010.1.9.6.

24. Delete Section ~~1010.1.9.6~~ 1010.1.9.6.1.

25. Delete Section 1010.1.9.7.

26. Delete Section 1010.1.9.8 and 1010.1.9.8.1.

27. Delete Section 1010.1.9.9.

28. Delete Section 1010.1.9.10.

29. Delete Section 1010.1.9.11 and 1010.1.9.12.

30. Delete Section 1010.1.10.

31. Delete Section 1010.1.10.1.

32. Delete Section 1010.1.10.2.

33. Change Section 1010.2 to read:

~~(N)~~1010.2 Gates. Gates serving the means of egress system shall be maintained in accordance with the applicable building code.

34. Delete Section 1010.2.1.

35. Change Section 1010.3 to read:

~~(N)~~1010.3 Turnstiles. Turnstiles or similar devices shall be maintained in accordance with the applicable building code.

36. Delete Section 1010.3.1 through 1010.3.4.

~~37. Delete Section 1010.3.2.~~

J. The following changes shall be made to Section 1011, Stairways:

1. Change Section 1011.1 to read:

~~(N)~~1011.1 General. Stairways serving occupied portions of a building shall be maintained in accordance with the applicable building code.

2. Change Section 1011.2 to read:

~~(N)~~1011.2 Width and capacity. The capacity of stairways shall be maintained in accordance with the applicable building code.

3. Change Section 1011.3 to read:

~~(N)~~1011.3 Headroom. Headroom requirements for stairways shall be maintained in accordance with the applicable building code.

4. Change Section 1011.4 to read:

~~(N)~~1011.4 Walkline. The walkline across winder treads shall be maintained in accordance with the applicable building code.

5. Change Section 1011.5 to read:

~~(N)~~1011.5 Stair treads and risers. Stair treads and risers shall be maintained in accordance with the applicable building code

6. Delete Section 1011.5.1.

7. Delete Section 1011.5.2.

8. Delete Section 1011.5.3.

9. Delete Section 1011.5.4.

10. Delete Section 1011.5.4.1.

11. Delete Section 1011.5.5.

12. Delete Section 1011.5.5.1.

13. Delete Section 1011.5.5.2.

14. Delete Section 1011.5.5.3.

15. Delete Section 1011.6.

16. Delete Section 1011.7.

17. Delete Section 1011.7.1.

18. Delete Section 1011.7.2.

19. Delete Section 1011.7.3.

20. Delete Section 1011.7.4.

21. Change Section 1011.8 to read:

~~(N)~~1011.8 Vertical rise. Vertical rise of a flight of stairs shall be maintained in accordance with the applicable building code.

22. Change Section 1011.9 to read:

~~(N)~~1011.9 Curved stairways. Curved stairways with winder treads shall be maintained in accordance with the applicable building code.

23. Change Section 1011.10 to read:

~~(N)~~1011.10 Spiral stairways. Spiral stairways used as a component in the means of egress shall be maintained in accordance with the applicable building code.
24. Change Section 1011.11 to read:

~~(N)~~1011.11 Handrails. Handrails for stairways shall be maintained in accordance with the applicable building code.

25. Change Section 1011.12 to read:

~~(N)~~1011.12 Stairway to roof. Stairways to a roof shall be maintained in accordance with the applicable building code.

26. Delete Section 1011.12.1.

27. Delete Section 1011.12.2.

28. Change Section 1011.13 to read:

~~(N)~~1011.13 Guards. Guards shall be maintained in accordance with the applicable building code.

29. Change Section 1011.14 to read:

~~(N)~~1011.14 Alternating tread devices. Alternating tread devices shall be maintained in accordance with the applicable building code.

30. Delete Section 1011.14.1.

31. Delete Section 1011.14.2.

32. Change Section 1011.15 to read:

~~(N)~~1011.15 Ships ladders. Ships ladders shall be maintained in accordance with the applicable building code.

33. Delete Section 1011.15.1.

34. Delete Section 1011.15.2.

35. Delete Section 1011.16.

K. The following changes shall be made to Section 1012, Ramps:

1. Change Section 1012.1 to read:

~~(N)~~1012.1 Scope. The provisions of this section shall apply to the maintenance of ramps used as a component of a means of egress.

2. Change Section 1012.2 to read:

~~(N)~~1012.2 Slope. Ramp slopes shall be maintained in accordance with the applicable building code.

3. Change Section 1012.3 to read:

~~(N)~~1012.3 Cross slope. The cross slope for ramps shall be maintained in accordance with the applicable building code.

4. Change Section 1012.4 to read:

~~(N)~~1012.4 Vertical rise. The rise for any ramp run shall be maintained in accordance with the applicable building code.

5. Change Section 1012.5 to read:

~~(N)~~1012.5 Minimum dimensions. The minimum dimensions of means of egress ramps shall be maintained in accordance with the applicable building code.

6. Delete Section 1012.5.1.

7. Delete Section 1012.5.2.

8. Delete Section 1012.5.3.

9. Change Section 1012.6 to read:

~~(N)~~1012.6 Landings. Landings serving ramps shall be maintained in accordance with the applicable building code.

10. Delete Section 1012.6.1.

11. Delete Section 1012.6.2.

12. Delete Section 1012.6.3.

13. Delete Section 1012.6.4.

14. Delete Section 1012.6.5.

15. Delete Section 1012.7.

16. Delete Section 1012.7.2.

17. Change Section 1012.8 to read:

~~(N)~~1012.8 Handrails. Handrails serving ramps shall be maintained in accordance with the applicable building code.

18. Change Section 1012.9 to read:

~~(N)~~1012.9 Guards. Guards shall be maintained in accordance with the applicable building code.

19. Change Section 1012.10 to read:

~~(N)~~1012.10 Edge protection. Edge protection shall be maintained in accordance with the applicable building code.

20. Delete Section 1012.10.1.

21. Delete Section 1012.10.2.

L. The following changes shall be made to Section 1013, Exit Signs:

1. Change Section 1013.1 to read:

~~(N)~~1013.1 Where required. Exits and exit access doors shall be maintained in accordance with the applicable building code.

2. Change Section 1013.2 to read:

~~(N)~~1013.2 Floor-level exit signs in Group R-1. Floor-level exit signs in Group R-1 buildings shall be maintained in accordance with the applicable building code.

3. Change Section 1013.3 to read:

~~(N)~~1013.3 Illumination. Exit sign illumination shall be maintained in accordance with the applicable building code.

4. Change Section 1013.4 to read:

~~(N)~~1013.4 Raised character and braille exit signs. Raised character and braille exit signs shall be maintained in accordance with the applicable building code.

5. Change Section 1013.5 to read:

~~(N)~~1013.5 Internally illuminated exit signs. Electrically powered, self-luminous, and photoluminescent exit signs shall be maintained in accordance with the applicable building code.

6. Change Section 1013.6 to read:

~~(N)~~1013.6 Externally illuminated exit signs. Externally illuminated exit signs shall be maintained in accordance with the applicable building code.

7. Delete Section 1013.6.1.

8. Delete Section 1013.6.2.

9. Delete Section 1013.6.3.

M. The following changes shall be made to Section 1014, Handrails:

1. Change Section 1014.1 to read:

~~(N)~~1014.1 Where required. Handrails serving stairways, ramps, stepped aisles, and ramped aisles shall be maintained in accordance with the applicable building code.

2. Change Section 1014.2 to read:

~~(N)~~1014.2 Height. Handrail height, shall be maintained in accordance with the applicable building code.

3. Change Section 1014.3 to read:

~~(N)~~1014.3 Handrail graspability. Handrail graspability shall be maintained in accordance with the applicable building code.

4. Delete Section 1014.3.1.

5. Delete Section 1014.3.2.

6. Change Section 1014.4 to read:

~~(N)~~1014.4 Continuity. Handrail continuity shall be maintained in accordance with the applicable building code.

7. Delete Section 1014.5.

8. Delete Section 1014.6.

9. Change Section 1014.7 to read:

~~(N)~~1014.7 Clearance. Clear space between a handrail and a wall or other surface shall be maintained in accordance with the applicable building code.

10. Change Section 1014.8 to read:

~~(N)~~1014.8 Projections. Projections into the required width of aisles, stairways and ramps at each side shall not exceed the requirements of the applicable building code.

11. Change Section 1014.9 to read:

~~(N)~~1014.9 Intermediate handrails. Where provided, intermediate handrails shall be maintained in accordance with the applicable building code.

N. The following changes shall be made to Section 1015, Guards:

1. Change Section 1015.1 to read:

~~(N)~~1015.1 General. Guards shall be maintained in accordance with the applicable building code.

2. Delete Section 1015.2.

3. Delete Section 1015.2.1.

4. Change Section 1015.3 to read:

~~(N)~~1015.3 Height. Guard height shall be maintained in accordance with the applicable building code.

5. Change Section 1015.4 to read:

~~(N)~~1015.4 Opening limitations. Openings in guards shall be maintained in accordance with the applicable building code.

6. Change Section 1015.5 to read:

~~(N)~~1015.5 Screen porches. Guards provided for screen porches shall be maintained in accordance with the applicable building code.

7. Change Section 1015.6 to read:

~~(N)~~1015.6 Mechanical equipment, systems and devices. Guards provided for mechanical equipment shall be maintained in accordance with the applicable building code.

8. Change Section 1015.7 to read:

~~(N)~~1015.7 Roof access. Guards provided for roof access shall be maintained in accordance with the applicable building code.

9. Change Section 1015.8 to read:

~~(N)~~1015.8 Window openings. Windows shall be maintained in accordance with the applicable building code.

10. Delete Section 1015.8.1.

O. The following changes shall be made to Section 1016, Exit Access:

1. Change Section 1016.1 to read:

~~(N)~~1016.1 General. The exit access shall be maintained in accordance with the applicable building code.

2. Change Section 1016.2 to read:

~~(N)~~1016.2 Egress through intervening spaces. Egress through intervening spaces shall be maintained in accordance with the applicable building code.

3. Delete Section 1016.2.1.

P. The following changes shall be made to Section 1017, Exit Access Travel Distance:

1. Change Section 1017.1 to read:

~~(N)~~1017.1 General. Travel distance within the exit access portion of the means of egress system shall be maintained in accordance with the applicable building code.

2. Delete Section 1017.2 and Table 1017.2.

3. Delete Section 1017.2.1.

4. Delete Section 1017.2.2.

5. Delete Section 1017.3.

6. Delete Section 1017.3.1.

Q. The following changes shall be made to Section 1018, Aisles:

1. Change Section 1018.1 to read:

~~(N)~~1018.1 General. Aisles and aisle accessways serving as a portion of the exit access in the means of egress system shall be maintained in accordance with the applicable building code.

2. Change Section 1018.2 to read:

~~(N)~~1018.2 Aisles in assembly spaces. Aisles and aisle accessways serving a room or space used for assembly purposes shall be maintained in accordance with the applicable building code.

3. Change Section 1018.3 to read:

~~(N)~~1018.3 Aisles in Groups B and M. In Groups B and M occupancies, the aisle width shall be maintained in accordance with the applicable building code.

4. Change Section 1018.4 to read:

~~(N)~~1018.4 Aisle accessways in Group M. Aisle accessways in Group M shall be maintained in accordance with the applicable building code.

5. Change Section 1018.5 to read:

~~(N)~~1018.5 Aisles in other than assembly spaces and Groups B and M. Aisles in other than assembly spaces and Groups B and M shall be maintained in accordance with the applicable building code.

R. The following changes shall be made to Section 1019, Exit Access Stairways and Ramps.

1. Change Section 1019.1 to read:

~~(N)~~1019.1 General. Exit access stairways and ramps serving as an exit access component in a means of egress system shall be maintained in accordance with the applicable building code.

2. Delete Section 1019.2.

3. Delete Section 1019.3.

4. Delete Section 1019.4.

S. The following changes shall be made to Section 1020, Corridors:

1. Change Section 1020.1 to read:

~~(N)~~1020.1 Maintenance. Corridors shall be maintained in accordance with the applicable building code.

2. Delete Table 1020.1.

3. Change Section 1020.2 to read:

~~(N)~~1020.2 Width and capacity. The width and capacity of corridors shall be maintained in accordance with the applicable building code.

4. Delete Table 1020.2.

5. Delete Section 1020.4.

6. Delete Section 1020.5.

7. Delete Section 1020.5.1.

8. Change Section 1020.6 to read:

~~(N)~~1020.6 Corridor continuity. The continuity of fire-resistance-rated corridors shall be maintained in accordance with the applicable building code.

T. The following changes shall be made to Section 1021, Egress Balconies:

1. Change Section 1021.1 to read:

~~(N)~~1021.1 General. Balconies used for egress purposes shall be maintained in accordance with the applicable building code.

2. Change Section 1021.2 to read:

~~(N)~~1021.2 Wall separation. Wall separation for egress balconies shall be maintained in accordance with the applicable building code.

3. Delete Section 1021.3.

4. Change Section 1021.4 to read:

~~(N)~~1021.4 Location. The fire separation distance for exterior egress balconies shall be maintained in accordance with the applicable building code.

U. The following changes shall be made to Section 1022, Exits:

1. Change Section 1022.1 to read:

~~(N)~~1022.1 General. An exit shall not be used for any purpose that interferes with its function as a means of egress. Once a given level of exit protection is achieved, such level of protection shall not be reduced until arrival at the exit discharge. Exits shall be continuous from the point of entry into the exit to the exit discharge. Exits shall be maintained in accordance with the applicable building code.

2. Change Section 1022.2 to read:

~~(N)~~1022.2 Exterior exit doors. Exterior exit doors shall be maintained in accordance with the applicable building code.

3. Delete Section 1022.2.1.

4. Delete Section 1022.2.2.

V. The following changes shall be made to Section 1023, Interior Exit Stairways and Ramps:

1. Change Section 1023.1 to read:

~~(N)~~1023.1 General. Interior exit stairways and ramps serving as an exit component in a means of egress system shall be maintained in accordance with the applicable building code.

2. Delete Section 1023.2.

3. Delete Section 1023.3.

4. Delete Section 1023.3.1.

5. Change Section 1023.4 to read:

~~(N)~~1023.4 Openings. Interior exit stairway and ramp opening protectives shall be maintained in accordance with the applicable building code.

6. Delete Section 1023.5.

7. Change Section 1023.6 to read:

~~(N)~~1023.6 Ventilation. Equipment and ductwork for interior exit stairway and ramp ventilation shall be maintained in accordance with the applicable building code.

8. Change Section 1023.7 to read:

~~(N)~~1023.7 Interior exit stairway and ramp exterior walls. Exterior walls of the interior exit stairway or ramp shall be maintained in accordance with the applicable building code.

9. Change Section 1023.8 to read:

~~(N)~~1023.8 Discharge identification. An interior exit stairway and ramp shall not continue below its level of exit discharge unless an approved barrier is provided at the level of exit discharge to prevent persons from unintentionally continuing into levels below. Directional exit signs shall be provided and maintained in accordance with the applicable building code.

10. Change Section 1023.9.1 to read:

~~(N)~~1023.9.1 Signage requirements. Stairway identification signs shall comply with all of the following requirements:

1. The signs shall be a minimum size of 18 inches (457 mm) by 12 inches (305 mm).

2. The letters designating the identification of the interior exit stairway and ramp shall be not less than 1-1/2 inches (38 mm) in height.

3. The number designating the floor level shall be not less than of 5 inches (127 mm) in height and located in the center of the sign.

4. Other lettering and numbers shall be not less than 1 inch (25 mm) in height.

5. Characters and their background shall have a nonglare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

11. Change Section 1023.10 to read:

~~(N)~~1023.10 Elevator lobby identification signs. At landings in interior exit stairways where two or more doors lead to the floor level, any door with direct access to an enclosed elevator lobby shall be identified by signage located on the door or directly adjacent to the door stating "Elevator Lobby." Signage shall be in accordance with Section 1023.9.1, Items 4 and 5.

12. Change Section 1023.11 to read:

~~(N)~~1023.11 Smokeproof enclosures. Smokeproof enclosures shall be maintained in accordance with the applicable building code.

13. Delete Section 1023.11.1.

14. Delete Section 1023.11.2.

15. Delete Section 1023.12.

W. The following changes shall be made to Section 1024, Exit Passageways:

1. Change Section 1024.1 to read:

~~(N)~~1024.1 Exit passageways. Exit passageways serving as an exit component in a means of egress system shall be maintained in accordance with the applicable building code.

2. Change Section 1024.2 to read:

~~(N)~~1024.2 Width. The minimum width or required capacity of exit passageways shall be maintained in accordance with the applicable building code.

3. Delete Section 1024.3.

4. Delete Section 1024.4.

5. Change Section 1024.5 to read:

~~(N)~~1024.5 Openings. Exit passageway opening protectives shall be maintained in accordance with the applicable building code.

6. Change Section 1024.6 to read:

~~(N)~~1024.6 Penetrations. Penetration protection shall be maintained in accordance with the applicable building code.

7. Change Section 1024.7 to read:

~~(N)~~1024.7 Ventilation. Equipment and ductwork for exit passageway ventilation shall be maintained in accordance with the applicable building code.

X. The following changes shall be made to Section 1025, Luminous Egress Path Markings:

1. Change Section 1025.1 to read:

~~(N)~~1025.1 General. Luminous egress path markings shall be maintained in accordance with the applicable building code.

2. Change Section 1025.2 to read:

~~(N)~~1025.2 Markings within exit components. Egress path markings provided in interior exit stairways, interior exit ramps, and exit passageways shall be maintained in accordance with the applicable building code.

3. Delete Section 1025.2.1.

4. Delete Section 1025.2.2.

5. Delete Section 1025.2.3.

6. Delete Section 1025.2.4

7. Delete Section 1025.2.4.1.

8. Delete Section 1025.2.4.2.

9. Delete Section 1025.2.4.3.

10. Delete Section 1025.2.5.

11. Delete Section 1025.2.6.

12. Delete Section 1025.2.6.1.

13. Delete Section 1025.2.6.2.

14. Delete Section 1025.2.6.3.

15. Delete Section 1025.3.

16. Change Section 1025.4 to read:

~~(N)~~1025.4 Self-luminous and photoluminescent. Self-luminous and photoluminescent egress path markings shall be maintained in accordance with the applicable building code.

17. Change Section 1025.5 to read:

~~(N)~~1025.5 Illumination. Photoluminescent exit path markings shall be maintained in accordance with the applicable building code.

Y. The following changes shall be made to Section 1026, Horizontal Exits:

1. Change Section 1026.1 to read:

~~(N)~~1026.1 Horizontal exits. Horizontal exits serving as an exit in a means of egress system shall be maintained in accordance with the applicable building code.

2. Change Section 1026.2 to read:

~~(N)~~1026.2 Separation. The separation between buildings or refuge areas connected by a horizontal exit shall be maintained in accordance with the applicable building code.

3. Change Section 1026.3 to read:

~~(N)~~1026.3 Opening protectives. Fire doors in horizontal exits shall be maintained in accordance with the applicable building code.

4. Change Section 1026.4 to read:

~~(N)~~1026.4 Refuge area. Where provided, the refuge area of a horizontal exit shall be maintained in accordance with the applicable building code.

5. Delete Section 1026.4.1.

6. Delete Section 1026.4.2.

Z. The following changes shall be made to Section 1027, Exterior Exit Stairways and Ramps:

1. Change Section 1027.1 to read:

~~(N)~~1027.1 Exterior exit stairways and ramps. Exterior exit stairways and ramps serving as an element of a required means of egress shall be maintained in accordance with the applicable building code.

2. Change Section 1027.2 to read:

~~(N)~~1027.2 Use in a means of egress. Exterior exit stairways shall not be used as an element of a required means of egress.

3. Delete Section 1027.3.

4. Delete Section 1027.4.

5. Delete Section 1027.5.

6. Delete Section 1027.6.

AA. The following changes shall be made to Section 1028, Exit Discharge:

1. Change Section 1028.1 to read:

~~(N)~~1028.1 General. The exit discharge shall be maintained in accordance with the applicable building code.

2. Change Section 1028.2 to read:

~~(N)~~1028.2 Exit discharge width or capacity. The minimum width or required capacity of the exit discharge shall be maintained in accordance with the applicable building code.

3. Change Section 1028.3 to read:

~~(N)~~1028.3 Exit discharge components. Exit discharge components shall be maintained in accordance with the applicable building code.

4. Change Section 1028.4 to read:

~~(N)~~1028.4 Egress courts. Egress courts serving as a portion of the exit discharge in the means of egress system shall be maintained in accordance with the applicable building code.

5. Change Section 1028.4.1 to read:

~~(N)~~1028.4.1 Width or capacity. The required capacity of egress courts shall be maintained in accordance with the applicable building code.

6. Delete Section 1028.4.2.

7. Change Section 1028.5 to read:

~~(N)~~1028.5 Access to a public way. Where provided, access to a public way shall be maintained in accordance with the applicable building code.

Exception: Where access to a public way cannot be provided, a safe dispersal area shall be provided where all of the following are met:

1. The area shall be of a size to accommodate not less than 5 square feet (0.46 m^2) for each person.

2. The area shall be located on the same lot not less than 50 feet (15 240 mm) away from the building requiring egress.

3. The area shall be permanently maintained and identified as a safe dispersal area.

4. The area shall be provided with a safe and unobstructed path of travel from the building.

BB. The following changes shall be made to Section 1029, Assembly:

1. Change Section 1029.1 to read:

~~(N)~~1029.1 General. The means of egress serving a room or space used for assembly purposes that contains seats, tables, displays, equipment or other material shall be maintained in accordance with the applicable building code.

2. Delete Section 1029.1.1.

3. Delete Section 1029.1.1.1.

4. Change Section 1029.2 to read:

~~(N)~~1029.2 Assembly main exit. The assembly main exit shall be maintained in accordance with the applicable building code.

5. Change Section 1029.3 to read:

~~(N)~~1029.3 Assembly other exits. Other assembly exits shall be maintained in accordance with the applicable building code.

6. Delete Section 1029.4.

7. Change Section 1029.5 to read:

~~(N)~~1029.5 Interior balcony and gallery means of egress. Interior balcony and gallery means of egress shall be maintained in accordance with the applicable building code.

8. Change Section 1029.6 to read:

~~(N)~~1029.6 Capacity of aisle for assembly. The required capacity of aisles shall be maintained in accordance with the applicable building code.

9. Delete Section 1029.6.1.

10. Delete Section 1029.6.2 and Table 1029.6.2.

11. Delete Section 1029.6.2.1.

12. Delete Section 1029.6.2.2.

13. Delete Section 1029.6.2.3.

14. Delete Section 1029.6.3.

15. Change Section 1029.7 to read:

~~(N)~~1029.7 Travel distance. Travel distance shall be maintained in accordance with the applicable building code.

16. Change Section 1029.8 to read:

~~(N)~~1029.8 Common path of egress travel. The common path of egress travel shall be maintained in accordance with the applicable building code.

17. Delete Section 1029.8.1.

18. Change Section 1029.9 to read:

~~(N)~~1029.9 Assembly aisles are required. Assembly aisles shall be maintained in accordance with the applicable building code.

19. Change Section 1029.9.1 to read:

~~(N)~~1029.9.1 Minimum aisle width. The minimum clear width for aisles shall be maintained in accordance with the applicable building code.

20. Delete Section 1029.9.2.

21. Delete Section 1029.9.3.

22. Delete Section 1029.9.4.

23. Delete Section 1029.9.5

24. Delete Section 1029.9.6.

25. Delete Section 1029.9.7.

26. Delete Section 1029.9.8.

27. Change Section 1029.10 to read:

~~(N)~~1029.10 Transitions. Transitions between stairways and stepped aisles shall be maintained in accordance with the applicable building code.

28. Delete Section 1029.10.1.

29. Delete Section 1029.10.2.

30. Delete Section 1029.10.2.1.

31. Delete Section 1029.10.2.2.

32. Delete Section 1029.10.3.

33. Delete Section 1029.11.

34. Delete Section 1029.11.1.

35. Delete Section 1029.11.2.

36. ~~Change~~ Delete Section 1029.12 ~~to read:~~.

~~(N)1029.12 Aisle accessways. Aisle accessways for seating at tables shall maintained in accordance with the applicable building code.~~

37. Delete Section 1029.12.1.

38. ~~Delete Section 1029.12.1.1.~~

3~~9. Delete Section 1029.12.1.2.~~

~~40.~~ Delete Section 1029.12.2.

~~41. Delete Section 1029.12.2.1 and Table 1029.12.2.1.~~

~~42. Delete Section 1029.12.2.2.~~

~~43.~~ 39. Change Section 1029.13 to read:

1029.13 Aisle accessways. Aisle accessways for seating at tables shall be maintained in accordance with the applicable building code.

~~(N)1029.13 Assembly aisle walking surfaces. Ramped and stepped aisles shall be maintained in accordance with the applicable building code.~~

~~44.~~ 40. Delete Section 1029.13.1.

~~45.~~ 41. Delete Section 1029.13.1.1.

~~46.~~ 42. Delete Section 1029.13.1.2.

