

2018 Northern Nevada Fire Code Amendment Matrix
August 8, 2018

NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
New NNFC-2018 amendment	102.7 Referenced codes and standards. The codes and standards referenced in this code shall be those that are listed in Chapter 80, and such codes and standards shall be considered to be part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Section 1103.1.1.	102.7 Referenced codes and standards. The codes and standards referenced in this code shall be these <u>the most current</u> that are listed in Chapter 80, and such codes and standards shall be considered to be part of the requirements of this code to the prescribed extent of each such reference and as further regulated in Section 1103.1.1.	Review date: 11-16-17 Approval date: 11-16-17 Action date: 2-7-18 New amended code section proposed by committee. Reflects the current edition of referenced codes and standards as noted in IFC-2018 Chapter 80. 2-7-18: change wording to "the most current".
New NNFC-2018 amendment	Section not found in IFC-2018	<u>Section 105.6.51 Fire Fighter Air Replenishment Systems. An operational permit is required to maintain a Fire Fighter Air Replenishment System.</u>	Review date: 4-19-18 Approval date: 4-19-18 New- Subsection added by committee to IFC-2018 Section 105.6 Required operational permits, to require an operational permit for fire fighter air replenishment systems as referenced in IFC-2018 Section L103.3 Operational Permit.
New NNFC-2018 amendment	Section not found in IFC-2018	<u>Section 105.6.52 Emergency responder radio coverage system. An operational permit is required for the operation and maintenance of an emergency radio coverage system and related equipment, as specified in Section 510.</u>	Review date: 6-21-18 Approval date: 6-21-18 New subsection approved by committee.
New NNFC-2018 amendment	Section not found in IFC-2018	<u>Section 105.7.26 Fire Fighter Air Replenishment Systems. A construction permit is required for installation of or modification to a Fire Fighter Air Replenishment System. The construction permit application shall include documentation of an acceptance and testing plan as specified in Appendix L Section L105.</u>	Review date: 4-19-18 Approval date: 4-19-18 New- Subsection added by committee to IFC-2018 Section 105.7 Required construction permits, to require a construction permit for fire fighter air replenishment systems as referenced in IFC-2018 Section L103.2 Construction permit.
202 HIGH-RISE BUILDING. A building with an occupied floor located more than 75-55 feet (22-860-16 764 mm) above the lowest level of fire department vehicle access.	202 HIGH-RISE BUILDING. A building with an occupied floor located more than 75 feet (22 806 mm) above the lowest level of fire department vehicle access.	202 HIGH-RISE BUILDING. A building with an occupied floor located more than 75 55 feet (22-806 <u>16 764</u> mm) above the lowest level of fire department vehicle access	Review date: 11-16-17 Approval date: 11-16-17

LATE MATERIAL
MEETING DATE 10-18-18
ITEM # 15

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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
			Existing IFC-2012 amended section carried forward to IFC-2018, matching State requirements.
<p>202 OCCUPANCY CLASSIFICATION 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. <u>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.</u> This group shall include, but not be limited to, the following: Alcohol and drug centers Assisted living facilities Congregate care facilities Group homes Half-way houses Residential board and custodial care facilities Social rehabilitation facilities</p>	<p>202 OCCUPANCY CLASSIFICATION 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. 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 Condition 1. This occupancy condition shall include buildings in which all persons receiving custodial care who, without any assistance, are capable to responding to an emergency situation to complete building evacuation. 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.</p>	<p>202 OCCUPANCY CLASSIFICATION 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. <u>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.</u> 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 Condition 1. This occupancy condition shall include buildings in which all persons receiving custodial care who, without any assistance, are capable to responding to an emergency situation to complete building evacuation. Condition 2. This occupancy shall include buildings in which there are any persons</p>	<p>Review date: 11-16-17 Approval date: 11-16-17 Existing IFC-2012 amended section carried forward to the IFC-2018 addressing patient care classifications as determined by the State Board of Health for the determination of capability of self- preservation.</p>

