

SUMMARY: An ordinance is amending the Washoe County Code by repealing chapter 60 concerning fire prevention and protection, and by enacting a new chapter 60 containing provisions that adopt and amend international fire and wildland-urban interface codes.

BILL NO.
ORDINANCE NO.

AN ORDINANCE AMENDING THE WASHOE COUNTY CODE BY REPEALING CHAPTER 60 IN ITS ENTIRETY, AND BY ENACTING A NEW CHAPTER 60 CONCERNING FIRE, BUILDINGS, AND WILDLANDS, CONTAINING PROVISIONS OF THE FIRE AND WILDLAND- URBAN INTERFACE INTERNATIONAL CODES, AMENDMENTS TO THE SAME, AND VIOLATIONS, AND PROVIDING OTHER MATTERS PROPERLY RELATED THERETO.

THE BOARD OF COUNTY COMMISSIONERS OF THE COUNTY OF WASHOE DO ORDAIN:

SECTION 1 Chapter 60 of the Washoe County Code is hereby repealed in its entirety.

SECTION 2 The Washoe County Code is hereby amended by adding thereto a new chapter to be designated as chapter 60 and to consist of the provisions set forth in Section 3 of this ordinance.

SECTION 3

CHAPTER 60
FIRE PREVENTION AND PROTECTION

Section 100 - Adopted Codes, Definitions, Enforcement

60.100.10 Adopted Codes. The following recognized codes, copies of which are on file in the office of the county clerk, are hereby adopted by Washoe County together with the supplements, listed changes, additions and deletions as noted, all of which are incorporated herein by this reference:

1. International Fire Code ("IFC"), 2018 Edition, chapters 1 through 80 and Appendices B, C, D, F, H, and I, as amended herein.
2. International Wildland-Urban Interface Code ("IWUIC"), ~~2012~~2018 Edition, chapters 1 through 7 and Appendices A, B, and C, as amended herein.

60.100.20 Amendments to IFC-IWUIC. The IFC and IWUIC are hereby amended and changed according to the amendments set forth in this Chapter 60, including without limitation the ~~2012~~2018 Northern Nevada Fire Code Amendments as amended by the participating agencies with the support of , developed by the Northern Nevada Chapter of the International Code Council, attached hereto as Exhibit "A" and incorporated herein by this reference. This document shall be hereafter referred to as the Northern Nevada International Fire Code Amendment as depicted as Chapter 60, Washoe County Code.

600.100.30 Definition of words and terms. As used in the adopted codes and Chapter 60, inclusive, of the Washoe County Code:

1. "Adopted codes" shall mean the codes and standards listed in Section 60.100.10, as amended by this Chapter 60.

2. "Chief," "Code Official," "Fire Chief," or "Fire Code Official," shall mean the designated person, entity, or fire official.
3. "Department" shall mean the designated entity or fire district.
4. "FEMA" shall mean the Federal Emergency Management Agency.
5. "Fire Code" shall mean the county's adopted and amended version of the IFC and IWUIC.
6. "Jurisdiction" and other similar terms shall be construed to mean the unincorporated area of Washoe County, Nevada, or applicable fire protection district that has adopted Chapter 60 of the Washoe County Code, as the context requires.
7. "Municipality," "city" and other similar terms shall be construed to mean the unincorporated area of Washoe County or applicable fire protection district that has adopted Chapter 60 of the Washoe County Code, as the context requires.
8. "NAC" shall mean the Nevada Administrative Code
9. "This code" shall mean the [International Fire Code and International Wildland - Urban Interface Code and the adopted standards](#) of Washoe County.
10. "WCC" shall mean the Washoe County Code.

60.100.40 Enforcement.

1. In those areas of Washoe County that do not lie within the boundaries of an organized fire protection district, the board of county commissioners may designate, by contract or otherwise, a person or entity empowered to enforce the provisions of this code.
2. In those areas of Washoe County that lie within the boundaries of an organized fire protection district, the adopted codes shall be enforced by the designated fire official as determined by the district board.

60.100.50

IFC-~~2012~~2018, CHAPTER 1 SCOPE AND ADMINISTRATION

Amend Section 101.1 Title, to read as follows:

101.1 Title. These regulations shall be known as the *Fire Code*

~~Amend-Remove amendment and use current code language for~~ Section 102.3 Change of use or occupancy, ~~to read as follows:~~

~~**102.3 Change of use or occupancy.** No change shall be made in the use or occupancy of any structure that would place the structure in a different division of the same group or occupancy or in a different group of occupancies, unless such structure is made to comply with the requirements of this code and the *International Building Code*. Subject to the approval of the fire code official, the use or occupancy of an existing structure shall be allowed to be changed and the structure is allowed to be occupied for purposes in other groups without conforming to all the requirements of this code and the *International Building Code* for those groups, provided the new or proposed use is less hazardous, based on life and fire risk, than the existing use.~~

~~Add section to read as follows:~~

102.3.1 Business license inspection. No change shall be made in the owner of a business or in a business type within any building without an inspection from the fire code official through the business license process to assure compliance with the fire and life-safety provisions of the County and the adopted fire codes and standards.

Amend Section 102.7 Referenced codes and standards, to read as follows:

102.7 Referenced codes and standards. The codes and standards referenced in this code shall be those that are most current and are listed in Chapter 80 and such codes and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Sections 102.7.1 and 102.7.2. ~~The most current published edition of each referenced National Fire Protection Association standard shall be included.~~

Add section 102.7.3 to read as follows:

~~Amend Section 103.2 Appointment, to read as follows:~~

~~**103.2 Appointment.** The fire code official shall be appointed by the chief appointing authority of the jurisdiction.~~

~~Delete Section 103.3 Deputies.~~

Add section 105.6.51 to Section 105.6 Required Operational Permits to read as follows:

Section 105.6.51 Fire Fighter Air Replenishment Systems An operational permit is required to maintain a Fire Fighter Air Replenishment System.

Add section 105.6.52 to Section 105.6 Required Operational Permits to read as follows:

Section 105.6.52 Emergency Responder radios coverage system. An operational permit is required to for the operation and maintenance of an emergency radio coverage system and related equipment, as specified in section 510.

Add section 105.7.26 to Section 105.7 Required Construction Permits to read as follows:

Section 105.7.26 Fire Fighter Air Replenishment Systems. A construction permit is required for the installation, modification or removal from service of the Fire Fighter Air Replenishment System. The construction permit application shall include documentation of acceptance and testing plan as specified in section L103.2.

~~Delete/Revise~~ Section ~~408~~109 Board of Appeals

~~Add whole new~~Revise in its entirety section ~~408~~109 Board of Appeals ~~on Approvals and Reviews~~

109.1 General Board of appeals established. The applicant, the department, and any person or public agency who can demonstrate that the intent of this code or the rules legally adopted hereunder have been incorrectly interpreted, or the provisions of this code do not fully apply, or an equivalent method of protection or safety is proposed. ~~a direct and immediate impact caused by an action of the fire code official or the department on any application for or review of a map, permit or other such land use approval~~ may appeal as provided in this section. The appeal stops any field work involved in the matter under appeal until final resolution of the appeal. ~~., unless otherwise authorized in writing by the fire chief.~~ The request for appeal shall cite detailed reasons and be made on forms prepared by and shall be submitted to the department together with a filing fee as posted by the department. However, those appeals in matters arising out of a building or grading permit or any land use development

approval must be appealed through the department or government agency responsible for that permit or approval pursuant to its respective appeal process. All appeals made pursuant to this section, including those processed through another department or agency shall first be considered by a technical review board at no additional cost to the appellant. The board nor the technical review board shall have the authority to waive requirements of this code.

Delete 109.2 Limitation on authority and revise in its entirety to read as follows:

109.2 Technical Review Board. An interpretation of the intent of the code by the ~~decision or other action of the~~ fire code official or the department as described in Section ~~408.4~~ 109.1 may be appealed but first must be reviewed by a technical review board. The board shall be created by the fire chief as needed. The board shall examine the ~~decision or action~~ interruption of the ~~at~~ issue to determine whether it is supported by substantial evidence, is reasonable, is not arbitrary, and is within the intent and purpose of this Fire Code. The board's decision shall be made in writing and served on both parties, either by personal delivery or by a combination of posting by certified mail return receipt requested and regular mail, within 10 business days of the filing of the request for appeal. Any reasonable continuance must be agreed to in writing by the parties prior to the expiration of the 10 business days. If the decision of the technical review board is rejected by any party then the request for appeal may proceed as set forth in Section ~~408.3~~ 109.3 below. The technical review board may adopt rules of procedure for conducting its business.

Revise 109.3 Qualification to read as follows:

~~408.2.4~~ **109.3 Qualifications.** When the fire chief convenes ~~this~~ the technical review board the fire chief shall nominate three members chosen from a single list of at least 6 qualified residents of the jurisdiction. This list shall be promptly compiled by both parties. The three members must be qualified by experience and training to pass on matters pertaining to the hazards of fire, explosions, hazardous conditions or fire protection systems as specifically addressed by the fire codes ~~for the~~ at issue and shall not be employees of the jurisdiction nor related by blood or personal interest to any persons involved with the parties. The nominated board members must be approved by the chair of the jurisdiction's governing body.

109.4 Appeal. If the decision of the technical review board is rejected by any party then the request for appeal may proceed to the county board of adjustment except for appeals of those decisions or actions of the fire code official or department that do not arise out of a building or grading permit or any land use development approval but rather are confined to a fire code matter. In the case of the former, the appellant must provide written notice to the department, within 5 business days of receipt of the decision by the technical review board, of whether appellant will proceed with appeal to the board of adjustment. Appellant's failure to timely provide this notice shall constitute a withdrawal of the request for appeal. In the case of strictly fire code matters, the appellant may pursue judicial review.

109.5 Judicial Review. Any person aggrieved by the decision of the board of adjustment or the technical review board, as may be applicable pursuant to section ~~408.3~~ 109.4 above, may appeal that decision to the state district court located in Washoe County by filing a petition for judicial review within 25 calendar days after the date of the filing of notice of the decision with the Washoe County Clerk's office.

Delete Section 109 Violations

Add whole new section 109 Enforcement

~~109.1 Unlawful acts; Public nuisance.~~ It shall be unlawful, and constitute a public nuisance, for a person, firm or corporation to erect, construct, alter, repair, remove, demolish or utilize a building, occupancy, premises, outdoor area or system regulated by this code, or cause same to be done, in conflict with or in violation of any of the provisions of this code.

Add to Section 110 Violations section 110.3.1.1 to read as follows:

110.3.1.1 Notice of administrative penalty. When the fire code official finds a building, premises, building, property, vehicle, storage facility or outdoor area that is in violation of this code, the fire code official is authorized to prepare and serve a notice of administrative penalty pursuant to WCC Chapter 125 and shall select whether to enforce by criminal, civil or administrative process, or a combination thereof, as permitted under this code or WCC Chapter 125.

~~109.2 Compliance; Prosecution; Tampering.~~ The notice of administrative penalty shall be complied with by the owner, operator, occupant or other person responsible for the condition or violation to which the notice of administrative penalty pertains. Failure to promptly comply as provided in the notice of violation shall authorize the fire code official to proceed with enforcement as set forth in the notice and this code and WCC Chapter 125. Signs, tags or seals posted or affixed by the fire code official shall not be mutilated, destroyed or tampered with or removed without written authorization from the fire code official.

~~109.3 Penalties.~~ Persons who violate a provision of this code or shall fail to comply with any of the requirements thereof or who erect, install, alter, repair or do work in violation of the approved construction documents or directive of the fire code official or a permit or certificate used under provisions of this code, shall be subject to the penalties as described in the notice of administrative penalty issued pursuant to Section 109.2 above, including without limitation possible abatement, summary abatement, stop work orders or criminal conviction, fine and imprisonment. Each day that a violation continues after due notice has been served shall be deemed a separate offense.

Amend Section ~~111.4~~112.4 Failure to comply, to read as follows:

111.4 Failure to comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to possible criminal, civil or administrative penalties, or a combination thereof, as the fire code official shall determine and prosecute, to include without limitation possible abatement, summary abatement, penalties, or criminal conviction, fine and imprisonment. Each day that such work occurs in violation of the order shall be deemed a separate offense. 60.100.60

IWUIC-~~2012~~2018, CHAPTER 1 SCOPE AND ADMINISTRATION

~~Delete 103.3 re-deputies~~

Amend Section ~~109.2~~103 Enforcement Agency, ~~to~~ read as follows:

109.2103 Enforcement Agency. Enforcement shall be in accordance with International Fire Code section ~~109~~103 Department of Fire Prevention as adopted by the Authority Having Jurisdiction.

~~Delete Section 109.4 Compliance with orders and notices, including all its subsections. Add new Section 109.4 Compliance with orders and notice, to read as follows:~~

~~109.4 Compliance with orders and notices.~~ Compliance with orders and notices shall be in

~~accordance with International Fire Code Section 109 as adopted by the Authority Having Jurisdiction.~~

~~Amend Section 114.4 Failure to comply, to read as follows:~~

~~**114.4 Failure to comply.** Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to the provisions set forth in International Fire Code section 111.4 as adopted by the Authority Having Jurisdiction~~

~~[2012-2018 Northern Nevada Fire Code Amendments as amended by the participating agencies with the support of the Northern Nevada Chapter of the International Code Council attached hereto as Exhibit "A" and incorporated herein by this reference. This document shall be hereafter referred to as the Northern Nevada International Fire Code Amendment as depicted as Chapter 60, Washoe County Code. Northern Nevada Fire Amendments, developed by the Northern Nevada Chapter of the International Code Council, are attached as Exhibit "A"]~~

SECTION 4 The provisions of this ordinance shall be in full force and effect on September 24, 2013.

Proposed on the _____ day of _____, 2018

Proposed by Commissioner _____

Passed on the _____ day of _____, 2018

Vote _____

Ayes _____ Nays _____

Absent _____

Chair

Washoe County Commission

ATTEST

County Clerk

TABLE OF CONTENTS

Section		Page
102.7	Referenced codes and standards	8
105.6.51	Fire fighter air replenishment systems	8
105.7.26	Fire fighter air replenishment systems	8
202	General Definitions	8
307.4.3	Portable outdoor fireplaces	11
308.1.6.3	Sky lanterns	11
319.4.1	Fire protection for cooking equipment	11
320	Natural Gas Meter Protection	11
403.12.3.2	Training	12
505.1	Address identification	12
505.3	Directory required	12
507.3	Fire flow	12
507.5.5	Clear space around hydrants	12
508.1.6	Required features	13
510.1	Emergency responder radio coverage in new buildings	15
510.2	Emergency responder radio coverage in existing building	15
510.3	Permit required	16
704.3	Wood-burning appliance enclosures and flue shafts	16
901.4.6.2	Marking on access door	16
901.6	Inspection, testing and maintenance	16
901.6.2.3	Fire fighter air replenishment system	17
901.11	Problematic unwanted Fire Alarms	17
903.2	Where required	17
903.2.1.2	Group A-2	18
Table 903.2.1	Required Automatic Sprinklers by Fire Area, Response Time and Height for A, B, E, F, H, I, M, R1, R2, S and U Occupancies	19
Table 903.2.2	Required Automatic Sprinklers by Fire Area, Response Time and Height for Structures Designed and Constructed with the International Residential Code	21
903.2.3	Group E	22
903.3.1.1	NFPA 13 sprinkler systems	23
903.3.1.3	NFPA 13D sprinkler systems	23
903.4	Sprinkler system supervision and alarms	23
903.4.2	Alarms	24

