



CITY OF COLORADO SPRINGS

**DATE:** May 11, 2011  
**TO:** Legal Staff  
**FROM:** City Attorney's Office  
**SUBJECT:** Update to Code

The following ordinance passed on second presentation April 26, 2011, and became effective May 5, 2011. The ordinance is attached in its entirety:

11-41 AN ORDINANCE REPEALING AND REORDAINING PART 1 (FIRE PREVENTION CODE) OF ARTICLE 4 (FIRE PREVENTION) OF CHAPTER 8 (PUBLIC SAFETY) OF THE CODE OF THE CITY OF COLORADO SPRINGS 2001, AS AMENDED, ADOPTING THE 2009 EDITION OF THE INTERNATIONAL FIRE CODE WITH AMENDMENTS

  
Kandi Anthony  
Acting Legal Administrator

ORDINANCE NO. 11- 41

AN ORDINANCE REPEALING AND REORDAINING PART 1 (FIRE PREVENTION CODE) OF ARTICLE 4 (FIRE PREVENTION) OF CHAPTER 8 (PUBLIC SAFETY) OF THE CODE OF THE CITY OF COLORADO SPRINGS 2001, AS AMENDED, ADOPTING THE 2009 EDITION OF THE INTERNATIONAL FIRE CODE WITH AMENDMENTS

WHEREAS, the City Council is committed to providing for the protection of the public health and safety; regulating the storage, use and handling of dangerous and hazardous materials, substances and devices; the operation, installation, construction, location, safeguarding and maintenance of adequate means of egress not provided for by other codes in the City of Colorado Springs, Colorado, and

WHEREAS, the Division of the Fire Prevention has been established providing officers therefore for the purpose of providing for the prevention and control of fires; the purpose of providing an *International Fire Code* describing regulations governing conditions hazardous to life and property from fire or explosion; and their powers and duties defined and providing for an *International Fire Code, International Fire Code Appendices*; adopting by reference the 2009 Edition of the *International Fire Code, International Fire Code* appendices, as amended; repealing all ordinances in conflict thereof.

NOW BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF COLORADO SPRINGS:

Section 1. That Part 1 (Fire Prevention Code) of Article 4 (Fire Prevention) of Chapter 8 (Public Safety) of the Code of the City of Colorado Springs 2001, as amended, is repealed and reordained to read as follows:

**8.4.101: SHORT TITLE:** This part may be known and cited as the **Fire Prevention Code and Standards.**

**8.4.102: ADOPTION BY REFERENCE: ADOPTION OF THE FIRE CODE, PREFACE AND APPENDICES AND FIRE CODE STANDARDS TO THE 2009 EDITION OF THE INTERNATIONAL FIRE CODE AND INTERNATIONAL FIRE CODE STANDARDS:** Pursuant to Part 2 of Article 16 of Title 31, Colorado Revised Statutes and pursuant to the Charter of the City there is hereby adopted by reference the *International Fire Code*, 2009 Edition of the International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL, 60478-5795, 2009 Edition, including all Appendices A, B, C, D, E, F, G, and added H and I as set forth therein. These appendices are deemed included as a part of any reference to the *International Fire Code* or this Chapter. One copy of the

2009 *International Fire Code*, and one copy of all Amendments to these codes, are on file in the Office of the City Clerk, and may be inspected during regular business hours. The above code is adopted as if set out at length, subject to modifications, additions or deletions as set forth in Section 8.4.105 of this part.

#### **8.4.103: APPLICATION AND INTERPRETATION OF PROVISIONS:**

A. Application: The *International Fire Code* and the *International Fire Code* Standards hereby adopted shall apply to every building, structure or asset, either within or outside the corporate limits of the City, the use of which the City has jurisdiction and authority to regulate.

B. Interpretation: This part shall be so interpreted and construed as to effectuate its general purpose to make uniform the local fire regulations contained herein. Article and section headings of this part and of the adopted *International Fire Code* shall not be deemed to govern, limit, modify, or in any manner affect the scope, meaning or extent of the provisions of any article or section thereof.

#### **8.4.104: Definitions:**

A. Wherever the word "jurisdiction" is used in the *International Fire Code*, it shall be held to mean the City of Colorado Springs.

B. Wherever the term "corporation counsel" is used in the *International Fire Code*, it shall be held to mean the City Attorney/Chief Legal Officer.

C. Wherever the term "Department of Fire Prevention" is used in the *International Fire Code*, it shall be held to mean Division of the Fire Marshal.

#### **8.4.105: AMENDMENTS TO THE INTERNATIONAL FIRE CODE:**

The *International Fire Code* and Appendices herein adopted, are adopted subject to the following modifications, additions or deletions as set forth:

**Section 102.7.** Amend Section 102.7 to read as follows: "**102.7. Referenced codes and standards.** The codes and standards referenced in this code shall be those that are listed in Chapter 47 and such codes and standards shall be considered part of the requirements of this code 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."

**Section 103.1.** Delete Section 103.1 and replace with the following: "**103.1. General.** The Department of Fire Prevention, also known as the Division of the Fire Marshal, established within the Fire Department under the direction of the chief shall consist of Fire Department personnel assigned thereto by the chief. The function of office shall be to assist the Fire Code Official in the administration and enforcement of the provisions of this code and the Code of the City of Colorado Springs 8.2.203."

**Section 103.2.1** Add a new Section 103.2.1 to read as follows: **"103.2.1 Fire Marshal.** There is hereby created the position of fire marshal, who shall be appointed by the fire chief and shall be responsible for fire prevention, hazard assessment and mitigation, investigations, community education and any other duties assigned by the chief. When this code requires or authorizes the fire marshal to act, the act may be taken by the fire marshal's authorized employees, assistants or designees." Wherever the term "fire code official" is used in the *International Fire Code*, it shall be held to mean the fire marshal. Wherever the term CSFD is used in these amendments, it shall be held to mean the Colorado Springs Fire Department. See Code of the City of Colorado Springs, Section 8.2.203."

**Section 103.4.** Delete Section 103.4 and replace with the following: **"103.4. Liability.** See Code of the City of Colorado Springs, Sections 1.4.301 & 1.4.302."

**Section 103.4.1.** Delete Section 103.4.1 and replace with the following: **"103.4.1. Legal defense.** See Code of the City of Colorado Springs, Sections 1.4.301 & 1.4.302."

**Section 104.10.** Amend Section 104.10 to read as follows: **"104.10. Fire investigations.** The fire code official, the fire department or other responsible authority shall have the authority to investigate the cause, origin and circumstances of any fire, explosion or other hazardous condition."

**Section 104.10.1.** Delete Section 104.10.1 and replace with the following: **"104.10.1. The Division of the Fire Marshal personnel and police.** The fire code official and members of the Division of the Fire Marshal shall have the power of a police officer in performing their duties under this code. When requested to do so by the fire code official, the chief of police is authorized to assign such available police officers necessary to assist the fire department in enforcing the provisions of this code."

**Section 104.11.** Delete Section 104.11 and replace with the following: **"104.11. Authority at fires and other emergencies.** See Code of the City of Colorado Springs, Chapter 8, Article 2, Part 3."

**Section 104.11.1.** Delete Section 104.11.1 and replace with the following: **"104.11.1. Barricades.** See Code of the City of Colorado Springs, Chapter 8, Article 2, Part 3."

**Section 104.11.2.** Delete Section 104.11.2 and replace with the following: **"104.11.2. Obstructing operations.** See Code of the City of Colorado Springs, Chapter 8, Article 2, Part 3."

**Section 105.4.5.** Amend Section 105.4.5 by adding a sentence at the end, to read as follows: **"105.4.5. Corrected documents.** Where field conditions necessitate any substantial change from the approved construction documents, the fire code official shall have the authority to require the corrected construction documents to be submitted

for approval. Fees may be assessed for time spent on the review of corrected documents in accordance with Section 113. Fees shall be assessed as set forth from time to time by City Council resolution.”

**Section 105.6.16 (2).** Amend Section 105.6.16. Flammable and combustible liquids., Item 2, to read as follows: “2. To store, handle or use Class I liquids in excess of 25 gallons (95 L) in a building or in excess of 60 gallons (227 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 or a motor vehicle, aircraft, motorboat, mobile power plant or mobile heating plant, unless such storage, in the opinion of the code 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.”

**Section 105.6.16 (3).** Amend Section 105.6.16. Flammable and combustible liquids., Item 3, to read as follows: “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.

**Exception:** For fuel oil used in connection with oil-burning equipment or a liquid fuel supply used to operate a generator which has an integral tank.”

**Table 105.6.20.** Amend Table 105.6.20. **Permit Amounts for Hazardous Materials.**, by adding Electrolytes (see Section 105.7.2), as follows:

**TABLE 105.6.20  
PERMIT AMOUNTS FOR HAZARDOUS MATERIALS**

TYPE OF MATERIAL AMOUNT	AMOUNT
Combustible liquids	See Section 105.6.16
Corrosive materials	
Gases	See Section 105.6.8
Liquids	55 gallons
Solids	1000 pounds
Electrolytes	50 gallons
Explosive materials	See Section 105.6.14
Flammable materials	
Gases	See Section 105.6.8
Liquids	See Section 105.6.16
Solids	100 pounds
Highly toxic materials	
Gases	See Section 105.6.8
Liquids	Any Amount
Solids	Any Amount
Oxidizing materials	
Gases	See Section 105.6.8
Liquids	
Class 4	Any Amount
Class 3	1 gallon <sup>a</sup>
Class 2	10 gallons
Class 1	55 gallons
Solids	
Class 4	Any Amount
Class 3	10 pounds <sup>b</sup>
Class 2	100 pounds
Class 1	500 pounds
Organic peroxides	
Liquids	
Class I	Any Amount

Class II Class III Class IV Class V	Any Amount 1 gallon 2 gallons No Permit Required
Solids Class I Class II Class III Class IV Class V	Any Amount Any Amount 10 pounds 20 pounds No Permit Required
Pyrophoric materials Gases Liquids Solids	Any Amount Any Amount Any Amount
Toxic materials Gases Liquids Solids	See Section 105.6.8 10 gallons 100 pounds
Unstable (reactive) materials Liquids Class 4 Class 3 Class 2 Class 1 Solids Class 4 Class 3 Class 2 Class 1	Any Amount Any Amount 5 gallons 10 gallons Any Amount Any Amount 50 pounds 100 pounds
Water-reactive materials Liquids Class 3 Class 2 Class 1 Solids Class 3 Class 2 Class 1	Any Amount 5 gallons 55 gallons Any Amount 50 pounds 500 pounds
Other Health Hazards Liquids Solids Gases	55 gallons 500 pounds 650 cubic feet

For SI: 1 gallon = 3.785 L, 1 pound = 0.454 kg.

- a. 20 gallons when Table 2703.1.1(1) Note k applies and hazard identification signs in accordance with Section 2703.5 are provided for quantities of 20 gallons or less.
- b. 200 pounds when Table 2703.1.1(1) Note k applies and hazard identification signs in accordance with Section 2703.5 are provided for quantities of 200 pounds or less.

**Section 105.6.43.** Amend Section 105.6.43 to read as follows: **“105.6.43. Temporary membrane structures, tents and canopies.** An operational permit is required to operate individual or multiple air-supported temporary membrane structures, canopies or tents having individual or contiguous areas in excess of 2400 square feet.”

**Section 105.6.47.** Add a new Section 105.6.47 to read as follows: **“105.6.47. Other health hazards.** An operational permit is required to store, dispense, handle or use other health hazard materials in quantities in excess of 55 gallons of liquid, 500 pounds of a solid or 650 cubic feet of compressed gas.”

**Section 105.6.48.** Add a new Section 105.6.49 to read as follows: **“105.6.48. Prescribed burning.** An operational permit is required for all planned ignition of prescription burns.”

**Section 105.6.49.** Add a new Section 105.6.48 to read as follows: **“105.6.49. Other permits not otherwise listed.** An operational permit may be required for hazardous

activities or operations not otherwise specifically listed in code that the fire code official determines creates a substantial risk or hazard.”

**Section 105.7.14.** Amend Section 105.7.14 to read as follows: “**105.7.14. Temporary membrane structures, tents and canopies.** A construction permit is required to erect individual or multiple air-supported temporary membrane structures, canopies or tents having individual or contiguous areas in excess of 2400 square feet.”