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	<p>[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.</p> <p>[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 <i>International Residential Code</i> provided an <i>automatic sprinkler system</i> is installed in accordance with Section 903.3.1.3 or Section P2904 of the <i>International Residential Code</i>.</p>	<p>requiring custodial care who require limited verbal or physical assistance while responding to an emergency situation to complete building evacuation.</p> <p>[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.</p> <p>[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 <i>International Residential Code</i> provided an <i>automatic sprinkler system</i> is installed in accordance with Section 903.3.1.3 or Section P2904 of the <i>International Residential Code</i>.</p>	<p></p>
<p>Institutional Group I-4, day care facilities. This group shall include buildings and structures occupied by more than five <u>six</u> 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 Classification as Group E. A child day care facility that provides care for more than five <u>six</u> but no more</p>	<p>202 Occupational Classification Group I-4, day care facilities. Institutional Group I-4 shall include buildings and structures occupied by more than five 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. Classification as Group E. A child day care facility that provides care for more than five 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 <i>level</i></p>	<p>202 Occupational Classification Group I-4, day care facilities. Institutional Group I-4 shall include buildings and structures occupied by more than five <u>six</u> 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. Classification as Group E. A child day care facility that provides care for more than five <u>six</u> 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 <i>level of</i></p>	<p>Review date: 11-16-17 Approval date: 11-16-17 Existing IFC-2012 amended section carried forward to IFC-2018, matching State requirements.</p>

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<p>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.</p> <p>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.</p> <p>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.</p> <p>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 <i>International Residential Code</i>.</p>	<p>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.</p> <p>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.</p> <p>Five or fewer occupants receiving care. A facility having five or fewer persons receiving custodial care shall be classified as part of the primary occupancy.</p> <p>Five or fewer occupants receiving care in a dwelling unit. A facility such as the above within a dwelling unit and having five or fewer persons receiving custodial care shall be classified as a Group R-3 occupancy or shall comply with the <i>International Residential Code</i>.</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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 <i>International Residential Code</i>.</p>	
<p>202 OCCUPANCY CLASSIFICATION Residential Group R-1. Residential occupancies containing sleeping units where the occupants are primarily transient in nature, including: Boarding houses (transient) with more than 10 occupants</p>	<p>202 Occupancy Classification Residential Group R-1. Residential Group R-1 occupancies are primarily transient in nature and include: Boarding houses (transient) with more than 10 occupants</p>	<p>202 Occupancy Classification Residential Group R-1. Residential Group R-1 occupancies are primarily transient in nature and include: Boarding houses (transient) with more than 10 occupants <u>Brothels</u></p>	<p>Review date: 11-16-17 Approval date: 11-16-17 Existing IFC-2012 amended section carried forward to IFC-2018, matching State requirements.</p>

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Brothels Congregate living facilities (transient) with more than 10 occupants Hotels (transient) Motels (transient)	Congregate living facilities (transient) with more than 10 occupants Hotels (transient) Motels (transient)	Congregate living facilities (transient) with more than 10 occupants Hotels (transient) Motels (transient)	
202 OCCUPANCY CLASSIFICATION Residential Group R-3. Residential occupancies where the occupants are primarily permanent in nature and not classified as Group R-1, R-1, 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 five <u>six</u> or fewer persons receiving care Congregate living facilities (nontransient) with 16 or fewer occupants Congregate living facilities (transient) with 10 or fewer occupants	202 OCCUPANCY CLASSIFICATION 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 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.	202 OCCUPANCY CLASSIFICATION 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 <u>six</u> 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.	Review date: 11-16-17 Approval date: 11-16-17 Existing IFC-2012 amended section carried forward to IFC-2018, matching State requirements.
202 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)	202 Moderate-hazard storage, Group S-1. Storage Group S-1 occupancies are 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	Existing NNFC-2012 not carried forward	Review date: 11-16-17 Action date: 11-16-17 Existing IFC-2012 amended section 202 Occupancy Classification concerning Moderate-hazard Storage Group S-1 was not

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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 Dry boat storage (indoor) 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 <i>listed in Table 5003.1.1(1) (see Section 406.8 of the International Building Code)</i> Photo engravings Resilient flooring <u>Self-serve storage (mini-storage)</u> Silks Soaps Sugar Tires, bulk storage of Tobacco, cigars, cigarettes and snuff	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 Dry boat storage (indoor) 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 <i>listed in Table 5003.1.1(1) (see Section 406.8 of the International Building Code)</i> Photo engravings Resilient flooring Self-serve storage (mini-storage) Silks Soaps Sugar		carried forward to IFC-2018. Committee decided to go with base code language.

