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11-19-24

Ordinance No. 6641

**AN ORDINANCE TO AMEND CHAPTER 8.24 OF THE RAPID CITY MUNICIPAL CODE TO ADOPT THE 2024 INTERNATIONAL FIRE CODE**

WHEREAS, in Chapter 8.24 of the Rapid City Municipal Code (RCMC), the City of Rapid City has adopted the 2003 edition of the International Fire Code; and

WHEREAS, the City wishes to amend RCMC Chapter 8.24 to adopt the 2024 edition of the International Fire Code; and

WHEREAS, the City wishes to amend some of the provisions of the 2024 International Fire Code.

NOW THEREFORE, BE IT ORDAINED by the City of Rapid City, that Chapter 8.24 of the Rapid City Municipal Code is hereby amended to read in its entirety as follows:

**CHAPTER 8.24: INTERNATIONAL FIRE CODE ADOPTED**

Section

8.24.010 Adoption of 2024 International Fire Code.

8.24.020 IFC Preface – Amended.

8.24.030 IFC Chapter 1, Section 101.1 Title – Amended.

8.24.040 IFC Chapter 1, Section 101.2.1 Appendices – Amended.

8.24.050 IFC Chapter 1, Section 102.3 Change of use or occupancy – Amended.

8.24.060 IFC Chapter 1, Section 102.4 Application of building code – Amended.

8.24.070 IFC Chapter 1, Section 102.6 Historic buildings – Amended.

8.24.080 IFC Chapter 1, Section 102.7 Reference codes and standards – Amended.

8.24.090 IFC Chapter 1, Section 103.1 Creation of agency – Amended.

8.24.100 IFC Chapter 1, Section 105.1.1 Permits required – Amended.

8.24.110 IFC Chapter 1, Section 113.4 Violation penalties – Amended.

8.24.120 IFC Chapter 1, Section 115.1.3 Hoarding by occupants in multifamily dwelling – Added.

8.24.130 IFC Chapter 2, Section 202.1 More general definitions – Added.

8.24.140 IFC Chapter 3, Section 304.1.1 Valet trash – Amended.

8.24.150 IFC Chapter 3, Section 322 Powered micromobility devices – Amended.

8.24.160 IFC Chapter 5, Section 504.4 Interior attic access – Added.

8.24.170 IFC Chapter 5, Section 505.1 Address identification – Amended.

8.24.180 IFC Chapter 5, Section 505.3 Room numbering – Added.

8.24.190 IFC Chapter 5, Section 506.3 Multifamily residence master key system – Added.

8.24.200 IFC Chapter 5, Section 507.3 Fire flow – Amended.

8.24.210 IFC Chapter 5, Section 508.1 General – Amended.

8.24.220 IFC Chapter 5, Section 508.1.3 Size – Amended.

8.24.230 IFC Chapter 5, Section 510.1 Emergency responder communication coverage in new buildings – Amended.

- 8.24.240 IFC Chapter 6, Section 603.1.3 Electrical disconnects identification for mobile home parks – Added.
- 8.24.250 IFC Chapter 6, Section 604.1 General – Amended.
- 8.24.260 IFC Chapter 9, Section 901.2.1 Statement of compliance – Amended.
- 8.24.270 IFC Chapter 9, Section 901.4.4 Fire areas – Amended.
- 8.24.280 IFC Chapter 9, Section 901.4.6 Appearance and clearance of equipment – Amended.
- 8.24.290 IFC Chapter 9, Section 901.4.7.1 Access – Amended.
- 8.24.300 IFC Chapter 9, Section 901.4.7.3 Environment – Amended.
- 8.24.310 IFC Chapter 9, Section 901.6 Inspection, testing and maintenance – Amended.
- 8.24.320 IFC Chapter 9, Section 903.2 Where required – Amended.
- 8.24.330 IFC Chapter 9, Section 903.2.1.1 Group A-1 – Amended.
- 8.24.340 IFC Chapter 9, Section 903.2.1.2 Group A-2 – Amended.
- 8.24.350 IFC Chapter 9, Section 903.2.1.3 Group A-3 – Amended.
- 8.24.360 IFC Chapter 9, Section 903.2.1.4 Group A-4 – Amended.
- 8.24.370 IFC Chapter 9, Section 903.2.1.5.1 Spaces under grandstands or bleachers – Amended.
- 8.24.380 IFC Chapter 9, Section 903.2.2 Group B – Amended.
- 8.24.390 IFC Chapter 9, Section 903.2.2.1 Ambulatory care facilities – Amended.
- 8.24.400 IFC Chapter 9, Section 903.2.2.3 Animal housing and healthcare facilities – Added.
- 8.24.410 IFC Chapter 9, Section 903.2.3 Group E – Amended.
- 8.24.420 IFC Chapter 9, Section 903.2.4 Group F-1 – Amended.
- 8.24.430 IFC Chapter 9, Section 903.2.4.4 Group F-2 – Added.
- 8.24.440 IFC Chapter 9, Section 903.2.6 Group I – Amended.
- 8.24.450 IFC Chapter 9, Section 903.2.6.1 Cannabis facilities – Added.
- 8.24.460 IFC Chapter 9, Section 903.2.7 Group M – Amended.
- 8.24.470 IFC Chapter 9, Section 903.2.8.3 Care facilities – Amended.
- 8.24.480 IFC Chapter 9, Section 903.2.9 Group S-1 – Amended.
- 8.24.490 IFC Chapter 9, Section 903.2.9.1 Repair garages – Amended.
- 8.24.500 IFC Chapter 9, Section 903.2.10 Group S-2 parking garages – Amended.
- 8.24.510 IFC Chapter 9, Section 903.2.10.3 Group S-2 – Added.
- 8.24.520 IFC Chapter 9, Section 903.2.10.1 Commercial parking garages – Amended.
- 8.24.530 IFC Chapter 9, Section 903.2.11 Specific building areas and hazards – Amended.
- 8.24.540 IFC Chapter 9, Section 903.3.1.1 NFPA 13 sprinkler systems – Amended.
- 8.24.550 IFC Chapter 9, Section 903.3.1.1.2 NFPA 13R bathrooms – Amended.
- 8.24.560 IFC Chapter 9, Section 903.3.1.2.1 Balconies and decks – Amended.
- 8.24.570 IFC Chapter 9, Section 903.3.1.4 NFPA 13D garages, pools, gymnasiums and recreation rooms – Added.
- 8.24.580 IFC Chapter 9, Section 903.3.1.5 NFPA 13D bathrooms, laundry, and utility closets – Added.
- 8.24.590 IFC Chapter 9, Section 903.3.5.2 Residential combination services – Amended.
- 8.24.600 IFC Chapter 9, Section 907.2.11.3 Installation near cooking appliances – Amended.
- 8.24.610 IFC Chapter 9, Section 907.2.11.4 Installation near bathrooms – Amended.
- 8.24.620 IFC Chapter 9, Section 907.3.1 Duct smoke detectors – Amended.
- 8.24.630 IFC Chapter 9, Section 907.5.2.1.3.1 Fire alarm system audible signal – Amended.
- 8.24.640 IFC Chapter 9, Section 907.5.2.1.3.2 Smoke alarm signal in sleeping rooms – Amended.
- 8.24.650 IFC Chapter 9, Section 907.5.2.3.3 Group R-2 – Deleted.