**Section 105.7.15.** Add a new Section 105.7.15 to read as follows: “**105.7.15. Alternative Fire Lanes.** A construction permit is required for the installation of a fire lane constructed of any material other than concrete, asphalt or gravel.”

**Section 105.7.16.** Add a new Section 105.7.16 to read as follows: “**105.7.16. High-piled storage.** A construction permit is required for new high pile storage areas exceeding 500 square feet.”

**Section 105.7.17.** Add a new Section 105.7.17 to read as follows: “**105.7.17. Work at risk.** A construction permit is required for any contractor to begin installation or modification of a fire suppression or detection system, fire code regulated and permitted item, process or appurtenance without approved plans or a construction permit.

Where a construction permit is required and upon the request of a permit applicant, the fire code official is authorized to issue a work at risk permit to begin work on prior to the issuance of a construction permit. The work at risk permit will allow the applicant to begin installation or modification of fire suppression or detection systems without city approved plans or a construction permit. The holder of the permit shall be authorized to proceed at their own risk with the installation or modification of the system, but shall not entitle them to any required inspections of the system until construction drawings are approved and the construction permit is posted on site. Any work performed on the system will be done at the risk of the installing contractor. Any required changes or modifications based upon plan review or inspection activities will be the responsibility of the contractor, and shall be made prior to approval of the system and Certificate of Occupancy. A work at risk permit fee shall be assessed as set forth from time to time by City Council resolution.”

**Section 105.7.18.** Add a new Section 105.7.18 to read as follows: “**105.7.18. Other permits not otherwise listed.** A construction permit may be required for activities, installations, or operations not otherwise specifically listed in code that the fire code official determines creates a substantial risk or hazard.”

**Section 107.2.1.** Amend Section 107.2.1 to read as follows: “**107.2.1. Test and inspection reports.** Required test and inspection records shall be available for inspection by the fire code official at all times, or such records as the fire code official designates shall be filed with the fire code official.”

**Section 108.1.** Amend Section 108.1 to read as follows: “**108.1. Board of appeals established.** See Code of the City of Colorado Springs, Chapter 8, Article 3.”

**Section 108.2.** Amend Section 108.2 to read as follows: “**108.2 Limitations on authority.** See Code of the City of Colorado Springs, Chapter 8, Article 3.”

**Section 108.3.** Amend Section 108.3 to read as follows: “**108.3. Qualifications.** See Code of the City of Colorado Springs, Chapter 8, Article 3.”

**Section 109.2.1.** Amend Section 109.2.1 to read as follows: “**109.2.1. Service.** A notice of violation issued pursuant to this code shall be served upon the owner, operator, occupant, or other person responsible for the condition or violation, either by personal service, certified mail or by delivering the same to, and leaving it with, some person of responsibility upon the premises. The fire code official is authorized to affix a condemnation tag prohibiting the use, occupancy, or function thereof, until such repairs or alterations are made. For unattended or abandoned locations, a copy of such notice of violation shall be posted on the premises in a conspicuous place at or near the entrance to such premises and the notice of violation shall be mailed by certified mail with return receipt requested or a certificate of mailing, to the last known address of the owner, occupant or both.”

**Section 109.3.** Amend Section 109.3 to read as follows: “**109.3. Violation penalties.** See Code of the City of Colorado Springs, General Penalties, 1.1.201.”

**Section 111.4.** Amend Section 111.4 to read as follows: “**111.4. Failure to comply.** Persons operating or maintaining an occupancy, premises or vehicle subject to this code who allow a hazard to exist or fail to take immediate action to abate a hazard on such occupancy, premises or vehicle when ordered or notified to do so by the chief shall be punished in accord with the general penalty of the Code of the City of Colorado Springs, 1.1.201.”

**Section 111.5.** Add a new Section 111.5 to read as follows: “**111.5. Penalties.** It is unlawful for any person to violate any of the provisions of this part including any provisions of the *International Fire Code*, *International Fire Code Appendices*, and *International Fire Code Amendments*, as adopted. Any person convicted of a violation of any provision set forth in this part shall be punished in accord with the general penalty of the Code of the City of Colorado Springs, as amended 1.1.201.”

**Section 113.6.** Add a new Section 113.6 to read as follows: “**113.6. Reinspection fees.** A reinspection fee as set forth from time to time by City Council resolution may be assessed for each inspection or reinspection when any portion of work for which inspection is called is not complete or when required corrections have not been completed. This subsection is not to be interpreted as requiring reinspection fees upon initial rejection of work for failure to comply with the requirements of this code, but as controlling the practice of calling for inspections before work is ready for the inspection

or reinspections, or if hazards are not abated in the required timeframe. The reinspection fees may be assessed:

1. When the permit is not properly posted and/or the approved plans are not available on the work site; or
2. For failure to provide access on the date for which inspection is requested; or
3. For failure to maintain all work in an exposed condition until inspected and approved for installation; or
4. For deviating from plans requiring the approval of the fire chief; or
5. For lack of sufficient documentation, equipment or personnel needed to complete the inspection; or
6. The work that an inspection has been called for has not been pretested or is not ready for inspection.
7. When identified violations or hazards are not corrected or abated within the specified timeframe”

**Section 113.7.** Add a new section 113.7 to read as follows: “**113.7. Subsequent review fees.** When additional reviews of construction drawings are required, either caused by field changes or revisions, or when multiple reviews are needed in order to approve construction drawings, a subsequent review fee may be assessed as set forth from time to time by City Council resolution.”

**Section 305.5.** Add a new Section 305.5 to read as follows: “**305.5. Sparks from chimneys.** Chimneys used with fireplaces or heating appliances in which solid or liquid fuel is used shall be maintained with a spark arrester as required for incinerators by the International Mechanical Code.”

**Exception:** Spark arresters are not required when:

1. Chimneys which are located more than 200 feet (60,960 mm) from any mountainous, brush-covered, forest-covered land or land covered with combustible material
2. The roof of the structure has a minimum of a Class C non-combustible roof covering, as set forth in the International Building Code.”

**Section 307.1.2.** Add a new Section 307.1.2 to read as follows: “**307.1.2. Burn restrictions and burn bans.** The fire code official is authorized to issue a burn restriction or burn ban as deemed necessary when local conditions make recreational fires, open burning, other open flame or similar activities hazardous or objectionable. Persons failing to comply with issued burn restrictions or burn bans shall be punished in accordance with the general penalty of the Code of the City of Colorado Springs, Section 1.1.201.”

**Section 307.2.** Amend Section 307.2 to read as follows: “**307.2. Permit required.** A permit shall be obtained from the fire code official in accordance with Section 105.6.48 prior to kindling a fire for recognized silvicultural or range or wildlife management practices, prevention, or control of disease or pests, or a bonfire or a prescribed burn for

fuels management or wildfire risk reduction. 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.”

**Section 307.2.2.** Add a new Section 307.2.2 to read as follows: “**307.2.2. Prescribed burn plan required.** The applicant must attach a Prescribed Burn Plan to the application for a CSFD Open Burning Permit when requested by the fire code official. Prescribed Burn Plans shall be included for any understory burns, broadcast burns, multiple pile burns or slash burns conducted within city limits or on any area determined as a city asset. Prescribed Burn Plans will consist of a reviewer/approval signature from the fire code official, goals and objectives, complexity analysis, notification list, map of area, project description, latitude/longitude, prescription, weather and fuels parameters, smoke management plan, resource assignments, safety plan, medical plan, communications plan, ignition plan, holding plan and GO/NO-GO Checklist.”

**Section 308.1.4.** Amend Section 308.1.4 by deleting exception # 3

**Section 308.1.4.1.** Add a new Section 308.1.4.1 to read as follows: “**308.1.4.1. Liquefied-petroleum-gas-fueled cooking devices.** LP-gas burners having an LP-gas container with a water capacity greater than 20 pounds [nominal 1 pound (0.454 kg) LP-gas capacity] shall not be located on combustible balconies or within 10 feet (3048 mm) of combustible construction. Spare LP-gas cylinders shall not be stored on combustible balconies or within structures.

**Exception:** One- and two-family dwellings.”

**Section 308.1.4.2.** Add a new Section 308.1.4.2 to read as follows: “**308.1.4.2. Valves.** All valves shall be turned off when propane cylinders are not in use.”

**Section 308.1.4.3.** Add a new Section 308.1.4.3 to read as follows: “**308.1.4.3. Egress from buildings.** Barbecues shall never be used or stored in or near stairwells, hallways or other areas that are intended to be used for safe egress of people.”

**Section 311.5.2.** Delete Section 311.5.2 and replace with the following: “**311.5.2. Placard size and color.** Placard shall be designed and printed as specified and approved by the fire code official.”

**Section 401.1.** Amend Section 401.1 by deleting the exception.

**Section 402.1.** Add to Section 402.1 a new definition for “Special Needs Occupant” to read as follows: “**SPECIAL NEEDS OCCUPANT.** A patron, employee, student, resident or tenant (to be used respectively for each occupancy classification: A, B, E, I, R) that has unique or unusual need regarding their mobility capacity. These special needs can include, but are not limited to, the physically disabled, hearing impaired, visually impaired or mentally impaired.”

**Section 404.2.** Amend Section 404.2 to read as follows: "**404.2. Where required.** Fire safety and evacuation plans shall be prepared and maintained for the following occupancies and buildings. Other occupancies not listed below may require a plan when deemed appropriate by the *fire code official*.

1. Group A, other than Group A occupancies used exclusively for purposes of religious worship that have an occupant load less than 2,000.
2. Group B buildings having an occupant load of 500 or more persons or more than 100 persons above or below the lowest level of exit discharge.
3. Group E.
4. Group F buildings having an occupant load of 500 or more persons or more than 100 persons above or below the lowest level of exit discharge.
5. Group H.
6. Group I.
7. Group R-2 college and university buildings.
8. Group R-4.
9. High-rise buildings.
10. Covered malls exceeding 50,000 square feet (4645 m<sup>2</sup>) in aggregate floor area."

**Section 404.3.2.** Amend Section 404.3.2. **Fire safety plans.** by changing point number 4, (4.9) to read as follows:

4. Floor plans identifying the locations of the following:
  - 4.1. Exits.
  - 4.2. Primary evacuation routes.
  - 4.3. Secondary evacuation routes.
  - 4.4. Accessible egress routes.
  - 4.5. Areas of refuge.
  - 4.6. Exterior areas for assisted rescue.
  - 4.7. Manual fire alarm boxes.

- 4.8. Portable fire extinguishers.
- 4.9. Hose valve/standpipe stations.
- 4.10. Fire alarm annunciators and controls.

**Section 404.3.3.1.** Amend Section 404.3.3.1 to read as follows: **“404.3.3.1. Lockdown plan contents.** Lockdown plans may be approved by the fire code official and shall include the following:

1. Initiation. The plan shall include instructions for reporting an emergency that requires a lockdown.
2. Accountability. The plan shall include accountability procedures for staff to report the presence or absence of occupants.
3. Recall. The plan shall include a prearranged signal for returning to normal activity.
4. Communication and coordination. The plan shall include a means of two-way communication between a central location and each secured area.”

**Section 404.5.** Delete Section 404.5 and replace with the following: **“404.5. Availability.** Fire safety and evacuation plans shall be available in the workplace at the front office/desk or near the fire alarm control panel. These plans shall be available for reference and review by the employees, and copies shall be furnished to the Fire Marshal for review upon request. In all B, E and R occupancies, these plans shall denote the specific location of employee work stations, student classrooms or tenant apartments with occupants that may need assistance with evacuation. The plans are to be kept in a notebook and/or in protective coverings.”

**Section 405.1.** Amend Section 405.1 to read as follows: **“405.1. General.** Emergency evacuation drills complying with the provisions of this section shall be conducted at least annually in the occupancies listed in 404.2, Table 405.2, or when required by the fire code official.”

**Table 405.2.** Delete Table 405.2 and replace with the following:

**TABLE 405.2  
FIRE AND EVACUATION DRILL FREQUENCY AND PARTICIPATION**

GROUP OR OCCUPANCY	FREQUENCY	PARTICIPATION
Group A	Quarterly	Employees
Group B	Annually	All Occupants
Group E	Monthly <sup>a</sup>	All Occupants
Group F	Semi-annually on each shift	Employees
Group H	Semi-annually on each shift	Employees
Group I	Quarterly on each shift	Employees <sup>b</sup>
Group R4	Quarterly on each shift	Employees <sup>b</sup>

Group S	Semi-annually on each shift	Employees
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- a. The frequency shall be allowed to be modified in accordance with Section 408.3.2.
- b. Fire and evacuation drills in residential care assisted living facilities shall include complete evacuation of the premises in accordance with Section 408.10.5. Where occupants receive habilitation or rehabilitation training, fire prevention and fire safety practices shall be included as part of the training program.

