**Proponents:** DHCD Staff (sbco@dhcd.virginia.gov) on behalf of the SFPC Sub-workgroup.

**Reason Statement:** This proposal includes items that were reviewed and decided on by the SFPC Sub-workgroup at their 02/16/2022 meeting. For a complete list of proposed changes please see attached document "cdpVA Proposal No.1".

**Resiliency Impact Statement:** This proposal will increase Resiliency
The proposal will increase the resiliency by ensuring that the buildings will be maintained in accordance with the applicable codes and standards.

**Cost Impact:** The code change proposal will not increase or decrease the cost of construction
The intent of the changes is to ensure that buildings are maintained in accordance with the building codes and standards in effect at the time of construction. New construction requirements are not stipulated by these changes. Thus, the proposed changes should have a neutral effect on the construction cost.
603.1 General. Electrical equipment, wiring and systems shall be installed, located and maintained in accordance with this section and the applicable building code.

603.1.1 Equipment and wiring. Equipment, wiring, devices and appliances shall be installed, located and maintained in accordance with this section and the applicable NFPA 70 standard.

603.2. Equipment or materials damaged. Electrical wiring, devices, equipment and appliances that are modified or damaged, including electrical wiring, devices, equipment and appliances that are modified or damaged, shall be replaced in accordance with Section 2203.4.1 of the International Fire Code or as required by the applicable building code.

603.5.1 Space heaters. Unless otherwise allowed by the applicable building code, speed-heaters, space-heating appliances in dust-laden airstreams, and space-heating appliances in dust-producing or dust-handling areas shall be located in accordance with the applicable building code of the area and the applicable building code.

603.5.5 Fire alarm system interface. Where an emergency alarm system is interfaced with a building's fire alarm system, the signal produced at the fire alarm control unit is permitted to be a supervisory signal only.

1001.1 General. Means of egress systems for buildings or portions thereof shall be maintained in accordance with the applicable building code and this chapter.

1004.7 Outdoor areas. The means of egress for yards, patios, occupied remotes, courts and similar accessible and usable outdoor areas shall be maintained in accordance with the applicable building code.

1004.7.1 Outdoor areas. The means of egress for yards, patios, occupied remotes, courts and similar accessible and usable outdoor areas shall be maintained in accordance with the applicable building code.

1201.2 Exposed electrical equipment. Electrical wiring and equipment used in connection with energy systems shall be maintained in accordance with this chapter, Section 603 and the applicable building code.

1203.2.5 Exhaust ventilation. Where standby power for mechanical exhaust ventilation systems is provided or required by the applicable building code, the standby power shall be maintained.

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2203.1.1 Classified electrical equipment. Classified electrical equipment shall be maintained in accordance with the applicable NFPA 70. Electrical motors and electrical components of the equipment shall not be operated in the dust-laden airstream unless listed for suitability in accordance with the applicable building code.

2203.4.1 Class I electrical equipment shall be identified, marked and the effectiveness of portable fire extinguishers or hoses shall be maintained.

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2203.5.5 Fire alarm system interface. Where an emergency alarm system is interfaced with a building's fire alarm system, the signal produced at the fire alarm control unit is permitted to be a supervisory signal only.

2203.6.1 Equipment and wiring. Equipment, wiring, devices and appliances shall be installed, located and maintained in accordance with this section and the applicable NFPA 70 standard.

2203.6.1 Modified or damaged. Electrical wiring, devices, equipment and appliances that are modified or damaged, shall be replaced with new equipment and maintained in accordance with this section and the applicable NFPA 70 standard.

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2203.6.4 Smoke protection devices. Smoke protection devices shall not be operated within 20 feet (6096 mm) of areas requiring classified electrical equipment unless separated by a permanent partition or approved in accordance with the applicable building code. The clear distance required by the applicable building code between smoke protection devices and areas requiring classified electrical equipment shall be maintained.
229 2203.4.9.4. Inspection and preventive maintenance. Inspection and maintenance of fuel-fired process equipment shall include verification that significant combustible dust accumulations do not exist within or around the equipment.

229 Incorporate 2021 IFC Section 2203.4.9.4.

229 2203.5.5. Stack enclosure. Accumulation of combustible dust on surfaces inside buildings shall be maintained below the critical depth layer allowed by the applicable building code.