~~47. Delete Section 1029.13.1.3.~~

~~48.~~ 43. Delete Section 1029.13.2.

~~49.~~ 44. Delete Section 1029.13.2.1 and Table 1029.13.2.1.

~~50.~~ 45. Delete Section 1029.13.2.2.

~~51. Delete Section 1029.13.2.2.1.~~

~~52. Delete Section 1029.13.2.3.~~

~~53. Delete Section 1029.13.2.4.~~

~~54. Delete~~ 46. Change Section 1029.14 to read.

1029.14 Assembly aisle walking surfaces. Ramped and stepped aisles shall be maintained in accordance with the applicable building code.

~~55.~~ 47. Delete Sections 1029.14.1 through 1029.15

48. Change Section ~~1029.15~~ 1029.16 to read:

~~(N)1029.15~~ 1029.16 Handrails. Handrails serving ramped aisles shall be maintained in accordance with the applicable building code.

~~56. Delete Section 1029.15.1.~~

~~57. Delete Section 1029.15.2.~~

~~58. Delete Section 1029.15.3.~~

~~59. Delete Section 1029.15.4.~~

~~60. Change Section 1029.16 to read:~~

~~(N)1029.16 Assembly guards. Guards adjacent to seating in a building, room or space used for assembly purposes shall be maintained in accordance with the applicable building code.~~

~~61~~ 49.~~Change~~ Delete Section 1029.16.1 ~~to read:~~.

~~(N)1029.16.1 Perimeter guards. Perimeter guards shall be maintained in accordance with the applicable building code.~~

~~62.~~ 50. Delete Section 1029.16.2.

~~63.~~ 51. Delete Section 1029.16.3.

~~64.~~ 52. Delete Section 1029.16.4.

53. Change Sections 1029.17 and 1029.17.1 to read:

1029.17 Assembly guards. Guards adjacent to seating in a building, room or space used for assembly purposes shall be maintained in accordance with the applicable building code.

1029.17.1 Perimeter guards. Perimeter guards shall be maintained in accordance with the applicable building code.

54. Delete Sections 1029.17.2 through 1029.17.4.

CC. The following changes shall be made to Section 1030, Emergency Escape and Rescue:

1. Change Section 1030.1 and delete Section 1030.1.1 ~~to read:~~.

~~(N)~~1030.1 General. Emergency escape and rescue components of a building shall be maintained in accordance with the applicable building code.

2. Change Section 1030.2 to read:

~~(N)~~1030.2 Minimum size. Emergency escape and rescue openings shall be maintained in accordance with the applicable building code.

3. Delete Section 1030.2.1.

4. Change Section 1030.3 to read:

~~(N)~~1030.3 Maximum height from floor. Emergency escape and rescue opening height shall be maintained in accordance with the applicable building code.

5. Change Section 1030.4 to read:

~~1030.4 Operational constraints. The operation of emergency escape and rescue openings shall be maintained in accordance with the applicable building code.~~

~~6. Change Section 1030.5 to read:~~

~~(N)1030.5~~ 1030.4 Window wells. Window wells shall be maintained in accordance with the applicable building code.

7. Delete Section ~~1030.5.1~~ 1030.4.1 and 1030.4.2.

8. ~~Delete~~ Change Section ~~1030.5.2~~ 1030.5 to read:~~.~~

1030.5 Operational constraints. The operation of emergency escape and rescue openings shall be maintained in accordance with the applicable building code.

13VAC5-51-138. ~~If~~c IFC Chapter 11 Construction Requirements for Existing Buildings.

Delete Chapter 11 in its entirety.

13VAC5-51-138.1. IFC Chapter 12 Energy Systems.

A. Make the following changes to Section 1201, General.

1. Change Section 1201.1 and 1201.2 to read:

1201.1 Scope. The provisions of this chapter shall apply to the operation and maintenance of energy systems used for generating or storing energy.

1201.2 Electrical wiring and equipment. Electrical wiring and equipment used in connection with energy systems shall be maintained in accordance with the applicable building code.

2. Delete Section 1201.3.

B. Make the following changes to Section 1203, Emergency and standby power systems.

1. Change Sections 1203.1 and 1203.1.1 to read:

1203.1 General. Emergency power systems and standby power systems shall be maintained in accordance with the applicable building code.

1203.1.1 Generators. Emergency and standby power generators shall be listed.

2. Delete Section 1203.1.2 and 1203.1.3.

3. Change Section 1203.1.4 to read:

1203.1.4 Load transfer. Emergency power systems shall automatically provide secondary power within 10 seconds after primary power is lost unless specified otherwise by the applicable building code. Standby power systems shall automatically provide secondary power within 60 seconds after primary power is lost unless specified otherwise by the applicable building code.

4. Change Section 1203.1.5 to read:

1203.1.5 Load duration. Emergency power systems and standby power systems shall require power for a minimum duration of hours without being refueled or recharged, unless otherwise specified by the applicable building code.

5. Change Section 1203.1.6 to read:

1203.1.6 Uninterruptable power source. An uninterrupted source of power shall be provided for equipment where required by the manufacturer's instructions, the listing, the applicable building code, or the applicable referenced standards.

6. Change Section1203.1.7 to read:

1203.1.7 Interchangeability. Emergency power systems shall be an acceptable alternative for installations that require standby power systems when permitted by the applicable building code.

7. Delete Section 1203.1.8.

8. Change Section 1203.1.9 to read:

1203.1.9 Maintenance. Existing installations shall be maintained in accordance with the original approval and Section 1203.4.

9. Change Section 1203.2 to read:

1203.2 Specific equipment requirements. Emergency and standby power systems shall be maintained in accordance with Sections 1203.2.1 through 1203.2.18.

10. Change Section 1203.2.2 to read:

1203.2.2 Elevators and platform lifts. Standby power shall be maintained in accordance with NFPA 72 for elevators and platform lifts required by the applicable building code.

11. Delete Section 1203.2.3.

12. Change Section 1203.2.4 to read:

1203.2.4 Emergency voice or alarm communication systems. Emergency power shall be maintained for emergency voice or alarm communication systems as required by the applicable building code. The system shall be capable of powering the required load for a duration of not less than 24 hours, as required in NFPA 72.

13. Change Section 1203.2.5 to read:

1203.2.5 Exit signs. Emergency power for exit signs shall be capable of powering the required load for a duration of not less than 90 minutes unless otherwise specified by the applicable building code.

14. Change Section 1203.2.6 to read:

1203.2.6 Gas detection systems. Emergency power and standby power shall be maintained for gas detection systems in accordance with the applicable building code.

15. Change Section 1203.2.7 to read:

1203.2.7 Group I-2 occupancies. Essential electrical systems for Group I-2 occupancies shall be maintained in accordance with NFPA 70 when required by the applicable building code.

16. Change Section 1203.2.8 to read:

1203.2.8 Group I-3 occupancies. Power-operated sliding doors or power-operated locks for swinging doors in Group I-3 occupancies shall be operable by a manual release mechanism at the door and emergency power provided for the doors and locks shall be maintained where required by the applicable building code.

17. Change Section 1203.2.9 to read:

1203.2.9 Hazardous materials. Emergency and standby power shall be maintained in accordance with NFPA 70 in occupancies with hazardous materials when required by the applicable building code.

18. Delete Section 1203.2.10.

19. Change Section 1203.2.11 to read:

1203.2.11 Horizontal sliding doors. Standby power shall be maintained in accordance with NFPA 70 for horizontal sliding doors as required by the applicable building code. The standby power supply shall have a capacity to operate not fewer than 50 closing cycles of the door unless otherwise specified by the applicable building code.

20. Change Section 1203.2.12 to read:

1203.2.12 Hydrogen fuel gas rooms. Standby power shall be maintained in accordance with NFPA 70 for hydrogen fuel gas rooms as required by the applicable building code.

21. Change Section 1203.2.13 Laboratory suites to read:

1203.2.13 Laboratory suites. Standby or emergency power for laboratory suites shall be maintained in accordance with the applicable building code.

22. Change Section 1203.2.14 to read:

1203.2.14 Means of egress illumination. Emergency power shall be maintained for means of egress illumination in accordance with the applicable building code.

23. Change Section 1203.2.15 to read:

1203.2.15 Membrane structures. Standby power shall be maintained for auxiliary inflation systems in permanent membrane structures in accordance with applicable building code. Auxiliary inflation systems shall be provided in temporary air-supported and air-inflated membrane structures in accordance with Section 3103.10.4.

24. Change Section 1203.2.16 to read:

1203.2.16 Semiconductor fabrication facilities. Emergency power shall be maintained in accordance with NFPA 70 for semiconductor fabrication facilities as required by the applicable building code.

25. Change Section 1203.2.17 to read:

1203.2.17 Smoke control systems. Standby power shall be maintained in accordance with NFPA 70 for smoke control as required by the applicable building code.

26. Change Section 1203.2.18 to read:

1203.2.18 Underground buildings. Emergency and standby power shall be maintained in accordance with NFPA 70 in underground buildings as required by the applicable building code.

27. Change Section 1203.3 to read:

1203.3 Critical circuits. Cables used for survivability of required critical circuits shall be listed. Electrical circuit protective systems shall be maintained in accordance with their listing requirements.

28. Change Section 1203.4 to read:

1203.4 Maintenance. Emergency and standby power systems shall be maintained in accordance with NFPA 70, NFPA 110, and NFPA 111 such that the system is capable of supplying service within the time specified for the type and duration required in accordance with the applicable building code.

29. Change Section 1203.5 to read:

1203.5 Operational inspection and testing. Emergency power systems, including all appurtenant components, shall be inspected and tested under load in accordance with NFPA 110, NFPA 70, and NFPA 111.

Exception: Where the emergency power system is used for standby power or peak load shaving, such use shall be recorded and shall be allowed to be substituted for scheduled testing of the generator set, provided that appropriate records are maintained.

30. Add Section 1203.7 to read:

1203.7 Testing of battery powered emergency lights and exit signs. Required emergency lighting utilizing battery powered emergency lights or exit signs, or both, shall be tested annually. The emergency lights and exit signs shall be tested for proper operation for the time period established in the building code in effect when the equipment was installed. Written records of tests shall be retained by the owner of the building for a minimum of two years after the test is conducted and shall be made available to the fire code official upon request.

C. Make the following changes to Section 1204, Solar photovoltaic power systems.

1. Change Section 1204.1 to read:

~~(N)~~1204.1 General. Solar photovoltaic power systems shall be maintained in accordance with Sections 1204.2 through 1204.5 and the applicable building code.

2. Change Section 1204.2 to read:

~~(N)~~1204.2 Access and pathways. Roof access, pathways, and spacing requirements shall be maintained in accordance with the applicable building code.

3. Delete Sections 1204.2.1 through 1204.3.3

4. Change Section 1204.4 to read:

~~(N)~~1204.4 Ground-mounted photovoltaic arrays. A clear, brush-free area of 10 feet (3048 mm) shall be maintained for ground-mounted photovoltaic arrays.

D. Make the following changes to Section 1205, Stationary fuel cell power systems.

1. Change Section 1205.1 to read:

1205.1 General. Stationary fuel cell power systems shall be maintained in accordance with the applicable building code.

2. Delete section 1205.2 and 1205.3.

3. Change Section 1205.4 to read:

1205.4 Maintenance. Stationary fuel cell power systems shall be maintained in accordance with the applicable building code, NFPA 70 and NFPA 853, the manufacturer's instructions, and the listing. Stationary fuel cell power systems fueled by hydrogen shall be maintained in accordance with the applicable building code, NFPA 2 and NFPA 70, the manufacturer's installation instructions, and the listing.

4. Delete Sections 1205.5 through 1205.6.2 and 1205.8 through 1205.13.1.

E. Make the following changes to Section 1206, Electric storage energy systems.

1. Change Section 1206.2 to read:

1206.2 Stationary storage battery systems. Stationary storage battery systems shall be maintained in accordance with the applicable building code.

2. Delete Sections 1206.2.1 through 1206.2.4 including Table 1206.2 and change Section 1206.2.7 to read:

1206.2.7 Testing, maintenance and repair. Storage batteries and associated equipment and systems shall be tested and maintained in accordance with the manufacturer's instructions and the applicable building code.

3. Delete Sections 1206.2.8 through 1206.2.8.5.1.

4. Delete Sections 1206.2.8.7 through 1206.2.12.6 including Table 1206.2.9.

5. Change Section 1206.3 to read:

1206.3 Capacitor energy storage systems. Capacitor energy storage systems shall be maintained in accordance with the applicable building code.

6. Delete Sections 1206.3.1 through 1206.3.2.3.

7. Delete Sections 1206.3.2.6 through 1206.3.5.4.

8. Change Section 1206.3.6 to read:

1206.3.6 Testing, maintenance and repair. Capacitors and associated equipment and systems shall be tested maintained and repaired in accordance with the manufacturer's instructions and the applicable building code.

13VAC5-51-138.4. ~~Ifc~~ IFC Chapter 20 Aviation Facilities.

A. The following change shall be made to Section 2001, General:

Change Section 2001.3 to read:

2001.3 Permits. For permits to operate aircraft-refueling vehicles, application of flammable or combustible finishes and hot work, see Section 107.2.

B. The following changes shall be made to Section 2007, Helistops and Heliports:

1. Change Section 2007.1 to read:

~~(N)~~2007.1 General. Helistops and heliports shall be maintained in accordance with the applicable building code.

2. Change Section 2007.4 to read:

2007.4 Exits. Exits and stairways shall be maintained in accordance with the applicable building code.

3. Change Section 2007.5 to read:

~~(N)~~2007.5 Standpipe systems. Where provided, standpipe systems shall be maintained in accordance with the applicable code.

4. Change Section 2007.6 to read:

~~(N)~~2007.6 Foam protection. Where provided, foam fire-protection systems shall be maintained in accordance with the applicable building code.

13VAC5-51-138.8. ~~Ifc~~ IFC Chapter 21 Dry Cleaning.

A. The following change shall be made to Section 2101, General:

Change Section 2101.2 to read:

2101.2 Permit required. Permits shall be required as set forth in Section 107.2.

B. The following change shall be made to Section 2103, Classifications:

Change Section 2103.3 to read:

2103.3 Design. The occupancy classification, design and construction of dry cleaning plants shall be maintained in accordance with the applicable building code.

C. The following changes shall be made to Section 2104, General Requirements:

1. Change Section 2104.2.1 to read:

~~(N)~~2104.2.1 Ventilation. Ventilation shall be maintained in accordance with the applicable building code.

2. Change Section 2104.2.3 to read as follows:

2104.2.3 Electrical wiring and equipment. Electrical wiring and equipment in dry cleaning rooms or other locations subject to flammable vapors shall be maintained in accordance with the applicable building code.

D. The following changes shall be made to Section 2105, Operating Requirements:

1. Change Section 2105.2.3 to read:

~~(N)~~2105.2.3 Ventilation. Ventilation shall be maintained in accordance with the applicable building code.

2. Change Section 2105.3 to read:

~~(N)~~2105.3 Types IV and V systems. Types IV and V dry cleaning systems shall be maintained in accordance with the applicable building code.

E. The following change shall be made to Section 2106, Spotting and Pretreating:

Change Section 2106.3 to read as follows:

2106.3 Class II or III solvents. Scouring, brushing, and spotting and pretreating shall be permitted to be conducted with Class II or III solvents. The maximum quantity of Class II or III solvents permitted at any work station shall be 1 gallon (4 L).

F. The following changes shall be made to Section 2107, Dry Cleaning Systems:

1. Change Section 2107.1 to read as follows:

2107.1 General equipment requirements. Dry cleaning systems, including dry cleaning units, washing machines, stills, drying cabinets, tumblers and their appurtenances, including pumps, piping, valves, filters and solvent coolers, shall be maintained in accordance with NFPA 32.

2. Delete Section 2107.2.

3. Change ~~Section~~ Sections 2107.2.1 and 2107.2.2 to read:

2107.2.1 Fire-fighting access. Where required by the applicable building code, access shall be maintained from one side of type II dry cleaning rooms, for fire-fighting and fire control purposes in accordance with Section 503.

~~(N)~~2107.2.2 Number of means of egress. The number and means of egress for Type II dry cleaning rooms shall be maintained in accordance with the applicable building code.

4. Change Section 2107.2.3 to read as follows:

2107.2.3 Spill control and secondary containment. Curbs, drains or other provisions for spill control and secondary containment shall be maintained in accordance with the applicable building code.

5. Change Section 2107.3 to read as follows:

2107.3 Solvent storage tanks. Solvent storage tanks for Classes II, IIIA and IIIB liquids shall be maintained in accordance with the applicable building code.

G. The following changes shall be made to Section 2108, Fire Protection:

1. Change Section 2108.1 to read as follows:

2108.1 General. Fire protection systems, devices, and equipment shall be maintained in accordance with the applicable building code.

2. Change Section 2108.2 to read:

~~(N)~~2108.2 Automatic sprinkler system. Where installed, an automatic sprinkler system shall be maintained in accordance with the applicable building code.

3. Delete Section 2108.3.

13VAC5-51-139. ~~Ifc~~ IFC Chapter 22 Combustible Dust-Producing Operations.

A. Change Section 2201.2 to read:

2201.2 Permits. Permits shall be required for combustible dust-producing operations as set forth in Section 107.2.

B. Delete Sections 2203.1 and 2303.2.

13VAC5-51-140. ~~Ifc~~ IFC Chapter 23 Motor Fuel-Dispensing Facilities and Repair Garages.

A. The following changes shall be made to Section 2301, General:

1. Change Section 2301.1 to read:

2301.1 Scope. The operation and maintenance of automotive motor fuel-dispensing facilities, marine motor fuel-dispensing facilities, fleet vehicle motor fuel-dispensing facilities, aircraft motorvehicle fuel-dispensing facilities, and repair garages shall be in accordance with this chapter. Such operations shall include both those that are accessible to the public and private operations.

2. Change Section 2301.2 to read:

2301.2 Permits. Permits shall be required as set forth in Section 107.2.

3. Delete Section 2301.3.

4. Change Section 2301.4 to read:

~~(N)~~2301.4 Indoor motor fuel-dispensing facilities. Motor fuel-dispensing facilities located inside buildings shall be maintained in accordance with NFPA 30A and the applicable building code.

5. Change Section 2301.5 to read:

~~(N)~~2301.5 Electrical. Electrical wiring and equipment shall be maintained in accordance with NFPA 30A and the applicable building code.

6. Change Section 2301.6 to read:

2301.6 Heat-producing appliances. Heat-producing appliances shall be suitable for the locations in which they are installed and shall comply with NFPA 30A.

B. The following changes shall be made to Section 2303, Location of Dispensing Devices:

1. Change Section 2303.1 to read:

~~(N)~~2303.1 Location of dispensing devices. Dispensing devices shall be maintained in accordance with the applicable building code.

2. Change Section 2303.2 ~~to read~~ and delete Section 2303.2.1~~:~~.

~~(N)~~2303.2 Emergency disconnect switches. Emergency disconnect switches shall be maintained in accordance with the applicable building code.

C. The following changes shall be made to Section 2304, Dispensing Operations:

1. Change Section 2304.2.2 to read:

~~(N)~~2304.2.2 Emergency controls. Approved emergency controls shall be provided in accordance with the applicable building code.

2. Change Section 2304.3.2 to read:

~~(N)~~2304.3.2 Dispensers. Dispensing devices shall be maintained in accordance with the applicable building code.

3. Change Section 2304.3.3 to read:

2304.3.3 Emergency controls. Approved emergency controls shall be maintained in accordance with the applicable building code. Emergency controls shall be of a type that is only manually resettable.

4. Change Section 2304.3.5 to read:

2304.3.5 Emergency procedures. An approved emergency procedures sign, in addition to the signs required by Section 2305.6, shall be posted and maintained in a conspicuous location and shall read:

IN CASE OF FIRE SPILL OR RELEASE
1. USE EMERGENCY PUMP SHUTOFF
2. REPORT THE ACCIDENT!
FIRE DEPARTMENT TELEPHONE NO._____
FACILITY ADDRESS:_____

D. The following changes shall be made to Section 2305, Operational Requirements:

1. Change Section 2305.2.4 to read:

2305.2.4 Emergency shutoff valves. Automatic emergency shutoff valves shall be checked not less than once each year by manually tripping the hold-open linkage.

2. Change Section 2305.2.5 to read:

2305.2.5 Leak detectors. Leak detection devices shall be checked and tested not less than annually in accordance with the manufacturer's specifications to ensure proper installation and operation.

3. Change Section 2305.4 to read:

2305.4 Sources of ignition. Smoking and open flames shall be prohibited within 20 feet (6096 mm) of a fuel dispensing device. The engines of vehicles being fueled shall be shut off during fueling. Electrical equipment shall be in accordance with NFPA 70.

E. The following changes shall be made to Section 2306, Flammable and Combustible Liquid Motor Fuel-Dispensing Facilities:

1. Change Section 2306.1 to read:

2306.1 General. Operation and maintenance of flammable and combustible liquid motor fuel-dispensing facilities shall be in accordance with Chapter 57 and Sections 2306.2 through 2306.6.3 and other applicable provisions of this code.

2. Change Section 2306.2.1.1 to read:

2306.2.1.1 Inventory control and leak detection for underground tanks. Accurate inventory records shall be maintained on underground fuel storage tanks for indication of possible leakage from tanks and piping. The records shall be kept at the premises or made available for inspection by the fire official within 24 hours of a written or verbal request and shall include records for each tank. Where there is more than one system consisting of tanks serving separate pumps or dispensers for a product, the inventory record shall be maintained separately for each tank system.

Owners and operators of underground fuel storage tanks shall provide release detection for tanks and piping that routinely contain flammable and combustible liquids in accordance with one of the following methods:

1. Monthly inventory control to detect a release of at least 1.0% of flow-through plus 130 gallons.

2. Manual tank gauging for tanks with 2,000 gallon capacity or less when measurements are taken at the beginning and ending of a 36-hour to 58-hour period during which no liquid is added to or removed from the tank.

3. Tank tightness testing capable of detecting a 0.1 gallon per hour leak rate.

4. Automatic tank gauging that tests for loss of liquid.

5. Vapor monitoring for vapors within the soil of the tank field.

6. Groundwater monitoring when the groundwater is never more than 20 feet from the ground surface.

7. Interstitial monitoring between the underground tank and a secondary barrier immediately around or beneath the tank.

8. Other approved methods that have been demonstrated to be as effective in detecting a leak as the methods listed above.

A consistent or accidental loss of product shall be immediately reported to the fire official.

3. Change Section 2306.2.2 to read:

~~(N)~~2306.2.2 Aboveground tanks located inside buildings. Aboveground tanks for the storage of Classes I, II and IIIA liquid fuels located in buildings shall be maintained in accordance with the applicable building code.

4. Change Section 2306.2.3 to read:

~~(N)~~2306.2.3 Aboveground tanks located outside above grade. Aboveground tanks located outside shall be maintained in accordance with the applicable building code.

5. Delete Table 2306.2.3.

6. Change Section 2306.2.4 to read:

~~(N)~~2306.2.4 Aboveground tanks located in above-grade vaults or below-grade vaults. Aboveground tanks located in above-grade vaults or below-grade vaults shall be maintained in accordance with the applicable building code.

7. Delete Section 2306.2.4.1.

8. Change Section 2306.2.4.2 to read:

~~(N)~~2306.2.4.2 Fleet vehicle motor fuel-dispensing facilities. Tanks storing liquids at a fleet vehicle motor fuel-dispensing facility shall be maintained in accordance with the applicable building code.

9. Change Section 2306.2.6 to read:

~~(N)~~2306.2.6 Special enclosures. Special enclosures shall be maintained in accordance with the applicable building code.

10. Change Section 2306.5 to read:

~~(N)~~2306.5 Secondary containment. Aboveground tanks provided with drainage control or diking shall be maintained in accordance with Chapter 57 and the applicable building code.

11. Change Section 2306.6 to read:

~~(N)~~2306.6 Piping, valves, fittings and ancillary equipment for use with flammable or combustible liquids. The design, fabrication, assembly, testing and inspection of piping, valves, fittings and ancillary equipment for use with flammable or combustible liquids shall be maintained in accordance with the applicable building code.

12. Change Section 2306.6.2 to read:

~~(N)~~2306.6.2 Piping, valves, fittings and ancillary equipment for aboveground tanks for Classes I, II and III liquids. Piping, valves, fittings and ancillary equipment for aboveground tanks shall be maintained in accordance with the applicable building code.

13. Delete Section 2306.6.2.1.

14. Change Section 2306.6.2.2 to read:

~~(N)~~2306.6.2.2 Fill-pipe connections. The fill pipe for aboveground tanks shall be maintained in accordance with the applicable building code.

15. Change Section 2306.6.2.3 to read:

~~(N)~~2306.6.2.3 Overfill protection. Overfill protection shall be in accordance with the applicable building code.

16. Change Section 2306.6.2.4 to read:

~~(N)~~2306.6.2.4 Siphon prevention. An approved antisiphon method shall be maintained in accordance with the applicable building code.