**Section 407.2** Amend Section 407.2 to read as follows: **“407.2 Material safety data sheets.** Material Safety Data Sheets (MSDS) for all hazardous materials shall be either readily available on the premises as a paper copy, or where approved, shall be permitted to be readily retrievable by electronic access. Approved electronic access shall be as follows:

1. Media shall be USB Flash Drive.
2. Format shall be Microsoft Word 2000 or newer document, PDF, or other approved format.

Where a Knox Box is located at a facility, one USB device shall be stored in the Knox Box and one device shall be located in an approved location(s). All devices and content shall be maintained.”

**Section 408.3.4.** Amend Section 408.3.4 to read as follows: **“408.3.4. Assembly points.** Outdoor assembly areas shall be accessible by all occupants to include special needs students and staff. Outdoor assembly points shall be designated and shall be located at a safe distance from the building being evacuated so as to avoid interference with fire department operations. The assembly areas shall be arranged to keep each class separate to provide accountability of all individuals.”

**Section 408.5.2.** Amend Section 408.5.2 to read as follows: **“408.5.2. Staff training.** Employees shall be periodically instructed and kept informed of their duties and responsibilities under the plan. Employees are to be specifically trained in the emergency procedures for any special needs occupants. All such instruction shall be reviewed by staff at least every two months and upon arrival of a resident with special needs. A copy of the plan shall be readily available at all times within the facility.”

**Section 408.12.** Add a new Section 408.12 to read as follows: **408.12. High-rise building maintenance records.** A high-rise building maintenance record may be required by the fire code official to be established and kept current.”

**Section 503.1.** Amend Section 503.1 to read as follows: **“503.1. Where required.** Fire apparatus access roads shall be provided and maintained in accordance with Section 503.1.1 through 503.1.3 and Appendix D.”

**Section 503.2.** Amend Section 503.2 to read as follows: **“503.2. Specifications.** Fire apparatus access roads shall be installed and arranged in accordance with Sections 503.2.1 through 503.2.8 and Appendix D.”

**Section 503.2.5.** Amend Section 503.2.5 to read as follows: **"503.2.5. Dead ends.** Dead end fire apparatus access roads in excess of 200 feet (61 m) in length shall be provided with an approved area for turning around fire apparatus."

**Section 505.1.** Amend Section 505.1 to read as follows: **"505.1. Address identification.** New and existing buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. These numbers shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall be a minimum of five (5) inches (127 mm) high with a minimum stroke width of one half (0.5) inch (12.7 mm). Where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole or other means of signage shall be used to identify the structure."

**Section 505.1.1.** Add a new section 505.1.1 to read as follows: **"505.1.1 Suite numbers.** Any area occupied by tenants of a mall or shopping center, the main entrance to which is from the inside of the mall or shopping center, or any area used for other than single-unit or multi-unit residential occupancy that abuts a public courtyard or other public space shall be identified by numbers that are a minimum of four (4) inches in height with no less than one half (1/2) inch stroke so as to be plainly visible and legible from a distance of at least fifty (50) feet from the main entrance to the area."

**Section 505.1.2.** Add a new Section 505.1.2 to read as follows: **"505.1.2. Addressing of rear doors.** The rear door entrance of access doors of all malls, strip centers, commercial center buildings and other areas with multi-tenant spaces shall be identified with the appropriate address number and business name. The address numbers and/or letters shall be at least three (3) inches (76.2 mm) in height and no less than three eighths (3/8) inch (9.5 mm) stroke. The Colorado Springs Fire Department may require the installation of address numbers/letters on other locations to prevent confusion in the event of an emergency."

**Section 507.5.1.** Delete Section 507.5.1 in its entirety.

**Section 901.3.1.** Add a new Section 901.3.1 to read as follows: **"901.3.1. Relocations and additions to fire sprinkler and fire alarm systems in existing facilities.** Any additions or remodeling to existing commercial sprinkler systems that involve 20 sprinkler heads or less, or fire alarm systems that involve 5 devices or less, will not require a permit through the Division of the Fire Marshal, when approved by the fire code official."

**Section 901.3.1.1.** Add a new Section 901.3.1.1 to read as follows: **"901.3.1.1. Review letters.**

1. Any additions or remodeling to existing commercial fire protection systems that involve 20 sprinkler heads or less, or 5 or less fire alarm devices will not require a permit through the Division of the Fire Marshal, when approved by the fire code

official. However, the letter is considered as an administrative permit and must be posted on site in lieu of the permit.

2. Any additions or remodeling to existing commercial fire protection systems that involve 20 sprinkler heads or less, or 5 or less fire alarm devices, will require a letter from a city licensed fire protection contractor to be addressed and delivered to the Colorado Springs Division of the Fire Marshal a minimum of 24 hours before the work is to begin. This letter shall be on the sprinkler contractor's letterhead and include the following information:
  - 2-1. All work performed will be completed by the licensed contractor indicated on the letterhead or as declared in the letter if other than the submitting contractor.
  - 2-2. The hydraulic or electrical supply to the system in this area will be sufficient and that no overloading exists.
  - 2-3. The system will be installed in accord with all applicable local and national standards (i.e. International Building Code, NFPA 13, or NFPA 72).
  - 2-4. The scope of the work being conducted including the building name and address as well as interior area location.
  - 2-5. The number of heads/devices being affected.
  - 2-6. A time schedule for the work being performed, giving start and completion dates.
  - 2-7. The Colorado Springs Fire Department plan check number assigned to the project's construction plan OR
  - 2-8. If a number does not exist, a statement such as "A Colorado Springs Fire Department plan check number was not assigned to this project"
  - 2-9. At the time work is completed a certificate of compliance shall be filed with the Division of the Fire Marshal.
3. No inspections will be performed on this minor work unless a special request is made or the Division of the Fire Marshal elects to make quality control checks on the work being performed.
4. This does not apply to spray booths, NFPA 13D, and 13R systems, special hazard systems, residential alarm or air aspirating smoke detection systems, or other special stipulations previously mandated and required by the Division of the Fire Marshal.
5. All systems with more than 20 sprinkler heads, or more than 5 fire alarm devices, must conform to all local and state requirements including plan submittal, permits, and other requirements."

**Section 901.4.2.** Amend Section 901.4.2 to read as follows: "**901.4.2 Non-required fire protection systems.** Any fire protection system or portion thereof not required by

this code or the International Building Code shall be installed, repaired, operated, tested and maintained in accord with this code and applicable standards.”

**Section 901.4.5.** Add a new Section 901.4.5 to read as follows: “**901.4.5. Approved contractors.** All fire alarm, water-based suppression systems, portable fire extinguisher appliances and special hazard systems shall be designed, installed, repaired, inspected, tagged and maintained by an appropriately licensed contractor. Private fire hydrants shall be inspected and maintained by an approved licensed contractor.”

**Section 901.7.7.** Add a new Section 901.7.7 to read as follows: “**901.7.7. Permanent removal from service.** When a fire protection system is permanently removed from service it shall be completely removed from the structure, to include all valves, panels, devices, appliances, wiring, piping, appurtenances, fire department connections, etc. The only portion of the system permitted to remain includes portions concealed in walls or hard lid areas. The water riser stub coming out of the ground and associated fire line shall be abandoned in accordance with Colorado Springs Utility requirements.”

**Section 901.10.** Add a new Section 901.10 to read as follows: “**901.10. Clear space around fire protection equipment.** A three (3) foot clear space shall be maintained in front of, to the side of and around, as applicable, fire sprinkler riser assemblies to include all control valves, hose valves, fire alarm control panels, fire alarm annunciators and power supply panels. This clear space shall include an unobstructed path of travel and access to the fire protection system appurtenances.”

**Section 903.2.7.** Amend section 903.2.7 by deleting subsection 4.

**Section 903.3.1.1.1.** Amend Section 903.3.1.1.1 to read as follows: “**903.3.1.1.1. Exempt locations.** Automatic sprinklers shall not be required in the following rooms or areas where such rooms or areas are protected with an approved automatic fire detection system in accordance with NFPA 72 that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from any room merely because it is damp, of fire-resistant rated construction or contains electrical equipment.

1. Any room where the application of water, or flame and water, constitutes a serious life or fire hazard.
2. Any room or space where sprinklers are considered undesirable because of the nature of the contents, when approved by the fire code official.
3. Safe deposit or other vaults of fire resistive construction when used for the storage of records, files and other documents, when stored in metal cabinets.
4. Communication equipment areas under exclusive control of a public communication utility agency, provided all of the following are met:
  - 4-1. The equipment areas are separated from the remainder of the building by two-hour fire rated enclosure; and
  - 4-2. Such areas are used exclusively for such equipment; and

- 4-3. An automatic smoke-detection system is installed in such areas and is supervised by an approved central, proprietary or remote station service or a local alarm which will give an audible signal at a constantly attended location; and
- 4-4. Other approved fire-protection equipment such as portable fire extinguishers or Class I standpipes are installed in such areas.
- 5. Main electrical rooms where electrical services enter a building and are distributed, provided all of the following are met:
  - 5-1. The room is dedicated to electrical equipment only.
  - 5-2. Only dry-type electrical transformers are used.
  - 5-3. Electrical equipment is installed in an enclosure meeting the requirements of a two hour fire rated enclosure in accord with the International Building Code including protection for all penetrations.
  - 5-4. No combustible storage is permitted to be stored in the room.
  - 5-5. An automatic smoke detection system is installed in such areas and is supervised by an approved central proprietary or remote station service in accord with Section 907 of this code.
  - 5-6. A portable fire extinguisher rated not less than 2-A:20-BC is provided at the door giving access into the room.
- 6. Elevator machine rooms, provided all of the following are met:
  - 6-1. The elevator equipment is to be installed to meet the more restrictive of the two options noted below:

Within an enclosure meeting the fire resistive rating of the elevator hoist way, or fire barrier, in accord with the International Building Code.
  - 6-2. No combustible storage is permitted to be stored in the room.
  - 6-3. An automatic smoke-detection system is installed in such areas and is supervised by an approved central, proprietary or remote station service in accord with Section 907 of this code.
  - 6-4. A portable fire extinguisher rated not less than 2-A:20-BC is provided at the door giving access into the room.

**Section 903.3.5.1.2.** Amend Section 903.5.1.2 to read as follows: "**903.3.5.1.2. Residential combination services.** A single combination water supply shall be allowed only on NFPA 13D systems."

**Section 903.3.5.3.** Add a new Section 903.3.5.3 to read as follows: "**903.3.5.3. Dead-end fire service mains.** Unless approved by the fire code official, dead-end fire service mains shall not be used when there is not a reliable secondary or redundant means of water supply within 500' feet of a structure along an approved route."

**Section 903.4.** Amend Section 903.4 by deleting exception # 3.

**Section 903.4.2.1.** Add a new Section 903.4.2.1 to read as follows: "**903.4.2.1. Waterflow alarm systems.** Waterflow alarm systems shall be provided with a minimum of one interior audible and visual alarm appliance. Buildings intended to serve more

than one tenant without common interior access need not be equipped with an audible and visual waterflow alarm on the interior.”

**Section 904.11.2.** Amend Section 904.11.2 to read as follows: **“904.11.2. System interconnection.** The actuation of the fire extinguishing system shall automatically shut down the fuel and/or electrical power supply to the cooking equipment and any electrical receptacles which are capable of supplying an ignition source under the hood. Any receptacles that could be used to power appliances located under the hood shall also be shut down. The fuel and electrical supply reset shall be manual.”

**Section 904.11.6.4.** Add a new Section 904.11.6.4 to read as follows: **“904.11.6.4. Ventilation system interconnection.** Upon activation of the fire suppression systems, the exhaust for the hood shall remain on.

**Section 905.3.1.** Delete all exceptions and Amend Section 905.3.1 to read as follows: **“905.3.1. Building height.** Class I automatic wet standpipe system shall be installed throughout buildings where the floor level of the highest story is located more than 30 feet (9.1 m) above the lowest level of the Fire Department vehicle access, or where the floor level of the lowest story is located more than 30 feet (9.1 m) below the highest level of Fire Department vehicle access.