903.4.3	Floor control valves	24
906.2	General requirements	24
907.2.9.4	Automatic smoke detection systems in Group R-4	25
907.2.9.5	Automatic smoke detection systems in Group R-3	25
907.2.10.2.1	Alternative to single- and multiple-station smoke alarms	26
907.5.2.1.1	Average sound pressure	26
910.2.2	High-piled combustible storage	26
912.5.1	Service area	26
913.4	Valve supervision	27
914.3.8	Fire fighter air replenishment systems	27
1023.9.1	Signage requirements	27
Chapter 11	Construction Requirements for Existing Buildings	28
3903.2	Prohibited occupancies	28
3903.3	Location	28
3903.5	Use of flammable and combustible liquids	28
3903.5.1	Electrical components	29
3903.6	Liquified petroleum gas	29
3903.6.1	Exhaust	29
3903.6.1.1	Installation	29
3903.6.1.2	Processes	30
3903.6.2	Electrical bonding and grounding	30
3903.6.2.1	Classified areas	30
3903.6.2.2	Interlocks	30
3903.6.2.3	Emergency power	30
3903.6.2.4	Gas detection systems	31
3903.7	Carbon dioxide extraction	31
3903.7.1	Storage and handling	31
3903.7.2	CO ₂ gas detection	31
3903.7.3	CO ₂ discharge	31
3903.8	Means of egress	31
3903.9	Signage	32
3903.9.1	Safety data sheets	32
3903.9.2	Warning signage	32
3904.4	Site inspection	32
3904.5	Change of extraction medium	33
5601.1.3	Fireworks	33

5601.1.6	Exploding targets	33
6101.1	Scope	33
APPENDIX B FIRE-FLOW REQUIREMENTS FOR BUILDINGS		34
B102	Definitions	34
B103.3	Areas without water supply systems	34
Table B105.2 Buildings other than one- and two-family dwellings		
Groups R-3 and R-4 buildings and townhouses		35
APPENDIX C FIRE HYDRANT LOCATIONS AND DISTRIBUTION		35
C102.2	Distance to a Fire Department Connection (FDC)	35
APPENDIX D FIRE APPARATUS ROADS		36
APPENDIX L REQUIREMENTS FOR FIRE FIGHTER AIR REPLENISHMENT SYSTEMS		36

EXHIBIT A

ONE

2012 International Fire Code

Section 202 Definitions.	
Section 315.4.2 Height (Outside Storage).	1
Section 507.3 Fire Flow.	3
Section 507.5.5 Clear Space Around Hydrants.	4
Section 508.1.5 Required Features.	4
Section 704.3 Fireplace Enclosures and Flue Shafts.	4
Section 901.6 Inspection Testing and Maintenance Section	5
901.6.2 Records..	6
Section 901.7 System Out of Service. Section	6
903.2 Where Required.	6
Table 903.2.1 Required Automatic Sprinklers.	6
Table 903.2.2 Required Automatic Sprinklers IRC Structures Section	7
903.2.1.2 Group A-2..	8
Section 903.2.3 Group E..	8
Section 903.3.1.1 NFPA 13 Sprinkler Systems.	9
Section 903.3.1.2 NFPA 13R Sprinkler Systems	9
Section 903.3.1.3 NFPA 130 Sprinkler Systems	9
Section 903.4 Sprinkler System Supervision and Alarms..	9
Section 903.4.2 Alarms..	10
Section 906.2 General Regulations..	10
Section 907.2.10 Group R-3 and R-4	10
Section 907.5.2.1.1 Average Sound Pressure Section	11
910.1 General (Smoke and Heat Removal) Section	11
910.3.2.2 Sprinklered Buildings.	12
Section 912.4.1 Service Area . Section	12
913.4 Valve Supervision. Section 914.3	12
High-rise Buildings.	12
Table 1016.2 Exit Access Travel Distance	13
Section 1016.4 Group F-1 and S-1 Increase.	14
Chapter 11 Construction Requirements for Existing Buildings..	15
Section 2809.1 General (Exterior Storage).	15
Section 2809.2 Size of Piles..	15
Section 5601.1.3 Fireworks Section	15
5601.1.6 Exploding Targets Section	15
6101.1 Scope.	15
Section B105.2 Buildings Other Than One and Two Family Dwellings	16

PART TWO

2012 International Wildland Urban Interface Code

Section 101.2 Scope.	
Section 106 Appeals.	
Section 302.3 Review of Wildland Urban Interface Areas	17
Section 501.2 Objective..	17
Section 502.1 General (Fire Hazard Severity)	17
Section 504.2 Roof Covering..	18
Section 504.7.1 Underfloor Areas	18
Section 504.10.1 Vent Location Section	18
505.10.1 Vent Location.	18

PART ONE

2012-2018 International Fire Code

Section 202 Definitions.

Amend Section 202 Definitions to read as follows:

~~IDGH~~**[BG] HIGH-RISE BUILDING.** A building with an occupied floor located more than 55 feet (16 764 mm) above the lowest level of fire department vehicle access.
~~above the lowest level of fire department vehicle access.~~

Occupancy Classification

[BG] Institutional Group I-1. Institutional Group I-1 occupancy shall include buildings, structures, or portions thereof for more than 16 persons, excluding staff, who reside on a 24-hour basis in a supervised environment and receive custodial care. All portions of a care facility which houses patients or residents which is classified by the State Board of Health as "Category 2," and which has an occupant load of more than 10 residents, is classified as a "I-1" occupancy classification. Buildings of Group I-1 shall be classified as one of the occupancy conditions listed below. This group shall include, but not be limited to, the following:

- Alcohol and Drug Centers
- Assisted living facilities
- Congregate care facilities
- Group homes
- Halfway houses
- Residential board and care facilities
- Residential board and custodial care facilities
- Social rehabilitation facilities

[BG] Condition 1. This occupancy condition shall include buildings in which all persons receiving custodial care who, without any assistance, are capable of responding to an emergency to complete building evacuation.

[BG] Condition 2. This occupancy shall include buildings in which there are any persons requiring custodial care who require limited verbal or physical assistance while responding to an emergency situation to complete building evacuation.

[BG] Six to 16 persons receiving custodial care. A facility housing not fewer than six and not more than 16 persons receiving custodial care shall be classified as group R-4.

[BG] Five or fewer persons receiving custodial care. A facility with five or fewer persons receiving custodial care shall be classified as Group R-3 or shall comply with the *International Residential Code* provided an *automatic sprinkler system* is installed in accordance with Section 903.3.1.3 or Section P2904 of the *International Residential Code*.

~~**Institutional Group I-1.** This occupancy shall include buildings, structures or parts thereof for more than 16 persons who reside on a 24-hour basis in a supervised environment and receive custodial care. The persons receiving care are capable of self preservation. All portions of a care facility which houses patients~~

~~or residents which is classified by the State Board of Health as 'Category 2,' and which has an occupant load of more than 10 residents, is classified as an 'I-I' occupancy classification. This group shall include, but not be limited to, the following:~~

~~Alcohol and drug centers
Assisted living facilities
Congregate care facilities
Convalescent facilities
Group homes
Half-way houses
Residential board and custodial care facilities
Social rehabilitation facilities~~

~~**Five or fewer persons receiving care.** A facility such as the above with five or fewer persons receiving such care shall be classified as Group R-3 or shall comply with the *International Residential Code* provided an automatic sprinkler system is installed in accordance with Section 903.3.1.3 or *International Residential Code* Section P2904.~~

~~**Six to sixteen persons receiving care.** A facility such as above, housing at least six and not more than 16 persons receiving such care, shall be classified as Group R-4.~~

Occupational Classification [BG] Group I-4, day care facilities. Institutional Group I-4 shall include buildings and structures occupied by more than ~~five~~ six persons of any age who receive custodial care for less than 24 hours by persons other than parents or guardians, relatives by blood, marriage, or adoption, and in a place other than the home of the person cared for. This group shall include, but not be limited to, the following:

Adult day care
Child day care.

~~**Institutional Group 1-4, day care facilities.** This group shall include buildings and structures occupied by more than six persons of any age who receive custodial care for less than 24 hours by persons other than parents or guardians, relatives by blood, marriage, or adoption, and in a place other than the home of the person cared for. This group shall include, but not be limited to, the following:~~

~~Adult day care Child day care~~

[BG] Classification as Group E. A child day care facility that provides care for more than ~~five~~ six but no more than 100 children 21/2 years or less of age, where the rooms in which the children are cared for are located on a *level of exit discharge* serving such rooms and each of these child care rooms has an *exit* door directly to the exterior, shall be classified as Group E.

[BG] Within a place of religious worship. Rooms and spaces within places of religious worship providing such care during religious functions shall be classified as part of the primary occupancy.

[BG] Five Six or fewer occupants receiving care. A facility having ~~five~~ six or fewer persons receiving custodial care shall be classified as part of the primary occupancy.

[BG] Five Six or fewer occupants receiving care in a dwelling unit. A facility such as the above within a dwelling unit and having ~~five~~ six or fewer persons receiving custodial care shall be classified as a Group R-3 occupancy or shall comply with the *International Residential Code*.

~~**Classification as Group E.** A child day care facility that provides care for more than six but no more than 100 children 21/2 years or less of age, where the rooms in which the children are cared for are~~

~~located on a level of exit discharge serving such rooms and each of these child care rooms has an exit door directly to the exterior, shall be classified as Group E.~~

~~**Within a place of religious worship.** Rooms and spaces within places of religious worship providing such care during religious functions shall be classified as part of the primary occupancy.~~

~~**Five or fewer occupants receiving care.** A facility having six or fewer persons receiving custodial care shall be classified as part of the primary occupancy.~~

~~**Five or fewer occupants receiving care in a dwelling unit.** A facility such as the above within a dwelling unit and having six or fewer persons receiving custodial care shall be classified as a Group R-3 occupancy or shall comply with the *International Residential Code*.~~

~~**Residential Group R-1.** Residential occupancies containing sleeping units where the occupants are primarily transient in nature, including:~~ **[BG] Residential Group R-1.** Residential Group R-1 occupancies containing *sleeping units* where the occupants are primarily transient in nature, including:

Boarding houses (transient) with more than 10 occupants

Brothels

Congregate living facilities (transient) with more than 10 occupants

Hotels (transient)

Motels (transient)

[BG] Residential Group R-3. Residential Group R-3 occupancies where the occupants are primarily permanent in nature and not classified as Group R-1, R-2, R-4 or I, including:

Buildings that do not contain more than two dwelling units

Care facilities that provide accommodations for five 6 or fewer persons receiving care

Congregate living facilities (nontransient) with 16 or fewer occupants

Boarding houses (nontransient)

Convents

Dormitories

Fraternities and sororities

Monasteries

Congregate living facilities (transient) with 10 or fewer occupants

Boarding houses (transient)

Lodging houses (transient) with five or fewer guestrooms and 10 or fewer occupants.

~~*Boarding houses (transient) with more than 10 occupants*~~ ~~Brothels~~

~~Congregate living facilities (transient) with more than 10 occupants~~ ~~Hotels (transient)~~

~~Motels (transient)~~

~~**Residential Group R-3.** Residential occupancies where the occupants are primarily permanent in nature and not classified as Group R-1, R-2, R-4 or I, including:~~

~~Boarding houses (nontransient) with 16 or fewer occupants~~ ~~Boarding houses (transient) with 10 or fewer occupants~~ ~~Buildings that do not contain more than two dwelling units~~

~~Care facilities that provide accommodations for six or fewer persons receiving care~~ ~~Congregate living facilities (nontransient) with 16 or fewer occupants~~

~~Congregate living facilities (transient) with 10 or fewer occupants~~

UNWANTED ALARM. Any alarm that occurs that is not the result of a potentially hazardous condition. ~~**Moderate-hazard storage, Group S-1.** Buildings occupied for storage uses that are not classified as Group S-2, including, but not limited to, storage of the following:~~

~~Aerosols, Levels 2 and 3~~

~~Aircraft hangar (storage and repair) Bags: cloth, burlap and paper Bamboos and rattan~~

~~Baskets~~

~~Belting: canvas and leather Books and paper in rolls or packs Boots and shoes~~

~~Buttons, including cloth covered, pearl or bone Cardboard and cardboard boxes~~

~~Clothing, woolen-wearing apparel Cordage~~

~~Furniture Furs~~

~~Glues, mucilage, pastes and size Grains~~

~~Horns and combs, other than celluloid Leather~~

~~Linoleum Lumber~~

~~Motor vehicle repair garages complying with the maximum allowable quantities of hazardous materials~~

~~listed in Table 5003.1.1(1) (see Section 406.8 of the *International Building Code*)~~

~~Photo engravings Resilient flooring~~

~~Self-serve storage (mini-storage) Silks~~

~~Soaps Sugar~~

~~Tires, bulk storage of~~

~~Tobacco, cigars, cigarettes and snuff Upholstery and mattresses~~

~~Wax candles~~

~~**Low-hazard storage, Group S-2.** Includes, among others, buildings used for the storage of noncombustible materials such as products on wood pallets or in paper cartons with or without single thickness divisions; or in paper wrappings. Such products are permitted to have a negligible amount of plastic trim, such as knobs, handles or film wrapping. Storage uses shall include, but not be limited to, storage of the following:~~

~~Asbestos~~

~~Beverages up to and including 16-percent alcohol in metal, glass or ceramic containers Cement in bags~~

~~Chalk and crayons~~

~~Dairy products in nonwaxed-coated paper containers Dry boat storage (indoor)~~

~~Dry cell batteries Electrical coils Electrical motors Empty cans Food products~~

~~Foods in noncombustible containers~~

~~Fresh fruits and vegetables in nonplastic trays or containers Frozen foods~~

~~Glass~~

~~Glass bottles, empty or filled with noncombustible liquids Gypsum board~~

~~Inert pigments Ivory~~

~~Meats~~

~~Metal cabinets~~

~~Metal desks with plastic tops and trim Metal parts~~

~~Metals Mirrors~~

~~Oil-filled and other types of distribution transformers Parking garages, open or enclosed~~

~~Porcelain and pottery Stoves~~

~~Talc and soapstones Washers and dryers~~

Section 307.4.3 Portable outdoor fireplaces

Section 307.4.3, of Section 307.4 Location, is amended to read:

307.4.3 Portable outdoor fireplaces. Portable outdoor fireplaces shall be listed for use and used in accordance with manufacturer's instructions and shall not be operated within 15 feet (3048 mm) of a structure or combustible material.

~~Exception: Portable outdoor fireplaces used in one- and two-family dwellings.~~

Section 308.1.6.3 Sky lanterns

Section 308.1.6.3, of Section 308.1.6 Open-flame devices, is amended to read:

308.1.6.3 Sky lanterns. A person shall not release or cause to be released an untethered sky lantern. Sky lanterns are prohibited.

Section 315.4.2 Height (Outside Storage)Outside storage.

Add new subsection 315.4.3 to section 315.4: Revise section 315.4 to read as follows:

315.4 Outside storage. Outside storage of combustible materials shall not be located within 10 feet (3048 mm) of a lot line or vegetation.

Exceptions:

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

~~2.1. _____~~ The separation distance is allowed to be reduced when the fire code official determines that no hazard to the adjoining property exists.

~~**315.4.1 Storage beneath overhead projections from buildings.** Where buildings are protected by automatic sprinklers, the outdoor storage, display and handling of combustible materials under eaves, canopies or other projections or overhangs is prohibited except where automatic sprinklers are installed under such eaves, canopies or other projections or overhangs.~~

~~**315.4.2 Height.** Storage in the open shall not exceed 20 (6096 mm) in height.~~

Revise section 315.7.2 Distance to lot line to read as follows:

315.7.2 Distance to lot line. Pallet and firewood storage shall not be located within 10 feet of a lot line or vegetation.

Revise section 315.7.3 Storage Height to read as follows:

315.7.3 Storage Height Pallets and FirewoodPallets and Firewood. In Carson City, North Lake Tahoe Fire Protection District, City of Reno, City of Sparks, Sierra Fire Protection District, Tahoe Douglas Fire Protection District and Truckee Meadows Fire Protection District ~~the~~ the storage height for scrap pallets and all firewood shall be a maximum height of 10 feet (3048 mm) and such materials shall be stored and secured in a manner to assure stability and prevent the materials from slipping, sliding, toppling, collapsing, or falling.

Revise section 319.4.1 of section 319.4 Fire Protection is amended to read as follows:

Section 319.4.1 Fire protection for cooking equipment

Section 319.4.1, of Section 319.4 Fire protection, is amended to read:

319.4.1 Fire protection for cooking equipment. Cooking equipment shall be protected by automatic fire extinguishing systems in accordance with ~~Section~~ Sections 607.2 and 904.12.