17. Change Section 2306.6.2.5 to read:

~~(N)~~2306.6.2.5 Emergency relief venting. Aboveground storage tanks, tank compartments, and enclosed secondary containment spaces shall be maintained in accordance with the applicable building code.

18. Change Section 2306.6.2.6 to read:

~~(N)~~2306.6.2.6 Spill containers. Spill containers shall be maintained in accordance with the applicable building code.

19. Change Section 2306.6.3 to read:

~~(N)~~2306.6.3 Piping, valves, fittings and ancillary equipment for underground tanks. Piping, valves, fittings and ancillary equipment for underground tanks shall be maintained in accordance with the applicable building code.

20. Change Section 2306.7 to read:

~~(N)~~2306.7 Fuel-dispensing systems for flammable or combustible liquids. Fuel-dispensing systems for flammable or combustible liquid fuels shall be maintained in accordance with the applicable building code.

21. Delete Section 2306.7.1.

22. Delete Section 2306.7.2.

23. Change Section 2306.7.3 to read:

~~(N)~~2306.7.3 Mounting of dispensers. Dispensing devices, except those installed on top of a protected aboveground tank that qualifies as vehicle-impact resistant, shall be maintained in accordance with the applicable building code.

24. Change Section 2306.7.4 to read:

~~(N)~~2306.7.4 Dispenser emergency shutoff valve. Dispenser emergency shutoff valves shall be maintained in accordance with the applicable building code.

25. Change Section 2306.7.5 to read:

~~(N)~~2306.7.5 Dispenser hose. Dispenser hoses shall be maintained in accordance with the applicable building code.

26. Change Section 2306.7.5.1 to read:

~~(N)~~2306.7.5.1 Emergency breakaway devices. Emergency breakaway devices shall be maintained in accordance with the applicable building code.

27. Change Section 2306.7.6 to read:

~~(N)~~2306.7.6 Fuel delivery nozzles. Fuel delivery nozzles shall be maintained in accordance with the applicable building code.

28. Delete Section 2306.7.6.1.

29. Change Section 2306.7.7 to read:

~~(N)~~2306.7.7 Remote pumping systems. Remote pumping systems for liquid fuels shall be maintained in accordance with the applicable building code.

30. Change Section 2306.7.7.1 to read:

~~(N)~~2306.7.7.1 Leak detection. Leak detection devices shall be maintained in accordance with the applicable building code.

31. Delete Section 2306.7.7.2.

32. Change Section 2306.7.9 to read:

~~(N)~~2306.7.9 Vapor-recovery and vapor-processing systems. Vapor-recovery and vapor-processing systems shall be maintained in accordance with the applicable building code.

33. Change Section 2306.7.9.1 to read:

~~(N)~~2306.7.9.1 Vapor-balance systems. Vapor-balance systems shall be maintained in accordance with the applicable building code.

34. Change Section 2306.7.9.1.1 to read:

~~(N)~~2306.7.9.1.1 Dispensing devices. Dispensing devices shall be maintained in accordance with the applicable building code.

35. Change Section 2306.7.9.1.2 to read:

~~(N)~~2306.7.9.1.2 Vapor-return line closeoff. Vapor-return line closeoffs shall be maintained in accordance with the applicable building code.

36. Change Section 2306.7.9.1.3 to read:

~~(N)~~2306.7.9.1.3 Piping. Piping in vapor-balance systems shall be maintained in accordance with the applicable building code.

37. Change Section 2306.7.9.1.4 to read:

~~(N)~~2306.7.9.1.4 Flexible joints and shear joints. Flexible joints and shear joints shall be maintained in accordance with the applicable building code.

38. Delete Section 2306.7.9.1.5.

39. Change Section 2306.7.9.2 to read:

~~(N)~~2306.7.9.2 Vapor-processing systems. Vapor-processing systems shall be maintained in accordance with the applicable building code.

40. Change Section 2306.7.9.2.1 to read:

~~(N)~~2306.7.9.2.1 Equipment. Equipment in vapor-processing systems, including hose nozzle valves, vapor pumps, flame arresters, fire checks or systems for prevention of flame propagation, controls, and vapor-processing equipment, shall be maintained in accordance with the applicable building code.

41. Delete Section 2306.7.9.2.2.

42. Delete Section 2306.7.9.2.2.1.

43. Change Section 2306.7.9.2.2.2 to read:

~~(N)~~2306.7.9.2.2.2 Physical protection. Physical protection for vapor-processing equipment shall be maintained in accordance with the applicable building code.

44. Delete Section 2306.7.9.2.2.3.

45. Delete Section 2306.7.9.2.3.

46. Change Section 2306.7.9.2.4 to read:

~~(N)~~2306.7.9.2.4 Piping. Piping in a mechanical-assist system shall be maintained in accordance with the applicable building code.

47. Change Section 2306.8 to read:

~~(N)~~2306.8 Alcohol-blended fuel-dispensing operations. Alcohol-blended fuel-dispensing systems shall be maintained in accordance with the applicable building code.

48. Delete Section 2306.8.2.

49. Delete Section 2306.8.3.

~~50. Delete Section 2306.8.4.~~

F. The following changes shall be made to Section 2307, Liquefied Petroleum Gas Motor Fuel-Dispensing Facilities:

1. Change Section 2307.1 to read:

~~(N)~~2307.1 General. Operation and maintenance of motor fuel-dispensing facilities for liquefied petroleum gas (LP-gas) fuel shall be in accordance with this section and other applicable provisions of this code.

2. Delete Section 2307.2.

3. Delete Section 2307.2.1.

4. Delete Section 2307.2.2.

5. Change Section 2307.3 to read:

2307.3 Attendants. Motor fuel-dispensing operations for LP-gas shall be conducted by qualified attendants or by persons trained in the proper handling of LP-gas.

6. Change Section 2307.4 to read:

~~(N)~~2307.4 Location of dispensing operations and equipment. LP-gas containers shall be located in accordance with the applicable building code.

7. Delete Section 2307.5.

8. Delete Section 2307.6.

9. Delete Section 2307.6.1.

10. Change Section 2307.6.2 to read:

~~(N)~~2307.6.2 Hoses. Hoses and piping for the dispensing of LP-gas shall be maintained in accordance with the applicable building code.

11. Delete Section 2307.6.3.

12. Change Section 2307.7 to read:

~~(N)~~2307.7 Public fueling of motor vehicles. Self-service LP-gas dispensing systems, including key, code, and card lock dispensing systems, shall be limited to the filling of permanently mounted containers providing fuel to the LP-gas powered vehicle.

The requirements for self-service LP-gas dispensing systems shall be in accordance with the following:

1. The arrangement and operation of the transfer of product into a vehicle shall be in accordance with this section and Chapter 61.

2. The owner of the LP-gas motor fuel-dispensing facility or the owner's designee shall provide for the safe operation of the system and the training of users.

3. Portable fire extinguishers shall be provided in accordance with Section 2305.5.

4. Warning signs shall be provided in accordance with Section 2305.6.

5. The area around the dispenser shall be maintained in accordance with Section 2305.7.

G. The following changes shall be made to Section 2308, Compressed Natural Gas Motor Fuel-Dispensing Facilities:

1. Change Section 2308.1 to read:

2308.1 General. Motor fuel-dispensing facilities for compressed natural gas (CNG) fuel shall be maintained in accordance with the applicable building code.

2. Change Section 2308.2.2 to read:

~~(N)~~2308.2.2 Listed equipment. Hoses, hose connections, dispensers, gas detection systems, and electrical equipment used for CNG shall be listed. Vehicle-fueling connections shall be listed and labeled and maintained in accordance with the applicable building code.

3. Delete Section 2308.3.

4. Delete Section 2308.3.1.

5. Change Section 2308.5 to read:

~~(N)~~2308.5 Pressure regulators. Pressure regulators shall be maintained in accordance with the applicable building code.

6. Change Section 2308.6 to read:

~~(N)~~2308.6 Valves. Gas piping to equipment shutoff valves shall be maintained in accordance with the applicable building code.

7. Change Section 2308.7 to read:

~~(N)~~2308.7 Emergency shutdown control. Emergency shutdown controls shall be maintained in accordance with the applicable building code.

H. The following changes shall be made to Section 2309, Hydrogen Motor Fuel-Dispensing and Generation Facilities:

1. Change Section 2309.1 to read:

2309.1 General. Operation and maintenance of hydrogen motor fuel-dispensing and generation facilities shall be in accordance with this section and other applicable provisions of this code. Where a fuel-dispensing facility includes a repair garage, the repair operation shall comply with Section 2311.

2. Change Section 2309.2 to read:

~~(N)~~2309.2 Equipment. Equipment used for the generation, compression, storage, or dispensing of hydrogen shall be maintained in accordance with the applicable building code.

3. Change Section 2309.2.1 to read:

~~(N)~~2309.2.1 Approved equipment. Cylinders, containers, and tanks; pressure relief devices, including pressure valves; hydrogen vaporizers; pressure regulators; and piping used for gaseous hydrogen systems shall be maintained in accordance with the applicable building code.

4. Change Section 2309.2.2 to read:

~~(N)~~2309.2.2 Listed or approved equipment. Hoses, hose connections, compressors, hydrogen generators, dispensers, detection systems, and electrical equipment used for hydrogen shall be listed or approved for use with hydrogen and maintained in accordance with the applicable building code.

5. Change Section 2309.2.3 to read:

~~(N)~~2309.2.3 Electrical equipment. Electrical installations shall be maintained in accordance with the applicable building code.

6. Change Section 2309.3 to read:

~~(N)~~2309.3 Location on property. Location of dispensing equipment shall be maintained in accordance with the applicable building code.

7. Change Section 2309.1.1. to read:

~~(N)~~2309.3.1.1 Outdoors. Generation, compression, or storage equipment shall be maintained in accordance with the applicable building code.

8. Change Section 2309.3.1.2 to read:

~~(N)~~2309.3.1.2 Indoors. Generation, compression, storage and dispensing equipment shall be maintained in accordance with the applicable building code.

9. Change Section 2309.3.1.3 to read:

~~(N)~~2309.3.1.3 Gaseous hydrogen storage. Storage of gaseous hydrogen shall be maintained in accordance with the applicable building code.

10. Change Section 2309.3.1.4 to read:

~~(N)~~2309.3.1.4 Liquefied hydrogen storage. Storage of liquefied hydrogen shall be maintained in accordance with the applicable building code.

11. Change Section 2309.3.1.5 to read:

~~(N)~~2309.3.1.5 Canopy tops. Gaseous hydrogen compression and storage equipment located on top of motor fuel-dispensing facility canopies shall be maintained in accordance with the applicable building code.

12. Delete Section 2309.3.1.5.1.

13. Change Section 2309.3.1.5.2 to read:

~~(N)~~2309.3.1.5.2 Fire-extinguishing systems. Fire-extinguishing provided for fuel-dispensing areas under canopies shall be maintained in accordance with the applicable building code.

14. Delete Section 2309.3.1.5.3.

15. Delete Section 2309.3.1.5.4.

16. Delete Section 2309.3.2.

17. Change Section 2309.4.1 to read:

~~(N)~~2309.4.1 Dispensing systems. Dispensing systems shall be maintained in accordance with the applicable building code.

18. Change Section 2309.5 to read:

~~(N)~~2309.5 Safety precautions. Safety precautions at hydrogen motor fuel-dispensing and generation facilities shall be in accordance with Sections 2309.5.1 through 2309.5.3.

19. Change Section 2309.5.2 to read:

~~(N)~~2309.5.2 Emergency shutoff valves. Manual emergency shutoff valves shall be maintained in accordance with the applicable building code.

20. Change Section 2309.5.3 to read:

~~(N)~~2309.5.3 Emergency shutdown controls. Emergency shutdown controls shall be maintained in accordance with the applicable building code.

21. Delete Section 2309.5.3.1.

22. Change Section 2309.6 to read:

2309.6 Repairs, purging, defueling and discharge. The purging, defueling or discharge activities associated with hydrogen motor fuel supply systems and tanks shall be in accordance with Chapters 53 and 58 and NFPA 2.

Exception: The fuel supply piping from the fuel storage tank to the engine compartment on a motor vehicle or forklift.

~~Change Section 2309.6.1.2.1.2 to read:~~

~~(N)2309.6.1.2.1.2 Vent pipe maximum diameter. Vent pipe diameter shall be maintained in accordance with the applicable building code.~~

~~23. Change Section 2309.6.1.2.1.3 to read:~~

~~(N)2309.6.1.2.1.3 Maximum flow rate. The maximum rate of hydrogen flow through the vent pipe system shall be maintained in accordance with the applicable building code.~~

~~24. Delete Section 2309.6.1.2.2.~~

~~25. Delete Section 2309.6.1.2.3.~~

~~26. Change Section 2309.6.1.2.4 to read:~~

~~(N)2309.6.1.2.4 Grounding and bonding. Grounding and bonding of cylinders, containers or tanks, and piping shall be maintained in accordance with the applicable building code.~~

~~27. Change Section 2309.6.2 to read:~~

~~(N)2309.6.2 Repair of hydrogen piping. Piping systems containing hydrogen shall not be opened to the atmosphere for repair without first purging the piping with an inert gas to achieve 1% hydrogen or less by volume.~~

I. The following changes shall be made to Section 2310, Marine Motor Fuel-Dispensing Facilities:

1. Change Section 2310.1 to read:

2310.1 General. The construction of marine motor fuel-dispensing facilities shall be in accordance with this section and other applicable provisions of this code.

2. Change Section 2310.2 to read:

~~(N)~~2310.2 Storage and handling. The storage and handling of Class I, II or IIIA liquids at marine motor fuel-dispensing facilities shall be maintained in accordance with the applicable building code.

3. Change Section 2310.2.1 to read:

~~(N)~~2310.2.1 Class I, II or IIIA liquid storage. Class I, II or IIIA liquids stored inside of buildings used for marine motor fuel-dispensing facilities shall be stored in accordance with the applicable building code.

4. Change Section 2310.2.2 to read:

~~(N)~~2310.2.2 Class II or IIIA liquid storage and dispensing. Class II or IIIA liquids stored or dispensed inside of buildings used for marine motor fuel-dispensing facilities shall be stored in and dispensed in accordance with the applicable building code.

5. Change Section 2310.2.3 to read:

~~(N)~~2310.2.3 Heating equipment. Heating equipment installed in Class I, II or IIIA liquid storage or dispensing areas shall be maintained in accordance with the applicable building code.

6. Change Section 2310.2.3.3 to read:

~~(N)~~2310.3.3 Hoses and nozzles. Hoses and nozzles shall be maintained in accordance with the applicable building code.

7. Change Section 2310.3.5 to read:

~~(N)~~2310.3.5 Liquefied petroleum gas. Liquefied petroleum gas cylinders shall not be filled at marine motor fuel-dispensing facilities unless approved.

8. Change Section 2310.6 to read:

~~(N)~~2310.6 Fire protection. Fire protection features for marine motor fuel-dispensing facilities shall be maintained in accordance with the applicable building code.

J. The following changes shall be made to Section 2311, Repair Garages:

1. Change Section 2311.1 to read:

2311.1 General. Operation and maintenance of repair garages shall comply be in accordance with this section and other applicable provisions of this code. Repair garages for vehicles that use more than one type of fuel shall comply with the applicable provisions of this section for each type of fuel used.

Where a repair garage includes a motor fuel-dispensing facility, the fuel-dispensing operation shall comply with the requirements of this chapter for motor fuel-dispensing facilities.

2. Change Section 2311.2 to read:

~~(N)~~2311.2 Storage and use of flammable and combustible liquids. The storage and use of flammable and combustible liquids in repair garages shall be maintained in accordance with the applicable building code.

3. Change Section 2311.2.3 to read:

~~(N)~~2311.2.3 Drainage and disposal of liquids and oil soaked waste. Contents of oil separators, traps and floor drainage systems shall be collected at sufficiently frequent intervals and removed from the premises to prevent oil from being carried into the sewers.

4. Change Section 2311.3.1 to read:

~~(N)~~2311.3.1 Equipment. Appliances and equipment installed in a repair garage shall be maintained in accordance with the applicable building code.

5. Change Section 2311.4 to read:

~~(N)~~2311.4 Below-grade areas. Pits and below-grade work areas in repair garages shall be maintained in accordance with the applicable building code.

6. Delete Section 2311.4.1.

7. Change Section 2311.4.2 to read:

~~(N)~~2311.4.2 Means of egress. Means of egress for pits and below-grade work areas shall be maintained in accordance with the applicable building code.

8. Change Section 2311.4.3 to read:

~~(N)~~2311.4.3 Ventilation. Where Class I liquids or LP-gas are stored or used within a building having a basement or pit wherein flammable vapors could accumulate, the basement or pit mechanical ventilation, where provided, shall be maintained in accordance with the applicable building code.

9. Change Section ~~2311.7.1 and 2311.8.8~~ 2311.8.2 to read:

~~(N)2311.7.1~~ 2311.8.2 Ventilation. Ventilation required for repair garages used for the repair of ~~natural gas-fueled vehicles or~~ hydrogen-fueled vehicles shall be maintained in accordance with the applicable building code.

Exception: Repair garages with natural ventilation when approved.

10. Delete ~~Section 2311.7.1.1~~ Sections 2311.8.3 through 2311.8.6.

11. Change Section 2311.8.8 to read:

2311.8.8 Ventilation. Ventilation required for repair garages used for the repair of vehicles fueled by CNG, LNG, or other lighter-than-air motor fuels, other than hydrogen, shall be maintained in accordance with the applicable building code.

~~Change Section 2311.7.1.2 to read:~~

~~(N)2311.7.1.2 Operation. The mechanical ventilation system shall be maintained in accordance with the applicable building code.~~

12. Delete Section 2311.8.8.1

13. Change Section ~~2311.7.2~~ 2311.8.8.2 to read:

2311.8.8.2 Operation. The mechanical ventilation system shall be maintained in accordance with the applicable building code.

14. Change Section 2311.8.9 to read:

~~(N)2311.7.2~~ 2311.8.9 Gas detection system. Gas detection systems required for repair garages used for repair of vehicles fueled by nonodorized gases, including hydrogen and nonodorized liquefied natural gas, shall be maintained in accordance with the applicable building code.

~~13.~~ 15. Delete ~~Section 2311.7.2.1~~ Section 2311.8.9.1 through 2311.8.10.

~~14. Delete Section 2311.7.2.1.1.~~

~~15. Delete Section 2311.7.2.2.~~

~~16. Delete Section 2311.7.2.3.~~

13VAC5-51-140.5. ~~Ifc~~ IFC Chapter 24 Flammable Finishes.

A. The following change shall be made to Section 2401, General:

Change Section 2401.3 to read:

2401.3 Permits. Permits shall be required as set forth in Section 107.2.

B. The following changes shall be made to Section 2403, Protection of Operations:

1. Change Section 2403.2.1 to read:

~~(N)~~2403.2.1 Electrical wiring and equipment. Electrical wiring and equipment shall be maintained in accordance with the applicable building code.

2. Change Section 2403.2.1.1 to read:

~~(N)~~2403.2.1.1 Flammable vapor areas. Electrical wiring and equipment in flammable vapor areas shall be of an explosion proof type approved for use in such hazardous locations and maintained in accordance with the applicable building code.

3. Change Section 2403.2.1.2 to read:

~~(N)~~2403.2.1.2 Areas subject to deposits of residues. Flammable vapor areas or drying operations that are subject to splashing or dripping of liquids shall be specifically approved for locations containing deposits of readily ignitable residue and explosive vapors.

4. Change Section 2403.2.1.3 to read:

~~(N)~~2403.2.1.3 Areas adjacent to spray booths. Electrical wiring and equipment located outside of, but within 5 feet (1524 mm) horizontally and 3 feet (914 mm) vertically of, openings in a spray booth or a spray room shall be maintained in accordance with the applicable building code.

5. Change Section 2403.2.5 to read:

~~(N)~~2403.2.5 Grounding. The grounding of metal parts of spray booths, exhaust ducts, and piping systems conveying Class I or II liquids shall be maintained in accordance with the applicable building code

C. The following changes shall be made to Section 2404, Spray Finishing:

1. Change Section 2404.1 to read:

~~(N)~~2404.1 General. The application of flammable or combustible liquids by means of spray apparatus in continuous or intermittent processes shall be in accordance with the requirements of Sections 2403 and 2404.

2. Delete Section 2404.2.

3. Delete Section 2404.3.

4. Change Section 2404.3.1 to read:

~~(N)~~2404.3.1 Spray rooms. Spray rooms shall be maintained in accordance with the applicable building code.

5. Change Section 2404.3.1.1 to read:

~~(N)~~2404.3.1.1 Floor. Combustible floor construction in spray rooms shall be maintained in accordance with the applicable building code.

6. Change Section 2404.3.2 to read:

~~(N)~~2404.3.2 Spray booths. Spray booths shall be maintained in accordance with the applicable building code.

7. Delete Section 2404.3.2.1.

8. Change Section 2404.3.2.2 to read:

~~(N)~~2404.3.2.2 Surfaces. The interior surfaces of spray booths shall be maintained in accordance with the applicable building code.

9. Change Section 2404.3.2.3 to read:

~~(N)~~2404.3.2.3 Floor. Combustible floor construction in spray booths shall be maintained in accordance with the applicable building code.

10. Change Section 2404.3.2.4 to read:

~~(N)~~2404.3.2.4 Means of egress. Means of egress shall be maintained in accordance with the applicable building code.

11. Change Section 2404.3.2.5 to read:

~~(N)~~2404.3.2.5 Clear space. A clear space of not less than 3 feet (914 mm) shall be maintained on all sides of the spray booth. This clear space shall be kept free of any storage or combustible construction.

12. Delete Section 2404.3.2.6.

13. Change Section 2404.3.3 to read:

~~(N)~~2404.3.3 Spraying spaces. Spraying spaces shall be maintained in accordance with the applicable building code.

14. Change Section 2404.3.3.1 to read:

~~(N)~~2404.3.3.1 Floor. Combustible floor construction in spraying spaces shall be maintained in accordance with the applicable building code.

15. Change Section 2404.4 to read:

~~(N)~~2404.4 Fire protection. Automatic fire-extinguishing systems provided for spray booths shall be maintained in accordance with the applicable building code.

16. Change Section 2404.6.2.1 to read:

~~(N)~~2404.6.2.1 Glass panels. Panels for luminaires or for observation shall be maintained in accordance with the applicable building code.

17. Change Section 2404.6.2.2 to read:

~~(N)~~2404.6.2.2 Exterior luminaires. Luminaires attached to the walls or ceilings of a flammable vapor area, but outside of any classified area and separated from the flammable vapor areas by vapor-tight glass panels, shall be maintained in accordance with the applicable building code.

18. Change Section 2404.6.2.3 to read:

~~(N)~~2404.6.2.3 Integral luminaires. Luminaires that are an integral part of the walls or ceiling of a flammable vapor area are allowed to be separated from the flammable vapor area by glass panels that are an integral part of the luminaire. Such luminaires shall be maintained in accordance with the applicable building code.

19. Change Section 2404.7 to read:

~~(N)~~2404.7 Ventilation. Mechanical ventilation of flammable vapor areas shall be maintained in accordance with the applicable building code.

20. Change Section 2404.7.1 to read:

~~(N)~~2404.7.1 Operation. Where provided, mechanical ventilation shall be kept in operation at all times while spraying operations are being conducted and for a sufficient time thereafter to allow vapors from drying coated articles and finishing material residue to be exhausted.

21. Delete Section 2404.7.2.

22. Change Section 2404.7.3 to read:

~~(N)~~2404.7.3 Air velocity. The required air velocity for ventilation systems shall be maintained in accordance with the applicable building code.

23. Change Section 2404.7.3.1 to read:

~~(N)~~2404.7.3.1 Open-face or open-front spray booth. For spray application operations conducted in an open-face or open-front spray booth, the ventilation system shall be maintained in accordance with the applicable building code.

24. Change Section 2404.7.3.2 to read:

~~(N)~~2404.7.3.2 Enclosed spray booth or spray room with openings for product conveyance. For spray application operations conducted in an enclosed spray booth or spray room with openings for product conveyance, the ventilation system shall be maintained in accordance with the applicable building code.

25. Delete Section 2404.7.5.

26. Change Section 2404.7.6 to read:

~~(N)~~2404.7.6 Termination point. The termination point for exhaust ducts discharging to the atmosphere shall be maintained in accordance with the applicable building code.

27. Change Section 2404.7.7 to read:

2404.7.7 Fan motors and belts. Electric motors driving exhaust fans shall not be placed inside booths or ducts, unless approved. Fan rotating elements shall be nonferrous or nonsparking or the casing shall consist

of, or be lined with, such material. Belts shall not enter the duct or booth unless the belt and pulley within the duct are tightly enclosed.

28. Change Section 2404.7.8 to read:

~~(N)~~2404.7.8 Filters. Air intake filters that are part of a wall or ceiling assembly shall be maintained.

29. Change Section 2404.7.8.1 to read:

~~(N)~~2404.7.8.1 Supports. Supports and holders for filters shall be maintained.