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Upholstery and mattresses Wax candles	Tires, bulk storage of Tobacco, cigars, cigarettes and snuff Upholstery and mattresses Wax candles		
202 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	Low-hazard storage, Group S-2. Storage Group S-2 occupancies include, 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 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	Existing NNIFC-2012 not carried forward	Review date: 11-16-17 Action date: 11-16-17 Existing IFC-2012 amended section 202 Occupancy Classification concerning Low-hazard Storage Group S-2 was not carried forward to IFC-2018. Committee decided to go with base code language.

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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	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		
New NNFC-2018 amendment	Definition not found in IFC-2018	<u>202 Unwanted Alarm. Any alarm that occurs that is not the result of a potentially hazardous condition.</u>	Review date: 5-17-18 Approval date: 5-17-18 New- Addition of new definition of unwanted alarm proposed by the committee.
New NNFC-2018 amendment	307.4.3 Portable outdoor fireplaces. Portable outdoor fireplaces shall be 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.	307.4.3 Portable outdoor fireplaces. Portable outdoor fireplaces shall be 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.	Review date: 12-14-17 Approval date: 12-14-17 New- Deletion proposed by the committee of the exception for the use of portable outdoor fireplaces used in one- and two-family dwellings allowing use within 15 feet (3048 mm) of a structure or combustible material.

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New NNFC-2018 amendment	308.1.6.3 Sky lanterns. A person shall not release or cause to be released an untethered sky lantern.	308.1.6.3 Sky lanterns. A person shall not release or cause to be released an untethered sky lantern. <u>Sky lanterns are prohibited.</u>	Review date: 3-13-18 Approval date: 3-13-18 New- Section amended by the committee prohibiting use sky lantern.
<u>315.4.3 Pallets 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 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.</u>	Section not found in IFC-2018	NNFC-2012 amendment not carried forward to NNFC-2018	Review date: 11-16-17 Action date: 11-16-17 Existing 2012 added section 315.4.3 Pallets and Firewood was not carried forward to IFC-2018 per committee discussion.
New NNFC-2018 amendment	319.4.1 Fire protection for cooking equipment. Cooking equipment shall be protected by automatic fire extinguishing systems in accordance with Section 904.12.	319.4.1 Fire protection for cooking equipment. Cooking equipment shall be protected by automatic fire extinguishing systems in accordance with Section <u>Sections 607.2 and 904.12.</u>	Review date: 3-13-18 Approval date: 3-13-18 IFC-2018 Section 319.4.1 amended by the committee to add reference to IFC-2018 Section 607.2 Where required (commercial kitchen hoods) to it.
New NNFC-2018 amendment	Section not found in IFC-2018	<u>SECTION 320 NATURAL GAS METER PROTECTION</u> <u>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). The protective cover shall be designed to be equal to or greater than the Building Design Load (determined by the Building Department). The cover shall be approved by the natural gas supplier, shall be installed over the meter</u>	Review date: 4-19-18 Approval date: 4-19-18 New- Sections 320 and 320.1 added to IFC-2018 by committee for natural gas meter protection for buildings located above 5,800 feet (1767.48 m).