Section 320 Natural Gas Meter Protection and Section 320.1 General area added to read as follows:

Section 320 Natural Gas Meter Protection

Section 320 Natural Gas Meter Protection and Section 320.1 General are added to read as follows:

320 Natural Gas Meter Protection

320.1 General. A protective cover shall be provided over natural gas meter assemblies serving buildings, or portions thereof, located at an elevation of 5,800 feet (1767.48 m) or higher. The protective cover shall be designed to be equal to or greater than the Building Design Load (as determined by the Building Department having jurisdiction). The cover shall be approved by the natural gas supplier, shall be installed over the meter assembly, and securely supported to the ground or diagonally to the building wall. When supported to the ground, the footing of the supports shall extend a minimum of 6-inches (152.4 mm) below finished grade. Pre-cast concrete piers may be used in lieu of poured footings, provided they are placed on stable soil.

Section 403.12.3.2 Training

Section 403.12.3.2, of Section 403.12.3 Crowd managers, is amended to read as follows:

403.12.3.2 Training. Training for crowd managers shall be in compliance with the latest International Code Council or National Fire Protection Associations standards or guidelines ~~approved.~~

Section 505.1 Address Identification

Section 505.1 is amended to read:

505.1 Address identification. New and existing buildings shall be provided with approved maintained all-weather address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property during all hours of the day and night. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetic letters. Numbers shall not be spelled out. Each character shall be not less ~~than 4 inches (102 mm) high with a minimum stroke width of 1/2 inch (12.7 mm)~~ than a nominal height of 6-inches with a minimum 1/2-inch stroke for residential occupancies and 12-inches with a 1-inch stroke in commercial occupancies, unless otherwise approved by the fire code official. Where required by fire code official, address identification shall be provided in additional approved locations to facilitate emergency response. Where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole, or other sign or means shall be used to identify the structure. Address identification shall be maintained.

Section 507.3 Fire Flow

Section 507.3 is amended to read:

507.3 Fire flow. Fire flow requirements for buildings or portions of building and facilities shall be determined by an approved method.

Subject to the approval of the fire authority, if the required fire flow is not available for adequate fire protection, an automatic fire sprinkler system shall be installed throughout the building or buildings. The sprinkler system must meet the requirements of the appropriate N.F.P.A. standard. The provisions of this paragraph do not apply if a fire sprinkler system is otherwise required by this chapter or the adopted codes.

~~Section 507.3 Fire Flow~~

Amend section 507.3 to read as follows:

507.3 Fire flow. Fire flow requirements for buildings or portions of buildings and facilities shall be determined by an approved method.

Subject to the approval of the fire authority, if the required fire flow is not available for adequate fire protection, an approved automatic fire sprinkler system shall be installed throughout the building or buildings. The sprinkler system must meet the requirements of the appropriate N.F.P.A. standard. The provisions of this paragraph do not apply if a fire sprinkler system is otherwise required by this chapter or the adopted codes.

Section 507.5.5 Clear space around hydrants

Section 507.5.5 in Section 507.5 Fire hydrants is amended to read:

507.5.5 Clear space around hydrants. A 3-foot (914 mm) clear space shall be maintained around the circumference of fire hydrants, except as otherwise required or approved. In addition, a minimum clear space of seven and one-half feet (2286 mm) shall be maintained to both sides directly in front of the front pumper connection. In the North Lake Tahoe Fire Protection District, a minimum of four feet (1219 mm) shall also be maintained clear to the rear of any fire hydrant. These clearance requirements shall apply to any public or private property.

Section 507.5.5 Clear Space Around Hydrants

Amend section 507.5.5 To read as follows:

507.5.5 Clear space around hydrants. A 3-foot (914 mm) clear space shall be maintained around the circumference of fire hydrants, except as otherwise required or approved. In addition, a minimum clear space of seven and one-half feet (2286 mm) shall be maintained to both sides directly in front of the front pumper connection. This requirement shall apply to any public or private property.

In North Lake Tahoe Fire Protection District and Tahoe Douglas Fire Protection District a minimum of fifteen-foot (4572 mm) clear space shall be maintained to the front; seven and one-half feet (2286 mm) to both sides; and four feet (1219 mm) to the rear of any fire hydrant. This requirement shall apply to any public or private property.

Section 508.1.6 Required features

Section 508.1.6 of Section 508.1 General is amended to read:

508.1.6 Required features. The fire command center shall comply with NFPA 72 and shall contain the following features:

1. The emergency voice/alarm communication system control unit.
2. The fire department communications system.
3. Fire detection and alarm system annunciator.
4. Annunciator unit visually indicating the location of the elevators and whether they are operational.
5. Status indicators and controls for the air distribution systems.
6. The fire fighter's control panel required by Section 909.16 for smoke control systems installed in the building.
7. Controls for unlocking interior exit stairway doors simultaneously.

- 8.- Sprinkler valve and water-flow detector display panels.
- 9.- Emergency and standby power status indicators.
- 10.- A telephone for fire department used with controlled access to the public telephone system.
- 11.- Fire pump status indicators.
- 12.- Schematic building plans indicating the typical floor plan and detailing the building core, *means of egress, fire protection systems*, fire-fighter air-replenishment systems, fire-fighting equipment and fire department access, and the location of *fire walls, fire barriers, fire partitions, smoke barriers* and smoke partitions.
- 13.- An *approved* Building Information Card that includes, but is not limited to, all of the following information:
 - 13.1.- General building information that includes: the number of floors in the building above and below grade, use, and occupancy classification (for mixed uses, identify the different types of occupancies on each floor) and the estimated building population during the day, night, and weekend;
 - 13.2.- Building emergency contact information that includes: a list of the building's emergency contacts including, but not limited to, building manager, building engineer and their respective work phone number, cell phone number and e-mail address;
 - 13.3.- Building construction information that includes: type of building construction including but not limited to floors, walls, columns and roof assembly;
 - 13.4.- *Exit access stairway* and *exit stairway* information that includes: number of *exit access stairways* and *exit stairways* in building; each *exit access stairway* and *exit stairway* designation and floors served; location where each *exit access stairway* and *exit stairway* discharges, *interior exit stairways* that are pressurized; *exit stairways* that are provided with emergency lighting; each *exit stairway* that allows reentry; *exit stairways* providing roof access; elevator information that includes: number of elevator banks, elevator bank designation, elevator car numbers and respective floors that they serve; location of elevator machine rooms, control rooms, and control spaces; location of sky lobby; and location of freight elevator banks;
 - 13.5.- Building Services and system information that includes: location of mechanical rooms, location of building management system, location and capacity of all fuel oil tanks, location of emergency generator and locations of natural gas service.
 - 13.6.- *Fire protection system* information that includes: location of standpipes, location of fire pump room, location of fire department connections, floors protected by automatic sprinklers and location of different types of *automatic sprinkler systems* installed including but not limited to dry, wet, and pre-action;
 - 13.7.- Hazardous material information that includes: location and quantity of hazardous material;
- 14.- Work table.
- 15.- Generator supervision devices, manual start and transfer features.
- 16.- Public address system, where specifically required by other sections of this code.
- 17.- Elevator fire recall switch in accordance with ASME A17.1/CSA B44.
- 18.- Elevator emergency or standby power selector switch(es), where emergency or standby power is provided.
- 19.- HVAC. The central control station shall be provided with heating, cooling, and ventilation (HVAC) systems that are independent of any other building system or area. HVAC for the central control station shall be connected to the emergency power system.
- 20.- Lighting. Lighting shall provide adequate illumination and shall be on emergency service with additional battery backup emergency lighting.
- 21.- Inside Telephone Line. A telephone connected to the premise's telephone exchange shall be provided. A current premise's telephone directory shall be placed next to this telephone.
- 22.- Disconnect. The main switch for disconnecting the utility power and any alternate power sources shall be in the fire command center. Switches shall be covered to prevent utility power feeds and any

alternate power sources before entering the building. After the switch is operated, no live electrical panels, conductors, or feeds within the premises shall remain energized excluding the emergency electrical circuits.

Section 508.1.5 Required Features

Amend section 508.1.5 to read as follows:

508.1.5 Required features. ~~The fire command center shall comply with NFPA 72 and shall contain the following features:~~

- ~~1. The emergency voice/alarm communication system control unit.~~
- ~~2. The fire department communications system.~~
- ~~3. Fire detection and alarm system annunciator.~~
- ~~4. Annunciator unit visually indicating the location of the elevators and whether they are operational.~~
- ~~5. Status indicators and controls for air distribution systems.~~
- ~~6. The fire fighter's control panel required by Section 909.16 for smoke control systems installed in the building.~~
- ~~7. Controls for unlocking stairway doors simultaneously.~~
- ~~8. Sprinkler valve and water flow detector display panels.~~
- ~~9. Emergency and standby power status indicators.~~
- ~~10. A telephone for fire department use with controlled access to the public telephone system.~~
- ~~11. Fire pump status indicators.~~
- ~~12. Schematic building plans indicating the typical floor plan and detailing the building core, means of egress, fire protection systems, fire-fighting equipment and fire department access, and the location of fire walls, fire barriers, fire partitions, smoke barriers and smoke partitions.~~
- ~~13. An approved Building Information Card that contains, but is not limited to, the following information:~~
 - ~~13.1. General building information that includes: property name, address, the number of floors in the building (above and below grade), use and occupancy classification (for mixed uses, identify the different types of occupancies on each floor), estimated building population (i.e., day, night, weekend);~~
 - ~~13.2. Building emergency contact information that includes: a list of the building's emergency contacts (e.g., building manager, building engineer, etc.) and their respective work phone number, cell phone number, and e-mail address;~~
 - ~~13.3. Building construction information that includes: the type of building construction (e.g., floors, walls, columns, and roof assembly);~~
 - ~~13.4. Exit stair information that includes: number of exit stairs in the building, each exit stair designation and floors served, location where each exit stair discharges, exit stairs that are pressurized, exit stairs provided with emergency lighting, each exit stair that allows reentry, exit stairs providing roof access; elevator information that includes: number of elevator banks, elevator bank designation, elevator car numbers and respective floors that they serve, location of elevator machine rooms, location of sky lobby, location of freight elevator banks;~~
 - ~~13.5. Building services and system information that includes: location of mechanical rooms, location of building management system, location and capacity of all fuel oil tanks, location of emergency generator, location of natural gas service;~~
 - ~~13.6. Fire protection system information that includes: locations of standpipes, location of fire pump room, location of fire department connections, floors protected by automatic sprinklers, location of different types of automatic sprinkler systems installed (e.g., dry, wet, pre-action, etc.); and~~
 - ~~13.7. Hazardous material information that includes: location of hazardous material, quantity of hazardous material.~~
- ~~14. Work table.~~
- ~~15. Generator supervision devices, manual start and transfer features.~~

16. ~~Public address system, where specifically required by other sections of this code.~~
17. ~~Elevator fire recall switch in accordance with ASME A17.1.~~
18. ~~Elevator emergency or standby power selector switch(es), where emergency or standby power is provided.~~
19. ~~HVAC. The central control station shall be provided with heating, cooling, and ventilation (HVAC) systems that are independent of any other building system or area. HVAC for the central control station shall be connected to the emergency power system.~~
20. ~~Lighting. Lighting shall provide adequate illumination and shall be on emergency service with additional battery back-up emergency lighting.~~
21. ~~Inside Telephone Line. A telephone connected to the premise's telephone exchange shall be provided. A current premise's telephone directory shall be placed next to this telephone.~~
22. ~~Disconnect. The main switch for disconnecting the utility power and any alternate power sources shall be in the rrrre command center. Switches shall be covered to prevent accidental activation. Break glass activation is not permitted. Switches shall interrupt the public utility power feeds and any alternate power sources before entering the building. After the switch is operated, no live electrical panels, conductors, or feeds within the premises shall remain energized excluding the emergency electrical circuits.~~

Section 510.1 Emergency responder radio coverage in new buildings

Section 510.1 is amended to read:

510.1 Emergency responder radio coverage in new buildings. ~~New buildings shall have approved radio coverage for emergency responders within the building based on the existing coverage levels of the public safety communication systems utilized by the jurisdiction, measured at the exterior of the building. This section shall not require improvement of the existing public safety communication systems.~~ An emergency responder radio coverage system shall be provided throughout buildings when any of the following apply:

- 1.- **High-rise buildings.** Buildings with a floor used for human occupancy located more than 55 feet above the lowest level of fire department vehicle access.
- 2.- **Underground and below grade buildings.** Buildings having a floor level below the finished floor of the lowest level of exit discharge of any level.
- 3.- **Other buildings.** The fire code official is authorized to require a technical opinion and report, in accordance with Section 104.7.2, for buildings whose design, due to location, size, construction type, or other factors, could impede radio coverage as required by Section 510.4.1. The report shall make a recommendation regarding the need for an emergency responder radio coverage system.

Exceptions:

- ~~Where approved by the building official and fire official a wired communication system in accordance with Section 907.2.12.2 shall be permitted to be installed and maintained instead of an approved radio coverage system.~~
- ~~Where it is determined by the fire code official that the radio coverage is not needed.~~
- ~~In facilities where emergency responder radio coverage is required, and such systems, components or equipment required could have a negative impact on the normal operations of that facility, the fire code official shall have the authority to accept an automatically activated~~

Section 510.2 Emergency responder radio coverage in existing buildings

Section 510.2 is amended to read:

510.2 Emergency responder radio coverage in existing buildings. Existing buildings ~~shall be provided with approved radio coverage for emergency coverage as required in chapter 11, other than Group R-3,~~

which do not have approved radio coverage for emergency responders in the building based on existing coverage levels of the public safety communications systems, shall be equipped with such coverage according to one of the following conditions:

1. Existing buildings that do not have approved radio coverage, as determined by the Fire Chief, in accordance with Section 510.4.1.
2. Where an existing wired communication system cannot be repaired or is being replaced.
3. Within a time frame established by the adopting authority.

Exception: Where it is determined by the fire code official that the radio coverage is not needed.

Section 510.3 Permit required

Section 510.3 is amended to read:

510.3 Permits Required. Permits shall be required to install, modify and operate an emergency radio coverage system and related equipment, as follows:

1. A construction permit for the installation of or modifications to emergency radio coverage systems and related equipment is required as specified in Section 105.7.6. Maintenance performed in accordance with this code is not considered a modification and does not require a permit.
2. An operational permit is required for the operation and maintenance of an emergency radio coverage system and related equipment as specified in Section 105.6.52.

Section 704.3 Wood-burning appliance enclosures and flue shafts

Section 704.3 is added to Section 704 JOINTS AND VOIDS, and reads:

704.3 Wood-burning appliance enclosures and flue shafts. In North Lake Tahoe Fire Protection District and Tahoe Douglas Fire Protection District, the interior of any firewood-burning fireplace enclosure and flue shaft constructed of combustible framing materials shall be completely lined with taped 5/8" type "X" drywall.
Section 704.3 Fireplace Enclosures and Flue Shafts

Add new section 704.3 to 704:

~~**704.3 Fireplace enclosures and flue shafts.** In North Lake Tahoe Fire Protection District the interior of any firewood-burning fireplace enclosure and flue shaft constructed of combustible framing materials shall be completely lined with taped 5/8" type "X" drywall.~~

Section 901.4.6.2 Marking on access door

Section 901.4.6.2 is amended to read:

901.4.6.2 Marking on access door. Access doors for automatic sprinkler system riser rooms, any room with an automatic sprinkler system riser(s) located within; and fire pump rooms shall be labeled with a maintained approved all-weather sign. The lettering shall be in contrasting color to the background. Letters shall have a minimum height of 2 inches (51 mm) with a minimum stroke of 3/8 inch (10 mm).

Section 901.6 Inspection, testing and maintenance

Section 901.6 is amended to read:

901.6 Inspection, testing and maintenance. Fire detection and alarm systems, emergency alarm systems, gas detection systems, fire-extinguishing systems, mechanical smoke exhaust systems and smoke and heat vents, and commercial kitchen hood ventilation systems shall be maintained in an operative condition at all times and shall be replaced or repaired where defective. Non-required *fire protection systems* and equipment shall be inspected, tested and maintained or removed. Air systems for fire-suppression breathing apparatus shall be maintained at the same frequency as other high-rise life safety systems.