30. Change Section 2404.7.8.3 to read:

~~(N)~~2404.7.8.3 Maintaining air velocity. The required air velocity shall be maintained in accordance with the applicable building code.

31. Change Section 2404.7.8.4 to read:

~~(N)~~2404.7.8.4 Filter rolls. Filter rolls for spray booths shall be maintained in accordance with applicable building code.

32. Change Section 2404.7.8.7 to read:

~~(N)~~2404.7.8.7 Waterwash spray booths. Waterwash spray booths shall be maintained in accordance with the applicable building code.

33. Change Section 2404.8 to read:

~~(N)~~2404.8 Interlocks. Interlocks for spray application finishes shall be maintained in accordance with the applicable building code.

34. Delete Section 2404.8.1.

35. Change Section 2404.8.1.1 to read:

~~(N)~~2404.8.1.1 Alarm station. Where required, a manual fire alarm and emergency system shutdown station shall be maintained in accordance with the applicable building code.

36. Delete Section 2404.8.1.2.

37. Delete Section 2404.8.2.

38. Change Section 2404.9.3 to read:

~~(N)~~2404.9.3 Ventilation. Positive mechanical ventilation providing a minimum of six complete air changes per hour shall be maintained in accordance with the applicable building code.

39. Change Section 2404.9.4 to read:

~~(N)~~2404.9.4 Electrical wiring. Electrical wiring within 10 feet (3048 mm) of the floor and 20 feet (6096 mm) horizontally of the limited spraying space shall be designed for Class I, Division 2 locations in accordance with the applicable building code.

D. The following changes shall be made to Section 2405, Dipping Operations:

1. Delete Section 2405.2.

2. Delete Section 2405.3.

3. Change Section 2405.3.1 to read:

~~(N)~~2405.3.1 Overflow. Overflow piping required for dip tanks shall be maintained in accordance with the applicable building code.

4. Change Section 2405.3.2 to read:

~~(N)~~2405.3.2 Bottom drains. Bottom drains required for dip tanks shall be maintained in accordance with the applicable building code. Manual operation shall be from a safe, accessible location. Where gravity flow is not practicable, automatic pumps shall be provided.

5. Change Section 2405.4 to read:

~~(N)~~2405.4 Fire protection. Dip tank operations shall be protected in accordance with the applicable building code.

6. Change Section 2405.4.1 to read:

~~(N)~~2405.4.1 Fixed fire-extinguishing equipment. Fixed fire-extinguishing equipment required for dip tanks shall be maintained in accordance with the applicable building code.

7. Change Section 2405.4.1.1 to read:

~~(N)~~2405.4.1.1 Fire-extinguishing system. Fire-extinguishing systems provided for dip tanks maintained in accordance with the applicable building code.

8. Change Section 2405.7 to read:

~~(N)~~2405.7 Ventilation of flammable vapor areas. Ventilation provided for flammable vapor areas shall be maintained in accordance with the applicable building code.

9. Delete Section 2405.9.1.

10. Change Section 2405.9.2 to read:

~~(N)~~2405.9.2 Hoods. Hoods provided for tanks shall be maintained in accordance with the applicable building code.

11. Delete Section 2405.9.3.

12. Change Section 2405.9.4 to read:

~~(N)~~2405.9.4 Fire protection. Fire protection provided hardening and tempering tanks shall be maintained in accordance with the applicable building code.

13. Delete Section 2405.10.1.

14. Change Section 2405.11 to read:

~~(N)~~2405.11 Roll-coating operations. Roll-coating operations shall be maintained in accordance with the applicable building code.

E. The following changes shall be made to Section 2406, Powder Coating:

1. Change Section 2406.2 to read:

~~(N)~~2406.2 Location. Powder coating operations shall be conducted in enclosed powder coating rooms, enclosed powder coating facilities that are ventilated, or ventilated spray booths and in accordance with applicable building code.

2. Delete Section 2406.3.

3. Change Section 2406.4 to read:

~~(N)~~2406.4 Fire protection. Fire-extinguishing systems provided for areas used for powder coating shall be maintained in accordance with the applicable building code.

4. Delete Section 2406.4.1.

5. Change Section 2406.6.4 to read:

~~(N)~~2406.6.4 Grounding and bonding. Grounding and bonding provided for powder coating operations shall be maintained in accordance with the applicable building code.

6. Change Section 2406.7 to read:

~~(N)~~2406.7 Ventilation. Exhaust ventilation shall be maintained in accordance with the applicable building code.

F. The following changes shall be made to Section 2407, Electrostatic Apparatus:

1. Change Section 2407.2 to read:

~~(N)~~2407.2 Location and clear space. A sign stating the sparking distance shall be conspicuously posted near the assembly. The location and clear space required for electrostatic apparatus and devices shall be maintained in accordance with the applicable building code and manufacturer's instructions.

2. Delete Section 2407.3.

3. Change Section 2407.3.1 to read:

~~(N)~~2407.3.1 Barriers. Booths, fencing, railings or guards shall be in accordance with the applicable building code.

4. Change Section 2407.4 to read:

~~(N)~~2407.4 Fire protection. Fire-extinguishing systems provided for areas used for electrostatic spray finishing with fixed equipment shall be maintained in accordance with the applicable building code.

5. Change Section 2407.4.1 to read:

~~(N)~~2407.4.1 Protection for automated liquid electrostatic spray application equipment. Flame detection apparatus required for automated liquid electrostatic spray application equipment shall be maintained in accordance with the applicable building code.

6. Change Section 2407.7 to read:

~~(N)~~2407.7 Ventilation. Ventilation provided for flammable vapor areas shall be maintained in accordance with the applicable building code.

7. Change Section 2407.8 to read:

~~(N)~~2407.8 Emergency shutdown. Emergency shutdown controls shall be maintained in accordance with the applicable building code.

8. Change Section 2407.9 to read:

~~(N)~~2407.9 Ventilation interlock. Ventilation interlock required for electrostatic equipment shall be maintained in accordance with the applicable building code.

G. The following change shall be made to Section 2408, Organic Peroxides and Dual-Component Coatings:

Delete Section 2408.2.

H. The following changes shall be made to Section 2409, Indoor Manufacturing of Reinforced Plastics:

1. Change Section 2409.3 to read:

~~(N)~~2409.3 Fire protection. Automatic sprinkler systems provided for resin application areas shall be maintained in accordance with the applicable building code.

2. Change Section 2409.6 to read:

~~(N)~~2409.6 Ventilation. Mechanical ventilation shall be maintained in accordance with the applicable building code.

3. Change Section 2409.6.1 to read:

~~(N)~~2409.6.1 Local ventilation. Local ventilation shall be maintained in accordance with the applicable building code.

13VAC5-51-141. ~~Ifc~~ IFC Chapter 25 Fruit and Crop Ripening.

A. The following changes shall be made to Section 2501, General:

1. Change Section 2501.2 to read:

2501.2 Permits. Permits shall be required as set forth in Section 107.2.

2. Change Section 2501.3 to read:

2501.3 Ethylene generators. Approved ethylene generators shall be operated and maintained in accordance with the applicable building code.

B. The following change shall be made to Section 2503, Ethylene Gas:

Change Section 2503.2 to read:

~~(N)~~2503.2 Dispensing. Valves controlling discharge of ethylene shall be maintained in accordance with the applicable building code.

C. The following changes shall be made to Section 2504, Sources of Ignition:

1. Change Section 2504.1 to read:

~~(N)~~2504.1 Ignition prevention. Sources of ignition shall be controlled or protected in accordance with the applicable building code.

2. Change Section 2504.2 to read:

~~(N)~~2504.2 Electrical wiring and equipment. Electrical wiring and equipment, including luminaires, shall be maintained in accordance with the applicable building code.

3. Change Section 2504.3 to read:

~~(N)~~2504.3 Static electricity. Bonding and grounding provided for containers, piping and equipment shall be maintained in accordance with the applicable building code.

4. Change Section 2504.5 to read:

~~(N)~~2504.5 Heating. Heating shall be maintained in accordance with the applicable building code.

D. The following changes shall be made to Section 2506, Ethylene Generators:

1. Change Section 2506.1 to read:

~~(N)~~2506.1 Ethylene generators. Ethylene generators shall be listed and labeled by an approved testing laboratory, approved, and used only in approved rooms in accordance with the ethylene generator manufacturer's instructions. The listing evaluation shall include documentation that the concentration of ethylene gas does not exceed 25% of the lower explosive limit (LEL).

2. Change Section 2506.2 to read:

~~(N)~~2506.2 Ethylene generator rooms. Ethylene generator rooms shall be maintained in accordance with the applicable building code.

13VAC5-51-141.5. ~~Ifc~~ IFC Chapter 26 Fumigation and Insecticidal Fogging.

Change Section 2601.2 to read:

2601.2 Permits. Permits shall be required as set forth in Section 107.2.

13VAC5-51-142. ~~Ifc~~ IFC Chapter 27 Semiconductor Fabrication Facilities.

A. Change Section 2701.1 to read:

2701.1 Scope. Semiconductor fabrication facilities and comparable research and development areas classified as Group H-5 shall comply with this chapter to the extent that the provisions of this chapter relate to operation and maintenance and not to the construction of Group H-5 buildings or structures.

B. Delete Section 2701.4.

C. Change Section 2701.5 to read:

2701.5 Permits. Permits shall be required as set forth in Section 107.2.

D. Change Section 2703.1.3 to read:

~~(N)~~2703.1.3 Signals. Emergency equipment and alarm and detection systems providing signals to emergency control stations shall be maintained in accordance with the applicable building code.

E. Change Section 2703.2.2 to read:

2703.2.2 General requirements. In addition to the requirements in Section 2703.2, systems, equipment and processes shall also comply with Section 5003.2~~,~~ and other applicable provisions of this code.

F. Delete Sections 2703.3 and 2703.3.1.

G. Change Section 2703.3.2 through 2703.3.8 to read:

~~(N)~~2703.3.2 Pass-throughs in exit access corridors. Pass-throughs in exit access corridors shall be in accordance with the applicable building code.

~~(N)~~2703.3.3 Liquid storage rooms. Liquid storage rooms shall be maintained in accordance with the applicable building code.

~~(N)~~2703.3.4 HPM rooms. Hazardous production materials (HPM) rooms shall be maintained in accordance with the applicable building code.

~~(N)~~2703.3.5 Gas cabinets. Gas cabinets shall be maintained in accordance with the applicable building code.

~~(N)~~2703.3.6 Exhausted enclosures. Exhausted enclosures shall be maintained in accordance with the applicable building code.

~~(N)~~2703.3.7 Gas rooms. Gas rooms shall be maintained in accordance with the applicable building code.

~~(N)~~2703.3.8 Service corridors. Service corridors shall be maintained in accordance with the applicable building code.

H. Change Sections 2703.7 and 2703.7.1 to read:

~~(N)~~2703.7 Electrical wiring and equipment. Electrical wiring and equipment in HPM facilities shall be maintained in accordance with the applicable building code.

~~(N)~~2703.7.1 Fabrication areas. Electrical wiring and equipment in fabrication areas shall be maintained in accordance with the applicable building code.

I. Delete Section 2703.7.2.

J. Change Section 2703.7.3 to read:

~~(N)~~2703.7.3 HPM rooms, gas rooms, and liquid storage rooms. Electrical wiring and equipment in HPM rooms, gas rooms, and liquid storage rooms shall be maintained in accordance with the applicable building code.

K. Change Section 2703.7.10 to read:

~~(N)~~2703.10 Automatic sprinkler system. Automatic sprinkler systems shall be maintained in accordance with the applicable building code.

L. Delete Sections 2703.10.1 and 2703.10.1.1.

M. Delete Sections 2703.10.2 through 2703.10.4.4.1.

N. Change Sections 2703.10.4.4.2 and 2703.10.4.4.3 to read:

~~(N)~~2703.10.4.4.2 Control valve. Control valves provided for sprinklers installed in exhaust ducts shall be maintained in accordance with the applicable building code.

~~(N)~~2703.10.4.4.3 Drainage. Drainage provided to remove sprinkler water discharged in exhaust ducts shall be maintained.

O. Delete Section 2703.10.4.4.4.

P Change Sections 2703.10.5 through 2703.12 to read:

~~(N)~~2703.10.5 Sprinkler alarms and supervision. Automatic sprinkler systems shall be maintained in accordance with <u>the</u> applicable building code.

~~(N)~~2703.11 Manual fire alarm system. Manual fire alarm systems shall be maintained in accordance with the applicable building code.

~~(N)~~2703.12 Emergency alarm system. Emergency alarm systems shall be maintained in accordance with the applicable building code.

Q. Delete Sections 2703.12.1 and 2703.12.1.1.

R. Change Sections 2703.12.1.2 and 2703.12.1.3 to read:

~~(N)~~2703.12.1.2 Corridors and interior exit stairways and ramps. Emergency alarms for corridors, interior exit stairways and ramps, and exit passageways shall be maintained in accordance with the applicable building code.

~~(N)~~2703.12.1.3 Liquid storage rooms, HPM rooms and gas rooms. Emergency alarms for liquid storage rooms, HPM rooms, and gas rooms shall be maintained in accordance with the applicable building code.

S. Delete Sections 2703.12.2 and 2703.12.3.

T. Change Section 2703.13 to read:

~~(N)~~2703.13 ~~Continuous gas~~ Gas detection systems. ~~Continuous gas~~ Gas detection systems shall be maintained in accordance with the applicable building code.

U. Delete Sections 2703.13.1 through 2703.13.2.2.

V. Change Section 2703.14 to read:

~~(N)~~2703.14 Exhaust ventilation systems for HPM. Exhaust ventilation systems and materials for exhaust ducts utilized for the exhaust of HPM shall be maintained in accordance with the applicable building code.

W. Delete Sections 2703.14.1 and 2703.14.2.

X. Change Section 2703.15 to read:

~~(N)~~2703.15 Emergency power system. Emergency power ~~system~~ systems shall be maintained in accordance with the applicable building code.

Y. Delete Section 2703.15.1.

Z. Change Sections 2703.15.2 through 2704.1 to read:

~~(N)~~2703.15.2 Exhaust ventilation systems. Exhaust ventilation systems shall be maintained in accordance with the applicable building code.

~~(N)~~2703.16 Subatmospheric pressure gas systems. Subatmospheric pressure gas systems (SAGS) shall be maintained in accordance with the applicable building code.

~~(N)~~2704.1 General. Storage of hazardous materials shall comply with Section 2703 and this section and other applicable provisions of this code to the extent that such requirements are operational in nature and do not affect how a building is constructed.

AA. Change Section 2704.2.2.1 to read:

2704.2.2.1 Storage and use in fabrication areas. The maximum quantities of hazardous materials stored or used in a single fabrication area shall not exceed the quantities set forth by the applicable building code.

BB. Delete Table 2704.2.2.1.

CC. Change Section 2704.3.1 to read:

2704.3.1 HPM storage. The indoor storage of HPM in quantities greater than those listed in Sections 5003.1.1 and 3404.3.4 shall be in a room complying with the requirements of this code for a liquid storage room, HPM room, or gas room as appropriate for the materials stored.

DD. Change Section 2705.1 to read:

2705.1 General. The use and handling of hazardous materials shall comply with this section, Section 2703, and other applicable provisions of this code to the extent that such requirements are operational in nature and do not affect how a building is constructed.

EE. Change Section 2705.2.3.2 to read:

~~(N)~~2705.2.3.2 Protection of vessels. Vessels containing hazardous materials located in or connected to a workstation shall be protected as follows:

1. HPM: Vessels containing HPM shall be protected from physical damage and shall not project from the workstation.

2. Compressed gases: Protection for compressed gas vessels shall also comply with Section 5303.5.

3. Cryogenic fluids: Protection for cryogenic fluid vessels shall also comply with Section 5503.5.

FF. Change Section 2705.3.1 to read:

~~(N)~~2705.3.1 Corridors and enclosures for stairways and ramps. Corridors and enclosures for exit stairways and ramps in new fabrication areas shall not contain HPM, except as permitted in corridors by Section 2705.3.2 and the applicable building code.

GG. Change Section 2705.3.2.1 to read:

2705.3.2.1 Fabrication area alterations. Where existing fabrication areas are altered or modified in existing buildings, HPM is allowed to be transported in existing corridors where such corridors comply with the applicable building code.

HH. Delete Section 2705.3.3.

13VAC5-51-142.5. ~~Ifc~~ IFC Chapter 28 Lumber Yards and Agro-Industrial, Solid Biomass, and Woodworking Facilities.

A. Change Section 2801.2 to read:

2801.2 Permit. Permits shall be required as set forth in Section 107.2.

B. Change Sections 2803.1 through 2803.3 to read:

~~(N)~~2803.1 Open yards. Open yards around structures required by the applicable building code shall be maintained.

~~(N)~~2803.2 Dust control. Equipment or machinery located inside buildings that generates or emits combustible dust equipped with an approved dust collection and exhaust system shall be maintained in accordance with the applicable building code. Equipment or systems that are used to collect, process or convey combustible dusts shall be provided with an approved explosion control system.

~~(N)~~2803.2.1 Explosion venting. Explosion venting required for dust explosion hazards shall be maintained in accordance with the applicable building code.

~~(N)~~2803.3 Waste removal. Waste removal systems required for sawmills, planning mills and other woodworking plants shall be maintained in accordance with the applicable building code.

Exception: Manual waste removal where approved.

C. Change Section 2803.4 to read:

~~(N)~~2803.4 Electrical equipment. Electrical wiring and equipment shall be maintained in accordance with the applicable building code.

D. Change Sections 2804.2, and 2804.2.1 to read:

~~(N)~~2804.2 Fire alarms. Where provided, fire alarms maintained in accordance with the applicable building code.

~~(N)~~2804.2.1 Manual fire alarms. Where installed, manual fire alarm systems shall be maintained in accordance with the applicable building code.

E. Change Section 2804.4 to read:

~~(N)~~2804.4 Automatic sprinkler systems. Automatic sprinkler systems shall be maintained in accordance with the applicable ~~building code~~ NFPA 13 standard.

F. Change Section 2805.2 to read:

~~(N)~~2805.2 Dryer protection. Dryers shall be maintained in accordance with the applicable building code. Deluge heads shall be inspected quarterly for pitch buildup. Deluge heads in dryers shall be flushed during regular maintenance for functional operation.

G. Change Section 2807.2 to read:

2807.2 Size of piles. Piles shall not exceed 60 feet (18 288 mm) in height, 300 feet (91 440 mm) in width, and 500 feet (152 m) in length. Piles shall be separated from adjacent piles or other exposures by approved fire apparatus access roads.

Exception: The fire code official is authorized to allow the pile size to be increased where additional approved fire protection is provided in accordance with Chapter 9.

H. Change Section 2807.3 to read:

~~(N)~~2807.3 Pile fire protection. Automatic sprinkler protection provided in conveyor tunnels and combustible enclosures that pass under a pile shall be maintained in accordance with the applicable building code.

I. Change Section 2808.7 to read:

~~(N)~~2808.7 Pile fire protection. Automatic sprinkler protection provided in conveyor tunnels and combustible enclosures that pass under a pile shall be maintained in accordance with the applicable building code.

13VAC5-51-143.5. ~~Ifc~~ IFC Chapter 29 Manufacture of Organic Coatings.

A. Change Section 2901.2 to read:

2901.2 Permits. Permits shall be required as set forth in Section 107.2.

B. Delete Section 2903.1.

C. Delete Section 2903.2.

D. Change Section 2903.4 to read:

2903.4 Fire protection systems. Fire protection systems shall be maintained, periodically inspected, and tested in accordance with Chapter 9.

E. Change Section 2903.10 to read:

2903.10 Drainage. Drainage facilities shall be maintained to direct flammable and combustible liquid leakage and fire protection water to an approved location away from the building, any other structure, any storage area, or adjoining premises.

F. Change Section 2903.11 to read:

~~(N)~~2903.11 Alarm system. Alarm systems shall be maintained in accordance with the applicable building code.

G. Change Section 2904.1 to read:

~~(N)~~2904.1 Wiring and equipment. Electrical wiring and equipment shall be maintained in accordance with the applicable building code.

H. Change Section 2904.3 to read:

~~(N)~~2904.3 Bonding. Bonding provided for equipment including tanks, machinery and piping shall be maintained in accordance with the applicable building code.

I. Change Section 2904.3.1 to read:

~~(N)~~2904.3.1 Piping. Electrically isolated sections of metallic piping or equipment shall be maintained in accordance with the applicable building code.

J. Change Section 2904.4 to read:

~~(N)~~2904.4 Ground. Metal framing of buildings shall be grounded in accordance with the applicable building code.

K. Delete Section 2905.1.

L. Change Section 2905.4 to read:

~~(N)~~2905.4 Explosion control. Explosion control shall be maintained in accordance with the applicable building code and maintenance provisions of NFPA 35.

M. Change Section 2905.5 to read:

~~(N)~~2905.5 Ventilation. Enclosed structures in which Class I liquids are processed or handled shall be ventilated in accordance with the applicable building code.

N. Change Section 2906.1 to read:

~~(N)~~2906.1 Mills. Mills operating with close clearances that process flammable and heat-sensitive materials, such as nitrocellulose, shall be maintained in accordance with the applicable building code.

O. Change Section 2909.2 to read:

~~(N)~~2909.2 Tank storage. Tank storage for flammable and combustible liquids located inside of structures shall be limited to storage areas at or above grade that are separated from the processing area in accordance with the applicable building code. Processing equipment containing flammable and combustible liquids and storage in quantities essential to the continuity of the operations shall not be prohibited in the processing area.

P. Change Section 2909.4 to read:

~~(N)~~2909.4 Nitrocellulose storage. Nitrocellulose storage shall be located on a detached pad or in a separate structure or a room enclosed in accordance with the applicable building code.

Q. Change Section 2909.6 to read:

2909.6 Finished products. Finished products that are flammable or combustible liquids shall be stored outside of structures, in a separate structure, or in a room separated from the processing area where such storage is permitted under the applicable building code. The storage of finished products shall be in tanks or closed containers in accordance with Chapter 57.

13VAC5-51-144. ~~Ifc~~ IFC Chapter 30 Industrial Ovens.

A. Change Section 3001.1 to read:

~~(N)~~3001.1 Scope. This chapter shall apply to the maintenance and operation of industrial ovens and furnaces. Industrial ovens and furnaces shall comply with the applicable provisions of NFPA 86 and this chapter. The terms "ovens" and "furnaces" are used interchangeably in this chapter.

B. Change Section 3001.2 to read:

3001.2 Permits. Permits shall be required as set forth in Section 107.2.

C. Change Section 3003.1 to read:

~~(N)~~3003.1 Ventilation. Enclosed rooms or basements containing industrial ovens or furnaces shall be maintained in accordance with the applicable building code.

D. Delete Section 3003.4.

E. Change Section 3004.1 to read:

~~(N)~~3004.1 Fuel-gas piping. Fuel-gas piping serving industrial ovens shall be maintained in accordance with the applicable building code.

F. Delete Section 3004.2.

G. Change Section 3004.2.1 to read:

~~(N)~~3004.2.1 Fuel supply lines. Valves for fuel supply lines shall be maintained in accordance with the applicable building code.

H. Delete Section 3004.3.

I. Change Sections 3005.1, 3006.1 and 3006.2 to read:

~~(N)~~3005.1 Shut down. Interlocks shall be maintained in accordance with the applicable building code.

~~(N)~~3006.1 Required protection. Fire-extinguishing systems provided for Classes A and B ovens that contain, or are utilized for the processing of, combustible materials shall be maintained in accordance with the applicable building code.

~~(N)~~3006.2 Fixed fire-extinguishing systems. Fixed fire-extinguishing systems shall be maintained in accordance with the applicable building code.

13VAC5-51-144.2. ~~Ifc~~ IFC Chapter 31 Tents, Temporary Special Even Structures and Other Membrane Structures.

A. The following change shall be made to Section 3101, General:
Change Section 3101.1 to read:

3101.1 Scope. Tents, temporary special event structures and temporary stage canopies, and membrane structures shall comply with this chapter. The provisions of Section 3103 are applicable only to temporary tents and membrane structures. The provisions of Section 3104 and 3106 are applicable to temporary and permanent tents and membrane structures. Other temporary structures shall comply with the applicable building code.

B. The following changes shall be made to Section 3103, Temporary Tents and Membrane Structures:

1. Change Section 3103.1 to read:

~~(N)~~3103.1 General. Tents and membrane structures used for temporary periods shall comply with this section. Other temporary structures erected for a period of 180 days or less shall comply with the applicable building code.

2. Change Section 3103.2 to read:

~~(N)~~3103.2 Approval required. Tents and membrane structures having an area in excess of 900 square feet (84 m^2) shall not be erected, operated or maintained for any purpose without first obtaining a permit and approval from the fire code official in accordance with Table 107.2.

3. ~~Change~~ Add Section 3103.2.1 ~~to read~~ and delete Section 3103.3.1:

3103.2.1 Multiple tents. The aggregate area of multiple tents separated by less than 12 feet (3658 mm) shall not exceed 900 square feet unless approved in accordance with Section 3103.2.