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		<u>assembly, and securely supported to the ground or diagonally to the building wall. When supported to the ground, the footing of the supports shall be founded 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.</u>	
New NNFC-2018 proposed amendment	403.12.3 Crowd manager. Where facilities or event involve a gathering of more than 500 people, crowd managers shall be provided in accordance with Sections 403.12.3.1 through 403.12.3.3.	Amendment not approved 403.12.3 Crowd manager. Where facilities or event involve a gathering of more than 500 people, crowd managers shall be provided in accordance with Sections 403.12.3.1 through 403.12.3.3.	Review date: 12-14-17 Approval date: 12-14-17 Action date: 7-12-18 Amendment to IFC-2018 Section 403.12.3 proposed by committee members (Reno FD) establishing requirements for use of crowd control managers. 7-12-18: Group discussion decided to strike proposed amendment and follow base code.
New NNFC- 2018 proposed amendment	403.12.3.1 Number of crowd managers. Not fewer than two trained crowd managers, and not fewer than one trained crowd manager for each 250 persons or portion thereof, shall be provided for the gathering. Exceptions: 1. Outdoor events with fewer than 1,000 persons in attendance shall not require crowd managers. 2. Assembly occupancies used exclusively for religious worship with an occupant load not exceeding 1,000 shall not require crowd managers. 3. The number of crowd managers shall be reduced where, in the opinion of the fire code official, the protection	Amendment not approved 403.12.3.1 Number of crowd managers. Not fewer than two trained crowd managers, and not fewer than one trained crowd manager for each 250 persons or portion thereof one trained crowd manager shall be provided for occupancies with an occupant load of 100 to 250 persons, not fewer than two crowd managers for occupancies with loads of 251 to 500 persons, and for occupancies with occupant loads above 501, not fewer than one additional trained crowd manager for each additional 250 persons or portion thereof above 501, shall be provided for the gathering. Exceptions:	Review date: 7-12-18 Action date: 7-12-18 Amendment to IFC-2018 Section 403.12.3.1 proposed by committee members (Reno FD) establishing requirements for use of crowd control managers. 7-3-18: Dave voiced concern about the wording of 403.12.3 stating the wording is confusing and intent is not clear. Requested review and revision as required. 7-11-18: Revised to original Reno submittal 7-12-18: Group discussion decided to strike proposed amendment and follow base code

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	provided by the facility and the nature of the event warrant a reduction.	1. Outdoor events with fewer than 1,000 persons in attendance shall not require crowd managers. 2. Assembly occupancies used exclusively for religious worship with an occupant load not exceeding 1,000 shall not require crowd managers. 3. The number of crowd managers shall be reduced where, in the opinion of the fire code official, the fire protection provided by the facility and the nature of the event warrant a reduction.	
New NNFC-2018 amendment	403.12.3.2 Training. Training for crowd managers shall be approved.	403.12.3.2 Training. Training for crowd managers shall be <u>in compliance with the latest International Code Council or National Fire Protection Associations standards or guidelines</u> approved.	Review date: 7-12-18 Approval date: 7-12-18 New- amendment to IFC-2018 Section 403.12.3.2 proposed by committee members (Reno FD) establishing training requirements crowd control managers. Amendment was approved by committee.
New NNFC-2018 proposed amendment	Section not found in IFC-2018	Amendment not approved 505.2 Directory required. When multiple R-2 occupancy buildings are contained in a subdivision and where not all buildings have public street frontage, an approved permanent directory shall be provided at each entrance to the development from surrounding public streets.	Review date: 6-21-18 Action date: 6-21-18 Section addition to IFC-2012 Section 505 Premises Identification proposed by committee members (Carson City FD) for multiple residential buildings in a complex. This amendment is intended to provide consistency for regional application of codes. The purpose of this amendment is to clarify when a development directory is required. The directory is necessary for those developments where multiple residential buildings are contained in a subdivision and

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			<p>where the buildings do not all have public street access. Typically, this amendment applies to apartment and condominium complexes. 6-21-18: Committee deleted proposed amendment.</p>
<p>New NNFC-2018 amendment</p>	<p>505.1 Address Identification. New and existing buildings shall be provided with approved address identification. the address identification shall be legible and places in a position that is visible from the street or road fronting the property. 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). 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.</p>	<p>505.1 Address Identification. New and existing buildings shall be provided with approved <u>maintained all-weather</u> address identification. The address identification shall be legible and places in a position that is visible from the street or road fronting the property. 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) <u>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.</u> 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.</p>	<p>Review date: 3-13-18 Approval date: 3-13-18 Amendments to section proposed by committee to establish identification sign design requirements. Amendment approved by the committee.</p>

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<p>507.3 Fire flow. Fire flow requirements for buildings or portions of buildings and facilities shall be determined by an <i>approved</i> method.</p> <p><u>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.</u></p>	<p>507.3 Fire flow. Fire flow requirements for buildings or portions of building and facilities shall be determined by an approved method.</p>	<p>507.3 Fire flow. Fire flow requirements for buildings or portions of building and facilities shall be determined by an approved method.</p> <p><u>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.</u></p>	<p>Review date: 11-16-17 Approval date: 11-16-17 Existing IFC-2012 amended section carried forward by the committee to the IFC-2018.</p>
<p>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 <i>approved</i>. <u>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 the North Lake Tahoe Fire Protection District and Tahoe Fire Protection District a minimum of fifteen feet (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.</u></p>	<p>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 <i>approved</i>.</p>	<p>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 <i>approved</i>. <u>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 and Tahoe Douglas Fire Protection District, a minimum of four feet (1219 mm) shall also be maintained clear to the rear of any fire hydrant. These requirements shall apply to any public or private property.</u></p>	<p>Review date: 11-16-17 Approval date: 11-16-17 Existing IFC-2012 amended section carried forward by committee to the IFC-2018</p>