- 8.24.660 IFC Chapter 9, Section 907.5.2.3.3.1 Wired equipment – Deleted.
- 8.24.670 IFC Chapter 9, Section 907.5.3 Notification system integration – Added
- 8.24.680 IFC Chapter 9, Section 907.8.2 Testing – Amended.
- 8.24.690 IFC Chapter 11, Section 1103.5 Sprinkler systems – Amended.
- 8.24.700 IFC Chapter 38, Section 3803.1.7 Automatic fire-extinguishing systems – Amended.
- 8.24.710 IFC Chapter 39, Section 3901.1 Scope – Amended.
- 8.24.720 IFC Chapter 39, Section 3905.1 Gas detection – Amended.
- 8.24.730 IFC Chapter 39, Section 3905.1.1 Operation – Amended.
- 8.24.740 IFC Chapter 56, Section 5601.1.3 Fireworks – Amended.
- 8.24.750 IFC Appendix D, Section D103.4 Dead ends – Amended.
- 8.24.760 IFC Appendix D, Section D106.2 Projects having more than 200 dwelling units – Amended.
- 8.24.770 IFC Appendix D, Section D107.1 One- or two-family dwelling residential developments – Amended.

#### **8.24.010 Adoption of 2024 International Fire Code.**

There is hereby adopted by the City of Rapid City, for the purpose of prescribing regulations governing conditions hazardous to life and property from fire, hazardous materials or explosion, that certain code known as the International Fire Code, 2024 Edition, including Appendix A, B, C, D, E, F, G, H, I, J, K, L, M, N and O thereof, save and except such portions as are hereafter deleted, modified, or amended by this chapter. A copy of the same is on file in the office of the Division of Fire and Life Safety Rapid City Fire Department.

#### **8.24.020 IFC Preface – Amended.**

Hereinafter the following substitutions shall be made when referenced throughout the *International Fire Code*. Any reference to the *National Electrical Code* shall be replaced with a reference to the current Electrical Code adopted by the City of Rapid City. Any reference to the *International Fuel Gas Code* shall be replaced with the Fuel Gas Code of the City of Rapid City. Any reference to the *International Mechanical Code* shall be replaced with the current Mechanical Code of the City of Rapid City. Any reference to the *International Plumbing Code* shall be replaced with the current Plumbing Code adopted by the City of Rapid City. Any reference to the *International Property Maintenance Code* shall be replaced with the International Property Maintenance Code of the City of Rapid City. Any reference to the *International Building Code* shall be replaced with the Building Code of the City of Rapid City. Any reference to the *International Residential Code* shall be replaced with the Residential Code of the City of Rapid City.

#### **8.24.030 IFC Chapter 1, Section 101.1 Title – Amended.**

IFC Chapter 1, Section 101.1 Title is hereby amended to read in its entirety as follows:

**101.1 Title.** These regulations shall be known as the Fire Code of the City of Rapid City, hereinafter may be referred to as this Code.

#### **8.24.040 IFC Chapter 1, Section 101.2.1 Appendices – Amended.**

IFC Chapter 1, Section 101.2.1 Appendices is hereby amended to read in its entirety as follows:

**101.2.1 Appendices.** Appendices A, B, C, D, E, F, G, H, I, J, K, L, M, N and O are adopted as part of this Code as follows:

1. Appendices A, B, C, D, E, F, H, I, and L are adopted as regulatory and enforceable parts of this Code; and
2. Appendices G, J, K, M, N, and O are adopted as reference guidelines.

#### **8.24.050 IFC Chapter 1, Section 102.3 Change of use or occupancy – Amended.**

IFC Chapter 1, Section 102.3 Change of use or occupancy is hereby amended to read in its entirety as follows:

**102.3 Change of use or occupancy.** A change of occupancy shall not be made unless the use or occupancy is made to comply with the requirements of this Code and the Building Code of the City of Rapid City.

#### **8.24.060 IFC Chapter 1, Section 102.4 Application of building code – Amended.**

IFC Chapter 1, Section 102.4 Application of building code is hereby amended to read in its entirety as follows:

**102.4 Application of building code.** The design and construction of structures shall comply with the Building Code of the City of Rapid City, and any alterations, additions, changes in use or changes in structures required by this Code, which are within the scope of the Building Code of the City of Rapid City, shall be made in accordance therewith.

#### **8.24.070 IFC Chapter 1, Section 102.6 Historic buildings – Amended.**

IFC Chapter 1, Section 102.6 Historic buildings is hereby amended to read in its entirety as follows:

**102.6 Historic buildings.** The construction, alteration, repair, enlargement, restoration, relocation or movement of existing buildings or structures that are designated as historic buildings when such buildings or structures do not constitute a distinct hazard to life or property, shall be in accordance with the provisions of the Building Code of the City of Rapid City. Historic buildings shall also comply with NFPA 909, Standard for the Protection of Cultural Resources, Including Museums, Libraries, Places of Worship, and Historic Properties, and NFPA 914, Code for Fire Protection of Historic Structures.

#### **8.24.080 IFC Chapter 1, Section 102.7 Reference codes and standards – Amended.**

IFC Chapter 1, Section 102.7 Reference codes and standards is hereby amended to read in its entirety as follows:

**102.7 Referenced codes and standards.** The codes and standards referenced in this Code shall be those that are listed in Chapter 80, and such codes and standards shall be considered to be part of the requirements of this Code to the prescribed extent of each such reference and as further regulated by Sections 102.7.1 and 102.7.2. The most current edition of all reference codes, standards, the City of Rapid City Infrastructure Design Criteria Manual, and the Rapid City Survivable Space Initiative shall be utilized for the listed references.

#### **8.24.090 IFC Chapter 1, Section 103.1 Creation of agency – Amended.**

IFC Chapter 1, Section 103.1 Creation of agency is hereby amended to read in its entirety as follows:

**103.1 Creation of agency.** The official in charge of the Rapid City Fire Department will be known as the fire code official. One of the functions of the Rapid City Fire Department will be the implementation, administration, and enforcement of the provisions of this Code.

#### **8.24.100 IFC Chapter 1, Section 105.1.1 Permits required – Amended.**

IFC Chapter 1, Section 105.1.1 Permits required is hereby amended to read in its entirety as follows:

**105.1.1 Permits required.** A property owner, or an owner's authorized agent, who intends to conduct an operation or business, or install or modify systems and equipment that are regulated by this Code, or to cause any such work to be performed, shall first make application to the fire code official and obtain the required permit. The list of required permits may be obtained from the Fire Department Division of Fire and Life Safety. Fees for permits shall be required as set by resolution of the Common Council.

#### **8.24.110 IFC Chapter 1, Section 113.4 Violation penalties – Amended.**

IFC Chapter 1, Section 113.4 Violation penalties is hereby amended to read in its entirety as follows:

**113.4 Violation penalties.** Any person who does any of the following is subject to the general penalty set out in § 1.12.010 of the Rapid City Municipal Code: violates a provision of this Code; fails to comply with any of the requirements this Code; or erects, installs, alters, repairs, or does work in violation of the approved construction documents or directive of the fire code official or of a permit or certificate used under the provisions of this Code.

#### **8.24.120 IFC Chapter 1, Section 115.1.3 Hoarding by occupants in multifamily dwelling – Added**

IFC Chapter 1, Section 115.1.3 Hoarding by occupants in multifamily dwellings is hereby added to read in its entirety as follows:

**115.1.3 Hoarding by occupants of multifamily dwellings.** It is unlawful for an occupant of a multifamily dwelling unit to store, or otherwise accumulate in or on the dwelling unit, objects or substances of a nature or in a quantity reasonably likely to create a hazard to the safety or health of an occupant of another dwelling unit on the same or a contiguous property, even if the objects or substances are not visible from a public place or a public right-of-way.