4. Change Section 3103.4 to read:

3103.4 Permits. Permits shall be required as set forth in Section 107.2.

5. Change Section 3103.9.1 through 3103.9.3 to read:

3103.9.1 Tents and membrane structures exceeding one story. Tents and membrane structures exceeding one story shall be designed and constructed to comply with the applicable building code.

3103.9.2 Tents and membrane structures greater than 7,500 square feet. Tents and membrane structures greater than 7,500 square feet shall be designed and constructed to comply with applicable building code.

3103.9.3 Tents and membrane structures with an occupant load greater than 1,000. Tents and membrane structures with an occupant load greater than 1,000 shall be designed and constructed to comply with applicable building code.

C. The following changes shall be made to Section 3104, Temporary and Permanent Tents and Membrane:

1. Change Section 3104.1 to read:

3104.1 General. Tents and membrane structures, both temporary and permanent, shall be in accordance with this section. Permanent tents and membrane structures shall also comply with the applicable building code.

2. Change Section 3104.2 to read:

3104.2 Flame propagation performance treatment. Before a permit is granted, the owner or agent shall file a certificate executed by an approved testing laboratory certifying that the tents and membrane structures and their appurtenances; sidewalls, drops and tarpaulins; floor coverings, bunting, and combustible decorative materials and effects, including sawdust where used on floors or passageways, are composed of material meeting the flame propagation performance criteria of Test Method 1 or Test Method 2, as appropriate, of NFPA 701 or shall be treated with a flame retardant in an approved manner and meet the flame propagation performance criteria of Test Method 1 or Test Method 2, as appropriate, of NFPA 701, and that such flame propagation performance criteria are effective for the period specified by the permit.

3. Change Section 3104.4 to read:

3104.4 Certification. An affidavit or affirmation shall be submitted and a copy retained on the premises on which the tent or air-supported structure is located. The affidavit shall attest to all of the following information relative to the flame propagation performance criteria of the fabric

1. Names and address of the owners of the tent or air-supported structure.

2. Date the fabric was last treated with flame-retardant solution.

3. Trade name or kind of chemical used in treatment.

4. Name of person or firm treating the material.

5. Name of testing agency and test standard by which the fabric was tested.

4. Change Section 3104.13 to read:

3104.13 Fire protection equipment. Fire hose lines, water supplies, and other auxiliary fire equipment shall be maintained at the site in such numbers and sizes as approved

5. Change Section 3104.14 to read:

3104.14 Occupant load factors. The occupant load allowed in an assembly structure, or portion thereof, shall be determined in accordance with Chapter 10 or applicable building code.

6. Change Section 3104.15.1 to read:

3104.15.1 Installation. Heating or cooking equipment tanks, piping, hoses, fittings, valves, tubing, and other related components shall be installed as specified by the applicable building code and shall be approved.

7. Change Section 3104.15.2 to read:

3104.15.2 Venting. Gas, liquid and solid fuel-burning equipment designed to be vented shall be vented to the outside air as specified by the applicable building code and shall be approved. Such vents shall be equipped with approved spark arresters where required. Where vents or flues are used, all portions of the tent or membrane structure shall be not less than 12 inches (305 mm) from the flue or vent.

8. Change Section 3104.16.1 to read:

3104.16.1 General. LP-gas equipment such as tanks, piping, hoses, fittings, valves, tubing and other related components shall be approved and in accordance with Chapter 61 and with the applicable building code.

D. The following changes shall be made to Section 3105, Temporary ~~State Canopies~~ Special Event Structures:

1. Change Section 3105.1 to read:

~~(N)~~3105.1 General. Operation and maintenance of temporary ~~stage canopies~~ special event structures shall be in accordance with Section 3104, Sections 3105.2 through ~~3105.8~~ 3105.9, and ANSI E1.21.

2. Change Section 3105.2 to read:

~~(N)~~3105.2 Approval. Temporary stage canopies in excess of 400 square feet (37 m^2) shall not be erected for any purpose without first obtaining approval and a permit from the building official.

3. Change Section 3105.5 to read:

~~(N)~~3105.5 Required documents. Documents shall be submitted to the building official where required by the USBC.

4. Change Section 3105.6.2 to read:

~~(N)~~3105.6.2 Inspection report. The inspecting agency or individual shall furnish an inspection report to the building official and fire code official. The inspection report shall indicate that the temporary stage canopy was inspected and was or was not installed in accordance with the approved construction documents. Discrepancies shall be brought to the immediate attention of the installer for correction. Where any discrepancy is not corrected, it shall be brought to the attention of the building official and fire code official and the designated responsible party.

5. Change Section 3105.7 to read:

~~(N)~~3105.7 Means of egress. The means of egress for temporary stage canopies shall comply with Chapter 10 and the applicable building code.

6. Delete Section 3105.8.

7. Change Section 3106.2.2 to read:

3106.2.2 Permits. An operational permit shall be required as set forth in Section 107.2.

13VAC5-51-144.4. ~~Ifc~~ IFC Chapter 32 High-Piled Combustible Storage.

A. The following changes shall be made to Section 3201, General:

1. Change Section 3201.1 to read:

~~(N)~~3201.1 Scope. Maintenance and operational aspects of high-piled combustible storage shall be in accordance with this chapter. In addition to the requirements of this chapter, the following material-specific requirements shall apply:

1. Aerosols shall be in accordance with Chapter 51.

2. Flammable and combustible liquids shall be in accordance with Chapter 57.

3. Hazardous materials shall be in accordance with Chapter 50.

4. Storage of combustible paper records shall be in accordance with the applicable NFPA 13 standard.

5. Storage of combustible fibers shall be in accordance with Chapter 37.

6. General storage of combustible material shall be in accordance with Chapter 3.

2. Change Section 3201.2 to read:

3201.2 Permits. A permit shall be required as set forth in Section 107.2.

3. ~~Change~~ Delete Section 3201.3 through 3201.3.2 ~~to read:~~.

~~(N)3201.3 Construction documents.~~

B. The following changes shall be made to Section 3204, Designation of High-Piled Storage Areas:

1. Change Section 3204.1 to read:

~~(N)~~3204.1 General. The ~~operational~~ operation and maintenance of high-piled storage areas, and portions of high-piled storage areas intended for storage, shall be maintained in accordance with the applicable building code.

2. Delete Section 3204.2.

C. The following changes shall be made to Section 3206, General Fire Protection and Life Safety Features:

1. Change Section 3206.1 to read:

~~(N)~~3206.1 General. Fire protection and life safety features for high-piled storage areas shall be maintained in accordance with the applicable building code.

2. Delete Section 3206.2 3206.2.1 and Table 3206.2.

3. Delete Section 3206.3.

4. Delete Section 3206.3.1.

5. Delete Section 3206.3.2.

6. Delete Section 3206.3.2.1.

7. ~~Delete Section 3206.3.2.2.~~

~~8.~~ Change Section 3206.4 to read:

~~(N)~~3206.4 Automatic sprinklers. Automatic sprinkler systems shall be maintained in accordance with the applicable building code.

~~(N)~~3206.4.1 Pallets. The requirements based on the presence of pallets shall be maintained in accordance with the applicable building code.

~~9.~~ 8. Change Section 3206.4.1.1 to read:

~~(N)~~3206.4.1.1 Plastic pallets. Plastic pallets listed and labeled in accordance with UL 2335 or FM 4996 shall be treated as wood pallets.

~~10.~~ 9. Change Section 3206.5 to read:

~~(N)~~3206.5 Fire detection. Fire detection provided for high-piled storage areas shall be maintained in accordance with the applicable building code.

~~11.~~ 10. Change Section 3206.6 to read:

~~(N)~~3206.6 Building access. Where building access is required, it shall be maintained in accordance with the applicable building code.

~~12.~~ 11. Change Section ~~3206.6.1~~ 3206.7 ~~to read:~~.

~~(N)3206.6.1~~ 3206.7 Access doors. Access doors shall be maintained in accordance with the applicable building code.

12. Delete Sections 3206.7.1 through 3206.7.3.

13. Change Section ~~3206.6.1.1~~ 3206.7.5 to read:

~~(N)3206.6.1.1~~ 3206.7.5 Number of doors required. The minimum number of doors shall be maintained in accordance with the applicable building code.

14. Change Section ~~3206.6.1.2~~ 3206.7.6 to read:

~~(N)3206.6.1.2~~ 3206.7.6 Door size and type. Access doors shall be maintained in accordance with the applicable building code. Roll-up doors shall not be used unless approved.

15. Delete Section ~~3206.1.3~~ Sections 3206.7.7 and 3206.7.8.

16. Change Section ~~3206.7~~ 3206.8 to read:

~~(N)3206.7~~ 3206.8 Smoke and heat removal. Where smoke and heat removal is required, it shall be maintained in accordance with the applicable building code.

17. Change Section ~~3206.8~~ 3206.9 to read:

~~(N)3206.8~~ 3206.9 Fire department hose connections. Where a standpipe system is required for exit passageways, it shall be maintained in accordance with the applicable building code.

18. Change Section ~~3206.9~~ 3206.10 to read:

~~(N)3206.9~~ 3206.10 Aisles. Aisles separating storage piles or racks shall be maintained in accordance with the applicable building code.

19. Change Section ~~3206.9.1~~ 3206.10.1 to read:

~~(N)3206.9.1~~ 3206.10.1 Width. Aisle width shall be maintained in accordance with the applicable building code.

20. Change Section ~~3206.9.1.1~~ 3206.10.1.1 to read:

~~(N)3206.9.1.1~~ 3206.10.1.1 Sprinklered buildings. Aisles in sprinklered buildings shall be maintained in accordance with the applicable building code.

21. Change Section ~~3206.9.1.2~~ 3206.10.1.2 to read:

~~(N)3206.9.1.2~~ 3206.10.1.2 Nonsprinklered buildings. Aisles in nonsprinklered buildings shall be maintained in accordance with the applicable building code.

22. Change Section ~~3206.9.2~~ 3206.10.2 to read:

~~(N)3206.9.2~~ 3206.10.2 Clear height. The required aisle width shall be maintained in accordance with the applicable building code. Rack structural supports and catwalks are allowed to cross aisles at a minimum height of 6 feet 8 inches (2032 mm) above the finished floor level, provided that such supports do not interfere with fire department hose stream trajectory.

23. Delete Section ~~3206.9.3~~ 3206.10.3.

D. The following changes shall be made to Section 3207, Solid-Piled and Shelf Storage:

1. Change Section 3207.2 to read:

~~(N)~~3207.2 Fire protection. Where automatic sprinklers are provided, they shall be maintained in accordance with the applicable building code.

2. Change Section 3207.2.1 to read:

~~(N)~~3207.2.1 Shelf storage. Shelf storage greater than 12 feet (3658 mm) but less than 15 feet (4572 mm) in height shall be in accordance with the fire protection requirements set forth in the applicable building code. Shelf storage 15 feet (4572 mm) or more in height shall be protected in an approved manner as required by this code and the applicable building code.

3. Change Section 3207.3 to read:

~~(N)~~3207.3 Pile dimension and height limitations. Pile dimensions, the maximum permissible storage height and pile volume shall be in accordance with the applicable building code.

4. Change Section 3207.4 to read:

~~(N)~~3207.4 ~~Array~~ Arrays. Where an automatic sprinkler system design utilizes protection based on a closed array, array clearances shall be maintained as specified by the standard used.

E. The following changes shall be made to Section 3208, Rack Storage:

1. Change Section 3208.2 to read:

~~(N)~~3208.2 Fire protection. Where automatic sprinklers are provided, they shall be maintained in accordance with the applicable ~~building code~~ NFPA 13 standard.

2. Change Section 3208.2.2 to read:

~~(N)~~3208.2.2 Racks with solid shelving. Racks with solid shelving having an area greater than 20 square feet (1.9 m^2), measured between approved flue spaces at all four edges of the shelf, shall be in accordance with this section.

Exceptions:

1. Racks with mesh, grated, slatted or similar shelves having uniform openings not more than 6 inches (152 mm) apart, comprising not less than 50% of the overall shelf area, and with approved flue spaces are allowed to be treated as racks without solid shelves.

2. Racks used for the storage of combustible paper records with solid shelving shall be in accordance with the applicable building code.

3. Change Section 3208.2.2.1 to read:

~~(N)~~3208.2.2.1 Fire protection. Fire protection for racks with solid shelving shall be in accordance with the applicable building code.

4. Delete Section 3208.3 and Table 3208.3.

5. Change Section 3208.3.1 to read:

~~(N)~~3208.3.1 Flue space protection. Where required by the fire code official, flue spaces required by the applicable building code, in single-row, double-row, or multiple-row rack storage installations shall be equipped with approved devices to protect the required flue spaces. Such devices shall not be removed or modified.

6. Change Section 3208.4 to read:

~~(N)~~3208.4 Column protection. Protection for steel building columns shall be maintained in accordance with the applicable building code.

7. Change Section 3208.5 to read:

~~(N)~~3208.5 Extra-high-rack storage systems. Approval shall be obtained prior to installing extra high rack combustible storage.

8. Change Section 3208.5.1 to read:

~~(N)~~3208.5.1 Fire protection. Fire protection provided for buildings with extra high rack combustible storage shall be maintained in accordance with the applicable building code.

F. The following changes shall be made to Section 3209, Automated Storage:

1. Change Section 3209.2 to read:

~~(N)~~3209.2 Automatic sprinklers. Where automatic sprinklers are provided, they shall be maintained in accordance with the applicable ~~building code~~ NFPA 13 standard.

2. Change Section 3209.3 to read:

~~(N)~~3209.3 Carousel storage. High-piled storage areas having greater than 500 square feet (46 m^2) of carousel storage shall be maintained in accordance with the applicable building code.

3. Change Section 3209.4 to read:

~~(N)~~3209.4 Automated rack storage. High-piled storage areas with automated rack storage shall be maintained in accordance with the applicable building code. The switch shall be clearly identified and shall be in a location approved.

G. The following change shall be made to Section 3210, Specialty Storage:

Change Section 3210.1 to read:

~~(N)~~3210.1 General. Records storage facilities used for the rack or shelf storage of combustible paper records shall be in accordance with the applicable building code. Palletized storage of records shall be in accordance with the applicable building code.

13VAC5-51-144.5. Chapter 33 Fire Safety During Construction and Demolition.

Change Section 3314.1 to read:

3314.1 Completion before occupancy. In buildings where an automatic sprinkler system is required by this code or the applicable building code, it shall be unlawful to occupy any portion of a building or structure until the automatic sprinkler system installation has been tested and approved, except as provided in Section 106.

13VAC5-51-144.6. ~~Ifc~~ IFC Chapter 34 Tire Rebuilding and Tire Storage.

A. Change Section 3401.1 to read:

3401.1 Scope. The maintenance and operation of tire rebuilding plants, tire storage, and tire byproduct facilities shall comply with this chapter, other applicable requirements of this code, and NFPA 13, as originally approved. Tire storage in buildings shall also comply with Chapter 32.

B. Change Section 3401.2 to read:

3401.2 Permit required. Permits shall be required as set forth in Section 107.2.

C. Change Section 3403.1 to read:

~~(N)~~3403.1 Construction. Tire rebuilding plants shall comply with the requirements of the applicable building code.

D. Delete Section 3403.2.

E. Change Section 3406.1 to read:

3406.1 Required access. New and existing tire storage yards shall be provided with fire apparatus access roads in accordance with Section 503 and Section 3406.2.

13VAC5-51-144.7. ~~Ifc~~ IFC Chapter 35 Welding and Other Hot Work.

Change Section 3501.2 to read:

3501.2 Permits. Permits shall be required as set forth in Section 107.2.

13VAC5-51-144.8. ~~Ifc~~ IFC Chapter 36 Marinas.

A. Change Section to read:

~~(N)~~3603.5 Electrical equipment. Electrical equipment shall be maintained in accordance with its listing, Section 605 of this code, and NFPA 303 as required for wet, damp, and hazardous locations.

B. Change Section 3604.2 to read:

~~(N)~~3604.2 Standpipes. Standpipes provided for marinas and boatyards shall be maintained in accordance with the applicable building code.

13VAC5-51-144.9. ~~Ifc~~ IFC Chapter 37 Combustible Fibers.

A. Change Section 3701.3 to read:

3701.3 Permits. Permits shall be required as set forth in Section 107.2.

B. Change Section 3703.5 to read:

~~(N)~~3703.5 Dust collection. Dust collection and exhaust systems required or provided for equipment or machinery that generates or emits combustible fibers shall be maintained in accordance with the applicable building code.

C. Change Section 3704.3 to read:

~~(N)~~3704.3 Storage of more than 100 cubic feet to 500 cubic feet. Loose combustible fibers in quantities exceeding 100 cubic feet (3 m^3) but not exceeding 500 cubic feet (14 m^3) shall be stored in rooms in accordance with the applicable building code.

D. Change Section 3704.4 to read:

~~(N)~~3704.4 Storage of more than 500 cubic feet to 1,000 cubic feet. Loose combustible fibers in quantities exceeding 500 cubic feet (14 m^3) but not exceeding 1,000 cubic feet (28 m^3) shall be stored in rooms in accordance with the applicable building code.

E. Change Section 3704.5 to read:

~~(N)~~3704.5 Storage of more than 1,000 cubic feet. Loose combustible fibers in quantities exceeding 1,000 cubic feet (28 m^3) shall be stored in rooms in accordance with the applicable building code.

13VAC5-51-145. ~~Ifc~~ IFC Chapter 50 Hazardous Materials - General Provisions.

A. The following changes shall be made to Section 5001, General:

1. Change Section 5001.1 to read:

5001.1 Scope. Prevention, control and mitigation of dangerous conditions related to storage, dispensing, use and handling of hazardous materials shall be in accordance with this chapter for operational usage. Quantities within buildings shall be maintained in accordance with the applicable building code.

This chapter shall apply to all hazardous materials, including those materials regulated elsewhere in this code, except that where specific requirements are provided in other chapters, those specific requirements shall apply in accordance with the applicable chapter. Where a material has multiple hazards, all hazards shall be addressed.

Exceptions:

1. In retail or wholesale sales occupancies, the quantities of medicines, foodstuff or consumer products, and cosmetics containing not more than 50% by volume of water-miscible liquids and with the remainder of the solutions not being flammable shall not be limited, provided such materials are packaged in individual containers not exceeding 1.3 gallons (5 L).

2. Quantities of alcoholic beverages in retail or wholesale sales occupancies shall not be limited providing the liquids are packaged in individual containers not exceeding 1.3 gallons (5 L).

3. Application and release of pesticide and agricultural products and materials intended for use in weed abatement, erosion control, soil amendment, or similar applications where applied in accordance with the manufacturer's instructions and label directions.

4. The offsite transportation of hazardous materials where in accordance with U.S. Department of Transportation regulations.

5. Building materials not otherwise regulated by this code.

6. Refrigeration systems (see Section 606).

7. Stationary storage battery systems regulated by Section 608.

8. The display, storage, sale or use of fireworks and explosives in accordance with Chapter 56.

9. Corrosives utilized in personal and household products in the manufacturer's original consumer packaging in Group M occupancies.

10. The storage of distilled spirits and wines in wooden barrels and casks.

11. The use of wall-mounted dispensers containing alcohol-based hand rubs classified as Class I or II liquids where in accordance with Section 5705.5.

2. Delete Section 5001.1.1.

3. Change Section 5001.3.3.9 to read:

~~(N)~~5001.3.3.9 Reliable power source. Where a power supply is relied upon to prevent or control an emergency condition that could endanger people or property, the power supply shall be maintained in accordance with the applicable building code.

4. Change Section 5001.3.3.10 to read:

~~(N)~~5001.3.3.10 Ventilation. Where ventilation is required by the applicable building code maintained.

5. Change Section 5001.5 to read:

5001.5 Permits. Permits shall be required as set forth in Section 107.2.

6. Add the following language to the end of Section 5001.5.1 to read:

The HMMP shall be maintained onsite for use by emergency responders and shall be updated not less than annually.

7. Add the following language to the end of Section 5001.5.2 to read:

The HMIS shall be maintained onsite or readily available through another means where approved by the fire code official for use by temporary responders, and shall be updated not less than annually.

8. Add Sections 5001.5.3, 5001.5.3.1, and 5001.5.3.2 to read:

5001.5.3 Repository container. When a HMMP or HMIS is required, the owner or operator shall provide a repository container (lock box) or other approved means for the storage of items required in Sections 5001.5.1 and 5001.5.2 so as to be readily available to emergency response personnel.

5001.5.3.1 Location and identification. The repository container (lock box) shall be located, installed and identified in an approved manner.

5001.5.3.2 Keying. All repository containers (lock boxes) shall be keyed as required by the fire code official.

9. Add Section 5001.7, including subsections, to read:

5001.7 Operational requirements for Group B teaching and research laboratories. Teaching and research laboratories in Group B educational occupancies above the 12th grade utilizing Section 430 of the USBC, Part I, Construction, or Section 306.1 of the USBC, Part II, Existing Buildings, shall comply with this section and other applicable requirements of this code. In the case of conflicts between the requirements of Section 430 of the USBC, Part I, Construction, or Section 6 306.1 of the USBC, Part II, Existing Buildings, and provisions of this code other than those set out in this section, Section 430 of the USBC, Part I, Construction, or Section 306.1 of the USBC, Part II, Existing Buildings, as applicable, shall govern.
5001.7.1 Chemical safety reviews. Operating and emergency procedures planning and documentation shall be as set out in Sections 5001.3.3.11 through 5001.3.3.17. Such documentation shall be prepared by laboratory safety personnel or special experts and shall be made available in the workplace for reference and review by employees. Copies of such documentation shall be furnished to the fire code official for review upon request.

5001.7.2 Hazardous materials handling. Receiving, transporting on site, unpacking, and dispensing of hazardous materials shall be carried out by persons trained in proper handling of such materials and shall be performed in accordance with Chapters 50 through 67, as applicable.

5001.7.3 Hazard identification signage. Warning signs for other than building components shall be provided in accordance with Section 5003.5.

5001.7.4 Maintenance of equipment, machinery, and processes. Maintenance of equipment, machinery, and processes used with hazardous materials shall comply with Section 5003.2.6.

5001.7.5 Time sensitive materials. Containers of materials that have the potential to become hazardous during prolonged storage shall be dated when first opened and shall be managed in accordance with NFPA 45, Section 8.2.4.4.1.

5001.7.6 Maintenance of storage, dispensing, use, and handling requirements. Storage, dispensing, use, and handling requirements in the USBC, Part I, Construction, or the USBC, Part II, Existing Buildings, shall be maintained. Operational requirements not affecting the manner of construction shall comply with this chapter and Chapters 51 through 67, as applicable.

5001.7.7 Hazardous wastes. Storage, dispensing, use, and handling of hazardous waste shall comply with this chapter and Chapters 51 through 67, as applicable.

5001.7.8 Container size. The maximum container size for all hazardous materials shall be 5.3 gallons (20 L) for liquids, 50 pounds (23 kg) for solids, 100 cubic feet (2.8. m^3) for health hazard gases per Table 5003.1.1(2), and 500 cubic feet (14 m^3) for all other gases in accordance with Table 5003.1.1(1).

Exception: Hazardous waste collection containers, for other than Class I and Class II flammable liquids, are permitted to exceed 5.3 gallons (20 L) where approved.

5001.7.9 Density. Quantities of Class I, II, and IIIA combustible or flammable liquids in storage and use within control areas or laboratory suites shall not exceed 8 gallons per 100 square feet (30 L/9.3 m^2) of floor area, with not more than 4 gallons per 100 square feet (15 L/9.3 m^2) being in use. Quantities of Class I flammable liquids in storage and use shall not exceed 4 gallons per 100 square feet (15 L/9.3 m^2) of floor area with not more than 2 gallons (7.5 L) being in use. The maximum in use in open systems is limited to 10% of these quantities. Densities shall be reduced by 25% on the 4th-floor through 6th-floor levels above grade plane of the building and 50% above the 6th-floor level. The density is to be reduced to 50% of these values for buildings that are not protected throughout with an approved automatic fire sprinkler system. Regardless of the density, the maximum allowable quantity per control area or laboratory suite shall not be exceeded.

Exception: Density limits may be exceeded in designated hazardous waste collection areas or rooms within a control area or laboratory suite, but stored quantities shall not exceed the maximum allowable quantity per laboratory suite or control area.

5001.7.10 Restricted materials in storage. Storage of pyrophorics and Class 4 oxidizers prohibited by Table 5003.1.1(1) in existing buildings not equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 of the USBC, Part I, Construction, shall be allowed within a control area at 25% of the limits in Table 5003.1.1(1) for a building equipped throughout with an automatic sprinkler system, with no additional increases allowed, provided that such materials are stored in accordance with all of the following:

1. Containers shall be completely sealed and stored according to the manufacturer's recommendations.

2. Storage shall be within approved hazardous materials storage cabinets in accordance with Section 5003.8.7 or shall be located in an inert atmosphere glove box in accordance with NFPA 45, Section 7.11.