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<p>508.1.5 Required features. The <i>fire command center</i> shall comply with NFPA 72 and shall contain the following features:</p> <ol style="list-style-type: none"> 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 <i>stairway</i> 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, <i>means of egress, fire protection systems, fire-fighting equipment and fire department access, and the location of fire</i> 	<p>508.1.6 Required features. The fire command center shall comply with NFPA 72 and shall contain the following features:</p> <ol style="list-style-type: none"> 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 	<p>508.1.6 Required features. The fire command center shall comply with NFPA 72 and shall contain the following features:</p> <ol style="list-style-type: none"> 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 	<p>Review date: 11-16-17 Approval date: 11-16-17 Existing IFC-2012 amended section carried forward by committee to the IFC-2018.</p>

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<p>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,</p>	<p>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</p>	<p>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</p>	

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<p>location of sky lobby, location of freight elevator banks;</p> <p>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;</p> <p>13.6. <i>Fire protection system</i> information that includes: locations of standpipes, location of fire pump room, location of fire department connections, floors protected by <i>automatic</i> sprinklers, location of different types of <i>automatic sprinkler systems</i> installed (e.g., dry, wet, pre-action, etc.); and</p> <p>13.7. Hazardous material information that includes: location of hazardous material, quantity of hazardous material.</p> <p>14. Work table.</p> <p>15. Generator supervision devices, manual start and transfer features.</p> <p>16. Public address system, where specifically required by other sections of this code.</p> <p>17. Elevator fire recall switch in accordance with ASME A17.1.</p> <p>18. Elevator emergency or standby power selector switch(es), where emergency or standby power is provided.</p> <p><u>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</u></p>	<p>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;</p> <p>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.</p> <p>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;</p> <p>13.7. Hazardous material information that includes: location and quantity of hazardous material;</p> <p>14. Work table.</p> <p>15. Generator supervision devices, manual start and transfer features.</p> <p>16. Public address system, where specifically required by other sections of this code.</p> <p>17. Elevator fire recall switch in accordance with ASME A17.1/CSA B44.</p>	<p>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;</p> <p>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.</p> <p>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;</p> <p>13.7. Hazardous material information that includes: location and quantity of hazardous material;</p> <p>14. Work table.</p> <p>15. Generator supervision devices, manual start and transfer features.</p> <p>16. Public address system, where specifically required by other sections of this code.</p> <p>17. Elevator fire recall switch in accordance with ASME A17.1/CSA B44.</p> <p>18. Elevator emergency or standby power selector switch(es), where emergency or standby power is provided.</p>	

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<p><u>shall be connected to the emergency power system.</u></p> <p><u>20. Lighting. Lighting shall provide adequate illumination and shall be on emergency service with additional battery backup emergency lighting.</u></p> <p><u>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.</u></p> <p><u>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 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.</u></p>	<p>18. Elevator emergency or standby power selector switch(es), where emergency or standby power is provided.</p>	<p><u>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.</u></p> <p><u>20. Lighting. Lighting shall provide adequate illumination and shall be on emergency service with additional battery backup emergency lighting.</u></p> <p><u>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.</u></p> <p><u>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.</u></p>	
<p>New NNFC-2018 amendment</p>	<p>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</p>	<p>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</p>	<p>Review date: 11-16-17 Approval date: 11-16-17 Action date: 6-21-18 New- IFC-2018 amended by the committee deleting Exception 1.</p>

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	<p>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.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Where approved by the building official and fire official in accordance with Section 907.2.12.2 shall be permitted to be installed and maintained instead of an approved radio coverage system. 2. Where it is determined by the fire code official that the radio coverage is not needed. 3. In facilities where emergency responder radio coverage is required, and such systems, components or equipment required could have a negative impact on the normal operations of that facility, the fire code official shall have the authority to accept an automatically activated emergency radio coverage system. 	<p>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:</p> <p><u>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.</u></p> <p><u>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.</u></p> <p><u>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.</u></p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. Where approved by the building official and fire official a wired 	<p>6-21-18: Revised and approved by the group</p> <p><i>all exceptions deleted including if required equipment has a negative impact on the operations of the facility</i></p>