#### **8.24.130 IFC Chapter 2, Section 202.1 More general definitions – Added.**

IFC Chapter 2, Section 202.1 More general definitions is hereby added to read in its entirety as follows:

##### **202.1 More general definitions.**

**ELECTRIC MICROMOBILITY DEVICE.** Any small, low-speed, electric-powered transportation device, including electric-assist bicycles (e-bikes), electric scooters (e-scooters), and other small, lightweight, wheeled electric-powered conveyances.

**EXTRACTION.** The process of removing essential oils or other botanic material from a given plant material.

**HOARDING.** The practice of collecting or accumulating a variety of items.

**IROL INSPECTION REPORTS ONLINE.** A web-based compliance and review program utilized by the Rapid City Fire Department as Authority Having Jurisdiction (AHJ), Service Providers (SP), and Property Owners (PO) for submittal of Inspection, Testing, and Maintenance (ITM) and Fire and Life Safety Risk Assessment reports.

**POST OIL PROCESSING.** The process of refining essential oils after extraction from the plant material, including but not limited to, dewaxing and winterization processes.

**WASTE OIL.** Crankcase drainage or other lubricating fluids drained from motor vehicles or equipment. Waste oil may contain other fluids or foreign material contaminants in limited quantities such as water, coolant, motor fuels, dirt, and metal particulate. It does not include the products classified as Class I, II or IIIA liquids or corrosives, toxics or highly-toxic material. (See Section 2311.2.2)

#### **8.24.140 IFC Chapter 3, Section 304.1.1 Valet trash – Amended.**

IFC Chapter 3, Section 304.1.1 Valet trash is hereby amended to read in its entirety as follows:

**304.1.1 Valet trash.** Valet trash collection is prohibited in multifamily dwellings unless approved by the AHJ. The owner and valet trash collection service provider shall comply with the rules and limitations established by the AHJ.

#### **8.24.150 IFC Chapter 3, Section 322 Powered micromobility devices – Amended.**

IFC Chapter 3, Section 322 Powered micromobility devices is hereby amended to read in its entirety as follows:

### **SECTION 322—POWERED MICROMOBILITY DEVICES**

**322.1 General.** Lithium-ion and lithium metal battery-powered micromobility devices shall be operated and maintained in accordance with this section. Storage, repair, and charging in multifamily residential occupancies of powered mobility devices is prohibited unless it is in accordance with Section 322.4.

**Exception:**

1. Storage and charging of powered mobility devices in multifamily residential occupancies when the person has a mobility limitation that significantly impairs the ability to participate in one or more mobility-related activities of daily living.

**322.1.1 Prohibited locations.** The use of a residential occupancy as a business for the charging of commercially-owned powered micromobility devices as part of a rental or sales service is not allowed.

**322.2 Battery chargers and equipment.** Powered micromobility devices shall be charged in accordance with their listing and the manufacturer's instructions using only the original equipment manufacturer-supplied charging equipment or charging equipment in accordance with the listing and manufacturer's instructions.

**322.3 Listing.** Powered micromobility devices shall be listed and labeled in accordance with UL 2272 or UL 2849, as applicable.

**322.4 Battery charging areas.** Powered micromobility devices may be charged in a manner that complies with all of the following and in a room or area – other than a dwelling unit – that complies with all of the following:

1. Only listed devices utilizing listed charging equipment shall be permitted to be charged;
2. Is provided with sufficient electrical receptacles to allow the charging equipment for each device to be directly connected to a receptacle. Extension cords and relocatable power taps shall not be used;
3. The indoor room or area does not contain combustible materials, combustible waste or hazardous materials;
4. The charging operation shall not be conducted in or obstruct any required means of egress;
5. Removable storage batteries shall not be stacked or charged in an enclosed cabinet, unless the cabinet is specially designed and approved for such purpose;

6. A minimum distance of eighteen (18) inches (457.2 mm) shall be maintained between each removable storage battery during charging operations, unless each battery is isolated from neighboring batteries by an approved fire-resistant material;
7. A minimum of eighteen (18) inches (457.2 mm) shall be maintained between the location of the battery on each powered micromobility device during charging operations;
8. The indoor room or area shall be protected by a fire alarm system utilizing smoke detectors; and
9. The indoor room or area shall be protected by a fire sprinkler system.

**322.5 Fire safety plan.** A fire safety plan shall be provided in accordance with Section 403.10.6. In addition, the fire safety plan shall include emergency response actions to be taken upon detection of a fire or possible fire involving lithium-ion or lithium metal battery storage.

**8.24.160 IFC Chapter 5, Section 504.4 Interior attic access – Added.**

IFC Chapter 5, Section 504.4 Interior attic access is hereby added to read in its entirety as follows:

**504.4 Interior attic access.** Locations and number of accesses shall be determined by the AHJ. The opening must be at least twenty (20) inches by forty (40) inches. Clear headroom of not less than thirty (30) inches shall be provided in the attic space at or above the access opening.

**8.24.170 IFC Chapter 5, Section 505.1 Address identification – Amended.**

IFC Chapter 5, Section 505.1 Address identification is hereby amended to read in its entirety as follows:

**505.1 Address identification.** Approved numbers or addresses shall be provided for all buildings in such a position as to be plainly visible and legible from the street or road fronting property. The following method of displaying the address shall be used:

1. All addresses shall be numbers, no script; and
2. The number shall be posted on the structure in such a way so as to be visible at night, as well as daylight, using the following guidelines:
  - a. Numbers shall be contrasting color to the background they are attached to,
  - b. Numbers must be a minimum of five (5) inches in height, with the exception of internal illuminated numbers. Internal illuminated numbers must be a minimum of four (4) inches in height,
  - c. All commercial property numbers shall be a minimum of twelve (12) inches in height, unless otherwise approved by the fire department,
  - d. If the structure is not visible from the roadway because of terrain, trees or other obstruction, or if the structure is more than four-hundred (400) feet from the roadway, the address numbers shall be posted on a post at the entrance of the driveway to the structure. The numbers on the post shall be a minimum of four (4) inches in height and shall be visible from both sides of the approach to the entrance. The post with the numbers shall be a minimum of four (4) feet in height above the ground in a visible

- location within twenty (20) feet of the roadway. The post shall be located outside of the right-of-way, and
- e. Suite numbers shall be a minimum of (4) inches in height and placed above or on the front and rear entrance doors.

#### **8.24.180 IFC Chapter 5, Section 505.3 Room numbering – Added.**

IFC Chapter 5, Section 505.3 Room numbering is hereby added to read in its entirety as follows:

**505.3 Room numbering.** Building room numbers must be maintained according to the architectural room numbering. Existing architectural room numbers shall be maintained in unrenovated areas in order to maintain correspondence with fire alarm systems, electrical systems, and other control systems. Duplicating room numbers is prohibited. If the owner desires to add a supplemental naming or numbering system, the owner must obtain approval of the supplemental system from the AHJ and the architectural numbers must be installed on the corner of the door frame or within the door sign.

#### **8.24.190 IFC Chapter 5, Section 506.3 Multifamily residence master key system – Added.**

IFC Chapter 5, Section 506.3 Multifamily residence master key system is hereby added to read in its entirety as follows:

**506.3 Multifamily residence master key system.** Multifamily residences that have four or more dwelling units shall have a master key system that allows one (1) key to enter all residences and utility areas for fire department and ambulance access in the event of an emergency call. The key shall be placed in a Knox Box Key Safe on each building in a location approved by the AHJ.