3. The storage cabinet or glove box shall not contain any storage of incompatible materials.

5001.7.11 Restricted materials in use. Use of pyrophorics and Class 4 oxidizers prohibited by Table 5003.1.1(1) in existing buildings not equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 of the USBC, Part I, Construction, shall be allowed within a control area at 25% of the limits in Table 5003.1.1(1) for buildings equipped throughout with an automatic sprinkler system, with no additional increases allowed, provided that such materials are used in accordance with all of the following:

1. Use shall be within an approved chemical fume hood listed in accordance with UL 1805, or in an inert atmosphere glove box in accordance with NFPA 45, Section 7.11, or other approved equipment designed for the specific hazard of the material.

2. Combustible materials shall be kept at least 2 feet (610 mm) away from the work area, except for those items directly related to the research.

3. A portable fire extinguisher appropriate for the specific material shall be provided within 20 feet (6096 mm) of the use in accordance with Section 906.

B. The following changes shall be made to Section 5003, General Requirements:

1. Add a new "Permissible fireworks" row to Table 5003.1.1(1) and change footnotes d and f to read:

Permissible fireworks	1.4G	H-3	125[d,e,l]	N/A	N/A	N/A	N/A	N/A	N/A	N/A

d. Maximum allowable quantities shall be increased 100% in buildings equipped throughout with an approved automatic sprinkler system in accordance with the applicable NFPA 13 standard. Where Note e applies, the increase for both Notes shall be applied accumulatively.

f. Quantities shall not be limited in a building equipped throughout with an approved automatic sprinkler system in accordance with the applicable NFPA 13 standard.

2. Change footnote d of Table 5003.1.1(2) and Delete Sections 5003.1.3 and 5003.1.4.

d. Maximum allowable quantities shall be increased 100% in buildings equipped throughout with an approved automatic sprinkler system in accordance with the applicable NFPA 13 standard. Where Note e applies, the increase for both Notes shall be applied accumulatively.

3. Change Section 5003.2 to read:

~~(N)~~5003.2 Systems, equipment and processes. Systems, equipment and processes utilized for storage, dispensing, use or handling of hazardous materials shall be maintained in accordance with the applicable building code.

4. Change Section 5003.2.1 to read:

~~(N)~~5003.2.1 Design and construction of containers, cylinders and tanks. Portable containers and cylinders shall be designed and constructed in accordance with approved standards. Containers, cylinders, and other

means used for containment of hazardous materials shall be of an approved type. Pressure vessels not meeting U.S. Department of Transportation requirements for transportation shall comply with the ASME Boiler and Pressure Vessel Code.

Tanks shall be maintained in accordance with the applicable building code.

5. Change Section 5003.2.2 to read:

~~(N)~~5003.2.2 Piping, tubing, valves and fittings. Piping, tubing, valves, and fittings conveying hazardous materials shall be maintained in accordance with the applicable building code.

6. Delete Section 5003.2.2.1.

7. Change Section 5003.2.2.2 to read:

~~(N)~~5003.2.2.2 Additional regulations for supply piping for health-hazard materials. Supply piping and tubing for gases and liquids shall be maintained in accordance with the applicable building code.

8. Change Section 5003.2.3 to read:

~~(N)~~5003.2.3 Equipment, machinery and alarms. Equipment and machinery associated with the use, storage or handling of hazardous materials shall be listed or approved.

9. Change Section 5003.2.4 to read:

~~(N)~~5003.2.4 Installation of tanks. Installation of tanks shall be in accordance with Sections 5003.2.4.1 through 5003.2.4.2.1.

10. Change Section 5003.2.4.1 to read:

~~(N)~~5003.2.4.1 Underground tanks. Underground tanks used for the storage of liquid hazardous materials shall be maintained in accordance with the applicable building code.

11. Change Section 5003.2.4.2 to read:

~~(N)~~5003.2.4.2 Aboveground tanks. Aboveground stationary tanks used for the storage of hazardous materials shall be maintained in accordance with the requirements for outdoor storage of the particular material involved.

12. Delete Section 5003.2.7.

13. Change Section 5003.2.8 to read:

~~(N)~~5003.2.8. Seismic protection. Where provided, bracing and anchoring for machinery and equipment utilizing hazardous materials shall be maintained in accordance with the applicable building code.

14. 5003.2.9.1 Equipment, devices and systems requiring testing. The following equipment, systems, and devices shall be tested in accordance with Sections 5003.2.9 and 5003.2.9.2.

1. Gas detection systems, alarms, and automatic emergency shutoff valves required by Section 6004.2.2.10 for highly toxic and toxic gases.

2. Limit control systems for liquid level, temperature and pressure required by Sections 5004.8 and 5005.1.4.

3. Emergency alarm systems and supervision required by Sections 5004.9 and 5005.4.4.

4. Monitoring and supervisory systems required by the applicable building code.

5. Manually activated shutdown controls required by the applicable building code for compressed gas systems conveying pyrophoric gases.

15. Change Section 5003.3.1.4 to read:

5003.3.1.4 Responsibility for cleanup. The person, firm, or corporation responsible for an unauthorized discharge shall institute and complete all actions necessary to remedy the effects of such unauthorized discharge, whether sudden or gradual, at no cost to the jurisdiction. The fire code official may require records and receipts to verify cleanup and proper disposal of unauthorized discharges. When deemed necessary by the fire code official, cleanup may be initiated by the fire department or by an authorized individual or firm. Costs associated with such cleanup shall be the responsibility of the owner, operator, or other person responsible for the unauthorized discharge.

Note: Owners and operators of certain underground and aboveground petroleum storage tanks may have access to the Virginia Petroleum Storage Tank Fund for reimbursement of some cleanup costs associated with petroleum discharges from these tanks. See Article 10 (§ 62.1-44.34:10 et seq.) of Title 62.1of the Code of Virginia.

16. Delete Section 5003.8.

17. Change Section 5003.8.1 to read:

~~(N)~~5003.8.1 Buildings. Buildings, or portions thereof, in which hazardous materials are stored, handled or used shall be maintained in accordance with the applicable building code.

18. Delete Section 5003.8.2 and Table 5003.8.2.

19. Change Section 5003.8.3 to read:

~~(N)~~5003.8.3 Control areas. Control areas shall comply with Sections 5003.8.3.2 through 5003.8.3.4.

20. Delete Section 5003.8.3.1.

21. Change Section 5003.8.3.2 to read:

~~(N)~~5003.8.3.2 Percentage of maximum allowable quantities. The percentage of maximum allowable quantities of hazardous materials per control area allowed at each floor level within a building shall be maintained in accordance with the applicable building code.

22. Delete Table 5003.8.3.2.

23. Change Section 5003.8.3.3 to read:

~~(N)~~5003.8.3.3 Number. The maximum number of control areas per floor within a building shall be maintained in accordance with the applicable building code.

24. Change Section 5003.8.3.4 to read:

~~(N)~~5003.8.3.4 Fire-resistance-rating requirements. The required fire-resistance rating for control areas shall be maintained in accordance with the applicable building code.

25. Delete Section 5003.8.3.5 through 5003.8.3.5.3.

26. Delete Section 5003.8.4.

27. Delete Section 5003.8.4.1.

28. Change Section 5003.8.4.2 to read:

~~(N)~~5003.8.4.2 Ventilation system. The ventilation system for gas rooms shall be maintained in accordance with the applicable building code.

29. Change Section 5003.8.5 to read:

~~(N)~~5003.8.5 Exhausted enclosures. Where an exhausted enclosure is used to increase maximum allowable quantity per control area, the exhausted enclosure shall be maintained in accordance with the applicable building code.

30. Delete Section 5003.8.5.1.

31. Change Section 5003.8.5.2 to read:

~~(N)~~5003.8.5.2 Ventilation. The ventilation system for exhausted enclosures shall be maintained in accordance with the applicable building code.

32. Change Section 5003.8.5.3 to read:

~~(N)~~5003.8.5.3 Fire-extinguishing system. Fire-extinguishing systems required for exhaust enclosures shall be maintained in accordance with the applicable building code.

33. Change Section 5003.8.6.2 to read:

~~(N)~~5003.8.6.2 Ventilation. The ventilation system for gas cabinets shall be maintained in accordance with the applicable building code.

34. Change Section 5003.9.9 to read:

~~(N)~~5003.9.9 Shelf storage. Shelving shall be maintained in accordance with the applicable building code.

35. Change Section 5003.11 to read:

~~(N)~~5003.11 Group M storage and display and Group S storage. The aggregate quantity of nonflammable solid and nonflammable or noncombustible liquid hazardous materials stored and displayed within a single

control area of a Group M occupancy, or an outdoor control area, or stored in a single control area of a Group S occupancy shall be maintained in accordance with the applicable building code.

36. Change Section 5003.11.1 to read:

~~(N)~~5003.11.1 Maximum allowable quantity per control area in Group M or S occupancies. The aggregate amount of nonflammable solid and nonflammable or noncombustible liquid hazardous materials stored and displayed within a single control area of a Group M occupancy or stored in a single control area of a Group S occupancy shall not exceed the amounts set forth in the applicable building code.

37. Delete Table 5003.11.1.

38. Change Section 5003.11.2 to read:

~~(N)~~5003.11.2 Maximum allowable quantity per outdoor control area in Group M or S occupancies. The aggregate amount of nonflammable solid and nonflammable or noncombustible liquid hazardous materials stored and displayed within a single outdoor control area of a Group M occupancy shall not exceed the amounts set forth in the applicable building code.

39. Change Section 5003.11.3 to read:

~~(N)~~5003.11.3 Storage and display. Storage and display shall be maintained in accordance with the applicable building code.

40. Delete Section 5003.11.3.1.

41. Change Section 5003.11.3.2 to read:

~~(N)~~5003.11.3.2 Storage and display height. Display height shall not exceed 6 feet (1829 mm) above the finished floor in display areas of Group M occupancies unless approved by the applicable building code. Storage height shall not exceed 8 feet (2438 mm) above the finished floor in storage areas of Group M and Group S occupancies unless approved by the applicable building code.

42. Change Section 5003.11.3.4 to read:

~~(N)~~5003.11.3.4 Racks and shelves. Racks and shelves used for storage or display shall be maintained in accordance with the applicable building code.

43. Change Section 5003.11.3.8 to read:

~~(N)~~5003.11.3.8 Floors. Floors shall be maintained in accordance with the applicable building code.

C. The following changes shall be made to Section 5004, Storage:

1. Change Section 5004.1 to read:

~~(N)~~5004.1 Scope. Storage of hazardous materials shall be maintained in accordance with the applicable building code. Retail and wholesale storage and display of nonflammable solid and nonflammable and noncombustible liquid hazardous materials in Group M occupancies and Group S storage shall be maintained in accordance with the applicable building code.

2. Change Section 5004.2 to read:

~~(N)~~5004.2 Spill control and secondary containment for liquid and solid hazardous materials. Spill control and secondary containment for rooms, buildings or areas used for the storage of liquid or solid hazardous materials shall be maintained in accordance with the applicable building code.

Exception: Outdoor storage of containers on approved containment pallets in accordance with Section 5004.2.3.

3. Delete Section 5004.2.1.

4. Delete Section 5004.2.2 and Table 5004.2.2.

5. Delete Section 5004.2.2.1.

6. Delete Section 5004.2.2.3.

7. Delete Section 5004.2.2.5.

8. Change Section 5004.2.2.6 to read:

~~(N)~~5004.2.2.6 Drainage system design. Drainage systems shall be in accordance with the applicable building code.

9. Change Section 5004.3 to read:

~~(N)~~5004.3 Ventilation. Ventilation required for indoor storage areas and storage buildings shall be maintained in accordance with the applicable building code.

10. Delete Section 5004.3.1.

11. Change Section 5004.5 to read:

~~(N)~~5004.5 Automatic sprinkler systems. Automatic sprinkler systems for the storage of hazardous materials shall be maintained in accordance with the applicable building code.

12. Change Section 5004.6 to read:

~~(N)~~5004.6 Explosion control. Explosion control for storage rooms, areas and buildings shall be maintained in accordance with the applicable building code.

13. Change Section 5004.7 to read:

~~(N)~~5004.7 Standby or emergency power. Standby or emergency power shall be maintained in accordance with the applicable building code.

14. Delete Section 5004.7.1.

15. Delete Section 5004.7.2.

16. Change Section 5004.8 to read:

~~(N)~~5004.8 Limit controls. Limit controls shall be maintained in accordance with the applicable building code.

17. Delete Section 5004.8.1.

18. Delete Section 5004.8.2.

19. Change Section 5004.9 to read:

~~(N)~~5004.9 Emergency alarm. Emergency alarm systems shall be maintained in accordance with the applicable building code.

20. Delete Section 5004.10.

21. Delete Section 5004.12.

22. Change Section 5004.13 to read:

~~(N)~~5004.13 Weather protection. Where overhead noncombustible construction is provided for sheltering outdoor hazardous material storage areas, such storage shall not be considered indoor storage where the area is constructed in accordance with the requirements for weather protection as required by the applicable building code.

Exception: Storage of explosive materials shall be considered as indoor storage.

D. The following changes shall be made to Section 5005, Use, Dispensing and Handling:

1. Change Section 5005.1 to read:

~~(N)~~5005.1 General. Use, dispensing and handling of hazardous materials shall be maintained in accordance with the applicable building code.

2. Delete Section 5005.1.2.

3. Change Section 5005.1.3 to read:

~~(N)~~5005.1.3 Spill control and secondary containment for hazardous material liquids. Where required by the applicable building code, spill control and secondary containment shall be maintained in accordance with the applicable building code.

4. Change Section 5005.1.4 to read:

~~(N)~~5005.1.4 Limit controls. Limit controls shall be maintained in accordance with the applicable building code.

5. Delete Section 5005.1.4.1.

6. Delete Section 5005.1.4.2.

7. Delete Section 5005.1.4.3.

8. Delete Section 5005.1.4.4.

9. Change Section 5005.1.5 to read:

~~(N)~~5005.1.5 Standby or emergency power. Standby or emergency power shall be maintained in accordance with the applicable building code.

10. Delete Section 5005.1.5.1.

11. Delete Section 5005.1.6.

12. Change Section 5005.1.7 to read:

~~(N)~~5005.1.7 Lighting. Lighting provided for use, dispensing and handling of hazardous materials shall be maintained in accordance with the applicable building code.

13. Change Section 5005.1.8 to read:

~~(N)~~5005.1.8 Fire-extinguishing systems. Fire-extinguishing systems for rooms or areas in which hazardous materials are dispensed or used shall be maintained in accordance with the applicable building code.

14. Change Section 5005.1.9 ~~to read~~ and delete Section 5005.1.11 and 5005.1.12.~~:~~

~~(N)~~5005.1.9 Ventilation. Ventilation for indoor dispensing and use areas shall be maintained in accordance with the applicable building code.

15. Change Section 5005.2.1 to read:

5005.2 Indoor dispensing and use. Indoor dispensing and use of hazardous materials shall be in buildings complying with the International Building Code and in accordance with Section 5005.1, Sections 5005.2.1 through 5005.2.1.4, and Sections 5005.2.2.1 through 5005.2.2.4.

16. Change Section 5005.2.1.3 to read:

5005.2.1.3 Spill control for hazardous material liquids. Buildings, rooms, or areas where hazardous material liquids are dispensed into vessels exceeding a 1.3-gallon (5 L) capacity or used in open systems exceeding a 5.3-gallon (20 L) capacity shall be provided with spill control in accordance with the applicable building code.

17. Change Section 5005.2.1.4 to read:

~~(N)~~5005.2.1.4 Secondary containment for hazardous material liquids. Where required by the applicable building code, secondary containment for buildings, rooms or areas where hazardous material liquids are dispensed or used in open systems shall be maintained in accordance with the applicable building code.

18. Delete Table 5005.2.1.4.

19. Delete Section 5005.2.2.

20. Change Section 5005.2.2.1 to read:

~~(N)~~5005.2.2.1 Ventilation. Ventilation for closed systems shall be maintained in accordance with the applicable building code.

21. Change Section 5005.2.2.2 to read:

~~(N)~~5005.2.2.2 Explosion control. Explosion control shall be maintained in accordance with the applicable building code.

22. Change Section 5005.2.2.3 to read:

~~(N)~~5005.2.2.3 Spill control for hazardous material liquids. Spill control for buildings, rooms or areas where hazardous material liquids are used shall be maintained in accordance with the applicable building code.

23. Change Section 5005.2.2.4 to read:

~~(N)~~5005.2.2.4 Secondary containment for hazardous material liquids. Secondary containment for buildings, rooms or areas where hazardous material liquids are used shall be maintained in accordance with the applicable building code.

24. Change Section 5005.3.4 to read:

5005.3.4 Spill control for hazardous material liquids in open systems. Outdoor areas where hazardous material liquids are dispensed in vessels exceeding a 1.3-gallon (5 L) capacity or used in open systems exceeding a 5.3-gallon (20 L) capacity shall be provided with spill control in accordance with the applicable building code.

25. Change Section 5005.3.5 to read:

5005.3.5 Secondary containment for hazardous material liquids in open systems. Where required, outdoor areas where hazardous material liquids are dispensed or used in open systems shall be provided with secondary containment in accordance with the applicable building code where the capacity of an individual vessel or system or the capacity of multiple vessels or systems exceeds the following:

1. Individual vessel or system: greater than 1.3 gallons (5 L).

2. Multiple vessels or systems: greater than 5.3 gallons (20 L).

26. Change Section 5005.3.6 to read:

5005.3.6 Spill control for hazardous material liquids in closed systems. Outdoor areas where hazardous material liquids are used in closed systems exceeding 55 gallons (208 L) shall be provided with spill control in accordance with the applicable building code.

27. Change Section 5005.3.7 to read:

5005.3.7 Secondary containment for hazardous material liquids in closed systems. Where required, outdoor areas where hazardous material liquids are dispensed or used in closed systems shall be provided with secondary containment in accordance with the applicable building code where the capacity of an individual vessel or system or the capacity of multiple vessels or systems exceeds the following:

1. Individual vessel or system greater than 55 gallons (208 L).

2. Multiple vessels or systems greater than 1,000 gallons (3785 L).

28. Change Section 5005.3.9 to read:

5005.3.9 Weather protection. Where overhead noncombustible construction is provided for sheltering outdoor hazardous material use areas, such use shall not be considered indoor use where the area is constructed in accordance with the requirements for weather protection as required in the applicable building code.

Exception: Use of explosive materials shall be considered as indoor use.

29. Change Section 5005.4 to read:

~~(N)~~5005.4 Handling. Handling of hazardous materials shall be maintained in accordance with the applicable building code.

30. Change Section 5005.4.1 to read:

~~(N)~~5005.4.1 Quantities exceeding the maximum allowable quantity per control area. Handling of hazardous materials in outdoor locations in amounts exceeding the maximum allowable quantity per the applicable building code shall be in accordance with Sections 5001, 5003, 5005.1 and 5005.4.

31. Change Section 5005.4.2 to read:

~~(N)~~5005.4.2 Quantities not exceeding the maximum allowable quantity per control area. Handling of hazardous materials in outdoor locations in amounts not exceeding the maximum allowable quantity per the applicable building code shall be in accordance with Sections 5001 and 5003.

32. Change Section 5005.4.4 to read:

~~(N)~~5005.4.4 Dispensing, use and handling. Where hazardous materials having a hazard ranking of 3 or 4 are being transported through corridors, interior exit stairways or ramps or exit passageways, such transportation shall be in accordance with the applicable building code.

13VAC5-51-145.5. ~~Ifc~~ IFC Chapter 51 Aerosols.

A. Change Section 5101.1 to read:

5101.1 Scope. The provisions of this chapter and NFPA 30B shall apply to the manufacturing, storage and display of aerosol products. Manufacturing of aerosol products using hazardous materials shall also comply with Chapter 50.

B. Change Section 5101.2 to read:

5101.2 Permit required. Permits shall be required as set forth in Section 107.2.

C. Change Sections 5104.1, 5104.1.1, 5104.1.2.1, ~~and~~ 5104.2 and 5104.2.2 to read:

~~(N)~~5104.1 General. The inside storage of Levels 2 and 3 aerosol products shall be maintained in accordance with the applicable building code.

5104.1.1 Plastic containers. Aerosol products in plastic containers larger than 4 fluid ounces (118 ml), but not to exceed 33.8 fluid ounces (1000 ml), shall be allowed only where in accordance with this section. The commodity classification shall be Class III commodities, as defined in the applicable NFPA 13 standard where any of the following conditions are met:

1. Base product has no fire point where tested in accordance with ASTM D 92, and nonflammable propellant.

2. Base product has no sustained combustion as tested in accordance with Appendix H, "Method of Testing for Sustained Combustibility," in U.S. Department of Transportation 49 CFR Part 173, and nonflammable propellant.

3. Base product contains up to 20 percent by volume (15.8 percent by weight) of ethanol or isopropyl alcohol, or both, in an aqueous mix, and nonflammable propellant.

4. Base product contains 4 percent by weight or less of an emulsified flammable liquefied gas propellant within an aqueous base. The propellant shall remain emulsified for the life of the product. Where such propellant is not permanently emulsified, the propellant shall be nonflammable.

5104.1.2.1 Storage, use or handling. The storage, use or handling of plastic aerosol X products shall be prohibited unless otherwise specified by the applicable building code.

~~(N)~~5104.2 Storage in Groups A, B, E, F, I and R. Storage of aerosol products in occupancies in Groups A, B, E, F, I and R shall be maintained in accordance with the applicable building code.

5104.2.2 Aerosol cooking spray products. Storage of aerosol cooking spray products in A, B, E, F and R occupancies shall not be more than 1,000 pounds (454 kg) net weight unless otherwise specified by the applicable building code.

D. Change Section 5104.3 and 5104.3.1 to read:

~~(N)~~5104.3 Storage in general purpose warehouses. Aerosol storage in general purpose warehouses shall be maintained in accordance with the applicable building code.

~~(N)~~5104.3.1 Nonsegregated storage. Nonsegregated storage areas shall be maintained in accordance with the applicable building code.

E. Delete Table 5104.3.1.

F. Change Section 5104.3.2 to read:

~~(N)~~5104.3.2 Segregated storage. Segregated storage areas shall be maintained in accordance with the applicable building code.

G. Delete Table 5104.3.2.

H. Change Section 5104.3.2.1 and 5104.3.2.2 to read:

~~(N)~~5104.3.2.1 Chain link fence enclosures. Chain link fence enclosures shall be maintained in accordance with the applicable building code.

~~(N)~~5104.3.2.2 Aisles. The minimum aisle requirements for segregated storage in general purpose warehouses shall be maintained in accordance with the applicable building code.

I. Delete Table 5104.3.2.2.

J. Change ~~Section 5104.4~~ Sections 5104.3.3 through 5104.4.3 to read:

5104.3.3 Aerosol cooking spray products. Solid pile, palletized or rack storage of aerosol cooking spray products in a general purpose warehouse shall not be more than 2,500 pounds (1135 kg) net weight, unless protected in accordance with NFPA 30B or otherwise specified by the applicable building code.

~~(N)~~5104.4 Storage in aerosol warehouses. The total quantity of Levels 2 and 3 aerosol products in a warehouse utilized for the storage, shipping and receiving of aerosol products shall maintained in accordance with the applicable building code.

~~(N)~~5104.4.1 Automatic sprinkler system. Where provided, automatic sprinkler systems protecting aerosol warehouses shall be maintained in accordance with the applicable building code.

~~(N)~~5104.4.2 Pile and palletized storage aisles. Travel distance and aisles serving pile and palletized storage shall be maintained in accordance with the applicable building code.

~~(N)~~5104.4.3 Rack storage aisles. Rack storage shall be maintained in accordance with the applicable building code.

K. Delete Section 5104.4.4.

L. Change Section 5104.5 to read:

~~(N)~~5104.5 Storage in inside flammable liquid storage rooms. Inside flammable liquid storage rooms shall be maintained in accordance with the applicable building code.

M. Delete Sections 5104.5.1 and 5104.5.2.

N. Change Sections 5104.6 and 5104.6.1 to read:

~~(N)~~5104.6 Storage in liquid warehouses. The storage of aerosol products in liquid warehouses shall be maintained in accordance with the applicable building code.

~~(N)~~5104.6.1 Containment. Spill control or drainage shall be maintained in accordance with the applicable building code.

O. Delete Section 5104.6.2.

P. Change Sections 5104.6.3 and 5104.7 to read:

~~(N)~~5104.6.3 Opening protection into segregated storage areas. Fire doors or gates opening into the segregated storage area shall be maintained in accordance with the applicable building code.

~~(N)~~5104.7 Storage in Group M occupancies. Storage of aerosol products in occupancies in Group M shall be maintained in accordance with the applicable building code.

Q. Delete Table 5104.7, and Sections 5104.8.1 and 5104.8.2.

R. Change Sections 5104.8, 5106.1 and 5106.2.1 to read:

5104.8 Storage of aerosol cooking spray products. Aerosol cooking spray products shall be permitted to be stored in a general purpose warehouse in accordance with the applicable building code.