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		<p>communication system in accordance with Section 507.2.12.2 shall be permitted to be installed and maintained instead of an approved radio coverage system.</p> <p>2. Where it is determined by the fire code official that the radio coverage is not needed.</p> <p>3. In facilities where emergency responder radio coverage is required, and such systems, components or equipment required could have a negative impact on the normal operations of that facility, the fire code official shall have the authority to accept an automatically activated emergency radio coverage system.</p>	
New NNFC-2018 amendment	<p>510.2 Emergency responder radio coverage in existing buildings. Existing buildings shall be provided with <i>approved</i> radio coverage for emergency responders as required in Chapter 11.</p>	<p>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. <u>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:</u></p> <p><u>1. Existing buildings that do not have approved radio coverage, as determined by the Fire Chief, in accordance with Section 510.4.1.</u></p>	<p>Review date: 3-13-18 Approval date: 3-13-18 Action date: 4-19-18 New- IFC-2018 Section 510.2 amended by committee (Reno FD) to take the exact language for radio coverage in existing buildings from Chapter 11 and move it to Chapter 5. 4-19-18: amendment change by Reno FD and approved by committee.</p>

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		<p><u>2. Where an existing wired communication system cannot be repaired or is being replaced.</u></p> <p><u>3. Within a time frame established by the adopting authority.</u></p> <p><u>Exception: Where it is determined by the fire code official that the radio coverage is not needed.</u></p>	
New NNFC-2018 amendment	510.3 Permit required. A construction permit for the installation of or modification to emergency responder 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.	<p><u>510.3 Permits Required. Permits shall be required to install, modify and operate an emergency radio coverage system and related equipment, as follows:</u></p> <p><u>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.</u></p> <p><u>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.</u></p>	Review date: 6-21-18 Approval date 6-21-18 New-IFC-2018 section amended by committee
<u>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.</u>	Section not in IFC-2018	<u>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</u>	Review date: 11-16-17 Approval date: 11-16-17 Existing- Section added to IFC-2012 carried forward to IFC-2018 by committee with modification to wording to reference wood-burning appliances.

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		<u>materials shall be completely lines with taped 5/8" type "X" drywall.</u>	
New NNFC-2018 amendment	901.4.6.2 Marking on access door. Access doors for automatic sprinkler system riser rooms and fire pump rooms shall be labeled with an approved 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).	901.4.6.2 Marking on access door. Access doors for automatic sprinkler system riser rooms and fire pump rooms shall be labeled with a <u>maintained</u> approved <u>all-weather</u> 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).	Review date: 1-11-18 Approval date: 1-11-18 New- IFC-2018 section amended by the committee to require weather-proof maintained sign.
901.6 Inspection, testing and maintenance. Fire detection, alarm, and extinguishing systems, mechanical smoke exhaust systems, and smoke and heat vents <u>and commercial kitchen hood ventilation systems</u> shall be maintained in an operative condition at all times, and shall be replaced or repaired where defective. Nonrequired <i>fire protection systems</i> and equipment shall be inspected, tested and maintained or removed. <u>Air systems for fire-suppression breathing apparatus shall be maintained at the same frequency as other high-rise life safety systems.</u>	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 shall be maintained in an operative condition at all times, and shall be replaced or repaired where defective. Nonrequired <i>fire protection systems</i> and equipment shall be inspected, tested and maintained or removed.	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, <u>and commercial kitchen hood ventilation systems</u> shall be maintained in an operative condition at all times, and shall be replaced or repaired where defective. Nonrequired <i>fire protection systems</i> and equipment shall be inspected, tested and maintained or removed. <u>Air systems for fire-suppression breathing apparatus shall be maintained at the same frequency as other high-rise life safety systems.</u>	Review date: 1-11-18 Approval date: 1-11-18 Existing- IFC-2012 amended section carried forward by the committee to the IFC-2018.
<u>Section 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.</u>	Section not in IFC-2018	<u>Section 901.6.2.3 Fire suppression breathing apparatus air 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.</u>	Review date: Approval date: Existing- IFC-2012 amended section carried forward by the committee to the IFC-2018 renumbered as required.
901.7 Systems out of service. Where a required <i>fire protection system</i> including	901.7 Systems out of service. Where a required <i>fire protection system</i> is out of	NNFC-2012 amendment not carried through to NNFC-2018	Review date: 1-11-18 Action date: 1-11-18