#### **8.24.200 IFC Chapter 5, Section 507.3 Fire flow – Amended.**

IFC Chapter 5, Section 507.3 Fire flow is hereby amended to read in its entirety as follows:

**507.3 Fire flow.** Fire-flow requirements for buildings or portions of buildings and facilities shall be determined by an approved method pursuant to Appendix B. The Fire Department and Utility Provider shall have access to all public and private water mains and all public and private service lines. Such access will allow the Fire Department and Utility Provider to perform testing, inspections and repairs if either the Fire Department or Utility Provider determine that such testing, inspections, or repairs are needed to ensure proper fire-flow.

#### **8.24.210 IFC Chapter 5, Section 508.1 General – Amended.**

IFC Chapter 5, Section 508.1 General is hereby amended to read in its entirety as follows:

**508.1 General.** In the following instances, a fire command center for fire department operations shall be provided and shall comply with Sections 508.1.1 through 508.1.7: where required by other sections of this Code, in all buildings classified as high-rise buildings by the

International Building Code, and in all occupancies with a building footprint greater than five hundred thousand (500,000) square feet. The fire command center requirement or any portion thereof may be removed if the AHJ deems it unnecessary for firefighting activities.

**8.24.220 IFC Chapter 5, Section 508.1.3 Size – Amended.**

IFC Chapter 5, Section 508.1.3 Size is hereby amended to read in its entirety as follows:

**508.1.3 Size.** The fire command center shall be a minimum of ninety-six (96) square feet in area. The fire command center layout must be in accordance with plans approved by the AHJ.

**8.24.230 IFC Chapter 5, Section 510.1 Emergency responder communication coverage in new buildings – Amended.**

IFC Chapter 5, Section 510.1 Emergency responder communication coverage in new buildings is hereby amended to read in its entirety as follows:

**510.1 Emergency responder communication coverage in new buildings.** Approved in-building, two-way emergency responder communication coverage for emergency responders shall be provided in all new buildings. In-building, two-way emergency responder communication coverage within the building shall be based on the existing coverage levels of the public safety communication systems utilized by the jurisdiction, measured at the exterior of the building.

**Exceptions:**

1. Where approved by the building official and the fire code official, a wired communication system in accordance with Section 907.2.13.2 shall be permitted to be installed or maintained instead of an approved radio coverage system;
2. Where it is determined by the fire code official that the radio coverage system is not needed;
3. In facilities where emergency responder radio coverage is required and such systems, components, or equipment required could have a negative impact on the normal operations of that facility, the fire code official shall have the authority to accept an automatically activated emergency responder radio coverage system; and
4. Where it is determined by the fire code official that an alternative means of providing reliable two-way communications is compatible with the fire department's equipment.

**8.24.240 IFC Chapter 6, Section 603.1.3 Electrical disconnects identification for mobile home parks – Added.**

IFC Chapter 6, Section 603.1.3 Electrical disconnects identification for mobile home parks is hereby added to read in its entirety as follows:

**603.1.3 Electrical disconnects identification for mobile home parks.** Each electrical meter, electrical disconnect, fuse box, or breaker panel that provides service for a mobile home or manufactured home must be labeled individually based upon the lot or home number that it services.

#### **8.24.250 IFC Chapter 6, Section 604.1 General – Amended.**

IFC Chapter 6, Section 604.1 General is hereby amended to read in its entirety as follows:

**604.1 General.** Where elevators and conveying systems are installed, they shall comply with Chapter 30 of the International Building Code and Sections 604.2 through 604.7 of this Code. Any new elevator installed must have a car that accommodates an open ambulance stretcher that is twenty-four (24) inches by eighty-four (84) inches, with a radius corner of at least five (5) inches, and allows two (2) caregivers space to perform patient care. The layout must be in accordance with plans approved by the AHJ.

#### **8.24.260 IFC Chapter 9, Section 901.2.1 Statement of compliance – Amended.**

IFC Chapter 9, Section 901.2.1 Statement of compliance is hereby amended to read in its entirety as follows:

**901.2.1 Statement of compliance.** Before requesting final approval of the installation, where required by the fire code official, the installing contractor shall furnish a written statement to the fire code official that the subject fire protection or life safety system has been installed in accordance with approved engineered plans and has been applied and tested in accordance with the manufacturer's specifications and the appropriate installation standard. Any deviations from the design standards, including the sealed, signed, and dated engineered plans or shop drawings, shall be noted, and copies of the approvals for such deviations shall be attached to the written statement. Engineering concept and shop drawing development must be in conformance with South Dakota Administrative Rules (ARSD) Chapter 20:38:38.

#### **8.24.270 IFC Chapter 9, Section 901.4.4 Fire areas – Amended.**

IFC Chapter 9, Section 901.4.4 Fire areas is hereby amended to read in its entirety as follow:

**901.4.4 Fire areas.** Fire barriers, fire walls, and/or horizontal assemblies must have a fire-resistance rating of not less than the applicable rating found within the International Building Code when buildings, or portions thereof, are divided into fire areas by using: 1) fire barriers or fire walls constructed in accordance with the International Building Code, 2) horizontal assemblies constructed in accordance with the International Building Code, or 3) both. The use of these separations does not create an exemption from other required building features or elements that are applicable to the entirety of the building area, such as the means of egress, fire protection systems, or utilities. These separations serve the purpose of allowing a building's area and height to be increased pursuant to the International Building Code.

#### **8.24.280 IFC Chapter 9, Section 901.4.6 Appearance and clearance of equipment – Amended.**

IFC Chapter 9, Section 901.4.6 Appearance and clearance of equipment is hereby amended to read in its entirety as follows:

**901.4.6 Appearance and clearance of equipment.** Any device that has the physical appearance of life safety or fire protection equipment, but does not perform that life safety or fire protection function, shall be prohibited. Fire protection equipment shall not be obstructed, concealed or impaired. A minimum of three (3) feet (914.4mm) clear and unobstructed access shall be maintained on the sides of and in-front of fire protection systems and associated equipment. Specific equipment referenced is as follows but not limited to: fire extinguishers, fire sprinkler control valves, risers, hose stations, standpipes, and fire alarm control panels.

**8.24.290 IFC Chapter 9, Section 901.4.7.1 Access – Amended.**

IFC Chapter 9, Section 901.4.7.1 Access is hereby amended to read in its entirety as follows:

**901.4.7.1 Access.** Automatic sprinkler system risers, fire pumps and controllers shall be provided with ready access. Where located in a fire pump room or automatic sprinkler system riser room, the door shall be permitted to be locked provided that the key is available at all times. The riser room shall not be located in dwelling units or crawl spaces unless approved by the AHJ.

**8.24.300 IFC Chapter 9, Section 901.4.7.3 Environment – Amended.**

IFC Chapter 9, Section 901.7.3 Environment is hereby amended to read in its entirety as follows:

**901.4.7.3 Environment.** Automatic sprinkler system riser rooms and fire pump rooms shall be maintained at a temperature of not less than 40°F (4°C). Heating units shall be permanently installed. A room temperature sensor shall be installed in any automatic sprinkler system riser room or fire pump room prone to freezing. The sensor shall be connected to the fire alarm system. When the room temperature is less than 40°F (4°C), the alarm must activate a supervisory signal. The system shall initiate a “freeze warning supervisory signal” that shall be transmitted to the monitoring station separately from other supervisory signals.

**8.24.310 IFC Chapter 9, Section 901.6 Inspection, testing and maintenance – Amended.**

IFC Chapter 9, Section 901.6 Inspection, testing and maintenance is hereby amended to read in its entirety as follows:

**901.6 Inspection, testing and maintenance.** Fire protection and life safety systems, including required and nonrequired systems, shall be maintained in an operative condition at all times and shall be replaced or repaired where defective.