~~(N)~~5106.1 General. This section shall apply to the maintenance of retail display of aerosol products.

~~(N)~~5106.2.1 Maximum quantities in retail display areas. Quantities of aerosol products in retail display areas shall be maintained in accordance with the applicable building code.

S. Delete Table 5106.2.1.

T. Change Section 5106.2.2 and 5106.2.3 to read:

5106.2.2 Aerosol cooking spray storage. The storage of aerosol cooking spray products shall comply with the applicable building code.

~~(N)5106.2.2~~ 5106.2.3 Display of ~~containers~~ aerosol products. Aerosol containers shall be stacked in accordance with the applicable building code.

U. Delete Section ~~5106.2.3~~ 5106.2.4.

V. Change Sections ~~5106.2.4~~ 5106.2.5 through 5106.4.1 to read:

~~(N)5106.2.4~~ 5106.2.5 Retail display automatic sprinkler system. Where an automatic sprinkler system is required for the protected retail display of aerosol products, the wet-pipe automatic sprinkler system shall be in accordance with the applicable ~~building code~~ NFPA 13 standard.

~~(N)~~5106.3 Aerosol display and normal merchandising exceeding 8 feet (2438 mm) high. Aerosol display and merchandising exceeding 8 feet in height shall be in accordance with Sections 5106.3.1 through 5106.3.3.

~~(N)~~5106.3.1 Maximum quantities in retail display areas. Aerosol products in retail display areas shall not exceed quantities approved under the applicable building code.

~~(N)~~5106.3.2 Automatic sprinkler protection. Where provided, automatic sprinkler protection for aerosol display and merchandising areas shall be maintained in accordance with the applicable building code.

~~(N)~~5106.3.3 Separation of aerosol areas. Separation of aerosol areas shall be maintained in accordance with the applicable building code.

~~(N)~~5106.4 Maximum quantities in storage areas. Aerosol products in storage areas adjacent to retail display areas shall not exceed the quantities approved under the applicable building code.

W. Delete Table 5106.4.

X. Change Sections 5106.5 and 5106.5.1 to read:

~~(N)~~5106.5 Special protection design for Levels 2 and 3 aerosols adjacent to flammable and combustible liquids in double-row racks. The display and merchandising of aerosols adjacent to flammable and combustible liquids in double-row racks shall be maintained in accordance with the applicable building code.

~~(N)~~5106.5.1 Fire protection. Where required, fire protection for the display and merchandising of aerosols in double-row racks shall be maintained in accordance with the applicable building code.

Y. ~~Delete Section 5106.2.3.~~

~~Z.~~ Delete Section 5106.5.2.

~~AA.~~ Z. Change Sections 5106.5.3 through 5106.5.6 to read:

~~(N)~~5106.5.3 Shelving. Shelving in racks shall be maintained in accordance with the applicable building code.

~~(N)~~5106.5.4 Aisles. Aisles shall be maintained between rows of racks and adjacent solidly piled or palletized merchandise in accordance with the applicable building code.

~~(N)~~5106.5.5 Flue spaces. Flue spaces in racks shall be maintained in accordance with the applicable building code.

~~(N)~~5106.5.6 Horizontal barriers. Horizontal barriers shall be maintained in accordance with the applicable building code.

~~BB.~~ AA. Delete Sections 5106.5.7 and 5106.5.8.

~~CC.~~ BB. Change Section 5107.1 to read:

~~(N)~~5107.1 General. Manufacturing facilities shall be maintained in accordance with the applicable building code.

13VAC5-51-146.5. ~~Ifc~~ IFC Chapter 53 Compressed Gases.

A. Change Section 5301.1 to read:

5301.1 Scope. Storage, use and handling of compressed gases in compressed gas containers, cylinders, tanks and systems shall comply with the applicable building code, this chapter, and the use and handling provisions of NFPA 55, including those gases regulated elsewhere in this code. Partially full compressed gas containers, cylinders or tanks containing residual gases shall be considered as full for the purposes of the controls required.

Liquefied natural gas for use as a vehicular fuel shall also comply with NFPA 52 and NFPA 59A.

Compressed gases classified as hazardous materials shall also comply with Chapter 50 for general requirements and chapters addressing specific hazards, including Chapters 58 (Flammable Gases), 60

(Highly Toxic and Toxic Materials), 63 (Oxidizers, Oxidizing Gases and Oxidizing Cryogenic Fluids), and 64 (Pyrophoric Materials).

Compressed hydrogen (CH_2) for use as a vehicular fuel shall also comply with Chapters 23 and 58 of this code and NFPA 2.

Cutting and welding gases shall also comply with Chapter 35.

LP-gas shall also comply with Chapter 61.

Exceptions:

1. Gases used as refrigerants in refrigeration systems (see Section 606).

2. Compressed natural gas (CNG) for use as a vehicular fuel shall comply with Chapter 23, NFPA 52, and the International Fuel Gas Code.

3. Cryogenic fluids shall comply with Chapter 55.

B. Change Section 5301.2 to read:

5301.2 Permits. Permits shall be required as set forth in Section 107.2.

C. Change Section 5303.16 to read:

~~(N)~~5303.16 Vaults. Vaults shall be maintained in accordance with the applicable building code.

D. Delete Sections 5303.16.1 through 5303.16.3.

E. Delete Section 5303.16.5.

F. Delete Sections 5303.16.7 through 5303.16.10.

G. Delete Sections 5303.16.12 and 5303.16.14.

H. Change Sections 5305.5 and 5306.2 to read:

~~(N)~~5305.5 Venting. Venting shall be maintained in accordance with the applicable building code.

~~(N)~~5306.2 Interior supply location. Medical gases shall be stored in areas approved under the applicable building code.

I. Delete Sections 5306.2.1 and 5306.2.2.

J. Change ~~Section 5307.2~~ Sections 5307.1 through 5307.4.4 ~~to read~~ and delete Sections 5307.4.1, 5307.4.3.1 and 5307.4.6:

5307.1 General. Compressed gases in storage or use not regulated by the material-specific provisions of Chapters 6, 54, 55, and 60 through 67, including asphyxiant, irritant and radioactive gases, shall comply with this section in addition to other requirements of this chapter.

5307.2 Ventilation. Ventilation for indoor storage and use areas and storage buildings shall be maintained in accordance with the applicable building code.

5307.3 Insulated liquid carbon dioxide systems used in beverage dispensing applications. Insulated liquid carbon dioxide systems with more than 100 pounds (45.4 kg) of carbon dioxide used in beverage dispensing applications shall comply with Section 5307.3.1.

5307.3.1 Ventilation. Mechanical ventilation for areas with carbon dioxide systems shall be maintained in accordance with the applicable building code.

5307.3.2 Gas detection system. Gas detection systems for insulated carbon dioxide systems shall be maintained in accordance with the applicable building code.

5307.4 Carbon dioxide enrichment systems. The maintenance of carbon dioxide enrichment systems with more than 100 pounds (45.4 kg) of carbon dioxide, and carbon dioxide enrichment systems with any quantity of carbon dioxide having a remote fill connection, shall comply with Sections 5307.4.2 through 5307.4.7.

5307.4.2 Equipment. Pressure relief, vent piping, fill indicators, fill connections, vent terminations, piping systems and the storage, use and handling of the carbon dioxide shall be in accordance with the applicable building code.

5307.4.3 Gas detection system. Gas detection systems for carbon dioxide enrichment systems shall be maintained in accordance with the applicable building code.

5307.4.4 Pressurization and ventilation. Pressurization and ventilation of rooms or indoor areas in which carbon dioxide enrichment is provided shall be maintained in accordance with the applicable building code.

~~5307.2 Permits. Permits shall be required as set forth in Section 107.2.~~

~~K. Delete Section 5307.5.~~

~~L. Change Sections 5307.5.1 and 5307.5.2 to read:~~

~~(N)5307.5.1 Ventilation. Mechanical ventilation shall be maintained in accordance with the applicable building code.~~

~~(N)5307.5.2 Emergency alarm system. Where required under the applicable building code, emergency alarm systems shall be maintained.~~

~~M. Delete Section 5308.1.~~

~~N. Change Section 5308.2 to read:~~

~~(N)5308.2 Ventilation. Where mechanical ventilation is required, it shall be maintained in accordance with the applicable building code.~~

13VAC5-51-147. ~~If~~ IFC Chapter 54 Corrosive Materials.

A. Change Sections 5401.1 and 5401.2 to read:

5401.1 Scope. Maintenance and operational aspects of the storage and use of corrosive materials shall be in accordance with this chapter. Compressed gases shall also comply with Chapter 53.

Exceptions:

1. Display and storage in Group M and storage in Group S occupancies complying with Section 5003.11.

2. Stationary storage battery systems in accordance with Section 608.

3. This chapter shall not apply to R-717 (ammonia) where used as a refrigerant in a refrigeration system (see Section 606).

5401.2 Permits. Permits shall be required as set forth in Section 107.2.

B. Change Sections 5403.1 and 5403.2 to read:

5403.1 Quantities not exceeding the maximum allowable quantity per control area. The storage and use of corrosive materials in amounts not exceeding the maximum allowable quantity per control area shall be in accordance with the applicable building code.

5403.2 Quantities exceeding the maximum allowable quantity per control area. The storage and use of corrosive materials in amounts exceeding the maximum allowable quantity per control area shall be in accordance with the applicable building code.

C. Change Sections 5404.1.1 and 5404.2.1 to read:

~~(N)~~5404.1.1 Liquid-tight floor. Liquid-tight floors shall be maintained in accordance with the applicable building code.

~~(N)~~5404.2.1 Aboveground outside storage tanks. Aboveground outside storage tanks shall be maintained in accordance with the applicable building code.

D. Change Section 5405.1.2 to read:

~~(N)~~5405.1.2 Ventilation. Where required, mechanical exhaust ventilation shall be maintained in accordance with the applicable building code.

13VAC5-51-147.5. ~~Ifc~~ IFC Chapter 55 Cryogenic Fluids.

A. Change Sections 5501.1 and 5501.2 to read:

5501.1 Scope. Maintenance and operational aspects of the storage, use and handling of cryogenic fluids shall comply with this chapter and NFPA 55. Cryogenic fluids classified as hazardous materials shall also comply with the general requirements of Chapter 50. Partially full containers containing residual cryogenic fluids shall be considered as full for the purposes of the controls required.

Exceptions:

1. Fluids used as refrigerants in refrigeration systems (see Section 606).

2. Liquefied natural gas (LNG), which shall comply with NFPA 59A.

Oxidizing cryogenic fluids, including oxygen, shall comply with Chapter 63, as applicable.

Flammable cryogenic fluids, including hydrogen, methane and carbon monoxide, shall comply with Chapters 23 and 58, as applicable.

Inert cryogenic fluids, including argon, helium and nitrogen, shall comply with ANSI/CGA P-18.

5501.2 Permits. Permits shall be required as set forth in Section 107.2.

B. Change Section 5503.1.2 to read:

~~(N)~~5503.1.2 Concrete containers. Barrier materials and membranes used in connection with concrete, but not functioning structurally, shall be compatible with the materials contained.

C. Change Sections 5503.5.2 and 5503.6 to read:

~~(N)~~5503.5.2 Securing of containers. Stationary containers shall be secured to foundations in accordance with the applicable building code. Portable containers subject to shifting or upset shall be secured. Nesting shall be an acceptable means of securing containers.

~~(N)~~5503.6 Electrical wiring and equipment. Electrical wiring and equipment shall be maintained in accordance with the applicable building code.

D. Change Section 5504.2.1 to read:

~~(N)~~5504.2.1 Stationary containers. Stationary containers shall be maintained in accordance with the applicable building code.

E. Delete Section 5504.2.1.2.

F. Change Sections 5504.2.1.3, 5504.2.2.2, and 5504.2.2.3 to read:

~~(N)~~5504.2.1.3 Ventilation. Ventilation required in storage areas for stationary containers shall be maintained in accordance with the applicable building code.

~~(N)~~5504.2.2.2 Construction of indoor areas. Rooms or areas used for the storage of cryogenic fluids in portable containers shall be maintained in accordance with the applicable building code.

~~(N)~~5504.2.2.3 Ventilation. Ventilation shall be maintained in accordance with the applicable building code.

G. Change Sections 5505.4.1 and 5505.4.1.1 to read:

~~(N)~~5505.4.1 Dispensing areas. Dispensing of cryogenic fluids with physical or health hazards shall be conducted in approved locations.

~~(N)~~5505.4.1.1 Ventilation. Ventilation required in areas where cryogenic fluids are dispensed shall be maintained in accordance with the applicable building code.

Exception: Cryogenic fluids that can be demonstrated not to create harmful vapors.

13VAC5-51-150. ~~Ifc~~ IFC Chapter 56 Explosives and Fireworks.

A. Change exception 4 in Section 5601.1 to read:

> 4. The possession, storage, and use of not more than 15 pounds (6.81 kg) of commercially manufactured sporting black powder, 20 pounds (9 kg) of smokeless powder and any amount of small arms primers for hand loading of small arms ammunition for personal consumption.

B. Add exceptions 10, 11 and 12 to Section 5601.1 to read:

> 10. The storage, handling, or use of explosives or blasting agents pursuant to the provisions of Title 45.1 of the Code of Virginia.
>
> 11. The display of small arms primers in Group M when in the original manufacturer's packaging.
>
> 12. The possession, storage and use of not more than 50 pounds (23 kg) of commercially manufactured sporting black powder, 100 pounds (45 kg) of smokeless powder, and small arms primers for hand loading of small arms ammunition for personal consumption in Group R-3 or R-5, or 200 pounds (91 kg) of smokeless powder when stored in the manufacturer's original containers in detached Group U structures at least 10 feet (3048 mm) from inhabited buildings and are accessory to Group R-3 or R-5.

C. Change exception 4 in Section 5601.1.3 to read:

> 4. The possession, storage, sale, handling and use of permissible fireworks where allowed by applicable local or state laws, ordinances and regulations provided such fireworks comply with CPSC 16 CFR, Parts 1500-1507, and DOTn 49 CFR, Parts 100-178, for consumer fireworks.

D. Add exception 5 to Section 5601.1.3 to read:

> 5. The sale or use of materials or equipment when such materials or equipment is used or to be used by any person for signaling or other emergency use in the operation of any boat, railroad train or other vehicle for the transportation of persons or property.

E. Change entire Section 5601.2 to read:

5601.2 Permit required. Permits shall be required as set forth in Section 107.2 and regulated in accordance with this section. The manufacture, storage, possession, sale and use of fireworks or explosives shall not take place without first applying for and obtaining a permit.

5601.2.1 Residential uses. No person shall keep or store, nor shall any permit be issued to keep, possess or store, any fireworks or explosives at any place of habitation, or within 100 feet (30,480 mm) thereof.
Exception: Storage of smokeless propellant, black powder, and small arms primers for personal use and not for resale in accordance with Section 5606.

5601.2.2 Sale and retail display. Except for the Armed Forces of the United States, Coast Guard, National Guard, federal, state and local regulatory, law enforcement and fire agencies acting in their official capacities, explosives shall not be sold, given, delivered or transferred to any person or company not in possession of a valid permit. The holder of a permit to sell explosives shall make a record of all transactions involving explosives in conformance with Section 5603.2 and include the signature of any receiver of the

explosives. No person shall construct a retail display nor offer for sale explosives, explosive materials, or fireworks upon highways, sidewalks, public property, or in assembly or educational occupancies.

5601.2.3 Permit restrictions. The fire official is authorized to limit the quantity of explosives, explosive materials, or fireworks permitted at a given location. No person, possessing a permit for storage of explosives at any place, shall keep or store an amount greater than authorized in such permit. Only the kind of explosive specified in such a permit shall be kept or stored.

5601.2.3.1 Permit applicants. As a condition of a permit as provided for in Section 107.5, the fire official shall not issue a permit to manufacture, store, handle, use or sell explosives or blasting agents to any applicant who has not provided on the permit application the name and signature of a designated individual as representing the applicant. When, as provided for in Section 107.2 or 107.6, a permit is required to conduct a fireworks display, as a condition of permit as provided for in Section 107.5, the fire official shall not issue a permit to design, setup or conduct a fireworks display to any applicant who has not provided on the permit application the name and signature of a designated individual as representing the applicant.

If the applicant's designated individual changes or becomes no longer qualified to represent the applicant as responsible management or designated individual, the applicant shall notify the fire official who issued the permit on the change of status of the designated individual. The notice is to be made prior to the use of any explosives or conducting a fireworks display but in no case shall the notification occur more than seven days after the change of status and shall provide the name of another designated individual. The fire official may revoke or require the reissuance of a permit based on a change of permit conditions or status or inability to provide another designated individual.

5601.2.3.1.1 BCC. The SFMO shall process all applications for a BCC for compliance with § 27-97.2 of the Code of Virginia and will be the sole provider of a BCC. Using forms provided by the SFMO, a BCC may be applied for and issued to any person who submits to the completion of a background investigation by providing fingerprints and personal descriptive information to the SFMO. The SFMO shall forward the fingerprints and personal descriptive information to the Central Criminal Records Exchange for submission to the Federal Bureau of Investigation for the purpose of obtaining a national criminal history records check regarding such applicant.

5601.2.3.1.2 Issuance of a BCC. The issuance of a BCC shall be denied if the applicant or designated person representing an applicant has been convicted of any felony, whether such conviction occurred under the laws of the Commonwealth, or any other state, the District of Columbia, the United States or any territory thereof, unless his civil rights have been restored by the Governor or other appropriate authority.

5601.2.3.1.3 Fee for BCC. The fee for obtaining or renewing a BCC from the SFMO shall be $150 plus any additional fees charged by other agencies for fingerprinting and for obtaining a national criminal history record check through the Central Criminal Records Exchange to the Federal Bureau of Investigation.

5601.2.3.1.4 Revocation of a BCC. After issuance of a BCC, subsequent conviction of a felony will be grounds for immediate revocation of a BCC, whether such conviction occurred under the laws of the Commonwealth, or any other state, the District of Columbia, the United States or any territory thereof. The BCC shall be returned to the SFMO immediately. An individual may reapply for his BCC if his civil rights have been restored by the Governor or other appropriate authority.

5601.2.4 Financial responsibility. Before a permit is issued, as required by Section 5601.2, the applicant shall file with the jurisdiction a corporate surety bond in the principal sum of $500,000 or a public liability insurance policy for the same amount, for the purpose of the payment of all damages to persons or property which arise from, or are caused by, the conduct of any act authorized by the permit upon which any judicial

judgment results. The legal department of the jurisdiction may specify a greater amount when conditions at the location of use indicate a greater amount is required. Government entities shall be exempt from this bond requirement.

5601.2.4.1 Blasting. Before approval to do blasting is issued, the applicant for approval shall file a bond or submit a certificate of insurance in such form, amount, and coverage as determined by the legal department of the jurisdiction to be adequate in each case to indemnify the jurisdiction against any and all damages arising from permitted blasting but in no case shall the value of the coverage be less than $1,000,000.

Exception: Filing a bond or submitting a certificate of liability insurance is not required for blasting on real estate parcels of five or more acres conforming to the definition of "real estate devoted to agricultural use" or "real estate devoted to horticultural use" in § 58.1-3230 of the Code of Virginia and conducted by the owner of such real estate.

5601.2.4.2 Fireworks display. The permit holder shall furnish a bond or certificate of insurance in an amount deemed adequate by the legal department of the jurisdiction for the payment of all potential damages to a person or persons or to property by reason of the permitted display, and arising from any acts of the permit holder, the agent, employees or subcontractors, but in no case shall the value of the coverage be less than $1,000,000.

F. Change entire Section 5601.4 to read:

5601.4 Qualifications. Persons in charge of magazines, blasting, fireworks display, or pyrotechnic special effect operations shall not be under the influence of alcohol or drugs which impair sensory or motor skills, shall be at least 21 years of age and possess knowledge of all safety precautions related to the storage, handling or use of explosives, explosive materials or fireworks.

5601.4.1 Certification of blasters and pyrotechnicians. Certificates as a restricted blaster, unrestricted blaster or pyrotechnician will be issued upon proof of successful completion of an examination approved by the SFMO commensurate to the certification sought and completion of a background investigation for compliance with § 27-97.2 of the Code of Virginia. The applicant for certification shall submit proof to the SFMO of the following experience:

1. For certification as a restricted blaster, at least one year under direct supervision by a certified unrestricted blaster, certified restricted blaster or other person(s) approved by the SFMO.

2. For certification as an unrestricted blaster, at least one year under direct supervision by a certified unrestricted blaster or other person or persons approved by the SFMO.

3. For certification as a pyrotechnician, aerial, or pyrotechnician, proximate, applicant was in responsible charge of or has assisted in the documented design, setup and conducting of a fireworks display on at least six occasions within the 24 months immediately preceding the application for certification.

The SFMO shall process all certification applicants for compliance with § 27-97.2 of the Code of Virginia and will be the sole provider of blaster and pyrotechnician certifications.

Exception: The use of explosives by the owner of real estate parcels of five or more acres conforming to the definition of "real estate devoted to agricultural use" or "real estate devoted to horticultural use" in § 58.1-3230 of the Code of Virginia when blasting on such real estate.

5601.4.2 Certification issuance. The issuance of a certification as a blaster or pyrotechnician shall be denied if the applicant has (i) been convicted of any felony, whether such conviction occurred under the laws of the Commonwealth, or any other state, the District of Columbia, the United States or any territory thereof, unless his civil rights have been restored by the Governor or other appropriate authority, (ii) has not provided acceptable proof or evidence of the experience required in Section 5601.4.1, or (iii) has not provided acceptable proof or evidence of the continued training or education required in Section 5601.4.5.

5601.4.3 Fee for certification. The fee for obtaining or renewing a blaster or pyrotechnician certificate from the SFMO shall be $150 plus any additional fees charged by other agencies for fingerprinting and for obtaining a national criminal history record check through the Central Criminal Records Exchange to the Federal Bureau of Investigation.

5601.4.3.1 Fee for replacement certificate. A written request for a replacement blaster or pyrotechnician certificate shall be accompanied by the payment of an administrative fee in the amount of $20 made payable to the Treasurer of Virginia. Verbal requests shall not be accepted.

5601.4.4 Revocation of a blaster or pyrotechnician certification. After issuance of a blaster or pyrotechnician certification, subsequent conviction of a felony will be grounds for immediate revocation of a blaster or pyrotechnician certification, whether such conviction occurred under the laws of the Commonwealth, or any other state, the District of Columbia, the United States or any territory thereof. The certification shall be returned to the SFMO immediately. An individual may subsequently reapply for his blaster or pyrotechnician certification if his civil rights have been restored by the Governor or other appropriate authority.

5601.4.5 Expiration and renewal of a BCC, or blaster or pyrotechnician certification. A certificate for an unrestricted blaster, restricted blaster or pyrotechnician shall be valid for three years from the date of issuance. A BCC shall be valid for three years from the date of issuance. Renewal of the unrestricted blaster certificate will be issued upon proof of at least 16 accumulated hours of continued training or education in the use of explosives within three consecutive years and a background investigation for compliance with § 27-97.2 of the Code of Virginia. Renewal of the restricted blaster certificate will be issued upon proof of at least eight accumulated hours of continued training or education in the use of explosives within three consecutive years and a background investigation for compliance with § 27-97.2 of the Code of Virginia. Renewal of the pyrotechnician certificate will be issued upon proof of at least 12 accumulated hours of continued training or education in the subject areas of explosives storage; the design, setup or conduct of a fireworks display within three consecutive years; and a background investigation for compliance with § 27-97.2 of the Code of Virginia. The continued training or education required for renewal of a blaster or pyrotechnician certificate shall be obtained during the three years immediately prior to the certificate's published expiration date. Failure to renew a blaster or pyrotechnician certificate in accordance with this section shall cause an individual to obtain another blaster or pyrotechnician certificate upon compliance with Section 5601.4.1 to continue engaging in the unsupervised use of explosives or conducting a fireworks display.

5601.4.6 Denial, suspension or revocation of a certificate. If issuance or renewal of a blaster or pyrotechnician certificate is denied, or upon the filing of a complaint against an applicant or certificate holder for non-performance, or performance in violation of the SFPC and the appropriate referenced NFPA 495, 1123 or 1126 standards, the State Fire Marshal may convene a three-member panel to hear the particulars of the complaint or denial. The three-member panel will be comprised of the following persons:

1. A Virginia certified fire official, excluding any person certified as a blaster or pyrotechnician, or who is on the staff of the SFMO.

2. A Virginia certified blaster or pyrotechnician whose certification is the same as that of the person to whom a complaint is lodged, and who is not associated in any way with the person against whom a complaint is lodged and whose work or employer is geographically remote, as much as practically possible, from the person to whom a complaint is lodged.

3. A member of the general public who does not have a vested financial interest in conducting a fireworks display, or the manufacture, sale, storage, or use of explosives.