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<p><u>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.</u></p> <p>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 preform constant patrols of the protected premises and keep watch for fires.</p>	<p>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.</p> <p>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 preform constant patrols of the protected premises and keep watch for fires.</p>		<p>Existing- IFC-2012 section was not carried forward to IFC-2018 per committee discussion</p>
<p>New NNFC-2018 amendment</p>	<p>Section not found in IFC-2018</p>	<p><u>901.11 Problematic unwanted fire alarms. Problematic unwanted fire alarm is 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</u></p>	<p>Review date: 4-19-18 Approval date: 6-21-18 New- Section 901.11 added to IFC-2018 by committee members (Reno FD). Excessive nuisance fire alarms cause an undue burden and cost to Fire Department Resources. Nuisance alarms also result in significant behavioral costs, such as non-responses during an alarm condition. Repeated nuisance conditions often translate to a lower</p>

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		<p><u>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.</u></p>	<p>confidence in the fire alarm system. Case in point: In a survey conducted for the National Fire Protection Association (NFPA), <i>only 7% of the respondents who reported an alarm thought there was a fire, and that they should evacuate the premises.</i> Given an actual emergency situation, results like these could be tragic. This scenario occurred in the Mizpah hotel fire that occurred in Reno in 2006. That fire killed 12 occupants.</p> <p>This proposal will give fire jurisdictions more authority to create unwanted and nuisance alarm policies in order to deter preventable unwanted and nuisance fire alarm activations. It will also enable the governing authorities to offset the cost to the public of preventable unwanted and nuisance fire alarm notifications that cause fire department resources to be expended unnecessarily, impacting public safety and firefighter safety.</p>
<p>903.2 Where required. <i>Approved automatic sprinkler systems</i> in new buildings and structures shall be provided in locations described in Sections 903.2.1 through 903.2.12 <u>Table 903.2.1 and Table 903.2.2.</u> 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</p>	<p>903.2 Where required. <i>Approved automatic sprinkler systems</i> in new buildings and structures shall be provided in locations described in Sections 903.2.1 through 903.2. 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</p>	<p>903.2 Where required. <i>Approved automatic sprinkler systems</i> in new buildings and structures shall be provided in locations described in Sections 903.2.1 through 903.2, <u>Tables 903.2.1 and Table 903.2.2.</u> 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</p>	<p>Review date: 1-11-18 Action date: 1-11-18 Existing- IFC-2012 section was carried forward to IFC-2018 per committee discussion.</p>

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<p>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 <i>International Building Code</i> or not less than 2-hour <i>horizontal assemblies</i> constructed in accordance with Section 711 of the <i>International Building Code</i>, or both.</p>	<p>separated from the remainder of the building by not less than 1-hour fire barriers constructed in accordance with Section 707 of the <i>International Building Code</i> or not less than 2-hour <i>horizontal assemblies</i> constructed in accordance with Section 711 of the <i>International Building Code</i>, or both.</p>	<p>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 <i>International Building Code</i> or not less than 2-hour <i>horizontal assemblies</i> constructed in accordance with Section 711 of the <i>International Building Code</i>, or both.</p>	
<p>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:</p> <ol style="list-style-type: none"> 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. <p><u>Occupancies containing a casino, regardless of occupancy classification, must be designed and built with a sprinkler system classified as an Ordinary Hazard Group 2.</u></p>	<p>903.2.1.2 Group A-2. An automatic sprinkler system shall be provided for Group A-2 occupancies and <u>throughout all stories from the Group A-2 occupancy to and including the levels of exit discharge serving that occupancy</u> where one of the following conditions exists:</p> <ol style="list-style-type: none"> 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. 	<p>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:</p> <ol style="list-style-type: none"> 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. <p><u>Occupancies containing a casino, regardless of occupancy classification, must be designed and built with a sprinkler system classified as an Ordinary Hazard Group 2.</u></p>	<p>Review date: 1-11-18 Approval date: 1-11-18 Existing- IFC-2012 section was carried forward to IFC-2018 per committee discussion.</p>
<p>Table 903.2.1. Required Automatic Sprinklers by Fire Area, Response Time and Height For A, B, E, F, H, I, M, S and U Occupancies</p>	<p>Table is not found in the IFC-2018</p>	<p>See 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</p>	<p>Review date: 1-11-18 Approval date: 1-11-18 Action date: 8-6-18 Existing- Existing table added to IFC-2012 carried forward by committee to the IFC-201 with the following: Carson City-strike footnote E; - not</p>