**Exception:** Manual dry standpipes are allowed in open parking garages that are subject to freezing temperatures, provided that the hose connections are located so that all portions of the building are within 30 feet (9.1 m) of a nozzle attached to 100 feet (30.5 m) of hose.”

**Section 905.3.4.** Amend Section 905.3.4 and delete the exception to read as follows: **“905.3.4. Stages.** Stages greater than 1,000 square feet (93 m<sup>2</sup>) in area shall be equipped with a Class I wet standpipe system with 2½ inch (64 mm) hose connections on each side of the stage.”

**Section 905.3.4.1.** Delete Section 905.3.4.1 in its entirety.

**Section 905.4.** Amend Section 905.4. **Location of Class I standpipe hose connections.**, by adding an exception to subsection number 1, to read as follows:

1. In every required stairway, a hose connection shall be provided for each floor level above or below grade. Hose connections shall be located at an intermediate floor level landing between floors, unless otherwise approved by the fire code official.

**Exception:** When stairways are constructed with a vestibule in accordance with the International Building Code, the hose connection shall be installed inside the floor level vestibule, not in the stairway.

**Section 907.2.3.** Amend Section 907.2.3 by adding a new Exception 2.6 as follows: **"Exception 2.6.** Off premises monitoring by an approved supervising station is provided."

**Section 907.2.6.2.1.** Add a new Section 907.2.6.2.1 to read as follows: **"907.2.6.2.1. Alternative design.** As an alternative design, addressable system smoke detectors may be used in patient rooms. In such case, a visual notification in the corridor shall not be required and the patient room detector shall initiate building alarm. A remote annunciator shall be located at the respective nurses' station."

**Section 907.2.8.3.** Amend Section 907.2.8.3 to read as follows: **"907.2.8.3. Smoke alarms.** Single- and multiple-station smoke alarms shall be installed in accordance with Section 907.2.11. Smoke alarms provided in guest rooms may be annunciated at the fire alarm control panel as supervisory only."

**Section 907.2.9.2.** Amend Section 907.2.9.2 to read as follows: **"907.2.9.2. Smoke alarms.** Single and multiple station smoke alarms shall be installed in accordance with section 907.2.11. Smoke alarms provided in guest rooms may be annunciated at the fire alarm control panel as supervisory only."

**Section 907.2.11.2.1.** Add a new Section 907.2.11.2.1 to read as follows: **907.2.11.2.1. Hillside overlay developments.** One and Two family dwellings (R3) occupancies located in hillside overlay developments, where specifically required on the approved development plan, shall comply with Appendix L101.2, in addition to other requirements of this code, or as identified on the approved development plans."

**Section 907.2.11.2.2.** Add a new Section 907.2.11.2.2 to read as follows: **"907.2.11.2.2. Fire alarm/detection system requirements.** The following are the minimum alarm/detection system requirements in hillside zoned single-family residences:

1. Smoke detectors on all levels, in bedrooms, and in hallways near/outside bedrooms.
2. Combination Rate of rise and 195°F fixed temperature detectors in kitchen and garage areas.
3. An outside strobe unit with clear lens, to be visible from roadway.
4. A listed or approved low-voltage residential fire alarm control panel.
5. Wiring which meets National Electric Code, Article 760, requirements.
6. Horn circuits interconnected with all smoke detectors in the interior of the residence.

7. Monitoring of the system by a CSFD approved agency.”

**Section 907.2.12.** Amend Section 907.2.12 by adding an exception, to read as follows: “**907.2.12. Special amusement buildings.** An automatic smoke detection system shall be provided in special amusement buildings in accordance with Sections 907.2.12.1 through 907.2.12.3.

**Exception:** In areas where ambient conditions will cause a smoke detection system to alarm, an approved alternative type of automatic detection shall be installed.”

**Section 907.6.2.2.** Amend Section 907.6.2.2 to read as follows: “**907.6.2.2. Emergency voice/alarm communication systems.** Emergency voice/alarm communication systems required by this code shall be designed and installed in accordance with NFPA 72. The operation of any automatic fire detector, sprinkler water-flow device or manual fire alarm box shall automatically sound an alert tone followed by voice instructions giving approved information and directions on a general or staged evacuation in accordance with the building’s fire safety and evacuation plans required by Section 404. In high-rise buildings, the system shall operate on a minimum of the alarming floor, the floor above, the floor below, the main ground level and the highest occupied floor. Speakers shall be provided throughout the building by paging zones. At a minimum, paging zones shall be provided as follows:

1. Elevator groups.
2. Exit stairways.
3. Each floor.
4. Areas of refuge as defined in Section 1002.1.”

**Section 910.1.** Amend Section 910.1 by deleting exception number 2.

**Section 910.3.2.2.** Amend Section 910.3.2.2 to read as follows: “**910.3.2.2. Sprinklered buildings.** Where installed in buildings equipped with an approved automatic sprinkler system, smoke and heat vents shall be designed to operate automatically by activation of a heat-responsive device rated at least 100 degrees above the operating temperature of the fire sprinkler heads in the immediate vicinity of the vent. Vents shall also be manually operable from the exterior by an approved means.”

**Section 912.1.1.** Add a new Section 912.1.1 to read as follows: “**912.1.1. Indicating device.** A listed horn/strobe, activated by the sprinkler water-flow switch, shall be located within 20 feet (6.1 m) of the fire department connection, and shall be highly visible to emergency responders along their normally anticipated arrival route.”

**Section 912.1.2.** Add a new Section 912.1.2 to read as follows: **"912.1.2. Inlets.** There shall be a minimum of one 2 ½" connection for every 250 gallons per minute (gpm) of system demand.

**Exception:** As allowed by NFPA 13R."

**Section 912.1.3.** Add a new Section 912.1.3 to read as follows: **"912.1.3. Multiple fire department connections (FDC's).** When demand of sprinkler system exceeds 1500 gallons per minute (gpm) (5678.1 L/min), additional fire department connections (FDC's) shall be provided and located as specified by the fire code official. Multiple fire department connections (FDC's) shall be of equal capacity."

**Section 912.2.** Amend Section 912.2 to read as follows: **"912.2. Location.** With respect to hydrants, driveways, buildings and landscaping, fire department connections shall be so located that fire apparatus and hose connected to supply the system will not obstruct access to the buildings for other fire apparatus. Fire Department connections shall be located within 40 feet (12.2m) of an approved fire apparatus access road or fire lane, and within 100 feet (30.5m) of a fire hydrant capable of supplying the fire protection system demand. The location of the fire department connections shall be approved by the fire code official."

**Section 912.2.1.** Amend Section 912.2.1 to read as follows: **"912.2.1. Visible location.** Fire department connections shall be located on the front entrance and/or street side of buildings, fully visible and recognizable from the street or nearest point of fire department vehicle access or as otherwise approved by the fire code official."

**Section 912.4.1.** Add a new Section 912.4.1 to read as follows: **"912.4.1. Location designator.** Fire department connections and their identifying horn/strobes shall be provided with adequate signage posted as needed to properly indicate the exact device type and exact area(s) served, and shall comply with CSFD requirements."

**Section 1007.8.1** Amend Section 1007.8.1 to read as follows: **"1007.8.1 System Requirements.** Two-way communication systems shall provide communication between each require location and the fire command center or a central control point approved by the fire department. The two-way communication system shall include both audible and visible signal."

**Section 1029.4.** Amend Section 1029.4 to read as follows: **"1029.4. Operational constraints.** Emergency escape and rescue openings shall be operational from the inside of the room without the use of keys or tools. Bars, grills, grates, or similar devices are permitted to be placed over emergency escape and rescue openings provided the minimum net clear opening size complies with Section 1029.2 and such devices shall be releasable or removable from the inside without the use of a key, tool or force greater than which is required for normal operation of the escape or rescue opening. The force required for normal operation of any device shall not exceed 30 pounds. Where such bars, grills, grates or similar devices are installed in existing buildings,

smoke alarms shall be installed in accordance with Section 907.2.11 regardless of the valuation of the alteration.”

**Section 1029.6.** Add a new Section 1029.6 to read as follows: “**1029.6. Emergency escape openings below horizontal projections.** Emergency escape openings may be located below decks, porches, cantilevers and similar horizontal projections provided one of the following:

1. The location of the projection allows the emergency escape opening to be fully opened and provides a path not less than 36 inches (914.4 mm) in height and width to a yard or court.
2. The minimum horizontal area of 9 square feet (8,361 cm<sup>2</sup>) is provided clear of the projection and the horizontal projection of the operable portion of the egress window and ladder, if required, remain clear of the projection.”

**Section 1107.1.** Amend Section 1107.1 to read as follows: “**1107.1. General.** Helistops and heliports shall be maintained in accordance with Sections 1107.2 through 1107.8. Helistops and heliports on buildings shall be constructed in accordance with the International Building Code, NFPA 407, Section 4.4, 4.5 & 4.6, and NFPA 418.”

**Section 1107.5.** Amend Section 1107.5 to read as follows: “**1107.5. Standpipe systems.** Where a building with a rooftop helistop or heliport is equipped with a standpipe system, the system shall be extended to the roof level on which the helistop or heliport is located. All portions of the helistop and heliport area shall be within 150 feet (45,720 mm) of a 2½-inch (63.5 mm) outlet or on a Class I standpipe.”

**Section 1402.1** Add a new Definition 1402.1 to read as follows: “**1402.1 Temporary fire access road.** Temporary access roads shall be an all weather surface comprised of either the first lift of asphalt or concrete/compacted gravel to a thickness capable of supporting the imposed loads of fire department apparatus. A 20-ft minimum width shall be maintained unless the permanent road is designed less than 20-ft, in which case the temporary road shall be the intended width of the permanent road. Adequate street signs and fire lane signs shall be installed where applicable. Temporary access roads must be maintained in accord with this section. Temporary access roads must be approved and inspected by the fire department and maintained in accord with this section.”

**Section 1404.5.** Delete Section 1404.5 and replace to read as follows: “**1404.5. Fire watch.** When required by the Division of the Fire Marshal for building demolition and/or when there are situations that compromise the community’s safety, the fire marshal’s office may require on-site personnel designated solely for fire watch purposes. The level of coverage shall be based upon the following guidelines; however, circumstances may warrant modifications at the discretion of the fire marshal:

**Group A (Assemblies) Occupancies:**

1. Loss of a required fire alarm and/or fire sprinkler system prohibiting the use of the affected structure for large events - Level II or III.
2. Special circumstances such as occupant load increase, nature of performance, exhibition, display, contest or activity - Level III.

**Group B (Business/Office) Occupancies:**

1. Loss of a required fire alarm and/or fire sprinkler system - Level I as determined by the Division of the Fire Marshal - Note: All building occupants must be notified that the system/systems are out of service.

**Group E (Educational) Occupancies:**

1. Loss of a required fire alarm and/or fire sprinkler system - Level II while the building is occupied - Note: All staff must be notified of the failure.

**Group F (Factory) Occupancies:**

1. Loss of any required fire alarm, fire sprinkler, and/or special system - Discretion of the Division of the Fire Marshal based upon nature of hazard.

**Group H (Hazardous) Occupancies:**

1. Loss of any required fire alarm, fire sprinkler, or special system - Level III depending on the nature of hazard as determined by the Division of the Fire Marshal.

**Group I (Institutional/Healthcare) Occupancies:**

1. Loss of any required fire alarm, fire sprinkler, and/or special system - Discretion of the Division of the Fire Marshal based upon the nature of hazard.

**Group M (Mercantile/Retail Sales) Occupancies:**

1. Loss of required fire alarm and/or fire sprinkler system - Level I.

**Group R (Residential) Occupancies:**

1. Loss of any required fire alarm, fire sprinkler, and/or special system - Discretion of the Division of the Fire Marshal based upon the nature of hazard.

**Group S-1 and S-2 (Storage) Occupancies:**

1. Loss of required fire alarm and/or fire sprinkler system - Stocked but no occupants: Level I; During operations: Level II; Hazardous Materials Permit required: Level III."