Section 901.6 Inspection, Testing and Maintenance

Amend section 901.6 to read as follows:

~~**901.6** **Inspection, testing and maintenance.** Fire detection, alarm, and extinguishing systems, mechanical smoke exhaust systems, smoke and heat vents and commercial kitchen hood ventilation systems shall be maintained in an operative condition at all times, and shall be replaced or repaired where defective. Nonrequired *fire protection systems* and equipment shall be inspected, tested and maintained or removed. Air systems for fire suppression breathing apparatus shall be maintained at the same frequency as other high-rise life safety systems.~~

~~Section 901.6.2 Records~~

Amend section 901.6.2 to read as follows:

~~**901.6.2** **Records.** Records of all system inspections, tests and maintenance required by the referenced standards shall be maintained on the premises for a minimum of three years and shall be copied to the fire code official upon request.~~

~~**901.6.2.1** **Records information.** Initial records shall include the name of the installation contractor, type of components installed, manufacturer of the components, location and number of components installed per floor. Records shall also include the manufacturers' operation and maintenance instruction manuals. Such records shall be maintained on the premises.~~

~~**901.6.2.2** Fire suppression breathing apparatus air system procedures, maintenance and report records shall be approved by the fire code official. Inspection records shall be kept on-site.~~

Section 901.6.2.3 Fire fighter air replenishment system

Section 901.6.2.3 is added to Section 901.6.2 Integrated testing, to read:

Section 901.6.2.3 Fire fighter air replenishment system. Fire suppression breathing apparatus air system procedures, maintenance and report records shall be approved by the fire code official. Inspection records shall be kept on-site.

Section 901.7 System Out of Service

Amend section 901.7 to read as follows:

901.7 Systems out of service. Where a required *fire protection system* including air systems for fire suppression breathing apparatus is out of service, the fire department and the *fire code official* shall be notified immediately and, where required by the *fire code official*, the building shall either be evacuated or an *approved* fire watch shall be provided for all occupants left unprotected by the shutdown until the *fire protection system* has been returned to service. In the event that the service/maintenance contract for any fire protection system, including air systems for fire suppression breathing apparatus is canceled or not

renewed, the fire code official shall be notified by the service/maintenance contractor within 24 hours.

Where utilized, fire watches shall be provided with at least one *approved* means for notification of the fire department and their only duty shall be to perform constant patrols of the protected premises and keep watch for fires. Fire watch personnel shall provide documentation of the fire watch patrols of the facility that shall include start and end times, areas monitored, any actions taken ... and shall submit such to the authority having jurisdiction. Fire watch personnel shall have no other duty and shall be able to demonstrate the knowledge and ability to keep watch for risk of fire.

Section 901.11 Problematic unwanted fire alarms

Section 901.11 is added to Section 901 GENERAL, to read:

901.11 Problematic unwanted fire alarms. Problematic unwanted fire alarms are a violation of this code. When a fire alarm system is required by this code, it shall be the responsibility of the property owner or owner's authorized agent to maintain the system and properly educate occupants, tenants, and/or employees in accepted behavioral practices that will minimize or eliminate false and/or nuisance alarms. This includes nuisance activations in response to predictable environmental stimuli such as but not limited to cooking fumes, smoking, and construction activities. Where unwanted alarms become repetitive, the fire code official is authorized to charge fees or issue administrative citations to the property owner in accordance with the fee schedule or administrative code as established by the applicable governing authority.

Section 903.2 Where required

Section 903.2 is amended to read:

903.2 Where required. Approved automatic sprinkler systems in new buildings and structures shall be provided in locations described in Sections 903.2.1 through 903.2.12, and Tables 903.2.1 and 903.2.2.

Exception: Spaces or areas in telecommunications buildings used exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries and standby engines, provided those spaces or areas are equipped throughout with an automatic smoke detection system in accordance with Section 907.2 and are separated from the remainder of the building by not less than 1-hour fire barriers constructed in accordance with Section 707 of the International Building Code or not less than 2-hour horizontal assemblies constructed in accordance with Section 711 of the International Building Code, or both.

~~Section 903.2 Where Required~~

~~Amend section 903.2 to read as follows:~~

~~**903.2 Where required.** Approved automatic sprinkler systems in new buildings and structures shall be provided in the locations described in Sections 903.2.1 through 903.2.12, Table 903.2.1 and Table 903.2.2.~~

~~**Exception:** Spaces or areas in telecommunications buildings used exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries and standby engines, provided those spaces or areas are equipped throughout with an automatic smoke detection system in accordance with Section 907.2 and are separated from the remainder of the building by not less than 1-hour fire barriers constructed in accordance with Section 707 of the International Building Code or not less than 2-hour horizontal assemblies constructed in accordance with Section 711 of the International Building Code, or both.~~

Section 903.2.1.2 Group A-2

Section 903.2.1.2 is amended to read:

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

1. The fire area exceeds 5,000 square feet (464 m2).
2. The fire area has an occupant load of 100 or more.
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies.

Occupancies containing a casino, regardless of occupancy classification, must be designed and built with a sprinkler system classified as an Ordinary Hazard Group 2.

Table 903.2.1 Required Automatic Sprinklers by Fire Area, Response Time and Height for Structures Designed and Constructed with the International Building Code Including A, B, E, F, H, I, M, S and U Occupancies

Add Table 903.2.1 to Section 903.2, to read:

TABLE 903.2.1^a

Required Automatic Sprinklers by Fire Area, Response Time and Height

For Buildings Designed and Constructed with the International Building Code Including A, B, E, F, H, I, M, R1, R2, S and U Occupancies

Sprinklers are required when any one of the listed conditions are met, or when otherwise required by this Code

<u>Fire Authority</u>	<u>Fire Area ^{b,c} In square feet (sf)</u>	<u>Height ^d In stories</u>	<u>Response Time In minutes (min)</u>
<u>Carson City Fire Department</u>	<u>> 5,000 ^e</u>	<u>>2</u>	<u>NA</u>
<u>Central Lyon County Fire Protection District</u>	<u>> 5000</u>	<u>> 2</u>	<u>:</u>
<u>East Fork Fire Protection District</u>	<u>>5,000</u>	<u>>2</u>	<u>NA</u>
<u>Elko City Fire Department</u>	<u>> 5,000</u>	<u>> 2</u>	<u>:</u>
<u>North Lake Tahoe Fire Protection District</u>	<u>>5,000</u>	<u>2 with basement or >2</u>	<u>NA</u>
<u>North Lyon Fire Protection District</u>	<u>>5,000</u>	<u>>2</u>	<u>NA</u>
<u>Reno Fire Department</u>	<u>>5,000</u>	<u>>2</u>	<u>NA</u>

<u>Smith Valley Fire Protection District</u>	<u>> 5,000</u>	<u>≥2</u>	<u>NA</u>
<u>Sparks Fire Department</u>	<u>>5,000</u>	<u>≥2</u>	<u>≥6</u>
<u>Storey County Community Development District</u>	<u>>5,000</u>	<u>2 with basement or ≥2</u>	<u>NA</u>
<u>Tahoe Douglas Fire Protection District</u>	<u>All</u>	<u>NA</u>	<u>NA</u>
<u>Truckee Meadows Fire Protection District</u>	<u>>5,000</u>	<u>≥2</u>	<u>NA</u>

- a. This table is in addition to any other automatic sprinkler requirements in this code.
b. Fire areas may be separated according to IBC 707.3.10.
c. Any addition or remodel that increases the fire area will be included in the calculation for the total square footage.
d. Airport towers and open parking garages complying with IBC 406.5 are exempt from this table.
e. A one-time increase in the fire area is permitted provided said increase is < 50% of the structure's existing permitted fire area square footage.

Table 903.2.2 Required Automatic Sprinklers by Fire Area, Response Time, and Height for Structures Designed and Constructed with the International Residential Code

Add Table 903.2.2 to Section 903.2. to read as follows:

TABLE 903.2.2^{aef}

Required Automatic Sprinklers by Fire Area, Response Time and Height

For Structures Designed and Constructed with the International Residential Code

**Sprinklers are required when any one of the listed conditions are met,
or when otherwise required by this Code**

<u>Fire Authority</u>	<u>Fire Area^b In square feet (sf)</u>	<u>Height In stories</u>	<u>Response Time In minutes (min)</u>
<u>Carson City Fire Department</u>	<u>> 5,000^c</u>	<u>=</u>	<u>=</u>
<u>Central Lyon County Fire Protection District</u>	<u>> 5000</u>	<u>≥2</u>	<u>=</u>
<u>East Fork Fire Protection District</u>	<u>=</u>	<u>=</u>	<u>=</u>
<u>Elko City Fire Department</u>	<u>> 5000</u>	<u>≥2</u>	<u>=</u>
<u>North Lake Tahoe Fire Protection District</u>	<u>>5,000</u>	<u>2 with basement or ≥3</u>	<u>=</u>

<u>North Lyon Fire Protection District</u>	<u>>5,000</u>	<u>:</u>	<u>:</u>
<u>Reno Fire Department</u>	<u>>5,000</u>	<u>:</u>	<u>>6</u>
<u>Smith Valley Fire Protection District</u>	<u>>5,000</u>	<u>>2</u>	<u>:</u>
<u>Sparks Fire Department</u>	<u>>5000</u>	<u>:</u>	<u>>6</u>
<u>Storey County Community Development District</u>	<u>:</u>	<u>:</u>	<u>:</u>
<u>Tahoe Douglas Fire Protection District</u>	<u>>3,600</u>	<u>2 with basement or >2</u>	<u>:</u>
<u>Truckee Meadows Fire Protection District</u>	<u>New: >5,000 sf Existing: >7,000 sf^d</u>	<u>:</u>	<u>:</u>

- a. This table is in addition to any other automatic sprinkler requirements in this code.
- b. Any addition or remodel that increases the fire area will be included in the calculation for the total square footage. The use of fire walls and fire barriers shall not be allowed to be used to reduce the size of fire areas.
- c. A one-time increase in the fire area is permitted provided said increase is < 50% of the structure's existing permitted fire area square footage.
- d. Accessory structures are exempt from this table.
- e. Living space area regardless of location as defined by the International Residential Code.
- f. Living space above a garage shall be separated by a listed 2-hour horizontal assembly.

Table 903.2.1 Required Automatic Sprinklers

Add Table 903.2.1 to section 903.2

Table 903.2.P Required Automatic Sprinklers by Fire Area Response Time and Height For A B E F H I 11, S and IT Occupancies Sprinklers are required when any one of the listed conditions is met.

<u>Fire Jurisdiction</u>	<u>Fire Area^{a, b}</u>	<u>Height^c</u>	<u>Response Time</u>
<u>Carson City Fire</u>	<u>> 000 square ft; 1 ft</u>	<u>3 stories or greater</u>	
<u>East Fork Fire Protection District (Douglas County)</u>	<u>> 1,000 square feet</u>	<u>3 stories or greater</u>	
<u>North Lake Tahoe Fire Protection District</u>	<u>> 5,000 square ft</u>	<u>2 stories and a basement or 3 stories or greater</u>	
<u>North Lyon Fire Protection District</u>	<u>> 5,000 square feet</u>	<u>3 stories or greater</u>	
<u>Reno Fire Department</u>	<u>> 500 square feet</u>	<u>3 stories or greater</u>	
<u>Truckee Meadows Fire Protection District and Sierra Fire Protection District</u>	<u>> 5,000 square feet</u>	<u>3 stories or greater</u>	
<u>Sparks Fire Department</u>	<u>> 5,000 square feet</u>	<u>3 stories or greater</u>	<u>0, or 6 minutes</u>
<u>Storey Fire Department</u>	<u>> 5,000 square feet</u>	<u>2 stories and a basement or 3 stories or greater</u>	

Tahoe Douglas Fire Protection District (Douglas County)	Jill		
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- a. This table is in addition to any other automatic sprinkler requirements in this code.
- b. Fire areas may be separated according to IBC 707.3.10.
- c. Any addition or remodel that increases the fire area will be included in the calculation for the total square footage.
- d. Airport Towers and open parking garages complying with IBC 406.5 are exempt from this table.
- e. S-1 and S-2 occupancies are exempt from this table.
- f. A one-time increase in the fire area is permitted provided said increase is 50% of the structure's existing permitted fire area square footage.
- g. A one-time increase of 360 square feet of fire area is permitted.
- h. Automatic fire detection system installed throughout and connected to a central station fire alarm company can be substituted for automatic sprinklers system.

Washoe County Code 60

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7

Table 903.2.2 Required Automatic Sprinklers IRC Structures

Add Table 903.2.2 to section 903.2

Table 903.2.2a

Required Automatic Sprinklers by Fire Area Response Time, and Height

For Structures Designed and Constructed with the International Residential Code Sprinklers are required when any one of the listed conditions is met.

Fire Jurisdiction	Fire Area	Height	Response Time
Carson City Fire	>5000 square feet		
East Fork Fire Protection District (Douglas County)			
North Lake Tahoe Fire Protection District	>5000 square feet	2 stories and a basement or 3 stories or greater	
North Lyon Fire Protection District	>5000 square feet		
Reno Fire Department	>5000 square feet		Over 6 minutes
Truckee Meadows Fire Protection District and Sierra Fire Protection District	>5000 square feet		
Sparks Fire Department	>3600 square feet	3 stories or greater	Over 6 minutes
Storey Fire Department			
Tahoe Douglas Fire Protection District (Douglas County)	>5000 square feet	2 stories and a basement or 3 stories or greater	

- a. This table is in addition to any other automatic sprinkler requirements in this code.
- b. Any addition or remodel that increases the fire area will be included in the calculation for the total square footage.
- c. For new construction, unenclosed portions of the roof structure to a maximum of 75 square feet are excluded from the fire area.
- d. A one-time increase in the fire area is permitted provided said increase is 50% of the structure's existing permitted fire area square footage.

- ~~e. A one-time increase of 36G square feet of fire areas is permitted.~~
- ~~f. The structure must be greater than 5000 square feet and be outside of a 6 minute response time.~~
- ~~g. See section 907.10.2.1 for additional requirements for existing structures.~~
- ~~h. Accessory structures are exempt from this table.~~
- ~~i. Garage square footage is not included in the fire area.~~

Section 903.2.1.2 Group A-2

Amend section 903.2.1.2 to read as follows:

903.2.1.2 Group A-2. An automatic sprinkler system shall be provided for Group A-2 occupancies where one of the following conditions exists:

1. The fire area exceeds 5,000 square feet (464 m²).
2. The fire area has an occupant load of 100 or more.
3. The fire area is located on a floor other than a level of exit discharge serving such occupancies. Occupancies containing a casino, regardless of occupancy classification, must be designed and built with a sprinkler system classified as an Ordinary Hazard Group

Section 903.2.3 Group E

Section 903.2.3 is amended to read:

903.2.3 Group E. An automatic sprinkler system shall be provided for Group E occupancies ~~as follows~~ where one of the following exists:

1. Throughout all Group E fire areas greater than ~~12,000~~ 5,000 square feet (1115 464 m²) in area.
2. The Group E fire area is located on a floor other than a level of exit discharge serving such occupancies.

Exception: In buildings where every classroom has not fewer than one exterior exit door at ground level, an automatic sprinkler system is not required in any area below the lowest level of exit discharge serving that area.

3. The Group E fire area has an occupant load of 300 or more.

Exception: In buildings where every classroom has not fewer than one exterior exit door at ground level, an automatic sprinkler system is not required in any area below the lowest.

4. Daycare facilities where there is occupancy from 12:00 am- 6:00 am and care for 7 or more children.

~~Section 903.2.3 Group E~~

Amend section 903.2.3 to read as follows:

903.2.3 Group E. An automatic sprinkler system shall be provided for Group E occupancies as follows:

1. Throughout all Group E fire areas greater than 12,000 square feet (1115 m²) in area.
2. Throughout every portion of educational buildings below the lowest level of exit discharge serving that portion of the building.