**8.24.320 IFC Chapter 9, Section 903.2 Where required – Amended.**

IFC Chapter 9, Section 903.2 Where required is hereby amended to read in its entirety as follows:

**903.2 Where required.** Approved automatic sprinkler systems in buildings and structures shall be provided in the locations described in Sections 903.2.1 through 903.2.12.

**8.24.330 IFC Chapter 9, Section 903.2.1.1 Group A-1 – Amended.**

IFC Chapter 9, Section 903.2.1.1 Group A-1 is hereby amended to read in its entirety as follows:

**903.2.1.1 Group A-1.** An automatic sprinkler system shall be provided throughout stories containing Group A-1 occupancies and throughout all stories from the Group A-1 occupancy to and including the levels of exit discharge serving that occupancy where one of the following conditions exists:

1. The fire area exceeds eight thousand (8,000) square feet;
2. The fire area has an occupant load of three hundred (300) or more;
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies; or
4. The fire area contains a multiple-theater complex.

**8.24.340 IFC Chapter 9, Section 903.2.1.2 Group A-2 – Amended.**

IFC Chapter 9, Section 903.2.1.2 Group A-2 is hereby amended to read in its entirety as follows:

**903.2.1.2 Group A-2.** An automatic sprinkler system shall be provided throughout stories containing Group A-2 occupancies and throughout all stories from the Group A-2 occupancy to and including the levels of exit discharge serving that occupancy where one of the following conditions exists:

1. The fire area exceeds three thousand (3,000) square feet;
2. The fire area has an occupant load of one hundred (100) or more; or
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.

**8.24.350 IFC Chapter 9, Section 903.2.1.3 Group A-3 – Amended.**

IFC Chapter 9, Section 903.2.1.3 Group A-3 is hereby amended to read in its entirety as follows:

**903.2.1.3 Group A-3.** An automatic sprinkler system shall be provided throughout stories containing Group A-3 occupancies and throughout all stories from the Group A-3 occupancy to and including the levels of exit discharge serving that occupancy where one of the following conditions exists:

1. The fire area exceeds eight thousand (8,000) square feet;
2. The fire area has an occupant load of three hundred (300) or more; or
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.

#### **8.24.360 IFC Chapter 9, Section 903.2.1.4 Group A-4 – Amended.**

IFC Chapter 9, Section 903.2.1.4 Group A-4 is hereby amended to read in its entirety as follows:

**903.2.1.4 Group A-4.** An automatic sprinkler system shall be provided throughout stories containing Group A-4 occupancies and throughout all stories from the Group A-4 occupancy to and including the levels of exit discharge serving that occupancy where one of the following conditions exists:

1. The fire area exceeds eight thousand (8,000) square feet;
2. The fire area has an occupant load of three hundred (300) or more; or
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.

#### **8.24.370 IFC Chapter 9, Section 903.2.1.5.1 Spaces under grandstands or bleachers – Amended.**

IFC Chapter 9, Section 903.2.1.5.1 Spaces under grandstands or bleachers is hereby amended to read in its entirety as follows:

**903.2.1.5.1 Spaces under grandstands or bleachers.** Enclosed spaces under grandstands or bleachers shall be equipped with an automatic sprinkler system in accordance with Section 903.3.1.1 where one of the following conditions exists:

1. The enclosed area is not constructed in accordance with Section 1030.1.1.1;
2. The enclosed area is built of combustibile materials; or
3. Combustible materials are used, located and stored under the grandstand or bleachers.

#### **8.24.380 IFC Chapter 9, Section 903.2.2 Group B – Amended.**

IFC Chapter 9, Section 903.2.2 Group B is hereby amended to read in its entirety as follows:

**903.2.2 Group B.** An automatic sprinkler system shall be installed throughout buildings containing a Group B occupancy where one of the following conditions exists:

1. Where a Group B fire area exceeds eight thousand (8,000) square feet;
2. Where a Group B occupancy is located more than three (3) stories above grade; or
3. Where the combined area of all Group B fire areas on all floors, including any mezzanines, exceeds eight thousand (8,000) square feet.

#### **8.24.390 IFC Chapter 9, Section 903.2.2.1 Ambulatory care facilities – Amended.**

IFC Chapter 9, Section 903.2.2.1 Ambulatory care facilities is hereby amended to read in its entirety as follows:

**903.2.2.1 Ambulatory care facilities.** An automatic sprinkler system shall be installed throughout any building containing an ambulatory care facility where there are one or more care recipients that are incapable of self-preservation.

**8.24.400 IFC Chapter 9, Section 903.2.2.3 Animal housing and healthcare facilities – Added.**

IFC Chapter 9, Section 903.2.2.3 Animal housing and healthcare facilities is hereby added to read in its entirety as follows:

**903.2.2.3 Animal housing and healthcare facilities.** If any building or portion thereof is used as a kennel as defined in Rapid City Municipal Code Title 6, a pet store as defined in Rapid City Municipal Code Title 6, or a veterinary clinic, fire sprinklers must be installed in the entire building.

**8.24.410 IFC Chapter 9, Section 903.2.3 Group E – Amended.**

IFC Chapter 9, Section 903.2.3 Group E is hereby amended to read in its entirety as follows:

**903.2.3 Group E.** An automatic sprinkler system shall be provided for Group E occupancies.

**8.24.420 IFC Chapter 9, Section 903.2.4 Group F-1 – Amended.**

IFC Chapter 9, Section 903.2.4 Group F-1 is hereby amended to read in its entirety as follows:

**903.2.4 Group F-1.** An automatic sprinkler system shall be provided throughout all buildings containing a Group F-1 occupancy where one of the following conditions exists:

1. A Group F-1 fire area exceeds eight thousand (8,000) square feet;
2. A Group F-1 fire area is located more than three (3) stories above grade plane;
3. A Group F-1 occupancy is used to manufacture lithium-ion or lithium metal batteries; or
4. A Group F-1 occupancy is used to manufacture vehicles, energy storage systems or equipment containing lithium-ion or lithium metal batteries where the batteries are installed as part of the manufacturing process.

**8.24.430 IFC Chapter 9, Section 903.2.4.4 Group F-2 – Added.**

IFC Chapter 9, Section 903.2.4.4 is hereby added to read in its entirety as follows:

**903.2.4.4 Group F-2.** An automatic sprinkler system shall be provided throughout all buildings containing a Group F-2 occupancy where one of the following conditions exists:

1. A Group F-2 fire area exceeds eight thousand (8,000) square feet; or
2. A Group F-2 fire area is located more than three (3) stories above grade plane.

**8.24.440 IFC Chapter 9, Section 903.2.6 Group I – Amended.**

IFC Chapter 9, Section 903.2.6 Group I is hereby amended to read in its entirety as follows:

**903.2.6 Group I.** In a building that contains a Group I fire area, an automatic sprinkler system shall be provided in accordance with NFPA 13.

**Exception:**

1. In a building that contains only a Group I-1, Condition 1 fire area, if the automatic sprinkler system is installed in accordance with NFPA 13R, then the automatic sprinkler system does not have to be installed in accordance with NFPA 13.

**8.24.450 IFC Chapter 9, Section 903.2.6.1 Cannabis facilities – Added.**

IFC Chapter 9, Section 903.2.6.1 Cannabis facilities is hereby added to read in its entirety as follows:

**903.2.6.1 Cannabis facilities.** An automatic sprinkler system shall be provided in all areas associated with indoor facilities for cultivating cannabis, manufacturing cannabis, testing cannabis, and dispensing cannabis. The system shall be installed and designed in accordance with NFPA 13, unless the local AHJ approves an alternative protection system.