Table 1404.5. Add a new **Table 1404.5** as follows:

**Table 1404.5  
Levels of Coverage**

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LEVEL I:	CONTINUOUS MONITORING OF AFFECTED AREA FOR SIGNS OF SMOKE OR FIRE FOR THE SOLE PURPOSE OF NOTIFYING EMERGENCY SERVICES (DIALING 9-1-1)	ONE OR MORE APPROVED EMPLOYEES OF THE BUILDING OWNER; SECURITY GUARDS; OR QUALIFIED CSFD PERSONNEL
LEVEL II:	CONTINUOUS MONITORING OF AFFECTED AREA FOR SIGNS OF SMOKE OR FIRE FOR THE PURPOSE OF NOTIFYING EMERGENCY SERVICES AND ASSISTING WITH EVACUATION	ONE OR MORE APPROVED REPRESENTATIVES OR EMPLOYEES OF THE BUILDING OWNER; SECURITY GUARDS; OR QUALIFIED CSFD PERSONNEL - THESE INDIVIDUALS MUST BE FAMILIAR WITH THE EXITING SYSTEMS, FIRE PROTECTION SYSTEMS, AND EVACUATION PLANS RELATIVE TO THE EFFECTED AREA.
LEVEL III:	CONTINUOUS MONITORING OF EFFECTED AREA FOR SIGNS OF SMOKE OR FIRE FOR THE PURPOSES OF NOTIFYING EMERGENCY SERVICES, ASSISTING WITH EVACUATION, AND FIRE EXTINGUISHMENT / HAZARD MITIGATION	ONE OR MORE QUALIFIED CSFD PERSONNEL NOTE: AN EMERGENCY ACTION PLAN MAY BE REQUIRED.

**Section 1404.5.1.** Add a new Section 1404.5.1, to read as follows: **“1404.5.1. Fees for fire watch.** For all fire watch activities that involved CSFD personnel, fees shall be assessed as set forth from time to time by City Council resolution.”

**Section 1410.1.1.** Add a new Section 1410.1.1 to read as follows: **“1410.1.1. Minimum specifications for temporary roads.** Temporary access roads shall be an all weather surface comprised of either the first lift of asphalt or concrete/compacted gravel to a thickness capable of supporting the imposed loads of fire department apparatus. A 20-ft minimum width shall be maintained unless the permanent road is designed less than 20-ft, in which case the temporary road shall be the intended width of the permanent road. Adequate street signs and fire lane signs shall be installed where applicable. Temporary access roads must be maintained in accord with this section. Temporary access roads must be approved and inspected by the fire department and maintained in accord with this section.”

**Section 1504.2.** Amend Section 1504.2 to read as follows: **“1504.2. Location of spray-finishing operations.** Spray-finishing operations conducted in buildings used for Group A, E, I or R occupancies shall be located in a spray room protected with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 and separated vertically and horizontally from other areas in accordance with the International Building Code. In other occupancies, spray-finishing operations shall be conducted in a spray room, spray booth or limited spraying space approved for such use. Use of aerosol cans and devices producing less than one c.f.m. (28.3 L/min) at 15 p.s.i.g. (103.4 kPa) shall not be regulated.”

**Section 2203.2.** Delete Section 2203.2 and replace with the following: **"2203.2. Emergency disconnect switches.** Approved, clearly identified, and readily accessible emergency disconnect switches shall be provided at approved locations to stop the transfer of fuel to the fuel dispensers in the event of a fuel spill or other emergency. Two emergency disconnect switches for exterior fuel dispensers shall be required as follows:

1. Exterior: Shall be located within 100 feet of, but not less than 20 feet from, the fuel dispensers. Provide a mushroom style switch that is readily accessible and must cut off power to all dispensers and pumps.
2. Interior: Shall be located at the Attendant duty location. Provide a palm-type switch button which will shut off the flow of fuel and cut off power to all dispensers and pumps.
3. Emergency disconnect switches shall shut-off the power in conformance with the National Electrical Code (National Fire Protection Association (NFPA-70) and NFPA-30A.
4. Emergency controls shall be of a type which is only manually resettable.

For interior fuel-dispensing operations, the emergency disconnect switch shall be installed at an approved location."

**Section 2203.2.1.** Add a new Section 2203.2.1 to read as follows: **"2203.2.1. Emergency disconnect switch signage.** Signs shall be provided in approved locations and of the legible size:

1. Interior: At least 1 inch in height and 1/8 inch stroke Red on White background.
2. Exterior: At least 2 inches in height and 1/4 inch stroke Red on White background."

**Section 2301.2.** Amend Section 2306.2 to read as follows: **"2301.2. Permits.** Permits shall be required as set forth in Sections 105.6 and 105.7."

**Section 2301.5.** Add a new Section 2301.5 to read as follows: **"2301.5. Facility closure.** Facilities shall be placed out of service in accordance with 2301.5.1 through 2301.5.3."

**Section 2301.5.1.** Add a new Section 2301.5.1 to read as follows: **"2301.5.1. Temporarily out-of-service facilities.** Facilities that are temporarily out of service shall continue to maintain a permit and be monitored and inspected."

**Section 2301.5.2.** Add a new Section 2301.5.2 to read as follows: **"2301.5.2. Permanently out-of-service facilities.** Facilities for which a permit is not kept current or is not monitored and inspected on a regular basis shall be deemed to be permanently out of service and shall be closed in an approved manner. Permittees shall apply for approval to close any high pile storage facility. Applications for facility closures shall comply with Section 2301.5.3."

**Section 2301.5.3.** Add a new Section 2301.5.3 to read as follows: **"2301.5.3. Facility closure plan.** When a facility closure plan is required in accordance with Section 2301.5.2 to terminate the high pile storage of combustibles, it shall be submitted to the fire code official at least 30 days prior to facility closure. The plan implementation shall be demonstrated by an owner/operator scheduled inspection to verify compliance to close out the operational permit."

**Section 2306.6.1.3.** Amend Section 2306.6.1.3 to read as follows: **"2306.6.1.3. Locking devices.** Only approved locking devices shall be used. All doors required by Section 2306.1 shall be keyed the same and master keys to doors shall be provided in the required on-site Knox™ box."

**Section 2311.** Add a new Section 2311 to read as follows: **SECTION 2311 BUILDINGS CONTAINING AREAS CAPABLE OF ACCOMODATING HIGH PILE STORAGE**

**2311.1 General.** Any building containing an area capable of high piled storage, but which is otherwise not meeting definitions and/or requirements of this chapter, shall be maintained in accordance with this section.

**2311.2 Acknowledgement of responsibility.** The owner of the owner's designated representative shall acknowledge in writing the stipulation that in the event such structure is used for high piled storage, the fire code official shall be notified and compliance with the fire code shall become compulsory.

**2311.3 Storage height.** An approved method of delineating permissible storage height shall be provided and maintained within all areas capable of accommodating high piled storage.

**Section 2312.** Add a new Section 2312 to read as follows: **SECTION 2312 EXISTING BUILDINGS**

**2312.1 General.** The requirements for existing high piled storage facilities are located in section 4606

**Section 2403.2.** Amend Section 2403.2 to read as follows, and delete all exceptions: **"2403.2. Approval required.** Individual or multiple tents, canopies and membrane structures having individual or contiguous or individual area in excess of 2400 square

feet (223 square meters) shall not be erected, operated or maintained for any purpose without first obtaining a permit and approval from the fire code official."

**Section 2603.7.** Add a new Section 2603.7 to read as follows: "**2603.7. Location.** Portable or manifolded cylinders located inside of a building shall be stored in a well-ventilated, dry location at least 20 feet (6.1m) from combustible material and at least 10 feet (3m) from elevators, stairways, corridors, exits or in areas normally used, or intended to be used, as a means of egress."

**Section 2701.5.1.** Amend Section 2701.5.1 to read as follows: "**2701.5.1. Hazardous Materials Management Plan.** Where required by the fire code official, an application for a permit shall include a Hazardous Materials Management Plan (HMMP). The HMMP shall include a facility site plan designating the following:

1. Access to each storage and use area.
2. Location of emergency equipment.
3. Location where liaison will meet emergency responders.
4. Facility evacuation meeting point locations.
5. The general purpose of other areas within the building.
6. Location of all above-ground and underground tanks and their appurtenances including, but not limited to, sumps, vaults, below-grade treatment systems and piping.
7. The hazard classes in each area.
8. Locations of all control areas and Group H occupancies.
9. Emergency exits.

HMMP information shall be reported using an approved electronic format, if available, and/or in accordance with the provisions of Appendix H."

**Section 2701.5.2.** Amend Section 2701.5.2 to read as follows: "**2701.5.2. Hazardous materials inventory statement (HMIS).** Where required by the fire code official, an application for a permit shall include an HMIS, such as Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III, Tier II Report or other approved statement. The HMIS shall include the following information:

1. Product name.
2. Component.

3. Chemical Abstract Service (CAS) number.
4. Location where stored or used.
5. Container size.
6. Hazard classification.
7. Amount in storage.
8. Amount in use-closed systems.
9. Amount in use-open systems.

HMIS information shall be reported using an approved electronic format, if available, and/or in accordance with the provisions of Appendix H.”

**Section 2703.1.5.** Add a new Section 2703.1.5 to read as follows: “**2703.1.5 Information required.** A report shall be submitted to the building official and fire official identifying the maximum expected quantities of hazardous materials to be stored, used in a closed system and used in an open system, and subdivided to separately address hazardous materials classification categories based on IFC Tables 2703.1.1(1) through 2703.1.1.(4). The methods of protection from such hazards, including but not limited to control areas, fire protection systems and group H occupancies shall be indicated in the report and on the construction documents. The report shall be prepared by a qualified, competent person, firm or corporation approved by the building and fire official and provided without charge to the enforcing agency.”

For buildings and structures with an occupancy in Group H, separate floor plans shall be submitted identifying the location of anticipated contents and processes so as to reflect the nature of each occupied portion of every building and structure.

Hazardous material information shall be reported using an approved electronic format, if available, and/or in accordance with the provisions of Appendix H.”

**Section 2704.3.** Amend Section 2704.3 to read as follows: “**2704.3. Material safety data sheets.** Material safety data sheets shall be readily available on the premises for hazardous materials regulated by the chapter and shall be in accordance with the provisions of Section 407.2.”

**Section 2704.2.1.** Amend Section 2704.2.1 to read as follows: “**2704.2.1. Spill control for hazardous material liquids.** Rooms, buildings or areas used for storage of hazardous material liquids in individual vessels having a capacity of more than 30 gallons, or in which the aggregate capacity of multiple vessels exceeds 55 gallons, shall be provided with spill control to prevent the flow of liquids to adjoining areas. Floors in

indoor locations and similar surfaces in outdoor locations shall be constructed to contain a spill from the largest single vessel by one of the following methods:

1. Liquid-tight sloped or recessed floors in indoor locations or similar areas in outdoor locations.
2. Liquid-tight floors in indoor locations or similar areas in outdoor locations provided with liquid-tight raised or recessed sills or dikes.
3. Sumps and collection systems.
4. Other approved engineered systems.

Except for surfacing, the floors, sills, dikes, sumps and collection systems shall be constructed of noncombustible material, and the liquid-tight seal shall be compatible with the material stored. When liquid-tight sills or dikes are provided, they are not required at perimeter openings having an open-grate trench across the opening that connects to an approved collection system."

**Section 2704.2.2.** Amend Section 2704.2.2 to read as follows: "**2704.2.2. Secondary containment for hazardous material liquids and solids.** Where required by Table 2704.2.2 buildings, rooms or areas used for the storage of hazardous materials liquids or solids shall be provided with secondary containment in accordance with this section when the capacity of an individual vessel or the aggregate capacity of multiple vessels exceeds the following:

1. Liquids: Capacity of an individual vessel exceeds 30 gallons (114 L) or the aggregate capacity of multiple vessels exceeds 55 gallons (208 L); and
2. Solids: Capacity of an individual vessel exceeds 300 pounds (136.1 kg) or the aggregate capacity of multiple vessels exceeds 550 pounds (249.5 kg)."

**Section 3003.7.12.** Add a new 3003.7.12 to read as follows: "**3003.7.12. Location.** Portable or manifolded cylinders located inside of a building shall be stored in a well-ventilated, dry location at least 20 feet (6.1m) from combustible material and at least 10 feet (3m) from elevators, stairways, corridors, exits or in areas normally used, or intended to be used, as a means of egress."

**Section 3006.1.** Amend Section 3006.1 to read as follows: "**3006.1. General.** Compressed gases at hospitals and similar facilities intended for inhalation or sedation including, but not limited to, analgesia systems for dentistry, podiatry, veterinary and similar uses shall comply with Sections 3006.2 through 3006.4 in addition to other requirements of this chapter.