~~**Exception:** An automatic sprinkler system is not required in any area below the lowest level of exit discharge serving that area where every classroom throughout the building has at least one exterior exit door at ground level.~~

~~In high schools where automatic fire sprinkler systems are provided, the automatic fire sprinkler systems for the automotive and woodworking shops must be designed to Ordinary Hazard, Group 1 automatic fire sprinkler systems criteria.~~

Section 903.3.1.1 NFPA 13 sprinkler systems

Section 903.3.1.1 is amended to read:

903.3.1.1 NFPA 13 sprinkler systems. Where the provisions of this code require that a building or portion thereof be equipped throughout with an *automatic sprinkler system* in accordance with this section, sprinklers shall be installed throughout in accordance with NFPA 13 except as provided in Section 903.3.1.1.1 and 903.1.1.2.

In North Lake Tahoe Fire Protection District all Group R-3 occupancies larger than ten thousand (10,000) square feet (3048 m²) in area or exceeding four (4) stories in height are required to have automatic sprinklers installed throughout in accordance with NFPA 13.

Section 903.3.1.1 NFPA 13 Sprinkler Systems

Amend section 903.3.1.1 to read as follows:

~~**NFPA 13 sprinkler systems.** Where the provisions of this code require that a building or portion thereof be equipped throughout with an *automatic sprinkler system* in accordance with this section, sprinklers shall be installed throughout in accordance with NFPA 13 except as provided in Section 903.3.1.1.1. An R-1 or R-2 occupancy that has more than two stories must have an NFPA 13 system installed. In North Lake Tahoe Fire Protection District all Group R-3 occupancies larger than ten thousand (10,000) square feet or exceeding four (4) stories in height are required to have automatic sprinklers installed throughout in accordance with NFPA 13.~~

Section 903.3.1.2 NFPA 13R Sprinkler System

Amend section 903.3.1.2 to read as follows:

~~**903.3.1.2 NFPA 13R sprinkler systems.** Automatic sprinkler systems in Group R occupancies up to and including two stories in height shall be permitted to be installed throughout in accordance with NFPA 13R. An R-1 or R-2 occupancy that has more than two stories shall have an N.F.P.A. 13 system installed.~~

Section 903.3.1.3 NFPA 13D sprinkler systems

Section 903.3.1.3 is amended to read:

903.3.1.3 NFPA 13D sprinkler systems. Automatic sprinkler systems installed in one and two-family dwellings: Group R-3; Group R-4, Condition 1; and townhouses shall be permitted to be installed throughout in accordance with NFPA 13D. NFPA 13D systems are not permitted in North Lake Tahoe Fire Protection District.

Section 903.3.1.3 NFPA 13D Sprinkler Systems

Amend section 903.3.1.3 to read as follows:

903.3.1.1 NFPA 13D sprinkler systems. ~~Automatic sprinkler systems installed in one and two-family dwellings, Group R-3 and R-4 congregate living facilities and townhouses shall be permitted to be installed throughout in accordance with NFPA 13D. NFPA 13D systems are not permitted in North Lake Tahoe Fire Protection District.~~

Section 903.4 Sprinkler system supervision and alarms

Section 903.4 is amended to read:

903.4 Sprinkler system supervision and alarms. Valves controlling the water supply for *automatic sprinkler systems*, pumps, tanks, water levels and temperatures, critical air pressures and water-flow switches on all sprinkler systems shall be electrically supervised by a *listed* fire alarm control unit.

Exceptions:

1. Automatic sprinkler systems protecting one- and two-family dwellings.
2. Limited area systems in accordance with Section 903.3.8.
3. Automatic sprinkler systems installed in accordance with NFPA 13R where a common supply main is used to supply both domestic water and the automatic sprinkler system, and a separate shutoff valve for the automatic sprinkler system is not provided.
4. Jockey pump control valves that are sealed or locked in open position.
5. Control valves to commercial kitchen hoods, paint spray booths or dip tanks that are sealed or locked in the open position. This exception will not apply to any of the above-mentioned control valves if they are located in a building equipped with any fire alarm or protection system that is required to be monitored by a central station fire alarm company.
6. Valves controlling the fuel supply to fire pump engines that are sealed or locked in the open position.
7. Trim valves to pressure switches in dry, preaction, and deluge sprinkler systems that are sealed or locked in the open position.

Section 903.4.2 Alarms

Section 903.4.2 is amended to read:

903.4.2 Alarms. An approved ~~audible alarm notification appliance device, located on the exterior of the building in an approved location,~~ shall be connected to each *automatic sprinkler system*. Such sprinkler water-flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Approved alarm notification appliances shall be provided on the exterior of the building and within each tenant space on the interior of the building and in an approved location. When residential (single family dwelling) automatic sprinkler systems are provided, water flow activation shall provide occupant notification at all occupied levels and sleeping units, with minimum audible notification level of 75 dba sound pressure at pillow height. Where a fire alarm system is installed, actuation of the *automatic sprinkler system* shall actuate the building fire alarm system.

Section 903.4.3 Floor control valves

Amend Section 903.4.3 to read:

903.4.3 Floor control valves. Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor ~~in high-rise buildings~~ in multi-story facilities.

Section 903.4 Sprinkler System Supervision and Alarms

Amend section 903.4 to read as follows:

903.4 Sprinkler system supervision and alarms. All valves controlling the water supply for ~~automatic sprinkler systems~~, pumps, tanks, water levels and temperatures, critical air pressures and water flow switches on all sprinkler systems shall be electrically supervised by a ~~listed~~ fire alarm control unit.

Exceptions:

- ~~1. Automatic sprinkler systems protecting one and two family dwellings.~~
- ~~2. Limited area systems serving fewer than 20 sprinklers.~~
- ~~3. Automatic sprinkler systems installed in accordance with NFPA 13R where a common supply main is used to supply both domestic water and the automatic sprinkler system, and a separate shutoff valve for the automatic sprinkler system is not provided.~~
- ~~4. Jockey pump control valves that are sealed or locked in the open position.~~
- ~~5. Control valves to commercial kitchen hoods, paint spray booths or dip tanks that are sealed or locked in the open position. This exception will not apply to any of the above-mentioned control valves if they are located in a building equipped with any fire alarm or protection system that is required to be monitored by a central control station fire alarm company.~~
- ~~6. Valves controlling the fuel supply to fire pump engines that are sealed or locked in the open position.~~
- ~~7. Trim valves to pressure switches in dry, preaction and deluge sprinkler systems that are sealed or locked in the open position.~~

Section 903.4.2 Alarms

Amend section 903.4.2 to read as follows:

903.4.2 Alarms. An approved audible device, shall be connected to each ~~automatic sprinkler system~~. Such sprinkler water flow alarm devices shall be activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size installed in the system. Alarm devices shall be provided on the exterior of the building and within each tenant space on the interior of the building and in an approved location. Where a fire alarm system is installed, actuation of the ~~automatic sprinkler system~~ shall actuate the building fire alarm system.

Section 906.2 General requirements

Section 906.2 is amended to read:

906.2 General requirements. Portable fire extinguishers shall be selected, installed, and maintained in accordance with this section and NFPA 10.

Exceptions:

1. Travel distance to reach an extinguisher shall not apply to the spectator seating portions of Group A-5 occupancies.
2. Thirty-day inspections shall not be required, and maintenance shall be allowed to be ~~once every~~ ~~three years~~ annually for dry-chemical or halogenated agent portable fire extinguishers that are

supervised by a listed and approved electronic monitoring device, provided that all of the following conditions are met:

2.1 Electronic monitoring shall confirm that extinguishers are properly positioned, properly charged and unobstructed.

2.2 Loss of power or circuit continuity to the electronic monitoring device shall initiate a trouble signal.

2.3 The extinguishers shall be installed inside of a building or cabinet in a noncorrosive environment.

2.4 Electronic monitoring devices and supervisory circuits shall be tested ~~every three years~~ annually when extinguisher maintenance is performed.

2.5 A written log of required hydrostatic test dates for extinguishers shall be maintained by the owner to verify that hydrostatic tests are conducted at the frequency required by NFPA 10.

3. In Group I-3, portable fire extinguishers shall be permitted to be located at staff locations. Carbon dioxide, wet chemical, halogenated agent, AFFF and FFFP portable fire extinguishers shall be internally examined in accordance with NFPA 10. All other portable fire extinguishers shall be internally examined annually.

Section 906.2 General Regulations

Amend section 906.2 to read as follows:

906.2 General requirements. ~~Portable fire extinguishers shall be selected, installed and maintained in accordance with this section and NFPA 10.~~

Exceptions:

~~1. The travel distance to reach an extinguisher shall not apply to the spectator seating portions of Group A-5 occupancies. Thirty-day inspections shall not be required and maintenance shall be allowed to be annually for dry-chemical or halogenated agent portable fire extinguishers that are supervised by a *listed and approved* electronic monitoring device, provided that all of the following conditions are met:~~

~~1.1. Electronic monitoring shall confirm that extinguishers are properly positioned, properly charged and unobstructed.~~

~~1.2. Loss of power or circuit continuity to the electronic monitoring device shall initiate a trouble signal.~~

~~1.3. The extinguishers shall be installed inside of a building or cabinet in a noncorrosive environment.~~

~~1.4. Electronic monitoring devices and supervisory circuits shall be tested annually when extinguisher maintenance is performed.~~

~~1.5. A written log of required hydrostatic test dates for extinguishers shall be maintained by the *owner* to verify that hydrostatic tests are conducted at the frequency required by NFPA 10.~~

~~2. In Group I-3, portable fire extinguishers shall be permitted to be located at staff locations.~~

~~3. Carbon dioxide, wet chemical, halogenated agent, AFFF and FFFP portable fire extinguishers shall be internally examined in accordance with NFPA 10, Table 7.3.1.1.2. All other portable fire extinguishers shall be internally examined annually.~~

Section 907.2.9.4 Automatic smoke detection systems in Group R-4

Section 907.2.9.4 is added to Section 907.2.9, to read:

907.2.9.4 Automatic smoke detection system in Group R-4. An automatic smoke detection system that activates the occupant notification system in accordance with Section 907.5 shall be installed in *corridors*, *waiting areas open to corridors* and *habitable spaces* other than *sleeping units* and *kitchens*.

Exceptions:

1. Smoke detection in *habitable spaces* is not required where the facility is equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1.
2. An automatic smoke detection system is not required in buildings that do not have interior *corridors* serving *sleeping units* and where each *sleeping unit* has a *means of egress* door opening directly to an exit or to an exterior *exit* access that leads directly to an exit.

Section 907.2.9.5 Automatic smoke detection systems in Group R-3

Section 907.2.9.5 is added to Section 907.2.9, to read:

907.2.9.5 Automatic smoke detection system in Group R-3. In Truckee Meadows Fire Protection District automatic smoke detection system installed throughout and connected to a central station fire alarm company is required for additions that make the structure more than 5,000 square feet but less than 7,000 square feet.

Section 907.2.10 Group R-3 and R-4

Add new subsection 907.2.10.2.1 and amend section 907.2.10 and subsection 907.2.10.2 to read as follows:

907.2.10 Group R-3 and R-4. Fire alarm systems and smoke alarms shall be installed in Group R-3 and R-4 occupancies as required in Sections 907.2.10.1 through 907.2.10.3.

907.2.10.2 Automatic smoke detection system R-4. An automatic smoke detection system that activates the occupant notification system in accordance with Section 907.5 shall be installed in *corridors*, waiting areas open to *corridors* and *habitable spaces* other than *sleeping units* and *kitchens*.

Exceptions:

1. Smoke detection in *habitable spaces* is not required where the facility is equipped throughout with an *automatic sprinkler system* installed in accordance with Section 903.3.1.1.
2. An automatic smoke detection system is not required in buildings that do not have interior *corridors* serving *sleeping units* and where each *sleeping unit* has a *means of egress* door opening directly to an exit or to an exterior *exit access* that leads directly to an exit.

907.2.10.2.1 Automatic smoke detection system R-3. In Truckee Meadows Fire Protection District and Sierra Fire Protection District an automatic fire detection system installed throughout and connected to a central station fire alarm company is required for additions that make the structure greater than 5,000 square feet but less than 7,000 square feet.

Section 907.2.10.2.1 Alternative to single- and multiple-station smoke alarms

Section 907.2.10.2.1 is added to 907.2.10.2 Groups R-2, R-3, R-4 and I-1, to read:

907.2.10.2.1 Alternative to single- and multiple-station smoke alarms. Fire alarm in place of single and multiple-station smoke alarms may be replaced by an NFPA 72 Household compliant fire alarm system. Plans shall be submitted to the local fire authority and permit obtained prior to installation. All fire alarm

installation contractors shall be required to be licensed by both the Nevada State Contractors Board and Nevada State Fire Marshal (F license).

Section 907.5.2.1.1 Average sound pressure

Section 907.5.2.1.1 is amended to read:

907.5.2.1.1 Average sound pressure. The audible alarm notification appliances shall provide a sound pressure level of 15 decibels (DBA) above the average ambient sound level or 5 DBA above the maximum sound level having a duration of at least 60 seconds, whichever is greater, in every occupiable space within the building. The minimum sound pressure levels shall be 90 dBA in mechanical equipment rooms and 80 DBA in all other occupancies.

Section 907.5.2.1.1 Average Sound Pressure

Amend section 907.5.2.1.1 to read as follows:

~~907.5.2.1.1 Average sound pressure. The audible alarm notification appliances shall provide a sound pressure level of 15 decibels (dBA) above the average ambient sound level or 5 dBA above the maximum sound level having a duration of at least 60 seconds, whichever is greater, in every occupiable space within the building. The minimum sound pressure levels shall be 90 dBA in mechanical equipment rooms and 80 dBA in all other occupancies.~~

Section 910.1 General (Smoke and Heat Removal)

Amend section 910.24 to read as follows:

~~910.1 General. Where required by this code or otherwise installed, smoke and heat vents or mechanical smoke exhaust systems and draft curtains shall conform to the requirements of this section.~~

910.2 Where required. Smoke and heat vents or a mechanical smoke removal system shall be installed as required by Sections 910.2.1 and 910.2.2.

Exceptions:

1. Frozen food warehouses used solely for storage of Class I and II commodities where protected by an *approved automatic sprinkler system*.

2. Automatic smoke and heat vents are not required within areas of buildings equipped with early suppression fast-response (ESFR) sprinklers unless the area of a Group F-1 or S-1 occupancy protected with the ESFR sprinklers has an exit access travel distance of more than 250 feet (76 200 mm).

~~2.3.~~ Smoke and heat removal shall not be required in areas of buildings equipped with control mode special application sprinklers with a response time index of 50 (m's)^{1/2} or less that are listed to control a fire in stored commodities with 12 or fewer sprinklers.

Section 910.2.2 High-piled combustible storage

Section 910.2.2 is amended to read:

910.2.2 High-piled combustible storage. Smoke and heat removal required by Table 3206.2 for buildings and portions thereof containing high-piles combustible storage shall be installed in accordance with Section 910.3 in un-sprinklered buildings. In buildings and portions thereof containing high-piled combustible storage equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, a smoke and

heat removal system shall be installed in accordance with 910.3 or 910.4. Smoke and heat vents shall be activated by manual controls only per Section 910.4.4. In occupied portions of a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 where the upper surface of the story is not a roof assembly, a mechanical smoke removal system in accordance with 910.4 shall be installed.

Section 910.3.2.2 Sprinklered Buildings

Amend section 910.3.2.2 to read as follows and add subsections 910.3.2.2.1 thru 910.3.2.2.3:

~~**910.3.2.2 Sprinklered buildings.** Where installed in buildings equipped with an approved automatic sprinkler system, smoke and heat vents shall be designed in accordance with Sections 910.3.2.2.1 through 910.3.2.2.3.~~

~~**910.3.2.2.1 Automatic operation.** Smoke and heat vents shall be designed to operate automatically.~~

~~**910.3.2.2.2 Control mode sprinkler system.** Smoke and heat vents installed in areas of buildings with a control mode sprinkler system shall have operating elements with a higher temperature classification than the automatic fire sprinklers in accordance with NFPA 13.~~

~~**910.3.2.2.3 Early suppression fast response (ESFR) sprinkler system.** Smoke and heat vents installed in areas of buildings with early suppression fast response (ESFR) sprinklers shall be equipped with a standard response operating mechanism with a minimum temperature rating of 360°F (182°C) or 100°F (56°C) above the operating temperature of the sprinklers, whichever is higher.~~

Section 912.4.1 Service Area Access.