**8.24.460 IFC Chapter 9, Section 903.2.7 Group M – Amended.**

IFC Chapter 9, Section 903.2.7 Group M is hereby amended to read in its entirety as follows:

**903.2.7 Group M.** An automatic sprinkler system shall be provided throughout buildings containing a Group M occupancy where one of the following conditions exists:

1. The combined area of all Group M fire areas on all floors, including any mezzanines, exceeds eight thousand (8,000) square feet; or
2. A Group M fire area is located more than three (3) stories above grade plane.

**8.24.470 IFC Chapter 9, Section 903.2.8.3 Care facilities – Amended.**

IFC Chapter 9, Section 903.2.8.3 Care facilities is hereby amended to read in its entirety as follows:

**903.2.8.3 Care facilities.** An automatic sprinkler system installed in accordance with Section 903.3.1.3 shall be permitted in care facilities that collect payment from a non-family member. If a care facility is located in a single-family dwelling, the dwelling shall have a NFPA 13D sprinkler system installed.

**8.24.480 IFC Chapter 9, Section 903.2.9 Group S-1 – Amended.**

IFC Chapter 9, Section 903.2.9 Group S-1 is hereby amended to read in its entirety as follows:

**903.2.9 Group S-1.** An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1 occupancy if one or more of the following conditions exists:

1. The combined area of all Group S-1 fire areas on all floors, including any mezzanines, exceeds eight thousand (8,000) square feet;
2. A Group S-1 fire area is located more than three (3) stories above grade plane; or
3. A Group S-1 fire area is used for the storage of lithium-ion or lithium metal powered vehicles where the fire area exceeds five hundred (500) square feet (46.4 m<sup>2</sup>).

#### **8.24.490 IFC Chapter 9, Section 903.2.9.1 Repair garages – Amended.**

IFC Chapter 9, Section 903.2.9.1 Repair garages is hereby amended to read in its entirety as follows:

**903.2.9.1 Repair garages.** An automatic sprinkler system shall be provided throughout all buildings used as repair garages in accordance with Section 406.8 of the International Building Code where any of the following conditions exists:

1. Where there is a building that has two (2) or more stories above grade plane (including a basement) and the building has a fire area containing a repair garage exceeding eight thousand (8,000) square feet;
2. Where there is a building that is not more than one (1) story above grade plane and the building has a fire area containing a repair garage exceeding eight thousand (8,000) square feet;
3. Where there is a building with a repair garage servicing vehicles parked in basements;
4. Where there is a Group S-1 fire area used for the repair of commercial motor vehicles where the fire area exceeds five thousand (5,000) square feet; or
5. Where there is a Group S-1 fire area used for the storage of lithium-ion or lithium metal powered vehicles where the fire area exceeds five hundred (500) square feet (46.4 m<sup>2</sup>).

#### **8.24.500 IFC Chapter 9, Section 903.2.10 Group S-2 parking garages – Amended.**

IFC Chapter 9, Section 903.2.10 Group S-2 parking garages is hereby amended to read in its entirety as follows:

**903.2.10 Group S-2 parking garages.** An automatic sprinkler system shall be provided throughout buildings classified as parking garages where any of the following conditions exists:

1. Where the fire area of the enclosed parking garage, in accordance with Section 406.6 of the International Building Code, exceeds eight thousand (8,000) square feet;
2. Where the enclosed parking garage, in accordance with Section 406.6 of the International Building Code, is located beneath other groups;
3. Where the fire area of the open parking garage, in accordance with Section 406.5 of the International Building Code, exceeds eight thousand (8,000) square feet (4460 m<sup>2</sup>); or
4. Where a parking garage provides parking and/or charging stations for electric vehicles, the sprinkler system for the parking garage must be installed in accordance with NFPA 88A and NFPA 13 and maintained in accordance with this Code.

#### **8.24.510 IFC Chapter 9, Section 903.2.10.3 Group S-2 – Added.**

IFC Chapter 9, Section 903.2.10.3 Group S-2 is hereby added to read in its entirety as follows:

**903.2.10.3 Group S-2.** An automatic sprinkler system shall be provided throughout all buildings containing a Group S-2 occupancy where one of the following conditions exists:

1. A Group S-2 fire area exceeds eight thousand (8,000) square feet; or
2. A Group S-2 fire area is located more than three (3) stories above grade plane.

#### **8.24.520 IFC Chapter 9, Section 903.2.10.1 Commercial parking garages – Amended.**

IFC Chapter 9, Section 903.2.10.1 Commercial parking garages is hereby amended to read in its entirety as follows:

**903.2.10.1 Commercial parking garages.** An automatic sprinkler system shall be provided throughout buildings used for storage of commercial motor vehicles where the fire area exceeds five thousand (5,000) square feet. Where a parking garage provides parking and/or charging stations for electric vehicles, the sprinkler system for the parking garage must be installed in accordance with NFPA 88A and NFPA 13 and maintained in accordance with this Code.

#### **8.24.530 IFC Chapter 9, Section 903.2.11 Specific building areas and hazards – Amended.**

IFC Chapter 9, Section 903.2.11 Specific building areas and hazards is hereby amended to read in its entirety as follows:

**903.2.11 Specific building areas and hazards.** In all occupancies other than Group U, an automatic sprinkler system shall be installed for building design or hazards in the locations set forth in Sections 903.2.11.1 through 903.2.11.6. An automatic fire sprinkler shall be installed in all airplane hangars.

#### **8.24.540 IFC Chapter 9, Section 903.3.1.1 NFPA 13 sprinkler systems – Amended.**

IFC Chapter 9, Section 903.3.1.1 NFPA 13 sprinkler systems is hereby amended to read in its entirety as follows:

**903.3.1.1 NFPA 13 sprinkler systems.** Where the provisions of this Code require that a building or portion thereof be equipped throughout with an automatic sprinkler system in accordance with this section, sprinklers shall be installed throughout in accordance with NFPA 13 except as provided in Sections 903.3.1.1.1 through 903.3.1.1.3. When a dry pipe fire sprinkler system is required to be installed in an area ten thousand (10,000) square feet or larger, the system shall have a nitrogen generator or AHJ-approved corrosion prevention system installed.

#### **8.24.550 IFC Chapter 9, Section 903.3.1.1.2 NFPA 13R bathrooms – Amended.**

IFC Chapter 9, Section 903.3.1.1.2 NFPA 13R bathrooms is hereby amended to read in its entirety as follows:

**903.3.1.1.2 NFPA 13R bathrooms, laundry rooms and utility closets.** Sprinkler protection shall be installed for all bathrooms, laundry rooms, and utility closets located within each dwelling unit.

#### **8.24.560 IFC Chapter 9, Section 903.3.1.2.1 Balconies and decks – Amended.**

IFC Chapter 9, Section 903.3.1.2.1 Balconies and decks hereby amended to read in its entirety as follows:

**903.3.1.2.1 Balconies and decks.** Sprinkler protection shall be provided for exterior balconies, decks and ground floor patios of dwelling units and sleeping units where either of the following conditions exists:

1. The building is of Type V construction, provided that there is a roof or deck above; or
2. Exterior balconies, decks and ground floor patios of dwelling units and sleeping units are of any type of construction.

Sidewall sprinklers that are used to protect such areas shall be permitted to be located such that their deflectors are within one (1) inch (25 mm) to six (6) inches (152 mm) below the structural members and within a maximum distance of fourteen (14) inches (356 mm) below the decks of the exterior balconies and decks of any type of construction. Balconies and decks near building soffits when soffits are sixteen (16) inches or more require a dry sprinkle head.