Medical Gas Systems shall be installed and inspected by credentialed American Society of Sanitary Engineering (ASSE) 6010 medical gas system installers, ASSE 6015 bulk

medical gas system installers, ASSE 6020 medical gas system inspectors, and ASSE 6030 medical gas verifiers.

Contractor shall be responsible for compliance with all local, state or federal codes, standards, and appropriate industry practices.”

**Section 3301.1.3.** Delete Section 3301.1.3 and replace with the following: “**3301.1.3. Fireworks.** It is unlawful for any person to possess, store, to offer for sale, expose for sale, sell at retail or use or explode any fireworks except as allowed in the Code of the City of Colorado Springs, Chapter 9, Article 7, Part 3.”

**Exceptions:**

1. Storage and handling of fireworks as permitted in Section 3304.
2. Manufacture, assembly and testing of fireworks as permitted in Section 3305.
3. The use of fireworks for display as permitted in Section 3308.”

**Section 3301.2.4.1.** Delete Section 3301.2.4.1 and replace with the following: “**3301.2.4.1. Blasting.** Before a permit is issued to use explosive materials, the applicant shall file with the Division of the Fire Marshal a certificate of insurance showing commercial general liability with minimum available limits of:

1. \$2,000,000 general aggregate.
2. \$1,000,000 products and completed operative aggregate.
3. \$1,000,000 each occurrence.
4. Comprehensive automobile liability with minimum limits of \$1,000,000 per occurrence.
5. Workers compensation and employers liability as required by statute. Employers liability coverage is to be carried at a minimum of \$100,000.
6. The insurance shall cover all operations involving explosives and any vehicles used for the transportation or storage of explosives, bodily injury liability and property liability for the purpose of payment of any damages to persons or property which arise from, or are caused by, the conduct of an act authorized by the permit upon which a judicial judgment results. The insurance shall also provide protection for underground property damage and property damage resulting from collapse or explosion. The certificate of insurance shall guarantee 30 days written notice to the chief of the fire department in the event of policy cancellation for any reason. The chief is authorized to specify a greater or lesser

amount when, in the chief's opinion, conditions at the location of use indicate the need for modification.

**Exception:** Government entities shall be exempt from this insurance requirement."

**Section 3301.2.4.2.** Delete Section 3301.2.4.2 and replace with the following: "**3301.2.4.2. Fireworks display.** The permit holder shall furnish a bond or certificate of insurance in an amount deemed adequate by the fire code official 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.

1. \$2,000,000 general aggregate.
2. \$1,000,000 products and completed operative aggregate.
3. \$1,000,000 each occurrence.
4. Comprehensive automobile liability with minimum limits of \$1,000,000 per occurrence.
5. Workers compensation and employers liability as required by statute. Employers liability coverage is to be carried for a minimum of \$100,000.
6. The insurance shall cover all operations involving fireworks and any vehicles used for the transportation or storage of fireworks, bodily injury liability and property liability for the purpose of payment of any damages to persons or property which arise from, or are caused by, the conduct of an act authorized by the permit upon which a judicial judgment results. The insurance shall also provide protection for underground property damage and property damage resulting from fireworks or explosion. The certificate of insurance shall guarantee 30 days written notice to the chief of the fire department in the event of policy cancellation for any reason. The chief is authorized to specify a greater or lesser amount when, in the chief's opinion, conditions at the location of use indicate the need for modification.

**Exception:** Government entities shall be exempt from this insurance requirement."

**Section 3301.6.** Amend Section 3301.6 to read as follows: "**3301.6. Notification.** Whenever a new explosive material storage or manufacturing site is established, including a temporary job site, the Colorado Springs Fire Department and the Colorado Springs Police Department shall be notified forty-eight (48) hours in advance, not including Saturdays, Sundays and holidays, of the type, quantity and location of explosive materials at the site."

**Section 3307.1.1.** Add a new Section to read as follows: **“3307.1.1. Notification.** Before blasting, a minimum of 48 hours advance notice shall be given to the Division of the Fire Marshal of the Colorado Springs Fire Department. All residents within a radius of 1,000 feet of the blast or such greater distance as the fire department may determine, based upon information supplied by the permittee, shall be notified and warned by the permittee through personal contact, if feasible, and in writing of the possible effects of the explosion. Prior to the blast, the permittee shall certify to the fire department that notice has been provided in accord with this section. If the permittee determines that possible injury or damage could occur beyond the 1,000-foot radius or such other distance determined by the fire department, the permittee shall also notify those persons within the greater radius area. In an emergency, this time limit and the requirements of Sections 3301.3 and 3307 may be waived by the fire marshal. In the event the permittee demonstrates to the fire marshal that the 72-hour time limit imposes an unnecessary hardship upon the permittee, the fire marshal may reduce or waive this 72-hour time requirement provided that the fire marshal determines that any reduction or waiver of the 72-hour time limit will allow adequate review of the proposed blasting and will not jeopardize public safety.”

**Section 3307.1.2.** Add a new Section 3307.1.2 to read as follows: **“3307.1.2. Blasting activity requirements.** The use and handling of explosives or blasting agents shall meet the provisions of Chapter 33 and NFPA 495. Within the time limits provided in subsection 3307.1.1 the Division of the Fire Marshal shall be notified prior to any blasting operations within the city limits of Colorado Springs. At the time of notification, a shot plan shall be submitted to the Division of the Fire Marshal. The shot plan shall consist of a plot plan of the blast area and shall include the following items:

1. Name of blaster and name of supervisor.
2. Distance to gas, water, electric, telephone, fire alarm, telegraph or steam utilities.
3. Distance to cellular phone, radio and radar transmitters.
4. Distance to streets, roads, highways or other public ways.
5. Distance to buildings and residences in proximity to the blast area.
6. Placement of charges.
7. Type of detonation to be used (fuse, electric blasting caps, delay, etc.).
8. Amount of explosive or blasting agent to be used.
9. Type of explosive or blasting agent to be used.
10. Size of holes (if applicable).

11. Type of blasting operation (blasting for holes, ditches, demolition, etc.).
12. Method for storage of explosives on site in conformity with the requirements of Section 7702.
13. Mode of transporting explosives to the site.
14. Method of protection for flying debris (blasting mat, etc.).
15. The Colorado Springs Fire Department shall review the shot plan. The chief shall disapprove any shot plan which is incomplete or which indicates the likelihood that public safety will be jeopardized."

**Section 3307.1.3.** Add a new Section 3307.1.3 to read as follows: "**3307.1.3. Blasting permit requirements.** The following procedures are required to obtain a blasting permit from the City of Colorado Springs. A copy of the permit application may be obtained from the Division of the Fire Marshal. The permit application shall include:

1. A copy of all state and federal blasting/explosives permits or license.
2. A certificate of insurance in compliance with the requirements of Section 3301.2.4.1.
3. A minimum of three working days shall be allowed to conduct an appropriate permit review."

**Section 3308.1.** Amend Section 3308.1 to read as follows: "**3308.1. General.** The display of fireworks, including proximate audience displays and pyrotechnic special effects in motion picture, television, theatrical, and group entertainment productions, shall comply with this chapter and NFPA 1123, NFPA 1126 and NFPA 160."

**Section 3308.2.** Delete Section 3308.2 to read as follows: "**3308.2. Permit application.** The following requirements are provided to regulate fireworks display and pyrotechnic special effect activities within the city limits of Colorado Springs.

1. Approval. The outdoor public display of fireworks and indoor pyrotechnic special effects displays shall be conducted only when and where approved by the Colorado Springs Fire Department. A revocable fire permit is required to conduct a public fireworks display.
2. Neighborhood Notification. Outdoor public fireworks or pyrotechnics displays require noise permits regulated by the Colorado Springs Police Department Code Enforcement Unit. The applicant shall contact the CSPD Code Enforcement Unit to obtain the required permits.

3. Permits. The permit application shall be submitted no fewer than 14 days prior to the scheduled event. The application shall include the following paperwork:
- A. Copy of the operator's Colorado state fireworks display operator certification, pyrotechnics operator certification and all state and federal explosive/fireworks permits and licensure.
  - B. Certificate of insurance as specified in 3301.2.4.2.
  - C. A diagram detailing dimensions of the display grounds or indoor event, including but not limited to: discharge site and point of discharge, distance to audience, highways/roads, vehicles, nearby trees, telegraph or telephone lines or other overhead obstructions, structures, buildings, combustible materials and the fallout area. A shot plan in sequence with number and size/type of fireworks / pyrotechnic materials, duration of display, start-end time, method of storage, use and handling of fireworks on site, fire retardants of materials, proposed rain dates in event of postponement, number of assistants, method of crowd control or audience restraint lines, and other plan documents as required by the fire marshal or listed in NFPA 1123 or NFPA 160.
  - D. Division of the Fire Marshal Approval. The permit application shall be forwarded to the Division of the Fire Marshal. The fire marshal will review the materials and, based upon numerous factors, render a decision on whether the proposed display meets Division of the Fire Marshal code regulations. Upon notification, the fire marshal will indicate either his/her approval or denial of the activity.
  - E. Standby Personnel and Equipment. Standby fire department personnel and equipment may be required by the fire department prior to and during the event. The fire department shall be reimbursed by the event coordinator or responsible party for all costs associated with providing fire department personnel and equipment at the display sites as set forth from time to time by City Council resolution. The number of personnel and equipment and an estimate of the costs shall be determined prior to the remittance of all applicable fees. The number of fire personnel and equipment required to be on site will be based upon the display site and, if necessary, the daily announced fire danger. The individuals providing this service shall abide by the Colorado Springs Fire Department's rules, regulations, policies and procedures. During condition classified as 'low to moderate fire danger', the fire marshal, or a designee, shall review the permit applications and required submittals to determine if the display will be allowed. Displays during 'high or very high fire danger' conditions shall require a minimum of one dedicated brush truck with sufficient staffing to operate said vehicle at the site of the display both prior to and throughout the event. The total number of equipment and staffing shall be approved

by the chief. Displays are prohibited during 'extreme fire danger' conditions.

**Exception:** Scheduled public events held over well irrigated landscaping and/or natural or man-made bodies of water as approved by the CSFD and the presence of standby equipment and personnel.

- F. Fees. Following the division's review and approval of the paperwork, the permit fee and, if necessary, the estimated cost of providing standby equipment and personnel will be assessed. If the actual costs exceed the Colorado Springs Fire Code predetermined estimate, an invoice will be generated.
- G. Inspection. The display site shall be inspected and approved by the Division of the Fire Marshal prior to the issuance of the required permit. The applicant shall be responsible for disposing of any unfired fireworks in a manner which is safe for the particular type of fireworks remaining. This shall be accomplished as soon as practical following the conclusion of the display. The fire department shall have the authority to revoke or restrict permit approvals to conduct an indoor or outdoor display. This may include site locations, adverse weather, traffic, communications, security concerns, available public protection, or other safety issues that may impact the health, safety, or welfare of the public. The display may resume when the condition is corrected or the hazard is abated."

**Section 3404.2.13.1.4.** Delete Section 3404.2.13.1.4 and replace with the following:  
**"3404.2.13.1.4. Tanks permanently out-of-service.** Where removal is impractical, abandonment in place may be allowed provided that a competent person submit a technical report, detailing structural, environmental and other special conditions which prevent tank removal from the ground. Where approved by the fire official, tanks abandoned in place shall be as follows:

1. Shall require a permit. Submit written request for abandonment in place to the Division of the Fire Marshal.
2. Flammable and combustible liquids shall be removed from the tank and connected to piping.
3. The suction, inlet, gauge, vapor return and vapor lines shall be disconnected.
4. The tank shall be filled completely with an approved inert solid material.
5. Remaining underground piping shall be capped or plugged.
6. A record of tank size, location and date of abandonment shall be retained.

7. All exterior above grade fill piping shall be permanently removed when tanks are abandoned or removed."

**Section 3404.2.13.1.4.1.** Add a new Section 3404.2.13.1.4.1 to read as follows: "**3404.2.13.1.4.1. Permits.** A permit is required for tank removal in accordance with Section 105.7.7."

**Section 3503.1.7.** Add a new Section 3503.1.7 to read as follows: "**3503.1.7. Location.** Portable or manifolded cylinders located inside of a building shall be stored in a well-ventilated, dry location at least 20 (6.1m) feet from combustible material and at least 10 (1m) feet from elevators, stairways, corridors, exits or in areas normally used, or intended to be used, as a means of egress."