Add new subsection 912.4.1 to 912.4 to read as follows:

~~**912.4 Signs.** A metal sign with raised letters at least 1 inch (25 mm) in size shall be mounted on all fire department connections serving automatic sprinklers, standpipes or fire pump connections. Such signs shall read: AUTOMATIC SPRINKLERS or STANDPIPES or TEST CONNECTION or a combination thereof as applicable. Where the fire department connection does not serve the entire building, a sign shall be provided indicating the portions of the building served.~~

~~**912.4.1 Service area.** A sign indicating the buildings address or areas serviced by a sprinkler or standpipe system shall be permanently mounted and maintained on all fire department connections when required by the fire code official.~~

Section 912.5.1 Service area

Section 912.5.1 is added to Section 912.5 Signs, to read:

912.5.1 Connection sign. An approved all-weather sign indicating the buildings address or areas serviced by a sprinkler or standpipe system shall be permanently mounted and maintained on all fire department connections when required by the fire code official.

Section 913.4 Valve supervision

Section 913.4 is amended to read:

913.4 Valve supervision. Where provided, the fire pump suction, discharge and bypass valves, and isolation valves on the backflow prevention device or assembly shall be supervised open by one of the following methods.

1. Central-station, proprietary or remote-station signaling service.
2. Local signaling service that will cause the sounding of an audible signal at a constant attended location.

~~—— Locking valves open.~~

- ~~1. Sealing of valves and approved weekly recorded inspection where valves are located within fenced enclosures under the control of the owner.~~

Section 913.4 Valve Supervision

Amend section 913.4 to read as follows:

913.4 Valve supervision. Where provided, the fire pump suction, discharge and bypass valves, and the isolation valves on the backflow prevention device or assembly shall be supervised open by one of the following methods:

1. Central-station, proprietary or remote-station signaling service.
2. Local signaling service that will cause the sounding of an audible signal at a constantly attended location.

Section 914.3 High-rise Buildings

Add new subsection 914.3.7 and amend section 914.3 to read as follows:

914.3 High-rise buildings. High-rise buildings shall comply with Sections 914.3.1 through 914.3.7.

914.3.1 Automatic sprinkler system. Buildings and structures shall be equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 and a secondary water supply where required by Section 903.3.5.2.

Exception: An automatic sprinkler system shall not be required in spaces or areas of:

1. Open parking garages in accordance with Section 406.5 of the *International Building Code*.
2. Telecommunications equipment buildings used exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries and standby engines, provided that those spaces or areas are equipped throughout with an automatic fire detection system in accordance with Section 907.2 and are separated from the remainder of the building by not less than 1-hour fire barriers constructed in accordance with Section 707 of the *International Building Code* or not less than 2-hour horizontal assemblies constructed in accordance with Section 711 of the *International Building Code*, or both.

914.3.1.1 Number of sprinkler risers and system design. Each sprinkler system zone in buildings that are more than 420 feet (128 m) in height shall be supplied by a minimum of two risers. Each riser shall supply sprinklers on alternate floors. If more than two risers are provided for a zone, sprinklers on adjacent floors shall not be supplied from the same riser.

914.3.1.1.1 Riser location. Sprinkler risers shall be placed in interior exit stairways and ramps that are remotely located in accordance with Section 1015.2.

914.3.1.2 Water supply to required fire pumps.

Required fire pumps shall be supplied by connections to a minimum of two water mains located in different streets. Separate supply piping shall be provided between each connection to the water main and the pumps. Each connection and the supply piping between the connection and the pumps shall be sized to supply the flow and pressure required for the pumps to operate.

Exception: Two connections to the same main shall be permitted provided the main is valved such that an interruption can be isolated so that the water supply will continue without interruption through at least one of the connections.

914.3.2 Fire alarm system. A fire alarm system shall be provided in accordance with Section 907.2.13.

914.3.3 Automatic smoke detection. Smoke detection shall be provided in accordance with Section

907.2.13.1.

914.3.4 ~~Emergency voice/alarm communication system.~~ An emergency voice/alarm communication system shall be provided in accordance with Section 907.6.2.2.

914.3.5 ~~Emergency responder radio coverage.~~ Emergency responder radio coverage shall be provided in accordance with Section 510.

914.3.6 ~~Fire command.~~ A fire command center complying with Section 508 shall be provided in a location approved by the fire department.

Section 914.3.8 Fire fighter air replenishment systems

Section 914.3.8 is added to Section 914.3 High-rise buildings, to read:

914.3.8 Fire fighter air replenishment systems. A fire fighter air replenishment system shall be provided in all new high-rise buildings of ten (10) or more stories in height. The fire fighter breathing air system installation and maintenance shall comply with Appendix L. Inspection records shall be kept on site and shall be readily available to the fire code official.

914.3.7 ~~Firefighter Breathing Air Replenishment Systems.~~ A firefighter breathing air replenishment system shall be provided in all new high-rise buildings of ten (10) or more stories in height. The firefighter breathing air system installation and maintenance shall comply with Appendix F of the Uniform Plumbing Code. Inspection records shall be kept on site and shall be readily available to the fire code official.

Table 1016.2 Exit Access Travel Distance

Amend Table 1016.2 to read as follows:

TABLE 10115.2
EXIT ACCESS TRAVEL OF STANCE

OCCUPANCY	WITHOUT SPRINKLER SYSTEM (feet)	WITH SPRINKLER SYSTEM (feet);
A-E, F-1, F-1.1, R, S-1	201	250
I-1	Not Permitted	250
B	200	300
F-2, S-2, U	300	400
H-1	Not Permitted	75
H-2	Not Permitted	100
H-3	Not Permitted	150
H-4	Not Permitted	175
H-5	Not Permitted	200
I-2, I-3, I-4	Not Permitted	200

For SI: 1 foot = 304.8 mm.

- a. See the following sections for modifications to exit access travel distance requirements:
- Section 402.B: For the distance limitation in malls.
 - Section 404.9: For the distance limitation through an atrium space.
 - Section 407.4: For the distance limitation in Group 1-2.
 - Sections 40B.G.1 and 40B.B.1: For the distance limitations in Group 1-3.
 - Section 411.4: For the distance limitation in Special Amusement Buildings.
 - Section 1015.4: For the distance limitation in refrigeration

~~machinery rooms. Section 1015.5: For the distance limitation in refrigerated rooms and spaces. Section 10113.4: For increased limitation in Groups F-1 and S-1.~~

~~Section 1021.2: For buildings with one exit.~~

~~Section 102B.7: For increased limitation in assembly seating~~

~~Section 10213.7: For increased limitation for assembly open-air seating.~~

~~Section 3103.4: For temporary structures.~~

~~Section 3104.9: For pedestrian walkways.~~

~~b. Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2. See Section 903 for occupancies where automatic sprinkler systems in accordance with Section 903.3.12 are permitted.~~

~~c. Buildings equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.~~

Section 1016.4 Group F-1 and S-1 Increase

~~Add new section 1016.4 to 1016:~~

1016.4 Group F-1 and S-1 increase. The maximum exit access travel distance shall be 400 feet (122 m) in Group F-1 or S-1 occupancies where all of the following are met

- ~~1. The portion of the building classified as Group F-1 or S-1 is limited to one story in height, and~~
- ~~2. The minimum height from the finished floor to the bottom of the ceiling or roof slab or deck is 24 feet (7315 mm), and~~
- ~~3. The building is equipped throughout with an automatic fire sprinkler system in accordance with Section 903.3.1.1.~~

Section [BE] 1023.9.1 Signage requirements

~~Section [BE] 1023.9.1 is amended to read:~~

[BE] 1023.9.1 Signage requirements. Stairway identification signs shall comply with all of the following requirements:

1. The signs shall be a minimum size of 18 inches (457 mm) by 12 inches (305 mm).
2. The letters designating the identification of the interior exit stairway and ramp shall be not less than 1 ½ inches (38 mm) in height.
3. The number designating the floor level shall be not less than 5 inches (127 mm) in height and located in the center of the sign.
4. Other lettering and numbers shall be not less than 1 inch (25 mm) in height.
5. Characters and their background shall have a non-glare finish. Characters shall contrast with their background, with either light characters on a dark background or dark characters on a light background.
- 4.6. Where signs required by Section 1023.9 are installed in the interior exit stairways and ramps of buildings subject to Section 1025, the signs shall be made of the same materials as required by Section 1025.4.

The background color of the sign shall be green if roof access is available from the signed stairway. The background color of the signs shall be red if roof access is not available from the signed stairway.

Chapter 11 Construction Requirements for Existing Buildings

~~Delete entire chapter.~~

CHAPTER 11 CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS

Section 2809.1 General (Exterior Storage)

Amend section 2809.1 to read as follows:

2809.1 General. ~~Exterior storage of finished lumber products, fire wood, chips, hogged material and associated raw products shall comply with Sections 2809.1 through 2809.5.~~

Section 2809.2 Size of Piles

Amend section 2809.2 to read as follows:

2809.2 Size of piles. ~~Exterior lumber storage shall be arranged to form stable piles with a maximum height of 25 feet (6096 mm). Piles shall not exceed 150,000 cubic feet (4248 m³) in volume.~~

Section 3903.2 Prohibited occupancies

Section 3903.2 is amended to read:

3903.2 Prohibited occupancies. Extraction processes utilizing flammable gases, flammable liquids or flammable cryogenic fluids shall not be located in a building containing a Group A, E, I or R occupancy.

Section 3903.3 Location

Section 3903.3 is amended to read:

3903.3 Location. The extraction equipment and extraction processes utilizing hydrocarbon solvents shall be located in a room or area dedicated to extraction. For other than CO₂ and nonhazardous extraction process, the marijuana extraction equipment and process shall be located in a room of noncombustible construction dedicated to the extraction process and the room shall not be used for any other purpose.

Section 3903.5 Use of flammable and combustible liquids

Section 3903.5 is amended to read:

3903.5 Use of flammable and combustible liquids. The use of flammable and combustible liquids for liquid extraction processes where the liquid is boiled, distilled or evaporated; or Extraction and post oil processing operations, including dispensing of flammable liquids between containers, shall be located within a hazardous exhaust fume hood, rated for exhausting flammable vapors.

Electrical equipment used within the hazardous exhaust fume hood shall be rated for use in flammable atmospheres. Heating of flammable or combustible liquids over an open flame is prohibited.

Exception 1: The use of a heating element not rated for flammable atmospheres, where documentation from the manufacture, or approved testing laboratory indicates the element is rated for heating of flammable liquids.

Exception 2: Unheated processes at atmospheric pressure using less than 16 oz. (473 ml) of flammable liquids shall not be required to comply with 3903.5(1) or 3903.5(2).

Section 3903.5.1 Electrical components

Section 3903.5.1 is added to Section 3903.5 Use of flammable and combustible liquids, to read:

3903.5.1 Electrical components. All electrical components within the chemical fume hood or exhausted enclosure shall be approved permanent wiring, interlocked such that the exhaust system shall be in operation during use.

Section 3903.6 Liquefied petroleum gas

Section 3903.6 is amended to read:

3903.6 Liquefied petroleum gas. Liquefied petroleum gases (LPG) shall not be released to the atmosphere except where released in accordance with Section 7.3 of NFPA 58. LPG liquid piping systems shall be in compliance with NFPA 58.

Sections 3903.6.1 Exhaust

Section 3903.6.1 is added to Section 3903.6 Liquefied petroleum gas, to read:

3903.6.1 Exhaust. An approved exhaust system shall be provided for LPG extractions.

Section 3903.6.1.1 Installation

Section 3903.6.1.1 is added to Section 3903.6 Liquefied petroleum gas, to read:

3903.6.1.1 Installation. The exhaust systems shall be installed and maintained in accordance with the International Mechanical Code or Uniform Mechanical Code as adopted by the Authority Having Jurisdiction.

Section 3903.6.1.2 Processes

Section 3903.6.1.2 is added to Section 3903.6 Liquefied petroleum gas, to read:

3903.6.1.2 Processes. All LPG extraction operations, including processes for off-gassing spent plant material and oil retrieval, shall be conducted within a chemical fume hood, enclosure, or room in compliance with the International or Uniform Mechanical Code as adopted by the Authority Having Jurisdiction.

Section 3903.6.2 Electrical bonding and grounding

Section 3903.6.2 is added to Section 3903.6 Liquefied petroleum gas, to read:

3903.6.2 Electrical bonding and grounding. All conductive equipment and conductive objects within the exhaust room shall be bonded and grounded with a resistance of less than 1.0 x 10⁶ ohms in accordance with NFPA 70.

Section 3903.6.2.1 Classified areas

Section 3903.6.2.1 is added to Section 3903.6.2 Electrical bonding and grounding, to read:

3903.6.2.1 Classified areas. The area within a hood or enclosure used of LPG extractions shall be classified as a Class 1, Division 1 hazardous location in accordance with NFPA 70. Areas adjacent to Class 1, Division 1 locations shall be classified in accordance with NFPA 70.

Section 3903.6.2.2 Interlocks

Section 3903.6.2.2 is added to Section 3903.6.2 Electrical bonding and grounding, to read:

3903.6.2.2 Interlock. All electrical components within the extraction room shall be interlocked with the hazardous exhaust system such that room lighting and other extraction room electrical equipment will only operate when the exhaust system is in operation.

Section 3903.6.2.3 Emergency power

Section 3903.6.2.3 is added to Section 3903.6. Electrical bonding and grounding, to read:

3903.6.2.3 Emergency Power. An automatic emergency power system shall be provided for the following items, when installed:

1. Extraction room lighting
2. Extraction room ventilation system
3. Solvent gas detection system

Section 3903.6.2.4 Gas detection systems

Section 3903.6.2.4 is added to Section 3903.6.2 Electrical bonding and grounding, to read:

3903.6.2.4 Gas detection systems. Gas detection systems shall be provided with constant non-interlocked power.

Section 3903.7 Carbon dioxide extraction

Section 3903.7 is added to Section 3903 Processing and Extraction, to read:

3903.7 Carbon dioxide extraction. Carbon Dioxide extraction shall comply with sections 3903.7.1, 3903.7.2, and 3903.7.3

Section 3903.7.1 Storage and handling

Section 3903.7.1 is added to Section 3903.7 Carbon dioxide extraction, to read:

3903.7.1 Storage and handling. All CO2 compressed gas cylinders shall be secured in approved method to prevent falling.

Section 3903.7.2 CO₂ gas detection

Section 3903.7.2 is added to Section 3903.7 Carbon dioxide extraction, to read:

3903.7.2 CO₂ Gas Detection. An approved, listed CO₂ detection system complying with 5307.4.3 shall be installed in the CO₂ extraction room. Auto-calibrating and self-zeroing devices or detectors shall be prohibited.

Section 3903.7.3 CO₂ discharge

Section 3903.7.3 is added to Section 3903.7 Carbon dioxide extraction, to read:

3903.7.3 CO₂ discharge. The extraction equipment pressure relief devices and blow-off valves shall be piped to the exterior of the building.

Section 3903.8 Means of egress

Section 3903.8 is added to Section 3903 Processing and Extraction, to read:

3903.8 Means of Egress. For extraction rooms using hazardous materials, each room shall be provided with at least one exit access door complying with the following:

1. The door shall swing in the direction of egress travel.
2. The door shall be provided with a self-closing or automatic closing device.
3. The door shall be equipped with panic or fire exit hardware.
- ~~4.~~4. The exit access travel distance cannot be increased as allowed in Section 1017.2.2 for extraction/cultivation facilities.

Section 3903.9 Signage

Section 3903.9 is added to Section 3903 Processing and Extraction, to read:

3903.9. Signage. The NFPA 704 hazard rating diamond sign, minimum 10" in size, and no smoking signs shall be posted on the exterior of the extraction room door.

Section 3903.9.1 Safety data sheets

Section 3903.9.1 is added to Section 303.9 Signage, to read:

3903.9.1 Safety data sheets. All applicable safety data sheets (SDS) shall be posted in the approved location.

Section 3903.9.2 Warning signage

Section 3903.9.2 is added to Section 3903.9 Signage, to read:

3903.9.2 Warning signage. Applicable hazard warning signage shall be posted throughout the facility as applicable for emergency equipment.