**8.24.570 IFC Chapter 9, Section 903.3.1.4 NFPA 13D garages, pools, gymnasiums and recreation rooms – Added.**

IFC Chapter 9, Section 903.3.1.4 NFPA 13D garages, pools, gymnasiums and recreation rooms is hereby added to read in its entirety as follows:

**903.3.1.4 NFPA 13D garages, pools, gymnasiums and recreation rooms.** Garages, pools, gymnasiums and recreation rooms shall have sprinkler protection when a living area is located above. If no living area is located above, sidewall sprinkler heads should be installed on the separation wall between the living area and the garage, pool, gymnasium, or recreation room.

**8.24.580 IFC Chapter 9, Section 903.3.1.5 NFPA 13D bathrooms, laundry, and utility closets – Added.**

IFC Chapter 9, Section 903.3.1.5 NFPA 13D Bathrooms, laundry, and utility closets is hereby added to read in its entirety as follows:

**903.3.1.5 NFPA 13D bathrooms, laundry, and utility closets.** Sprinkler protection shall be provided for all bathrooms, laundry and utility closets located within each dwelling unit.

**8.24.590 IFC Chapter 9, Section 903.3.5.2 Residential combination services – Amended.**

IFC Chapter 9, Section 903.3.5.2 Residential combination services is hereby amended to read in its entirety as follows:

**903.3.5.2 Residential combination services.** A single combination water supply shall be allowed provided that the domestic demand is added to the sprinkler demand as required by NFPA 13D sprinkler systems. From the water main connection to the residence, the combination water service line must be either a two (2) inch Type K copper or a two (2) inch IPS HDPE,

unless a different type of line is approved by the AHJ. The fire sprinkler riser water connection shall not be metered.

**8.24.600 IFC Chapter 9, Section 907.2.11.3 Installation near cooking appliances – Amended.**

IFC Chapter 9, Section 907.2.11.3 Installation near cooking appliances is hereby amended to read in its entirety as follows:

**907.2.11.3 Installation near cooking appliances.** Smoke alarms or smoke detectors must be installed at least ten (10) feet (3048 mm) horizontally away from a permanently-installed cooking appliance. Additionally, the smoke alarms or smoke detectors must be placed as far as possible from the cooking appliance, as the room layout allows.

**8.24.610 IFC Chapter 9, Section 907.2.11.4 Installation near bathrooms – Amended.**

IFC Chapter 9, Section 907.2.11.3 Installation near bathrooms is hereby amended to read in its entirety as follows:

**907.2.11.4 Installation near bathrooms.** Smoke alarms or smoke detectors must be installed at least five (5) feet (914 mm) horizontally away from the door or opening of a bathroom that contains a bathtub or shower unless this would prevent placement of a smoke alarm required by Section 907.2.11.1 or 907.2.11.2. If false detections become an issue with the placement of the device, the AHJ can require that the bathroom fan is wired to activate when the bathroom light switch is turned on.

**8.24.620 IFC Chapter 9, Section 907.3.1 Duct smoke detectors – Amended.**

IFC Chapter 9, Section 907.3.1 Duct smoke detectors is hereby amended to read in its entirety as follows:

**907.3.1 Duct smoke detectors.** Smoke detectors installed in ducts shall be UL listed for the air velocity, temperature and humidity present in the duct. Unless the system ductwork configuration will not allow for such, upstream and downstream duct diameter sizing must be as recommended by the manufacturer. Duct smoke detection shall be installed where required by this Code, the current Mechanical Code of the City of Rapid City, or NFPA 90 for air handling equipment shutdown or damper closure. Duct-type smoke detectors shall not be used as a substitute for required open area detection. When installed within a facility equipped with a fire alarm panel, duct-type detectors are to be monitored by the fire alarm panel and reported as a “duct-type smoke detection supervisory signal,” which shall be transmitted to the monitoring station separately from other supervisory signals. The monitoring station shall be programmed to not call for a fire personnel response on duct-type supervisory signals. When installed within a facility that is not required to have a fire alarm panel, but where duct detection is required for ventilation unit shutdown or damper closure, activation of the duct-type smoke detector shall activate a visible signal at the equipment or in a remote location and shall be identified as air duct detector activation.

**Exceptions:**

1. Duct detection shall not be required when area smoke detection or monitored fire sprinkler protection is provided within the areas served by the ventilation unit or the fire smoke damper; and
2. In detention institutions, mental institutions, or similar vandal-prone facilities, high-velocity detection devices within ducts may be a substitute for duct-type detection when approved by the AHJ as a substitute for area detection.

**8.24.630 IFC Chapter 9, Section 907.5.2.1.3.1 Fire alarm system audible signal – Amended.**

IFC Chapter 9, Section 907.5.2.1.3.1 Fire alarm system audible signal is hereby amended to read in its entirety as follows:

**907.5.2.1.3.1 Fire alarm system audible signal.** In Group R-1, R-2 and I-1 occupancies, in the dwelling unit the audible alarm signal activated by a fire alarm system shall be a low-frequency appliance.

**8.24.640 IFC Chapter 9, Section 907.5.2.1.3.2 Smoke alarm signal in sleeping rooms – Amended.**

IFC Chapter 9, Section 907.5.2.1.3.2 Smoke Alarm signal in sleeping rooms is hereby amended to read in its entirety as follows:

**907.5.2.1.3.2. Smoke alarm signal in sleeping rooms.** In sleeping rooms of Group R-1, R-2 and I-1 occupancies that are required by Section 907.2.8 or 907.2.9 to have a fire alarm system, the audible alarm signal activated by single or multi-station smoke alarms in the dwelling unit or sleeping unit shall be a low-frequency signal if available from a manufacturer.

**Exception:**

1. For existing system upgrades or a building retrofit, the AHJ shall approve device location.

**8.24.650 IFC Chapter 9, Section 907.5.2.3.3 Group R-2 – Deleted.**

IFC Chapter 9, Section 907.5.2.3.3 Group R-2 is hereby deleted in its entirety as follows:

~~—907.5.2.3.3 Group R-2. In Group R-2 occupancies required by Section 907 to have a fire alarm system, each story that contains dwelling units and sleeping units shall be provided with the capability to support future visible alarm notification appliances in accordance with Chapter 11 of ICC A117.1. Such capability shall accommodate wired or wireless equipment.~~

**8.24.660 IFC Chapter 9, Section 907.5.2.3.3.1 Wired equipment – Deleted.**

IFC Chapter 9, Section 907.5.2.3.3.1 Wired equipment is hereby deleted in its entirety as follows:

~~—907.5.2.3.3.1 Wired equipment.~~ Where wired equipment is used to comply with the future capability required by Section 907.5.2.3.3, the system shall include one of the following capabilities:

- ~~1. The replacement of audible appliances with combination audible/visible appliances or additional visible notification appliances;~~
- ~~2. The future extension of the existing wiring from the unit smoke alarm locations to required locations for visible appliances; or~~
- ~~3. For wired equipment, the fire alarm power supply and circuits shall have not less than five (5) percent excess capacity to accommodate the future addition of visible alarm notification appliances, and a single access point to such circuits shall be available on every story. Such circuits shall not be required to be extended beyond a single access point on a story. The fire alarm system shop drawings required by Section 907.1.2 shall include the power supply and circuit documentation to accommodate the future addition of visible notification appliances.~~

#### **8.24.670 IFC Chapter 9, Section 907.5.3 Notification system integration – Added**

IFC Chapter 9, Section 907.5.3 Notification system integration is hereby added in its entirety as follows:

**907.5.3 Notification system integration.** Where a fire alarm system voice evacuation is implemented, as applicable, the following shall be required:

1. In multi-zone systems where voice-evacuation is utilized, systems and equipment (such as door hold opens) shall be implemented and coordinated to maintain fire alarm voice-evacuation zone intelligibility within each zone;
2. In multi-zone systems where voice-evacuation is activated by fire suppression flow activation, the suppression zone monitoring shall match the boundaries of the voice-evacuation zone;
3. Detection devices shall be programmed so both audio and visual notification matches the boundaries of the voice-evacuation zone; and
4. If there is a non-fire alarm audio system, that system's audio zone shall not cross the fire alarm's voice-evacuation zone boundaries.