**Section 3801.3.** Amend Section 3801.3 and to read as follows: "**3801.3. Construction documents.** Where a single container is more than 1,000 gallons (3785 L) in water capacity or the aggregate capacity of containers is more than 1,000 gallons (3785 L) water capacity, the installer shall submit construction documents for such installation."

**Section 4603.1.** Amend Section 4603.1 to read as follows: "**4603.1. Required construction.** Existing buildings shall comply as enumerated in Sections 4603.6 through 4603.7.3."

The provisions of this chapter shall not be construed to allow the elimination of fire protection systems or a reduction in the level of fire safety provided in buildings constructed in accordance with the previously adopted codes.

**Exception:** Group U Occupancies."

**Table 4603.1.** Delete Table 4603.1 in its entirety

**Section 4603.2.** Delete Section 4603.2 in its entirety.

**Section 4603.3.** Delete Section 4603.3 in its entirety.

**Section 4603.4.** Delete Section 4603.4 in its entirety.

**Section 4603.5.** Delete Section 4603.5 in its entirety.

**Section 4603.6.5.** Delete Section 4603.6.5 in its entirety.

**Section 4603.6.5.1.** Delete Section 4603.6.5.1 in its entirety.

**Section 4603.6.5.1.1.** Delete Section 4603.6.5.1.1 in its entirety.

**Section 4603.6.5.2.** Delete Section 4603.6.5.2 in its entirety.

**Section 4603.6.5.2.1.** Delete Section 4603.6.5.2.1 in its entirety.

**Section 4603.6.6.** Delete Section 4603.6.6 in its entirety.

**Section 4604.23.** Delete Section 4604.23 in its entirety.

**Section 4606.** Create a new section as follows: "**SECTION 4606 EXISTING HIGH PILED STORAGE FACILITIES.**"

**4606.1 Scope.** This section is applicable to all high-piled combustible storage in buildings that meet at least one of the following criteria:

1. Any existing building built prior to January 1, 1988, containing the same occupant, original occupant, and utilizing high pile storage defined by this chapter.
2. Any existing, non-conforming, building utilizing high pile storage, defined by this chapter, in which no official records such as certificate of occupancy, fire department records or similar verifying the occupancy of the current tenant.

**4606.2 Storage of class I-IV and high hazard commodities.** The storage of class I-IV and high hazard commodities shall meet the provisions of this section as set forth.

**4606.2.1 Automatic sprinklers.** When automatic sprinklers are required by 2306.4, an approved automatic sprinkler system in accordance with Section 903 shall be installed throughout the building or throughout all high pile combustible areas to a 2-hour fire resistance rated fire barrier wall constructed in accordance with the currently adopted Pikes Peak Regional Building Code. Openings in such walls shall be protected by opening protective assemblies meeting applicable code requirements for the hourly rating of the wall.

**Exceptions:**

1. Existing automatic sprinkler systems that do not meet the requirements of Section 903 may be used if demonstrated to provide the required protection for the commodity which it protects and is identified by a City of Colorado Springs licensed FSC-A suppression contractor.
2. Class IV and high hazard commodities shall be protected with an approved automatic sprinkler system in accordance with Section 903.

**4606.2.2 Smoke/heat vents/draft curtains.** Smoke and heat vents shall be provided in accordance with Section 2306.7. When required, a vent area to floor area ratio of 1:200 shall be utilized. Draft curtains, when required, may only be used in non-sprinkled buildings and in accordance with Section 2306.7."

**Section 4701.1.** Add a new Section 4701.1 to read as follows: “**4701.1. Adoption of standards.** In every case where this code references NFPA standards, the most current edition of said standards is hereby adopted. The current edition shall become effective on January 1 of the year following the NFPA’s effective date for said standard.”

**Section B105.1.** Amend Section B105.1 to read as follows: “**B105.1. One- and two-family dwellings.** The minimum fire-flow requirements for one- and two-family dwellings having a fire flow calculation area which does not exceed 3,600 square feet (344.5 m<sup>2</sup>), shall be 1,500 gallons per minute (5678 L/min). Fire flow and flow duration for dwellings having a fire flow calculation area in excess of 3,600 shall not be less than that specified in Table B105.1.

**Exception:** A reduction in required fire flow of 50% may be allowed when the building is provided with an approved automatic fire sprinkler system, provided that no hydrant’s flow rate falls below the parameters specified by B105.1.1 (see amendment).”

**Section B105.1.1.** Add a new Section B105.1.1 to read as follows: “**B105.1.1. Simultaneous flows.** Any hydrant must produce a minimum flow of 1,500 gallons per minute at 20 psi of residual pressure when flowing individually, or a minimum of 750 gallons per minute at 20 psi of residual pressure when flowing simultaneously to be considered by Table C105.1 or by Table C105.1’s footnotes as one of the minimum hydrants required to protect any structure, hazard or potential hazard.”

**Section B105.2.** Amend Exception in Section B105.2 to read as follows: “**B105.2. Buildings other than one- and two-family dwellings.** The minimum fire flow and flow duration for buildings other than one- and two-family dwellings shall be as specified in Table B105.1.

**Exception:** A reduction in required fire flow of 50% may be allowed when the building is provided with an approved automatic fire sprinkler system, provided that no hydrant’s flow rate falls below the parameters specified by B105.1.1 (see amendment).”

**Table C105.1. Number and distribution of fire hydrants.** Amend the footnotes of Table C105.1 to read as follows:

- a. “Where streets are provided with median dividers which can be crossed by fire fighters pulling hose lines or arterial streets are provided with four or more traffic lanes and have a traffic count of more than 30,000 vehicles per day, hydrant spacing shall average 1000 feet (304.8 m) on each side of the street. Hydrants shall be arranged on an alternated basis up to a fire flow requirement of 5,000 gallons (18,950 L) per minute and 400 feet (121.9 m) for higher fire flow requirements.

- b. Where new water mains are extended along streets where hydrants are not needed for protection of structure or similar fire problems, fire hydrants shall be provided at a spacing not to exceed 1,000 feet (304.8 m) to provide for transportation hazards and /or other hazards as determined by the chief. Hydrants shall be incorporated into intersections unless otherwise approved. In order to accomplish this, hydrant spacing may be increased by up to 10% between the hydrant at the intersection and the next nearest hydrant in each direction.
- c. Regardless of hydrant spacing, no hydrant distributed for a structure shall be located more than 500 feet (152.4 m) from a prospective engine stopping point on a drivable surface.
- d. All distances measured as fire apparatus would drive on a CSFD approved drivable surface.
- e. One hydrant for each 1,000 gallons per minute or fraction thereof."

**Section C105.2.** Add a new Section C105.2 to read as follows: "**C105.2. Color-coding of fire hydrants.** Fire hydrants shall be color-coded based on the specific colors/paint and areas to be painted per Table C105.2 Amendment. Where fire flow data is provided and incorporated in to Colorado Springs Fire Department mobile data mapping system that electronically identifies estimated fire flow rate, color coding hydrants with paint in accordance with this section is not required."

**Table C105.2.** Add a new Table C105.2 as follows:

**TABLE C105.2**  
COLOR CODING OF FIRE HYDRANTS

Flows	Colors	Manufacturer/Spec	Area Painted
3,000+ gpm	Ford Blue	Aervoe / #560	Bonnet and steamer cap
1,500 - 2,999 gpm	Ford Blue	Aervoe / #560	Bonnet only
1,000 - 1,499 gpm	Bright Green	Aervoe / #184	Bonnet only
500 - 999 gpm	Bright Orange	Aervoe / #560	Bonnet only
Less than 500 gpm	Red	Rustoleum / #2163	Bonnet only
Hydrant Barrel	Yellow	Rustoleum / #2148	All areas not painted above
<i>Non-potable</i> hydrants shall remain white with PURPLE caps and bonnets as currently identified.			

**Section C105.3.** Add a new Section C105.3 to read as follows: "**C105.3. Distance from structures.** Hydrants shall be located a minimum of 40 feet (12.2 m) from the structures they are serving unless otherwise approved by the fire code official."

**Section D102.1.** Amend Section D102.1 to read as follows: "**D102.1. Access and loading.** Facilities, buildings or portions of buildings hereafter constructed shall be accessible to fire department apparatus by way of an approved fire apparatus access road with an asphalt, concrete or other approved driving surface capable of supporting the imposed load of fire apparatus weighing at least 75,000 pounds (34,050 kg) with a minimum single axle weight of 27,000 pounds (12,247.2 kg)."

**Section D103.1.** Delete Section D103.1 in its entirety.

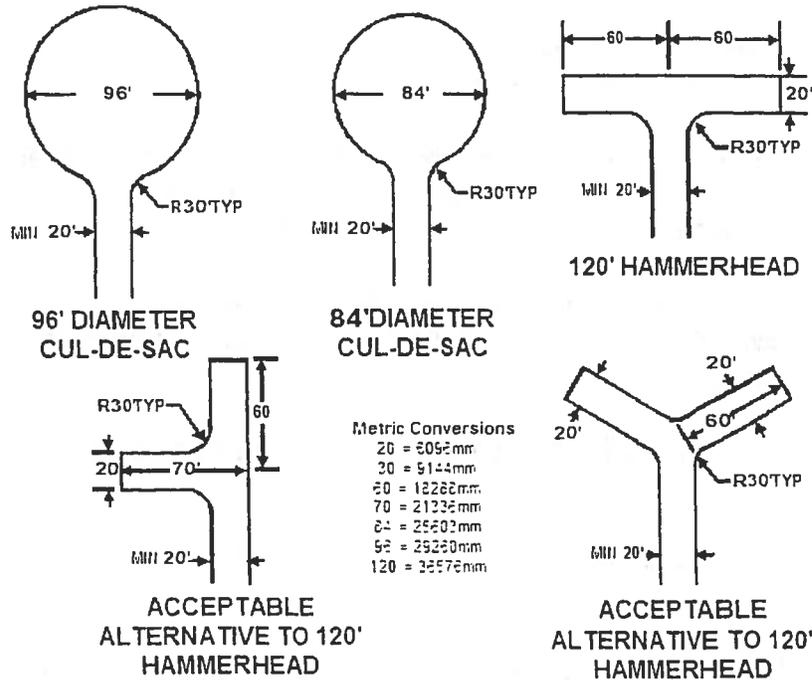
**Figure D103.1.** Delete Figure D103.1 in its entirety.

**Section D103.2.** Amend Section D103.2 to read as follows: **"D103.2. Grade.** Fire apparatus access road shall not exceed 10 percent in grade.

**Exception:** Grades steeper than 10 percent as permitted by the hillside ordinance or as approved by the fire code official."

**Section D103.4.** Amend Section D103.4 to read as follows: **"D103.4. Dead ends.** Dead-end fire apparatus access roads in excess of 200 feet (61 m) shall be provided with a width and turnaround provisions in accordance with Table D103.4."

**Figure D103.4.** Replace Figure D103.4. **Dead-end fire apparatus access road turnaround.** with the following figure:



**Table 103.4.** Amend **Table D103.4** to read as follows:

**TABLE D103.4**  
**REQUIREMENTS FOR DEAD-END FIRE APPARATUS ACCESS ROADS**

LENGTH (ft)	WIDTH (ft)	TURNAROUNDS REQUIRED
0-200	20	None Required

201-500	20	120' hammerhead, 60' "Y", 96' or 84' cul-de-sac in accord with Figure D103.4
501-750	20	96' diameter cul-de-sac in accord with Figure D103.4. Additional intermediate turnaround may be required.
Over 750		Special fire department approval required

**Section D103.5.** Amend Section D103.5 to read as follows: "**D103.5. Fire apparatus access road gates.** Gates securing the fire apparatus access road shall comply with all of the following criteria:

1. The minimum gate width shall be 16 feet (4877 mm) or as wide as necessary to facilitate the required turning radius.
2. Gates shall be of the swinging, sliding, or specifically approved lift type.
3. Construction of gate shall be of materials that allow manual operation by one person.
4. Gate components shall be maintained in an operative condition at all times and replaced or repaired when defective.
5. Electric gates shall be equipped with a Knox™ electronic override switch for all inbound directions of travel and any outbound direction of travel where automatic opening of the gate when a vehicle is present does not occur.
6. Manual opening gates shall not be locked with a padlock, or chain and padlock, unless they are provided with a Knox™ padlock in series with the padlock, or chain and padlock.
7. Locking device specifications shall be submitted for approval by the fire code official.
8. Electric gate operators, where provided, shall be listed in accordance with UL 325.
9. Gates intended for automatic operation shall be designed, constructed and installed to comply with the requirements of ASTM F2200.
10. Electronically operated gates must stay open a minimum of 30 seconds when the Knox™ electronic override switch is turned on/off and must remain in the open position when the switch is turned on and left on.
11. A Knox™ fire department decal shall be placed adjacent to the Knox™ electronic override switch unless other approved fire department marking is provided."