Upon the State Fire Marshal convening such panel, the hearing is to commence within 60 calendar days of the filing of the complaint or denial. The three-member panel is to hear the complaint and render a written recommendation to the State Fire Marshal for certificate issuance, no action, revocation, or suspension of a certificate for a period not to exceed six months. Notwithstanding the discretionary decision and action to convene such panel, the State Fire Marshal reserves the authority to choose an action that may be contrary to the panel's recommendation. A written decision of the State Fire Marshal is to be delivered to the party within 14 days of the hearing's conclusion. If the certificate is denied, revoked, or suspended by the SFMO, in accordance with Section 112.9, the party may file an appeal with the State Review Board. The party's appeal to State Review Board must be filed within 14 calendar days of the receipt of the State Fire Marshal's written decision to deny, revoke, or suspend. The denial, revocation, or suspension of a license is independent of any criminal proceedings that may be initiated by any state or local authority.

5601.4.6.1 Replacement of revoked certificate. Any person whose certificate as a pyrotechnician or blaster was revoked upon cause may apply for certification as a pyrotechnician or blaster six months or more from the date of the revocation and upon compliance with Section 5601.4.1. All elements of Section 5601.4.1 are required to be obtained and dated after the date of revocation.
5601.4.6.2 Return of suspended certificate. Any certificate that was suspended upon cause will be reinstated at the end of the suspension period without change to its expiration date.

G. Change Section 5601.7 to read:

5601.7 Seizure. The fire official is authorized to remove or cause to be removed or disposed of in an approved manner, at the expense of the owner, fireworks offered or exposed for sale, stored, possessed or used in violation of this chapter.

H. Change Section 5601.8.1.1 to read:

5601.8.1.1 Mass-detonating explosives (Division 1.1, 1.2 or 1.5). The total net explosive weight of mass-detonating explosives (Division 1.1, 1.2 or 1.5) shall be used. See Table 5604.5.2(1) as appropriate.
Exception: Where the TNT equivalence of the explosive material has been determined, the equivalence is allowed to be used to establish the net explosive weight.

I. Change Section 5601.8.1.3 to read:

5601.8.1.3 Combinations of mass-detonating and non-mass-detonating explosives (excluding Division 1.4). Combination of mass-detonating and non-mass-detonating explosives (excluding Division 1.4) shall be as follows:

1. Where Divisions 1.1 and 1.2 explosives are located in the same site, determine the distance for the total quantity considered first as Division 1.1 and then as Division 1.2. The required distance is the greater of the two. Where the Division 1.1 requirements are controlling and the TNT equivalence of the Division 1.2 is known, the TNT equivalent weight of the Division 1.2 items

shall be allowed to be added to the total explosive weight of Division 1.1 items to determine the net explosive weight for Division 1.1 distance determination. See Table 5604.5.2(2) as appropriate.

2. Where Divisions 1.1 and 1.3 explosives are located in the same site, determine the distances for the total quantity considered first as Division 1.1 and then as Division 1.3. The required distance is the greater of the two. Where the Division 1.1 requirements are controlling and the TNT equivalence of the Division 1.3 is known, the TNT equivalent weight of the Division 1.3 items shall be allowed to be added to the total explosive weight of Division 1.1 items to determine the net explosive weight for Division 1.1 distance determination. See Table 5604.5.2(1) or Table 5604.5.2(2) as appropriate.

3. Where Divisions 1.1, 1.2 and 1.3 explosives are located in the same site, determine the distances for the total quantity considered first as Division 1.1, next as Division 1.2 and finally as Division 1.3. The required distance is the greatest of the three. As allowed by subdivisions 1 and 2 of this subsection, TNT equivalent weights for Division 1.2 and Division 1.3 items are allowed to be used to determine the net weight of explosives for Division 1.1 distance determination. Table 5604.5.2(1) shall be used where TNT equivalency is used to establish the net explosive weight.

4. For composite pyrotechnic items Division 1.1 and Division 1.3, the sum of the net weights of the pyrotechnic composition and the explosives involved shall be used. See Tables 5604.5.2(1) and 5604.5.2(2).

J. Change Section 5605.6.4.1 to read:

5605.6.4.1 Magazines. Magazines used for storage in processing areas shall be in accordance with the requirements of Section 5604.5.1. Explosive materials shall be removed to appropriate storage magazines for unattended storage at the end of the work day. The contents of indoor magazines shall be added to the quantity of explosives contained at individual workstations and the total quantity of material stored, processed or used shall be utilized to establish the intraplant separation distances indicated by Table 5604.5.2(3) as appropriate.

K. Change Section 5606.5.2.1 to read:

5606.5.2.1 Smokeless propellant. Commercial stocks of smokeless propellants shall be stored as follows:

1. Quantities exceeding 20 pounds (9 kg), but not exceeding 100 pounds (45 kg) shall be stored in portable wooden boxes having walls of not less than 1 inch (25 mm) nominal thickness or equivalent.

2. Quantities exceeding 100 pounds (45 kg), but not exceeding 800 pounds (363 kg), shall be stored in storage cabinets having walls not less than 1 inch (25 mm) nominal thickness or equivalent. Not more than 400 pounds (182 kg) shall be stored in any one cabinet, and cabinets shall be separated by a distance of at least 25 feet (7620 mm) or by a fire partition having a fire-resistance rating of at least 1 hour.

3. Storage of quantities exceeding 800 pounds (363 kg), but not exceeding 5,000 pounds (2270 kg) in a building shall comply with all of the following:

3.1. The storage is inaccessible to unauthorized personnel.

3.2. Smokeless propellant shall be stored in nonportable storage cabinets having wood walls not less than 1 inch (25 mm) nominal thickness or equivalent and having shelves with not no more than 3 feet (914 mm) of vertical separation between shelves.

3.3. No more than 400 pounds (182 kg) is stored in any one cabinet.

3.4. Cabinets shall be located against walls with at least 40 feet (12 192 mm) between cabinets.

3.5. The minimum required separation between cabinets may be reduced to 20 feet (6096 mm) provided that barricades twice the height of the cabinets are attached to the wall, midway between each cabinet. The barricades must extend a minimum of 10 feet (3048 mm) outward, be firmly attached to the wall and be constructed of steel not less than 1/4 inch thick (6.4 mm), 2-inch (51 mm) nominal thickness wood, brick or concrete block.

3.6. Smokeless propellant shall be separated from materials classified as combustible liquids, flammable liquids, flammable solids or oxidizing materials by a distance of 25 feet (7620 mm) or by a fire partition having a fire-resistance rating of 1 hour.

3.7. The building shall be equipped throughout with an automatic sprinkler system installed in accordance with the applicable ~~building code~~ NFPA 13 standard.

4. Smokeless propellants not stored in according to Item 1, 2, or 3 shall be stored in a Type 2 or 4 magazine in accordance with Section 5604 and NFPA 495.

L. Change Section 5606.5.2.3 to read:

5606.5.2.3 Small arms primers. Commercial stocks of small arms primers shall be stored as follows:

1. Quantities not to exceed 750,000 small arms primers stored in a building shall be arranged such that not more than 100,000 small arms primers are stored in any one pile and piles are not less than 15 feet (4572 mm) apart.

2. Quantities exceeding 750,000 small arms primers stored in a building shall comply with all of the following:

2.1. The warehouse or storage building ~~shall not be accessible~~ is not open to unauthorized personnel.

2.2. Small arms primers shall be stored in cabinets. Not more than 200,000 small arms primers shall be stored in any one cabinet.

2.3. Shelves in cabinets shall have vertical separation of not less than 2 feet (610 mm).

2.4. Cabinets shall be located against walls of the warehouse or storage room with not less than 40 feet (12 192 mm) between cabinets. The minimum required separation between cabinets shall be allowed to be reduced to 20 feet (6096 mm) provided that barricades twice the height of the cabinets are attached to the wall, midway between each cabinet. The barricades shall be firmly attached to the wall and shall be constructed of steel not less than 1/4 inch thick (6.4 mm), 2-inch (51 mm) nominal thickness wood, brick or concrete block.

2.5. Small arms primers shall be separated from materials classified as combustible liquids, flammable liquids, flammable solids or oxidizing materials by a distance of 25 feet (7620 mm) by a fire partition having a fire-resistance rating of 1 hour.

2.6. The building shall be protected throughout with an automatic sprinkler system installed in accordance with the applicable ~~building code~~ NFPA 13 standard.

3. Small arms primers not stored in accordance with Item 1 or 2 of this section shall be stored in a magazine meeting the requirements of Section 5604 and NFPA 495.

M. Add the following to the list of definitions in Section 5602.1:

Background clearance card (BCC).

Blaster, restricted.

Blaster, unrestricted.

Design.

Designated individual.

Fireworks.

Fireworks, 1.4G.

Fireworks, 1.3G.

Permissible fireworks.

Pyrotechnician (fireworks operator).

Pyrotechnician, aerial.

Pyrotechnician, proximate.

Responsible management.

Smokeless propellants.

Sole proprietor.

N. Change Section 5603.4 to read:

5603.4 Accidents. Accidents involving the use of explosives, explosive materials, and fireworks, which result in injuries or property damage, shall be immediately reported by the permit holder to the fire code official and State Fire Marshal.

O. Change Section 5605.1 to read:

5605.1 General. The restricted and unrestricted manufacture, assembly and testing of explosives, ammunition, blasting agents and fireworks shall comply with the requirements of this section, NFPA 495, NFPA 1124, or NFPA 1126.

Exceptions:

1. The hand loading of small arms ammunition prepared for personal use and not offered for resale.

2. The mixing and loading of blasting agents at blasting sites in accordance with NFPA 495.

P. Add Section 5605.1.1 to read:

5605.1.1 Permits. Permits for the restricted and unrestricted explosives manufacture, assembly and testing of explosives, ammunition, blasting agents and fireworks shall be required as set forth in Section 107.2 and regulated in accordance with this section. A permit for unrestricted explosives manufacturing of any explosive material shall be prohibited unless such manufacture is authorized by a federal license and conducted in accordance with recognized safety practices. All restricted explosives manufacturing shall comply with the instructions provided by the supplier of the components used in the manufacture of the explosive material.

Exceptions:

1. Any recreational use of reactive targets is not required to obtain a permit for restricted explosives manufacture or explosives use when such manufacture and use complies with all of the following:

1.1. The manufacture and use is limited to one pound or less per unit on private property with the permission of the property owner and used no closer than 500 feet from a roadway or structure;

1.2. The manufacture of the reactive target complies with the instructions provided by the producer of the components used in the manufacture;

1.3. The reactive target manufactured is for immediate use without any residual storage or transportation; and

1.4. The exploding or use of the target is in conformance with its intended purpose by the manufacturer of the reactive target and does not involve the deliberate destruction of any property, vehicle, structure or animal life.

2. The owner of real estate parcels of five or more acres conforming to the definition of "real estate devoted to agricultural use" or "real estate devoted to horticultural use" in § 58.1-3230 of the Code of Virginia is not required to obtain a permit for restricted explosives manufacture when such manufacture complies with all of the following:

2.1. The manufacture of the explosives is conducted by the owner of such real estate;

2.2. The manufacture of the explosives complies with the instructions provided by the producer of the components used in the manufacture;

2.3. The explosive used does not include reactive targets;

2.4. The reactive target manufactured is for immediate use without any residual storage or transportation; and

2.5. A permit to use explosives has been obtained in accordance with Section 107.2.

3. An applicant that is performing nonpersonal, business work is not required to obtain a permit for restricted explosives manufacture when such manufacture complies with all of the following:

3.1. The applicant's certified blaster who manufactures the explosives complies with the instructions provided by the producer of the components used in the manufacture;

3.2. The explosive used does not include the use of reactive targets;

3.3. The explosive material manufactured is for immediate use without any residual storage or transportation; and

3.4. A permit to use explosives has been obtained in accordance with Section 107.2.

Q. Delete Section 5605.3.

R. Change Section 5605.4 to read:

~~(N)~~5605.4 Separation of manufacturing operating buildings from inhabited buildings, public traffic routes and magazines. Where an operating building on an explosive materials plant site is designed to contain explosive materials, such a building shall be maintained in accordance with the applicable building code.

S. Change Section 5605.5 to read:

~~(N)~~5605.5 Buildings and equipment. Buildings or rooms that exceed the maximum allowable quantity per control area of explosive materials shall be operated in accordance with this section.

Exception: Fireworks manufacturing buildings constructed and operated in accordance with NFPA 1124.

T. Delete Table 5605.3.

U. Change Section 5605.6.4 to read:

~~(N)~~5605.6.4 Quantity limits. The quantity of explosives at any particular work station shall be limited to that posted on the load limit signs for the individual work station. The total quantity of explosives for multiple workstations shall not exceed that established by the intraplant distances in accordance with the applicable building code.

V. Change Section 5606.4 to read:

5606.4 Storage in residences. Propellants for personal use in quantities not exceeding 50 pounds (23 kg) of black powder or 100 pounds (45 kg) of smokeless powder shall be stored in original containers in occupancies limited to Groups R-3 and R-5, or 200 pounds (91 kg) of smokeless powder when stored in the manufacturer's original containers in detached Group U structures that are at least 10 feet from inhabited buildings and are accessory to Group R-3 or R-5. In other than Group R-3 or R-5, smokeless powder in quantities exceeding 20 pounds (9 kg) but not exceeding 50 pounds (23 kg) shall be kept in a wooden box or cabinet having walls of at least one inch (25 mm) nominal thickness or equivalent.

W. Delete Sections 5606.4.1, 5606.4.2, and 5606.4.3.

X. Change Section 5606.5.1.1 to read:

5606.5.1.1 Smokeless propellant. No more than 100 pounds (45 kg) of smokeless propellants, in containers of 8 pounds (3.6 kg) or less capacity, shall be displayed in Group M occupancies.

Y. Delete Section 5606.5.1.3.

Z. Change Section 5606.5.2.1 to read:

5606.5.2.1 Smokeless propellant Commercial stocks of smokeless propellants shall be stored as follows:

1. Quantities exceeding 20 pounds (9 kg), but not exceeding 100 pounds (45 kg) shall be stored in portable wooden boxes having walls of at least one inch (25 mm) nominal thickness or equivalent.

2. Quantities exceeding 100 pounds (45 kg), but not exceeding 800 pounds (363 kg), shall be stored in storage cabinets having walls at least one inch (25 mm) nominal thickness or equivalent. Not more than 400 pounds (182 kg) shall be stored in any one cabinet, and cabinets shall be separated by a distance of at least 25 feet (7620 mm) or by a fire partition having a fire-resistance rating of at least one hour.

3. Storage of quantities exceeding 800 pounds (363 kg), but not exceeding 5,000 pounds (2270 kg) in a building shall comply with all of the following:

3.1. The storage is inaccessible to unauthorized personnel.

3.2. Smokeless propellant shall be stored in nonportable storage cabinets having wood walls at least one inch (25 mm) nominal thickness or equivalent and having shelves with no more than three feet (914 mm) of vertical separation between shelves.

3.3. No more than 400 pounds (182 kg) is stored in any one cabinet.

3.4. Cabinets shall be located against walls with at least 40 feet (12 192 mm) between cabinets. The minimum required separation between cabinets may be reduced to 20 feet (6096 mm) provided that barricades twice the height of the cabinets are attached to the wall, midway between each cabinet. The barricades must extend a minimum of 10 feet (3048 mm) outward, be firmly attached to the wall, and be constructed of steel not less than 0.25 inch thick (6.4 mm), two-inch (51 mm) nominal thickness wood, brick, or concrete block.

3.5. Smokeless propellant shall be separated from materials classified as combustible liquids, flammable liquids, flammable solids, or oxidizing materials by a distance of 25 feet (7620 mm) or by a fire partition having a fire-resistance rating of one hour.

3.6. The building shall be equipped throughout with an automatic sprinkler system installed in accordance with ~~Section 903.3.1.1~~ the applicable NFPA 13 standard.

4. Smokeless propellants not stored according to Item 1, 2, or 3 above shall be stored in a Type 2 or 4 magazine in accordance with Section 5604 and NFPA 495.

AA. Change Section 5607.1 to read:

5607.1 General. Blasting operations shall be conducted only by persons certified by the SFMO as a restricted or unrestricted blaster or shall be supervised on-site by a person properly certified by the SFMO as a restricted or unrestricted blaster.

BB. Add Section 5607.16 to read:

5607.16 Blast records. A record of each blast shall be kept and retained for at least five years and shall be readily available for inspection by the code official. The record shall be in a format selected by the blaster and shall contain the minimum data and information indicated in Form 5607.16.

Form 5607.16
Blast (shot) Record

Block 1 General Information				
1	Blast date:	Blast Number:	Blast Time:	Permit Number:
2	Blast location by address including city, county or town:			
3	Blast location by GPS coordinates: □ check box if unknown			
4	Name of Permit Holder:			
5	Name of Blaster in charge (print):			
6	Signature of Blaster in charge:			
7	Certification Number of Blaster in charge:			

Block 2 General Environmental Conditions			
1	Weather (Clear? Cloudy? Overcast?)	Wind direction and speed @_____mph	Temperature F° / C°
2	Topography (Flat? Hilly? Mountainous?)	Distance from blast site to nearest inhabited building:	Distance from nearest inhabited building determined by: □ GPS coordinates □ Measurement □ Estimated
3	Use of nearest inhabited building (Dwelling? Business? Apartment Building? School?)	Direction from blast site to nearest inhabited building:	Direction from blast site to nearest inhabited building determined by: □ GPS instrument □ Compass □ Estimated
Additional Blaster notations on environmental conditions:			

Block 3 Shot Layout and Precautions Taken (N/A = Not Applicable)			
1	Number of holes	Diameter of hole or holes	Depth of hole or holes
2	Were any holes decked? □ Yes □ No	How many holes were decked? □ N/A	How many decks per hole? □ N/A
		(If applicable, indicate on any attached shot pattern drawing which holes were decked and the number of decks for the holes.)	
3	Shot pattern □ Check this box if only single hole.	Depth of sub-drilling	Drilling angle
4	Burden	Spacing of holes	Water height
5	Stemming height	Material used for stemming	Check box for flyrock precautions taken □ Mats □ Overburden □ None taken
Additional Blaster notations on shot layout and precautions:			

Block 4 Seismic Control Measures (N/A = Not Applicable)			
1	Was scaled distance formula used? □ Yes □ No	Indicate which scaled distance equation was used. □ N/A □ $W(lb)=\{D(ft)/50\}^2$ □ $W(lb)=\{D(ft)/55\}^2$ □ $W(lb)=\{D(ft)/65\}^2$	Maximum allowable charge weight per 8 ms based on scaled distance. □ N/A
2	Was seismograph used? □ Yes □ No	Seismograph manufacturer and model number: □ N/A	Seismograph serial number: □ N/A Seismograph's last calibration date. □ N/A
3	Distance and direction seismograph from blast site □ N/A	Distance determined by: □ N/A □ GPS coordinates □ Estimated □ Measurement	
4	Seismograph □ N/A Geophone Minimum Frequency _____Hz Seismograph Microphone Minimum Frequency _____Hz	Seismograph recordings: □ N/A Transverse _____in/s ____ Hz Vertical _____in/s ____ Hz Longitudinal _____in/s ____ Hz Acoustic _____dB ____ Hz	
5	Seismograph trigger level □ N/A _____ in/s _____dB		
Additional Blaster notations on seismic control measures:			

Block 5 Quantity and Product				
1	Maximum allowable charge weight per 8 ms interval □ Delay not used _____ lbs		Initiation (Check) □ Electric □ Non-electric □ Electronic	
2	Maximum number of holes/decks per 8 ms interval □ Delay not used _____ lbs			
3	Maximum weight or sticks of explosive per hole _____ lbs		Firing device manufacturer and model: □ N/A	
	Explosive Product listing (Attach additional pages as needed.)			
4	Manufacturer	Product name, description or brand	Number of units	Unit weight (lb)
5	Total explosive weight in this shot: lbs.			
Additional Blaster notations on product and quantities:				

Block 6 Completion of Shot Record and General Comments	
General comments on shot not included in notes above:	
Date shot report completed:	Time shot report completed:
Printed name and signature of person completing shot report if different from Block 1, Lines 5 and 6.	(Print) (Signature)

CC. Change Section 5608.2 to read:

5608.2 Permit application. Prior to issuing permits for a fireworks display, plans for the fireworks display, inspections of the display site and demonstrations of the display operations shall be approved. A plan establishing procedures to follow and actions to be taken in the event that a shell fails to ignite in, or discharge from, a mortar or fails to function over the fallout area or other malfunctions shall be provided to the fire code official.

In addition to the requirements of Section 5601.2.3.1, a permit to conduct a fireworks display shall not be issued to any applicant without the applicant identifying on the application the pyrotechnician who will be in responsible charge of the fireworks display and who is appropriately certified as a pyrotechnician in accordance with Section 5601.4.1.

Exception: Permits are not required for the use or display of permissible fireworks on private property with the consent of the owner of such property.

DD. Change Section 5608.3 to read:

5608.3 Approved fireworks displays. Approved fireworks displays shall include only the approved fireworks 1.3G, fireworks 1.4G, fireworks 1.4S and pyrotechnic articles 1.4G. The design, setup, conducting or direct on-site supervision of the design, setup and conducting of any fireworks display, either inside a building or outdoors, shall be performed only by persons certified by the SFMO in accordance with Section 5601.4.1 as a pyrotechnician (firework operator) and at least one person properly certified by the SFMO as a pyrotechnician shall be present at the site where the fireworks display is being conducted. The approved fireworks shall be arranged, located, discharged and fired in a manner that will not pose a hazard to property or endanger any person.

Exception: Certification as a pyrotechnician is not required for the use or display of permissible fireworks when conducted on private property with the consent of the owner of such property.

EE. Change Section 5608.4 to read:

5608.4 Clearance. Spectators, spectator parking areas, and dwellings, buildings or structures shall not be located within the display site. The site for the outdoor land or water display shall have at least 100-ft/in. (31-m/2.4mm) radius of internal mortar diameter of the largest shell to be fired as shown in Table 5608.4.

Exceptions:

1. This provision shall not apply to pyrotechnic special effects and fireworks displays using Division 1.4G materials before a proximate audience in accordance with NFPA 1126.

2. This provision shall not apply to unoccupied dwellings, buildings and structures with the approval of the building owner and the fire code official.

FF. Add Table 5608.4 to read:

Table 5608.4
Distances for Outdoor Fireworks Display Sites: Minimum Separation Distances from Mortars to Spectators for Land and Water Displays

Mortar Size[a]	Minimum Secured Diameter of Site	Vertical Mortars[b]	Angled Mortars[c] 1/3 offset	Mortars to Special Hazards[d]

in.	mm	ft	m	ft	m	ft	m	ft	m
<3	<76	300	92	150	46	100	31	300	92
3	76	600	183	300	92	200	61	600	183
4	102	800	244	400	122	266	81	800	244
5	127	1000	305	500	152	334	102	1000	305
6	152	1200	366	600	183	400	122	1200	366
7	178	1400	427	700	213	467	142	1400	427
8	203	1600	488	800	244	534	163	1600	488
10	254	2000	610	1000	305	667	203	2000	610
12	305	2400	732	1200	366	800	244	2400	732
>12	Requires the approval of the fire official								

[a] Aerial shells, mines, and comets shall be classified and described only in terms of the inside diameter of the mortar from which they are fired (e.g., 3-in. (76-mm) aerial shells, mines and comets are only for use in 3-in. (76mm) mortars).

[b] Where the mortars are positioned vertically, the mortars shall be placed at the approximate center of the display site.

[c] Mortars shall be permitted to be angled during a display to allow for wind and to carry shells away from the main spectator viewing areas. For angled mortars, the minimum secured diameter of the display site does not change. Only the location of the mortars within the secured area changes when the mortars are angled.

[d] Note that this is only the distance to the special hazards. The minimum secured diameter of the display site does not change.

GG. Add Sections 5608.4.1 and 5608.4.2 to read:

5608.4.1 Non-splitting, non-bursting comets and mines. For non-splitting or non-bursting comets and mines containing only stars or non-splitting or non-bursting comets, the minimum required radius of the display site shall be 50 feet per inch (15.24 m per 25.4 mm) of the internal mortar diameter of the largest comet or mine to be fired, one-half that shown in Table 5608.4.

5608.4.2 Special distance requirements. The minimum distance requirements of Table 5608.4 shall be adjusted as follows:

1. For chain-fused aerial shells and comets and mines to be fired from mortars, racks, or other holders that are sufficiently strong to prevent their being repositioned in the event of an explosive malfunction of the aerial shells, comets, or mines, the minimum required radius shall be the same as that required in Sections 5608.4 and 5608.4.1. For chain-fused aerial shells and comets and mines to be fired from mortars, racks, or other holders that are not sufficiently strong to prevent their being repositioned in the event of an explosive malfunction of the aerial shells, comets, or mines, or if there is doubt concerning the strength of racks holding chain-fused mortars, based upon the largest mortar in the sequence, the minimum required radius shall be double that required in Sections 5608.4 and 5608.4.1.

2. Distances from the point of discharge of any firework to a health care or detention and correctional facility, or the bulk storage of materials that have flammability, explosive, or toxic hazard shall be at least twice the distances specified in Table 5608.4.