#### **8.24.680 IFC Chapter 9, Section 907.8.2 Testing – Amended.**

IFC Chapter 9, Section 907.8.2 Testing is hereby amended to read in its entirety as follows:

**907.8.2 Testing.** Testing shall be performed in accordance with the schedules in NFPA 72 or more frequently where required by the fire code official. Records of testing shall be maintained. Once a service provider has inspected, tested or repaired a fire alarm system, the service provider shall place the herein described sticker on the outside of the main fire panel. The sticker shall contain the inspector's company name, the company's phone number, the date of the inspection and the printed, legible name of the inspector.

**Exception:**

1. Devices or equipment that are inaccessible because of safety considerations shall be tested during scheduled shutdowns where approved by the fire code official, but not less than every eighteen (18) months.

#### **8.24.690 IFC Chapter 11, Section 1103.5 Sprinkler systems – Amended.**

IFC Chapter 11, Section 1103.5 Sprinkler systems is hereby amended to read in its entirety as follows:

**1103.5 Sprinkler systems.** When a building is renovated, an automatic sprinkler system shall be provided in existing buildings in accordance with Chapter 9.

#### **8.24.700 IFC Chapter 38, Section 3803.1.7 Automatic fire-extinguishing systems – Amended.**

IFC Chapter 38, Section 3803.1.7 Automatic fire-extinguishing systems is hereby amended to read in its entirety as follows:

**3803.1.7 Automatic fire-extinguishing systems.** New laboratories in new or existing buildings that use hazardous materials based on the requirements in this chapter shall be equipped throughout with an approved automatic sprinkler system in accordance with Chapter 9.

#### **8.24.710 IFC Chapter 39, Section 3901.1 Scope – Amended.**

IFC Chapter 39, Section 3901.1 Scope is hereby amended to read in its entirety as follows:

**3901.1 Scope.** Plant grow, processing or extraction facilities shall comply with this chapter and the International Building Code. The extraction process includes the act of extraction of the oils and fats by use of a solvent, desolventizing of the raw material, production of the miscella, distillation of the solvent from the miscella and solvent recovery. The use, storage, transfilling and handling of hazardous materials in these facilities shall comply with this chapter, other applicable provisions of this Code and the International Building Code.

#### **8.24.720 IFC Chapter 39, Section 3905.1 Gas detection – Amended.**

IFC Chapter 39, Section 3905.1 Gas detection is hereby amended to read in its entirety as follows:

**3905.1 Gas detection.** For extraction processes utilizing flammable gases as solvents, a gas detection system complying with Section 916 shall be provided. For extraction processes utilizing carbon dioxide, a gas detection system complying with Section 5307 shall be provided.

#### **8.24.730 IFC Chapter 39, Section 3905.1.1 Operation – Amended.**

IFC Chapter 39, Section 3905.1.1 Operation is hereby amended to read in its entirety as follows:

**3905.1.1 Operation.** Activation of the gas detection system shall result in all the following:

1. Initiation of distinct audible and visual alarm signals in the extraction room;
2. Deactivation of all heating systems located in the extraction room;
3. Activation of the mechanical ventilation system, where the system is interlocked with gas detection;
4. De-energize all light switches and electrical outlets; and
5. A carbon dioxide detection alarm system must activate a mechanical ventilation system.

**8.24.740 IFC Chapter 56, Section 5601.1.3 Fireworks – Amended.**

IFC Chapter 56, Section 5601.1.3 Fireworks is hereby amended to read in its entirety as follows:

**5601.1.3 Fireworks.** The possession, manufacture, storage, sale, handling and use of fireworks are prohibited.

**Exceptions:**

1. Storage and handling of fireworks as allowed in Section 5604;
2. Manufacture, assembly and testing of fireworks as allowed in Section 5605;
3. The use of fireworks for fireworks displays as allowed in Section 5608;
4. The possession, storage, sale, handling and use of specific types of Division 1.4G fireworks where allowed by applicable laws, ordinances and regulations, provided that such fireworks and facilities comply with the most current edition of NFPA 1124, CPSC 16 CFR Parts 1500 and 1507, and DOTn 49 CFR Parts 100–185, as applicable for consumer fireworks; and
5. The sale or use of certain novelty fireworks within the City are permitted, and are limited to the following:
  - a. Party Poppers (not to exceed 0.25 grain),
  - b. Snappers (not to exceed 0.02 grain),
  - c. Sparklers (not to exceed 3.5 oz),
  - d. Toy caps (not to exceed 0.25),
  - e. Flitter sparklers (not to exceed 0.2 oz), and
  - f. Other fireworks that are considered novelty by the ATF.

**8.24.750 IFC Appendix D, Section D103.4 Dead ends – Amended.**

IFC Appendix D, Section D103.4 Dead ends is hereby amended to read in its entirety as follows:

**D103.4 Dead ends.** Dead-end fire apparatus access roads in excess of one hundred and fifty (150) feet (45,720 mm) in length for non-fire sprinklered structures and three hundred (300) feet (91,440 mm) in length for fully fire sprinklered structures shall be provided with width and turnaround provisions in accordance with Table D103.4.

**8.24.760 IFC Appendix D, Section D106.2 Projects having more than 200 dwelling units – Amended.**

IFC Appendix D, Section D106.2 Projects having more than 200 dwelling units is hereby amended to read in its entirety as follow:

**D106.2 Projects having more than 200 dwelling units.** Multiple-family residential projects having more than two hundred (200) dwelling units shall be provided with two (2) separate and approved fire apparatus access roads unless an alternative design is approved by the fire code official. The fire code official will determine the minimum travel width required to ensure fire apparatus access.

**8.24.770 IFC Appendix D, Section D107.1 One- or two-family dwelling residential developments – Amended**

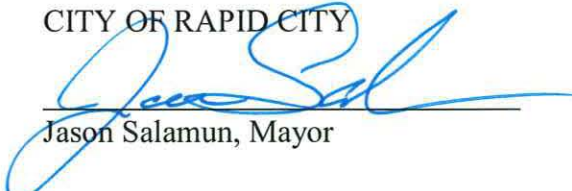
IFC Appendix D, Section D107.1 One- or two-family dwelling residential developments is hereby amended to read in its entirety as follows:

**D107.1 One- or two-family dwelling residential developments.** Developments of one- or two-family dwellings where the number of dwelling units exceeds forty (40) shall be provided with two (2) separate and approved fire apparatus access roads.

**Exceptions:**

1. Access by means of two (2) separate and approved fire apparatus access roads is not required where there are more than forty (40) dwelling units accessed from a single public or private fire apparatus access road and all dwelling units are equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3; and
2. The number of dwelling units accessed from a single fire apparatus access road shall not be increased unless approved by the City Council.

CITY OF RAPID CITY

  
Jason Salamun, Mayor

ATTEST:



Daniel Ainslie, Finance Director

(SEAL)

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