Section 3904.4 Site inspection

Section 3904.4 is amended to read:

3904.4 Site inspection. Prior to the operation of the extraction equipment, ~~where required by the fire code official,~~ the engineer of record or *approved* professional, as *approved* in Section 3904.2, shall inspect the site of the extraction process once equipment has been installed for compliance with the technical report and the building analysis. The engineer of record or *approved* professional shall provide a report of findings to the *fire code official* prior to the approval of the extraction process. The field inspection report authored by the engineer of record shall include the serial number of the equipment used in the process and shall confirm that the equipment installed is the same model and type of equipment identified in the technical report.

Section 3904.5 Change of extraction medium

Section 3904.5 is added to Section 3904 Systems and Equipment, to read:

3904.5 Change of Extraction Medium. Where the medium of extraction or solvent is changed from the material indicated in the technical report or as required by the manufacturer, the technical report shall be revised at the cost of the facility owner and submitted for review and approval by the fire code official prior to the use of the equipment with the new medium or solvent.

Section 5601.1.3 Fireworks

Amend Section 5601.1.3 to read:

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

Exceptions:

1. Storage and handling of fireworks as allowed in Section 5604.
2. Manufacture, assembly and testing of fireworks as allowed in Section 5605.
3. The use of fireworks for fireworks displays as allowed in Section 5608.
4. ~~The possession, storage, sale, handling and use of specific types of Division 1.4G fireworks where allowed by applicable laws, ordinances and regulations, provided such fireworks comply with CPSC 16 CFR Parts 1500 and 1507, and DOTn 49 CFR Parts 100–185, as applicable for consumer fireworks.~~

Section 5601.1.6 Exploding targets

Section 5601.1.6 is added to Section 5601.1 Scope, to read:

5601.1.6 Exploding targets. The possession, manufacture, sale, and use of exploding targets, including binary exploding targets, are prohibited.

Section 5601.1.3 Fireworks

Amend section 5601.1.3 to read as follows:

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

Exceptions:

1. _____ ~~Storage and handling of fireworks as allowed in Section 5604.~~
2. _____ ~~Manufacture, assembly and testing of fireworks as allowed in Section 5605.~~

3. ~~The use of fireworks for fireworks displays as allowed in Section 5608.~~

~~Section 5601.1.6 Exploding Targets~~

~~Delete the amendment which added subsection 5601.1.6 concerning exploding targets.~~

Section 6101.1 Scope

Section 6101.1 is amended to read:

6101.1 Scope. Storage, handling and transportation of liquefied petroleum gas (LP-gas) and the installation of LP-gas equipment pertinent to systems for such uses shall comply with this chapter and NFPA 58. Properties of LP-gases shall be determined in accordance with Appendix B of NFPA 58. In the event of a conflict between any provision in this chapter and the regulations of the Board for the Regulation of Liquefied Petroleum Gas, whichever is more restrictive.

Section 6101.1 Scope

~~Amend section 6101.1 to read as follows:~~

~~**6101.1 Scope.** Storage, handling and transportation of liquefied petroleum gas (LP-gas) and the installation of LP-gas equipment pertinent to systems for such uses shall comply with this chapter and NFPA 58. Properties of LP-gases shall be determined in accordance with Appendix B of NFPA 58. In the event of a conflict between any provision in this chapter and the regulations of the Board for the Regulation of Liquefied Petroleum Gas, the regulations of the Board take precedence.~~

APPENDIX B FIRE-FLOW REQUIREMENTS FOR BUILDINGS

Appendix B is adopted in whole in accordance with 2018 Edition of the International Fire Code Section 101.2.

Section B102 Definitions

The following definition is added in Section B102 Definitions to read:

Special Fire Protection Problem Facilities. Special Fire Protection Problem Facilities are those facilities that consist of uses similar to fires that may result in large size fires or fires with high heat release such as bulk flammable liquid storage, bulk flammable gas storage, large varnish and paint factories, some plastics manufacturing and storage, aircraft hangars, distilleries, refineries, lumberyards, grain elevators, chemical plants, coal mines, tunnels, subterranean structures, storage facilities, and warehouses using high rack/piled storage for flammables or pressurized aerosols.

Section B103.3 Areas without water supply systems

Section B103.3 is amended to read:

B103.3 Areas without water supply systems. For information regarding water supplies for fire-fighting purposes in rural and suburban areas in which adequate and reliable water supply systems do not exist, the fire code official is authorized to utilize the International Wildland-Urban Interface Code or NFPA 1142 where the site is not considered as a "special fire protection problem facilities" as defined in Section B102.

Table B105.2 Required Fire Flow for Buildings Other Than One- and Two-Family Dwellings, Group R-3 and R-4 Buildings and Townhouses

Table B105.2 of Appendix B Fire-Flow Requirements for Buildings is amended to read as follows:

TABLE B105.2

REQUIRED FIRE FLOW FOR BUILDINGS OTHER THAN ONE- AND TWO-FAMILY

DWELLINGS, GROUP R-3 AND R-4 BUILDINGS AND TOWNHOUSES

<u>AUTOMATIC SPRINKLER SYSTEM (DESIGN STANDARD)</u>	<u>MINIMUM FIRE FLOW (gallons per minute)</u>	<u>FLOW DURATION (hours)</u>
<u>No auto sprinkler system</u>	<u>Value in Table B105.1(2)</u>	<u>Duration in Table B105.1(2)</u>
<u>Section 903.3.1.1 of the International Fire Code</u>	<u>25-50 % of the value in Table B105.1(2)^{ab}</u>	<u>Duration in Table B105.1(2) at the reduced flow rate</u>
<u>Section 903.3.1.2 of the International Fire Code</u>	<u>25-50 % of the value in Table B105.1(2)^b</u>	<u>Duration in Table B105.1(2) at the reduced flow rate</u>

For SI: 1 gallon per minute = 3.785 L/m.

~~a. The reduced flow rate shall be not less than 1,000 gallons per minute.~~

ba. The reduced flow rate shall be not less than 1,500 gallons per minute.

APPENDIX C FIRE HYDRANT LOCATIONS AND DISTRIBUTION

Appendix C is adopted in whole in accordance with 2018 Edition of the International Fire Code Section 101.2.1.

Section C102.2 Distance to a Fire Department Connection (FDC)

Section C102.2 is added to Section C102 Number of Fire Hydrants for a building to read:

C102.2 Distance to a Fire Department Connection (FDC). The maximum distance from a fire hydrant to a fire department connection (FDC) supplying fire sprinklers and/or standpipes shall not exceed 75 feet, or as determined by the fire code official.

APPENDIX D FIRE APPARATUS ROADS

Appendix D is adopted in whole in accordance with 2018 Edition of the International Fire Code Section 101.2.1.

APPENDIX L REQUIREMENTS FOR FIRE FIGHTER AIR REPLENISHMENT SYSTEMS

Appendix L is adopted in whole in accordance with 2018 Edition of the International Fire Code Section 101.2.1.

Section B105.2

Amend section B105.2 to read as follows:

BIOS.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 BIOS.I.

Exception: A reduction in required fire flow of up to 50 percent, as *approved*, is allowed when the building is provided with an *approved automatic sprinkler system* installed in accordance with Section 903.3.1.1 or 903.3.1.2. The resulting fire flow shall not be less than 1,500 gallons per minute (5678 L/min) for the prescribed duration as specified in Table B105.1.

PART TWO

International Wildland Urban Interface Code

TABLE OF CONTENTS

Section	Page
101.2 Scope	5
105.3 Alternative materials, design, and methods	5
106.1 General	5
106.2 Limitations of Authority	6
302.3 Review of wildland-urban interface areas	6
402.2.2 Water supply	6
404.1 General	7
404.5 Adequate water supply	7
501.2 Objective	7
502.1 General	8
Table 503.1 Ignition-Resistant Construction	8
504.2 Roof covering	10
504.7.1 Underfloor areas	10
504.10.1 Vent locations	10

505.2	Roof covering	11
505.10.1	Vent locations	11
603.2.1.1	Adjacent land	12
603.2.2	Trees	12
604.4	Trees	12
604.4.1	Chimney clearance	12
604.5	Non-combustible area	12
607.1	General	13
B101.1	Scope	13
B101.2	Plan content	13
B102	Defensible Space Plans	14

2018 Northern Nevada Wildland-Urban Interface Code Amendments

Section 101.2 Scope

Section 101.2 is amended to read:

101.2 Scope. The provisions of this code the Wildland- Urban Interface Code shall apply to the construction, alteration, movement, repair, maintenance and use of any building, structure or premises and to the management of fuels on undeveloped lots and on unmodified portions of large lots within the wildland-urban interface areas in this jurisdiction.

Buildings or conditions in existence at the time of the adoption of this code are allowed to have their use or occupancy continued, if such condition, use or occupancy was legal at the time of the adoption of this code, provided such continued use does not constitute a distinct danger to life or property.

Buildings or structures moved into or within the jurisdiction shall comply with the provisions of this code for new buildings or structures.

Section 101.2 Scope

Amend section 101.2 to read as follows:

101.2 Scope. The provisions of the Wildland Urban Interface Code shall apply to the construction, alteration, movement, repair, maintenance and use of any building, structure or premises and to the management of fuels on undeveloped lots and on unmodified portions of large lots within the wildland-urban interface areas in this jurisdiction.

Buildings or conditions in existence at the time of the adoption of this code are allowed to have their use or

~~occupancy continued, if such condition, use or occupancy was legal at the time of the adoption of this code, provided such continued use does not constitute a distinct danger to life or property.~~

~~Buildings or structures moved into or within the jurisdiction shall comply with the provisions of this code for new buildings or structures.~~

Section 105.3 Alternative materials, design, and methods

Section 105.3 is amended to read:

105.3 Alternative materials, design, and methods. The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material, design or method shall be approved where ~~the building official in concurrence with~~ the fire chief or the fire code official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, not less than the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

Where the alternative material, design or method is not approved, the ~~building official~~ fire chief or the fire code official shall respond in writing, stating the reasons why the alternative was not approved.

Section 106.1 General

Section 106.1 is amended to read:

106.1 General. To determine the suitability of alternative materials and methods and to provide for reasonable interpretations of the provisions of this code see *International Fire Code* section 109 as adopted by the Authority Having Jurisdiction. ~~there shall be and hereby is created a board of appeals consisting of five members who are qualified by experience and training to pass judgment on pertinent matters. The code official, building official and fire chief shall be ex officio members, and the code official shall act as secretary of the board. The board of appeals shall be appointed by the legislative body and shall hold office at their discretion. The board shall adopt reasonable rules and regulations for conducting its investigations and shall render decisions and findings in writing to the code official, with a duplicate copy to the applicant.~~

Section 106 Appeals

Amend section 106 to read as follows:

106.1 General. To determine the suitability of alternative materials and methods and to provide for reasonable interpretations of the provisions of this code see *International Fire Code* section 108 as adopted by the Authority Having Jurisdiction.

Section 302.3 Review of wildland-urban interface areas.

Section 302.3 is amended to read:

302.3 Review of wildland-urban interface areas. The code official shall reevaluate and recommend modification to the *wildland-urban interface areas* in accordance with Section 302.1 ~~on a 3-year basis or more frequently as deemed necessary by the legislative body.~~ as deemed necessary by the code official.

Section 302.3 Review of Wildland-Urban Interface Areas

Amend section 302.3 to read as follows:

~~**302.3 Review of wildland-urban interface areas.** The code official shall reevaluate and recommend modification to the *wildland-urban interface areas* in accordance with Section 302.1 as deemed necessary by the code official.~~

Section 402.2.2 Water supply

Section 402.2.2 is amended to read:

Section 402.2.2 Water Supply. Individual structures hereinafter constructed or relocated into or within wildland-urban interface areas shall be provided with a conforming water supply in accordance with Section 404.

Exceptions:

1. Structures constructed to meet the requirements for the class of ignition-resistant construction specified in Table 503.1 for a nonconforming water supply and an automatic fire sprinkler system.
2. Buildings containing only private garages, carports, sheds and agricultural buildings with a floor area of not more than 600 square feet (56 m²).
- 4.3. Agricultural buildings constructed for the storage limited to harvested commodities, without electrical or fuel gas services.

Section 404.1 General

Section 404.1 is amended to read:

404.1 General. Where provided in order to qualify as a conforming water supply for the purpose of Table 503.1 or as required for new subdivisions in accordance with Section 402.1.2, an *approved* water source shall have an adequate water supply for the use of the fire protection service to protect buildings and structures from exterior fire sources or to suppress structure fires within the *wildland-urban interface area* of the jurisdiction in accordance with this section.

Exception: Buildings containing only private garages, carports, sheds and agricultural buildings with a floor area of not more than 600 square feet (56 m²), and agricultural buildings constructed for the storage of harvested crops or agricultural commodities without electrical or fuel gas services.

Section 404.5 Adequate water supply

Section 404.5 is amended to read:

404.5 Adequate water supply. Adequate water supply shall be determined for purposes of initial attack and flame front control as follows:

1. One- and two-family dwellings. The required water supply for one- and two-family dwellings having a fire flow calculation area that does not exceed 3,600 square feet (334 m²) shall be 1,000 gallons per minute (63.1 L/s) for a minimum duration of 30 minutes. The required fire flow supply for one- and two-family dwellings having a flow calculation area in excess of 3,600 square feet (334 m²) shall be 1,500 gallons per minute (95 L/s) for a minimum duration of 30 minutes.

Exception: A reduction in required flow rate of ~~75~~ 50 percent, as approved by the code official, is allowed where the building is provided with an approved automatic sprinkler system.

2. Buildings other than one- and two-family dwellings. The water supply required for buildings other than one- and two-family dwellings shall be as approved by the code official but shall not be less than 1,500 gallons per minute (95 L/s) for a duration of 2 hours.

Exception: A reduction in required flow rate of up to ~~75~~ 50 percent, as approved by the code official, is allowed where the building is provided with an approved automatic sprinkler system. The resulting water supply shall not be less than 1,500 gallons per minute (94.6 L/s).

Section 501.2 Objective

Section 501.2 is amended to read:

501.2 Objective. The objective of this chapter is to establish minimum standards to locate, design and construct buildings and structures or portions thereof for the protection of life and property, to resist damage from wildfires, and to mitigate building and structure fires from spreading to wildland fuels.

The minimum standards set forth in this chapter vary with the critical *fire weather*, slope and fuel type to provide increased protection, above the requirements set forth in the *International Building Code* and the *International Residential Code*, from the various levels of hazards.

~~Section 501.2 Objective~~

Amend section 501.2 to read as follows:

501.2 Objective. The objective of this chapter is to establish minimum standards to locate, design and construct buildings and structures or portions thereof for the protection of life and property, to resist damage from wildfires, and to mitigate building and structure fires from spreading to wildland fuels. The minimum standards set forth in this chapter vary with the critical *fire weather*, slope and fuel type to provide increased protection, above the requirements set forth in the *International Building Code* and the *International Residential Code*, from the various levels of hazards.

Section 502.1 General

Section 502.1 is amended to read:

502.1 General. The fire hazard severity of building sites for all buildings hereafter constructed, modified or relocated into *wildland-urban interface areas* shall be established in accordance with Table 502.1 or Appendix C or the map developed by the Authority Having Jurisdiction as determined by the code official.
~~See also Appendix C.~~

~~Section 502.1 General (Fire Hazard Severity)~~

Amend section 501.1 to read as follows:

502.1 General. The fire hazard severity of building sites for all buildings hereafter constructed, modified or relocated into *wildland-urban interface areas* shall be established in accordance with Table 502.1 or Appendix C or the map developed by the Authority Having Jurisdiction as determined by the code official.