**Section D103.6.** Amend Section D103.6 to read as follows: "**D103.6. Fire apparatus access road marking.** Where required by the fire code official, fire apparatus access

roads shall be marked with permanent NO PARKING – FIRE LANE markings consisting of signage complying with Section D103.7 and/or striping complying with Section D103.8. Approved markings shall be posted on one or both sides of the fire apparatus road as required by Sections D103.6.1 through D103.6.3 (all amended Sections, below)."

**Figure D103.6.** Delete Figure D103.6. **Fire Lane Signs.** See new Figure D103.8.

**Section D103.6.1.** Amend Section D103.6.1 to read as follows: **"D103.6.1. Roads less than 28 feet (8.5 m) in width.** Fire apparatus access roads less than 28 feet (8.5 m) in width shall be posted on both sides as a fire lane."

**Section D103.6.2.** Amend Section D103.6.2 to read as follows: **"D103.6.2. Roads more than 28 feet (8.5 m) and less than 34 feet (10.4 m) in width.** Fire apparatus access roads more than 28 feet (8.5 m) and less than 34 feet (10.4 m) wide shall be posted on one side of the road as a fire lane."

**Section D103.6.3.** Add a new Section D103.6.3 to read as follows: **"D103.6.3. Roads 34 feet (10.4 m) in width or greater.** Fire apparatus access roads 34 feet (10.4 m) in width or greater do not require marking as a fire lane."

**Section D103.7.** Add a new Section D103.7 to read as follows: **"D103.7. Striping.** When striping is used to identify fire apparatus access roads, the striping shall comply with this Section and Figure D103.7. Striping shall consist of painted lines of red traffic paint six (6) inches (152.4 mm) in width to show the boundaries of the fire lane. The words "NO PARKING FIRE LANE" shall appear in four (4) inch (101.6 mm) high white reflective letters having a three-quarter (¾) inch (19.1 mm) stroke and spacing in twenty-five (25) feet (635 mm) intervals on the red traffic paint. Striping shall be located along one or both sides of the fire lane as required by Section D103.6. Where a curb is available, the striping shall be on the vertical face of the curb."

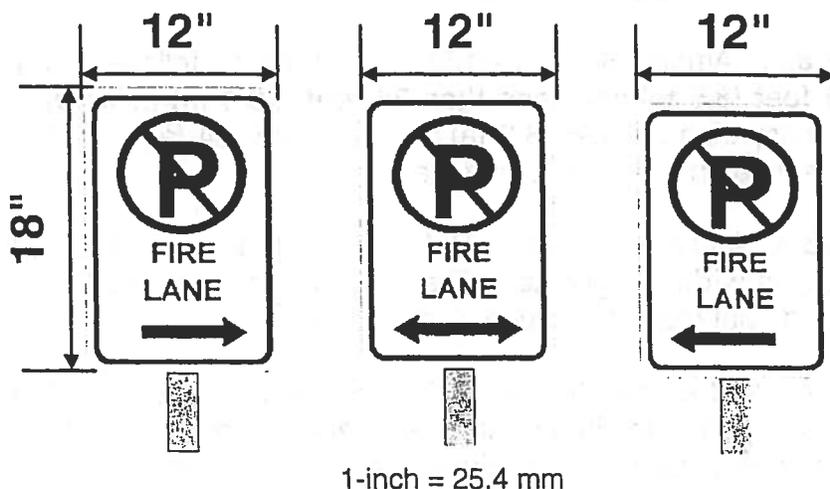
**Figure D103.7.** Add a new Figure D103.7. **Fire Lane Striping.** As follows:



**Section D103.8.** Add a new Section D103.8 to read as follows: **"D103.8. Signage.** When signage is used to identify fire lanes, the signage shall comply with this Section and Figure D103.8 or as approved otherwise. Signage shall be permanent, bearing the words "NO PARKING FIRE LANE". Signage shall have a white background with red letters and borders using not less than two (2) inch (50.8 mm) lettering and have a minimum dimension of twelve (12) inches (304.8 mm) wide by eighteen (18) inches

(457.2 mm) high. Signage shall provide directional arrows as applicable unless otherwise permitted. Signage shall be posted on one or both sides of the fire lane as required by Section D103.6. Signage shall indicate the beginning and ending of the fire lane and shall be spaced no more than one hundred (100) feet (30.5 m) apart. Additional signage may be required at changes in roadway direction. Signage may be installed on permanent buildings or walls in an approved manner or as approved by the fire code official. Signage shall meet applicable requirements of the Federal Highway Administrations Manual on Uniform Traffic Control Devices (MUTCD)."

**Figure D103.8.** Add a new **Figure D103.8.** Fire Lane Signage., as follows:



**Section D104.1.** Add a new exception to Section D104.1 to read as follows: "**D104.1. Buildings exceeding three stories or 30 feet in height.** Buildings or facilities exceeding 30 feet (9144 mm) or three stories in height shall have at least two means of fire apparatus access for each structure.

**Exception:** A single fire apparatus access road is acceptable when all buildings serviced by the single access road are provided with an approved fire sprinkler system."

**D104.3.** Add a new exception to Section D104.3 to read as follows: "**D104.3. Remoteness.** Where two access roads are required, they shall be placed a distance apart equal to not less than one half of the length of the maximum overall diagonal dimension of the property or area to be served, measured in a straight line between accesses.

**Exception:** The fire code official is authorized to modify this requirement when the required remoteness is not possible due to location on property, topography, water ways, non-negotiable grades or similar."

**Section D105.** Delete **Section D105** in its entirety, to include D105.1, D105.2 and D105.3).

**Appendix E.** Amend the subtitle of **Appendix E** to read as follows: *"This appendix is adopted for information purposes."*

**Appendix F.** Amend the subtitle of **Appendix F** to read as follows: *"This appendix is adopted for information purposes."*

**Appendix G.** Amend the subtitle of **Appendix G** to read as follows: *"This appendix is adopted for information purposes."*

**Appendix H.** Amend the subtitle of **Appendix H** to read as follows: *"The provisions of this appendix are mandatory and adopted."*

**Appendix K.** Add a new **Appendix K**, as amended from the *2003 International Fire Code*, Appendix H, to read as follows:

**"APPENDIX K  
FUELS MANAGEMENT REQUIREMENTS**

**SECTION K101  
FUELS MANAGEMENT**

**K101.1 Fuels management.** Fuels management measures shall be utilized within the safety zone of all new homes constructed within the hillside overlay zone as determined by city planning. Fuels management is defined as a natural fuel modification space as set forth in items 1 through 4 herein to protect structures from approaching wildfire as well as to reduce the potential for a structure fire spreading to the wildland. The safety zone is defined as the area within 30 feet (9.1 m) of the main structure, not to extend beyond the property line. The purpose of the fuels management is to provide an effective fire safety area, while preserving significant vegetation elements. All new subdivision plats shall include a statement of the requirement for fuels management. Using the following guidelines, fuels management measures shall be determined by the Office of the Fire Marshal and City Planning for each individual lot, as part of the building permit approval process.

**K101.1.1 Safety zone.** Brush patches or clusters may be left in the safety zone, but shall be separated by clear areas of 10 feet (3 m) or more of non-combustible materials or grass mown to not more than 4 inches (101.6 mm) in height.

**K101.1.2 Clearance to main structure.** No brush shall be allowed within 10 feet (3 m) of the main structure.

**Exception:** When approved by the fire code official, small brush patches (not exceeding 100 ft<sup>2</sup> (9.3 sq. m<sup>2</sup>) and 15 lineal feet (14.6 m) in any direction) may be allowed to intrude, if the structure has fire-resistant siding.

**K101.1.3 Pruning of dead limbs.** Large trees shall not have overlapping limbs and shall be pruned of dead limbs to a height of 10 feet (3 m) above the ground. Tree clusters may be allowed if sufficient clear area is provided.

**K101.1.4 Clearance of tree branches to structures and appurtenances.** Tree branches shall not extend over or under the roof eaves and shall not be within 15 feet (4.6 m) of a wood burning appliance chimney.

## **SECTION K102 FIRE PROTECTION**

**K102.1 Fire protection systems.** A monitored smoke alarm system or sprinkler system shall be installed in all new homes on lots that lie beyond 1000 feet (304.8 m) along a cul-de-sac or lie on or beyond roadways with grades in excess of ten percent (10%) if those roadways are the primary vehicular points of access to the home. For development plans approved on or after April 13, 1993, all lots subject to this restriction shall be identified on the plat."

### **Appendix L. Add a new Appendix L, to read as follows: "APPENDIX L HILLSIDE AREA OVERLAY**

**L101 Hillside development.** A monitored smoke alarm system or a sprinkler system shall be required for all new homes on lots with lot lines that are more than 1,000 feet (304.8 m) from the entrance of a cul-de-sac or lie on or beyond roadways with grades in excess of ten percent (10%), if those roadways are the only points of vehicular access. These lots shall be identified on the subdivision plat. This requirement shall not apply to subdivision plats recorded prior to March 24, 1981, or to subdivisions for which a development plan was approved prior to April 1, 1993."

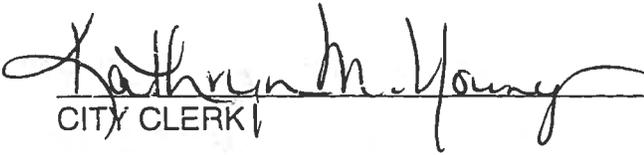
Section 2. This ordinance shall be in full force and effect from and after its passage and publication as provided by Charter.

Section 3. Council deems it appropriate that this ordinance be published by title and summary prepared by the City Clerk and that this ordinance shall be available for inspection and acquisition in the office of the City Clerk.

Introduced, read, passed on first reading and ordered published this 12<sup>th</sup> day of  
April, 2011.

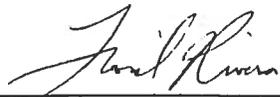
  
\_\_\_\_\_  
MAYOR

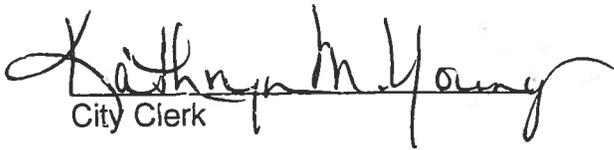
ATTEST:

  
\_\_\_\_\_  
CITY CLERK

Finally passed, adopted and approved this 26th day of April, 2011.

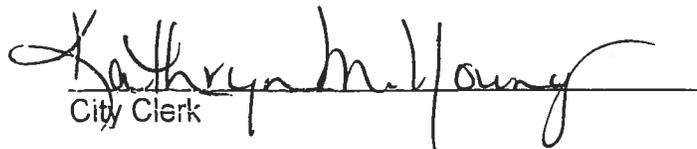
ATTEST:

  
\_\_\_\_\_  
Mayor

  
\_\_\_\_\_  
City Clerk

I HEREBY CERTIFY, that the foregoing ordinance entitled "AN ORDINANCE REPEALING AND REORDAINING PART 1 (FIRE PREVENTION CODE) OF ARTICLE 4 (FIRE PREVENTION) OF CHAPTER 8 (PUBLIC SAFETY) OF THE CODE OF THE CITY OF COLORADO SPRINGS 2001, AS AMENDED, ADOPTING THE 2009 EDITION OF THE INTERNATIONAL FIRE CODE WITH AMENDMENTS" was introduced and read at a regular meeting of the City Council of the City of Colorado Springs, held on April 12, 2011; that said ordinance was passed at a regular meeting of the City Council of said City, held on the 26th day of April, 2011, and that the same was published by title and summary, in accordance with Section 3-80 of Article III of the Charter, in the Transcript, a newspaper published and in general circulation in said City, at least ten days before its passage.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the City, this 26th day of April, 2011.

  
\_\_\_\_\_  
City Clerk