229 Incorporate 2021 IFC Section 2203.5.5.

229 5704.2.1. Emergency response plan. A written emergency response plan shall be developed for preventing, preparing for, responding to, and coordinating responses to work-related emergencies, including but not limited to fire and explosion. The following information shall be developed into the plan:

229 Incorporate 2021 IFC Section 2200.7.

229 2203.7. Housekeeping. Accumulated combustible dust shall be collected by a suitable means to prevent the flow of dust from surfaces. Accumulated combustible dust shall be maintained in accordance with the following methods:

229 Incorporate 2021 IFC Section 2203.7.

1. Standpipes provided in accordance with the applicable building code shall be maintained.

2. A water supply

3. Fire safety construction features as required by the Building Official in accordance with the applicable building code.

229 Incorporate 2021 IFC Section 2203.7.

229 3904.2.1. Listings. Systems or equipment used for the extraction of oils from plant material shall be listed in accordance with the applicable building code and be operated and maintained in accordance with the listing and the manufacturer’s instructions.

229 Incorporate 2021 IFC Section 3904.2.1.

229 3904.2.2. Underground Storage Tanks. Systems or equipment used for the extraction of oils from plant material shall be maintained in accordance with the applicable building code.

229 Incorporate 2021 IFC Section 3904.2.2.

222 5704.2.13.1.1.1 Temporarily out of service. Underground tanks temporarily out of service shall have the fill line, gauge opening, vapor return, and pump connection secure against tampering. Vent lines shall remain open and be maintained in accordance with Section 3313.7.5.

222 Incorporate 2021 IFC Section 5704.2.13.1.1.1.

222 5704.2.13.1.1.2 Out of service for 90 days. Underground tanks not used for a period of 90 days shall be safeguarded in accordance with all the following or be removed in accordance with Section 9VAC25-580-310.2.2:

1. Flammable or combustible liquids shall be removed, and vent lines shall remain open.

2. All piping, including fill line, gauge opening, vapor return, and pump connection, shall be capped or plugged and secured from tampering.

222 Incorporate 2021 IFC Section 5704.2.13.1.1.2.

4 107.2. None

4 Add an operational permit to Table 107.2 to: combustion additive manufacturing operations regulated by Section 320.3.
| **4004.3** | IFC 4004.3 Basement storage.  
Class I liquids shall be allowed to be stored in basements in amounts not exceeding the maximum allowable quantity per control area for use-open systems in Table 5003.1.1(1), provided that automatic suppression and other fire protection are provided in accordance with Chapter 9. Class II and IIIA liquids shall also be allowed to be stored in basements, provided that automatic suppression and other fire protection are provided in accordance with Chapter 9. |
| **4005.1** | IFC 4005.1 Automatic sprinkler system.  
The storage of distilled spirits and amines shall be protected by an approved automatic sprinkler system as required by Chapter 9.  
Delete 4005.1 |
| **4004.3** | IFC 4004.3 Basement storage.  
Class I liquids shall be allowed to be stored in basements in amounts not exceeding the maximum allowable quantity per control area for use-open systems where approved in accordance with the applicable building code and automatic suppression or other fire protection systems are maintained in accordance with Chapter 9. Class II and IIIA liquids shall also be allowed to be stored in basements where approved in accordance with the applicable building code and automatic suppression or other fire protection systems are maintained in accordance with Chapter 9. |
| **Delete 4005.1** | Delete 2021 IFC Section 4005.1. |
901.4.3 Alterations in buildings and structures. For any alteration within a building or structure, the existing fire protection and life safety systems shall be maintained to continue protection while the building or structure is occupied. Persons shall not remove or modify any fire protection or life safety system without approval from the Building Official in accordance with the applicable building code.
Proposed 2021 SFPC Section 3107.13.2

**3107.13.2 Location of containers.** LP-gas containers and tanks shall be located outside in accordance with IFC Table 6104.3 **3107.13.2.** Pressure relief devices shall be pointed away from the tent or membrane structure.