Table 503.1 Ignition-Resistant Construction

Table 503.1 is amended to read as follows:

Table 503.1

IGNITION-RESISTANT CONSTRUCTION^a

<u>DEFENSIBLE SPACE^c</u>	<u>FIRE HAZARD SEVERITY</u>					
	<u>Moderate Hazard</u>		<u>High Hazard</u>		<u>Extreme Hazard</u>	
	<u>Water supply^b</u>		<u>Water supply^b</u>		<u>Water supply^b</u>	
	<u>Conforming^d</u>	<u>Nonconforming^e</u>	<u>Conforming^d</u>	<u>Nonconforming^e</u>	<u>Conforming^d</u>	<u>Nonconforming^e</u>
<u>Nonconforming^g</u>	<u>IR 2</u>	<u>IR 1</u>	<u>IR 1</u>	<u>IR 1</u> <u>N.C.</u>	<u>IR 1</u> <u>N.C.</u>	<u>Not Permitted</u>
<u>Conforming</u>	<u>IR 3</u>	<u>IR 2</u>	<u>IR 2</u>	<u>IR 1</u>	<u>IR 1</u>	<u>IR 1</u> <u>N.C.</u>
<u>1.5 x Conforming^f</u>	<u>Not Required</u>	<u>IR 3</u>	<u>IR 3</u>	<u>IR 2</u>	<u>IR 2</u>	<u>IR 1</u>

a. Access shall be in accordance with Section 403.

b. Subdivisions shall have a conforming water supply in accordance with Section 402.1.

IR 1= Ignition-resistant construction in accordance with Section 504.

IR 2= Ignition-resistant construction in accordance with Section 505.

IR 3= Ignition-resistant construction in accordance with Section 506.

N.C.= Exterior walls shall have a fire-resistance rating of not less than 1 hour and the exterior surfaces of such walls shall be noncombustible. Usage of log wall construction is allowed.

c. Conformance based on Section 603.

d. Conformance based on Section 404.

e. A nonconforming water supply is any water system or source that does not comply with Section 404, including situations where there is not water supply for structure protection or fire suppression.

f. Only with the approval of the fire code official

Section 504.2 Roof Covering

Amend section 504.2 to read as follows:

504.2 Roof covering. ~~Roofs shall have a Class A roof assembly. For roof coverings where the profile allows a space between the roof covering and roof decking, the space at the eave ends shall be firestopped to preclude entry of flames or embers, or have one layer of 72-pound (32.4 kg) mineral surfaced, nonperforated cap sheet complying with ASTM D 3909 installed over the combustible decking. Roof coverings consisting of shakes or shingles made of wood are not approved as part of any Class A roof assembly.~~

Section 504.7.1 Underfloor Areas

Amend section 504.7.1 to read as follows:

504.7.1 Underfloor areas. ~~When the attached structure is located and constructed so that the structure or any portion thereof projects over a descending slope surface greater than 10 percent, the area below the structure shall have all underfloor areas enclosed to within 6 inches (152 mm) of the~~

~~ground, with exterior wall construction in accordance with Section 504.5.~~

~~**Exception:** When approved by the code official, unenclosed underfloor areas are allowed and are to be kept free of all combustible materials.~~

~~Section 504.10.1 Vent Location~~

~~Add the following exception to section 504.10.1:~~

~~**504.10.1 Vent locations.** Attic ventilation openings shall not be located in soffits, in eave overhangs, between rafters at eaves, or in other overhang areas. Gable end and dormer vents shall be located at least 10 feet (3048 mm) from lot lines. Underfloor ventilation openings shall be located as close to grade as practical.~~

~~**Exception:** Vents designed and approved to prevent flame or ember penetration into the structure may be located in soffits, in eave overhangs, between rafters at eaves, or in other overhang.~~

Section 504.2 Roof covering

Section 504.2 is amended to read:

504.2 Roof covering. Roofs shall have a Class A rating when tested in accordance with ASTM E108 or UL 790. For roof coverings where the profile allows a space between the roof covering and roof decking, the space at the eave ends and ridge line shall be fire-stopped to preclude entry of flames or embers, or have one layer of 72-pound (32.4 kg) mineral-surfaced, nonperforated cap sheet complying with ASTM D 3909 installed over the combustible decking. Roof coverings consisting of shakes or shingles made of wood are not approved as part of any Class A roof assembly.

Exceptions:

1. Class A roof assemblies include those with coverings of brick, masonry or an exposed concrete roof deck.
2. Class A roof assemblies also include ferrous or copper shingles or sheets, metal sheets and shingles, clay or concrete roof tile or slate installed on noncombustible decks or ferrous, copper or metal sheets installed without a roof deck on noncombustible framing.
- 4.3. Class A roof assemblies include a minimum 16 oz/sq. ft. (0.0416 kg/m²) copper sheets installed over combustible decks.

Section 504.7.1 Underfloor areas

Section 504.7.1 is amended to read:

504.7.1 Underfloor areas. When the attached structure is located and constructed so that the structure or any portion thereof projects over a descending slope surface greater than 10 percent, the area below the structure shall have all underfloor areas enclosed to within 6 inches (152 mm) of the ground, with exterior wall construction in accordance with Section 504.5.

Exception: When approved by the code official, unenclosed underfloor areas are allowed and are to be kept free of all combustible materials.

Section 504.10.1 Vent locations

Section 504.10.1 is amended to read:

504.10.1 Vent locations. Attic ventilation openings shall not be located in soffits, in eave overhangs, between rafters at eaves, or in other overhang areas. Ember-resistant gable end and dormer vents shall be located at least 10 feet (3048 mm) from lot lines. Underfloor ventilation openings shall be located as close to grade as practical.

Exceptions:

1. Listed vents complying with ASTM E2886.
 - 1.1 The Ember Intrusion Test shall have no flaming ignition of the cotton material.
 - 1.2 There shall be no flaming ignition during the Integrity Test portion of the Flame Intrusion Test. The maximum temperature of the unexposed side of the vent shall not exceed 662 degrees Fahrenheit (350 degrees Celsius).
2. The fire code official may accept or approve special eave and cornice vents that resist the intrusion of flame and burning embers.

Section 505.2 Roof covering

Section 505.2 is amended to read:

505.2 Roof Covering. Roofs shall have a roof assembly that complies with not less than a Class A B rating when tested in accordance with ASTM E108 or UL 790, ~~or an approved noncombustible roof covering.~~ For roof coverings where the profile allows a space between the roof covering and roof decking, the space at the eave ends shall be fire stopped to preclude entry of flames or embers, or have one layer of 72-pound mineral-surfaced, nonperforated cap sheet complying with ASTM D3909 installed over the combustible decking areas.

Section 505.10.1 Vent locations

Section 505.10.1 is amended to read:

505.10.1 Vent locations. Attic ventilation openings shall not be located in soffits, in eave overhangs, between rafters at eaves, or in other overhang areas. Ember-resistant gable end and dormer vents shall be located at least 10 feet (3048 mm) from lot lines. Underfloor ventilation openings shall be located as close to grade as practical.

Exceptions:

1. Listed vents complying with ASTM E2886.
 - 1.1 The Ember Intrusion Test shall have no flaming ignition of the cotton material.
 - 1.2 There shall be no flaming ignition during the Integrity Test portion of the Flame Intrusion Test. The maximum temperature of the unexposed side of the vent shall not exceed 662 degrees Fahrenheit (350 degrees Celsius).
2. The fire code official may accept or approve special eave and cornice vents that resist the intrusion of flame and burning embers.

~~Section 505.10.1 Vent Location~~

~~Add the following exception to section 505.10.1:~~

~~**505.10.1 Vent locations.** Attic ventilation openings shall not be located in soffits, in eave overhangs, between rafters at eaves, or in other overhang areas. Gable end and dormer vents shall be located at least 10 feet (3048 mm) from lot lines. Underfloor ventilation openings shall be located as close to grade as practical.~~

~~**Exception:** Vents designed and approved to prevent flame or ember penetration into the structure may be located in soffits, in eave overhangs, between rafters at eaves, or in other overhang areas.~~

~~Section 602.1 Automatic Sprinkler Systems
Amend section 602.1 to read as follows:~~

~~**602.1 General.** In Carson City, North Lake Tahoe Fire Protection District, City of Reno, City of Sparks, Sierra Fire Protection District, Tahoe Douglas Fire Protection District and Truckee Meadows Fire Protection District an approved automatic sprinkler system shall be installed in all occupancies in new buildings located more than one thousand feet (1,000') from an approved water supply as measured along an approved fire access road. The installation of the automatic sprinkler system shall be in accordance with nationally recognized standards.~~

Section 603.2.1.1 Adjacent land

~~*Section 603.2.1.1 is added to Section 603.2.1 Responsible party to read:*~~

~~**603.2.1 Responsible party.** Persons owning, leasing, controlling, operating or maintaining buildings or structures requiring defensible spaces are responsible for modifying or removing non-fire-resistive vegetation on the property owned, leased or controlled by said person.~~

~~**603.2.1.1 Adjacent land.** Property owners of land that is directly adjacent to property containing buildings or structures requiring defensible space are responsible for modifying or removing non-fire-resistive vegetation on their own property. Nothing in this provision shall be deemed to require an owner of real property to perform any work on land that he or she does not own.~~

603.2.2 Trees

~~*Section 603.2.2 is amended to read:*~~

~~**603.2.2 Trees.** Trees are allowed within the *defensible space*, provided the horizontal distance between crowns of adjacent trees and crowns of trees and structures, overhead electrical facilities or unmodified fuel is not less than 10 feet (3048 mm) or an acceptable distance as determined by the code official.~~

Section 604.4 Trees

~~*Section 604.4 is amended to read:*~~

~~**604.4 Trees.** Tree crowns extending to within 10 feet (3048 mm) of any structure shall be pruned to maintain a minimum ~~horizontal~~ clearance of 10 feet (3048 mm) or an acceptable distance as determined by the code official. Tree crowns within the *defensible space* shall be pruned to remove limbs located less than ~~6~~ 10 feet (~~1829~~ 3048 mm) above the ground surface adjacent to the trees; or an acceptable distance as determined by the code official.~~

Section 604.4.1 Chimney clearance

Section 604.4.1 is amended to read:

604.4.1 Chimney clearance. Portions of tree crowns that extend to within 10 feet (3048 mm) of the outlet of a chimney shall be pruned to maintain a minimum ~~horizontal~~ clearance of 10 feet (3048 mm).

604.5 Non-combustible area

Section 604.5 is added to Section 604 Maintenance of Defensible Space to read:

604.5 Non-combustible area. The area extending from the base of any structure to 5 feet beyond the base of such structure shall be composed entirely of non-combustible material or fire resistive vegetation.

Section 607.1 General

Section 607.1 is amended to read:

607.1 General. Firewood and combustible material shall not be stored in unenclosed spaces beneath buildings or structures, or on decks or under eaves, canopies or other projections or overhangs. When required by the code official, storage of firewood and combustible material stored in the *defensible space* shall be located a minimum of ~~20-30 feet (6096-9144 mm)~~ from structures and separated from the crown of trees by a minimum horizontal distance of 15 feet (4572 mm).

Exception. Approved fire-resistance-rated coverings used in accordance with their listing and as approved and allowed by the Fire Code Official.

Section 603.2.1 Responsible Party

Add new subsection 603.2.1.1 to 603.2.1:

~~**603.2.1 Responsible party.** Persons owning, leasing, controlling, operating or maintaining buildings or structures requiring defensible spaces are responsible for modifying or removing nonfire-resistive vegetation on the property owned, leased or controlled by said person.~~

~~**603.2.1.1 Adjacent land.** Property owners of land that is directly adjacent to property containing buildings or structures requiring defensible space are responsible for modifying or removing nonfire-resistive vegetation on said property.~~

~~**Section 603.2.2 Trees (Defensible Space)**~~

Amend section 603.2.2 to read as follows:

~~**603.2.2 Trees.** Trees are allowed within the *defensible space*, provided the horizontal distance between crowns of adjacent trees and crowns of trees and structures, overhead electrical facilities or unmodified fuel is not less than 10 feet (3048 mm) or an acceptable distance as determined by the code official."Section 604.4 Trees (Maintenance of Defensible Space)~~

Amend section 604.4 to read as follows:

~~604.4 Trees. Tree crowns extending to within 10 feet (3048 mm) of any structure shall be pruned to maintain a minimum clearance of 10 feet (3048 mm) or an acceptable distance as determined by the code official. Tree crowns within the *defensible space* shall be pruned to remove limbs located less than 10 feet (3048 mm) above the ground surface adjacent to the trees; or an acceptable distance as determined by the code official~~

~~Section 604.4.1 Chimney Clearance~~

~~Amend section 604.1 to read as follows:~~

~~604.4.1 Chimney clearance. Portions of tree crowns that extend to within 10 feet (3048 mm) of the outlet of a chimney shall be pruned to maintain a minimum clearance of 10 feet (3048 mm).~~

~~Section 604.5 Non-combustible Area~~

~~Add new subsection to 604:~~

~~604.5 Non-combustible area. The area extending from the base of any structure to 5 feet beyond the base of such structure shall be composed entirely of non-combustible material or fire resistive vegetation.~~

~~Section 607.1 General~~

~~Amend section 607.1 to read as follows:~~

~~607.1 General. Firewood and combustible material shall not be stored in unenclosed spaces beneath buildings or structures, or on decks or under eaves, canopies or other projections or overhangs. When required by the code official, storage of firewood and combustible material stored in the *defensible space* shall be located a minimum of 30 feet (6096 mm) from structures and separated from the crown of trees by a minimum horizontal distance of 15 feet (4572 mm).~~

Appendix B

Appendix Section B101.1 Scope

Section B101.1 is amended to read:

B101.1 Scope. Where required vegetation management plans shall be submitted to the code official and the State Forester Fire Warden for review and approval as part of the plans required for a permit.

Appendix Section B101.2 Plan content

Section B101.2 is amended to read:

B101.2 Plan content. Vegetation management plans shall describe all actions that will be taken to prevent a fire from being carried toward or away from the building. A vegetation management plan shall include at least the following information:

1. A copy of the *site defensible space* plan.
2. Methods and timetables for controlling, changing or modifying areas on the property. Elements of the plan shall include removal of slash, snags, vegetation that may grow into overhead electrical lines, other ground fuels, ladder fuels and dead trees, and the thinning of live trees.
3. A plan for maintaining the proposed fuel-reduction measures.

Appendix Section B102 Defensible Space Plans

Sections B102, B102.1, and B102.2 are added to Appendix B Vegetation Management Plan is read:

B102 Defensible Space Plans.

B102.1 General. Where required, defensible space plans must be submitted to the code official for review and approval as part of the plans required for a permit.

B102.2 Plan content. A defensible space plan shall include at least the following information:

1. Property boundaries.
2. Current and proposed structures on the property.
3. Trees and vegetation taller than 3 feet in height.
4. Individual plant or brush fields 20 square feet or larger in area.
5. Tree drip lines.

6. Roads and driveways abutting the property.

Section B101.1 Scope

Amend section B101.1 to read as follows:

B101.1 Scope. Where required vegetation management plans shall be submitted to the code official and the State Forester Firewarden for review and approval as part of the plans required for a permit.

Section B101.2 Plan Content

Amend section B101.2 to read as follows:

B101.2 Plan content. Vegetation management plans shall describe all actions that will be taken to prevent a fire from being carried toward or away from the building. A vegetation management plan shall include at least the following information:

1. A copy of the defensible space plan.
2. Methods and timetables for controlling, changing or modifying areas on the property. Elements of the plan shall include removal of slash, snags, vegetation that may grow into overhead electrical lines, other ground fuels, ladder fuels and dead trees, and the thinning of live trees.
3. A plan for maintaining the proposed fuel-reduction measures.

Section B102 Defensible Space Plans

~~Add the following new sections to Appendix B:~~

~~SECTION B102 DEFENSIBLE SPACE PLANS~~

~~**B102.1 General.** Where required, defensible space plans must be submitted to the code official for review and approval as part of the plans required for a permit.~~

~~**B102.2 Plan content.** A defensible space plan shall include at least the following information:~~

- ~~1. Property boundaries.~~
- ~~2. Current and proposed structures on the property.~~
- ~~3. Trees and vegetation taller than 3 feet in height.~~
- ~~4. Individual plant or brush fields 20 square feet or larger in area.~~
- ~~5. Tree drip lines.~~
- ~~6. Roads and driveways in abutting the property.~~