<table>
<thead>
<tr>
<th>LP-GAS CONTAINER CAPACITY (water gallons)</th>
<th>MINIMUM SEPARATION BETWEEN LP-GAS CONTAINERS AND BUILDINGS, PUBLIC WAYS OR LOT LINES OF ADJOINING PROPERTY THAT CAN BE BUILT ON</th>
<th>MINIMUM SEPARATION BETWEEN LP-GAS CONTAINERS (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounded or underground LP-gas containers</td>
<td>Above-ground LP-gas containers</td>
<td></td>
</tr>
<tr>
<td>Less than 125&lt;sup&gt;a, d&lt;/sup&gt;</td>
<td>10</td>
<td>5&lt;sup&gt;f&lt;/sup&gt;</td>
</tr>
<tr>
<td>125 to 250</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>251 to 500</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>501 to 2,000</td>
<td>10</td>
<td>25&lt;sup&gt;e, f&lt;/sup&gt;</td>
</tr>
<tr>
<td>2,001 to 30,000</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>30,001 to 70,000</td>
<td>50</td>
<td>75</td>
</tr>
<tr>
<td>70,001 to 90,000</td>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td>90,001 to 120,000</td>
<td>50</td>
<td>125</td>
</tr>
</tbody>
</table>

For SI: 1 foot = 304.8 mm, 1 gallon = 3.785 L.

- **a.** Minimum distance for underground LP-gas containers shall be measured from the pressure relief device and the filling or liquid-level gauge vent connection at the container, except that all parts of an underground LP-gas container shall be not less than 10 feet from a building or lot line of adjoining property that can be built on.

- **b.** For other than installations in which the overhanging structure is 50 feet or more above the relief-valve discharge outlet. In applying the distance between buildings and ASME LP-gas containers with a water capacity of 125 gallons or more, not less than 50 percent of this horizontal distance shall also apply to all portions of the building that project more than 5 feet from the building wall and that are higher than the relief valve discharge outlet. This horizontal distance shall be measured from a point determined by projecting the outside edge of such overhanging structure vertically downward to grade or other level on which the LP-gas container is installed. Distances to the building wall shall be not less than those prescribed in this table.

- **c.** Where underground multicontainer installations are composed of individual LP-gas containers having a water capacity of 125 gallons or more, such containers shall be installed so as to provide access at their ends or sides to facilitate working with cranes or hoists.

- **d.** At a consumer site, if the aggregate water capacity of a multiple-container installation, comprised of individual LP-gas containers having a water capacity of less than 125 gallons, is 500 gallons or more, the minimum distance shall comply...
with the appropriate portion of this table, applying the aggregate capacity rather than the capacity per LP-gas container. If more than one such installation is made, each installation shall be separated from other installations by not less than 25 feet. Minimum distances between LP-gas containers need not be applied.

e. The following shall apply to above-ground containers installed alongside buildings:

1. LP-gas containers of less than a 125-gallon water capacity are allowed without a separation distance where in compliance with Items 2, 3 and 4.

2. Department of Transportation (DOTn) specification LP-gas containers shall be located and installed so that the discharge from the container pressure relief device is not less than 3 feet horizontally from building openings below the level of such discharge and shall not be beneath buildings unless the space is well ventilated to the outside and is not enclosed for more than 50 percent of its perimeter. The discharge from LP-gas container pressure relief devices shall be located not less than 5 feet from exterior sources of ignition, openings into direct vent (sealed combustion system) appliances or mechanical ventilation air intakes.

3. ASME LP-gas containers of less than a 125-gallon water capacity shall be located and installed such that the discharge from pressure relief devices shall not terminate in or beneath buildings and shall be located not less than 5 feet horizontally from building openings below the level of such discharge and not less than 5 feet from exterior sources of ignition, openings into direct vent (sealed combustion system) appliances, or mechanical ventilation air intakes.

4. The filling connection and the vent from liquid-level gauges on either DOTn or ASME LP-gas containers filled at the point of installation shall be not less than 10 feet from exterior sources of ignition, openings into direct vent (sealed combustion system) appliances or mechanical ventilation air intakes.

f. This distance is allowed to be reduced to not less than 10 feet for a single LP-gas container of 1,200-gallon water capacity or less, provided that such container is not less than 25 feet from other LP-gas containers of more than 125-gallon water capacity.

g. Above-ground LP-gas containers with a water capacity of 2,000 gallons or less shall be separated from public ways by a distance of not less than 5 feet. Containers with a water capacity greater than 2,000 gallons shall be separated from public ways in accordance with this table.

Explanation of change (from the text agreed upon on 02.16.2022): replaced reference to IFC Table 6104.3 with reference to newly created SFPC Table 3107.13.2 which is the same as IFC Table 6104.3 (copy/paste/changed table number).