deber

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			Reno- strike footnote H. 7-11-18: Corrected table entry for Smith Valley. 8-6-18: Revised Table Name per industry request.
Table 903.2.2. Required Automatic Sprinklers by Fire Area, Response Time and Height for Structures Designed and Constructed with the International Residential Code	Table is not found in the IFC-2018	See Table 903.2.2 Required Automatic Sprinklers Designed and Constructed with the International Residential	Review date: 1-11-18 Approval date: 1-11-18 Existing- Existing table added to IFC-2012 carried forward by committee to the IFC-2018 with the following: Sparks- 5,000 sq ft delete height requirement. Reno- add any "habitable" structure outside of 8 minutes response time. 5-29-18: Dave Ruben requested modification to the footnote for Fire Area indicating that "fire walls and fire barriers shall not be used to reduce the size of fire areas. Defete footnotes c, f, l. Amended by Reno FD at May meeting Central Lyon County FPD fire area greater thar 5,000 Reno FD fire area greater than 5,000 Remove b reference in Table title. 7-11-18- Corrected table entry for Smith Valley.
903.2.3 Group E. An automatic sprinkler system shall be provided for Group E occupancies as follows: <ol style="list-style-type: none"> 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 	903.2.3 Group E. An automatic sprinkler system shall be provided for Group E occupancies as follows: <ol style="list-style-type: none"> 1. Throughout all Group E fire areas greater than 12,000 square feet (1115 m²) in area. 2. The Group E fire area is located on a floor other than a level of exit discharge serving such occupancies. 	903.2.3 Group E. An automatic sprinkler system shall be provided for Group E occupancies <u>where one of the following conditions exists:</u> as follows: <ol style="list-style-type: none"> 1. Throughout all Group E fire areas greater than 12,000 5,000 square feet (1115464m²) in area. 	Review date: 1-11-18 Approval date: 1-11-18 Action date: IFC-2012 amended section carried forward to IFC-2018 with revised wording (by Carson City FD) by the committee. Justification: Section 903.2 changed the threshold to 5,000 square feet (SF) for all

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<p><i>lowest level of exit discharge serving that portion of the building.</i> Exception: An <i>automatic sprinkler system</i> 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. <u>In high schools where automatic fire sprinkler systems are provided, the automatic fire sprinkler systems for automotive and woodworking shops must be designed to Ordinary Hazard, Group 1 automatic fire sprinkler systems criteria.</u></p>	<p>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.</p> <p>3. The Group E fire area has an occupant load of 300 or more.</p>	<p>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.</p> <p>3. The Group E fire area has an occupant load of 300 or more.</p> <p><u>4. Daycare facilities where there is occupancy from 12:00 AM - 6:00 AM and care for 7 or more children.</u></p> <p><u>In high schools where automatic fire sprinkler systems are provided, the automatic fire sprinkler systems for automotive and woodworking shops must be designed to Ordinary Hazard, Group 1 automatic fire sprinkler systems criteria, or as required by the Authority Having Jurisdiction.</u></p>	<p>occupancy types. Based on an area of 5,000 square feet the occupant level of exit discharge serving that area. The occupant load for daycare using an occupant load factor of 35 SF Net is 143 and for classrooms using an occupant load factor of 20 SF Net is 250. Both calculated occupant loads are well below the 300 occupant load limit; however, the committee decided to leave condition 3 in the amendment. The new condition 4 is needed to correlate with State law NAC 477.568.</p>
<p>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 <i>automatic sprinkler system</i> 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. <u>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</u></p>	<p>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 <i>automatic sprinkler system</i> 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.</p>	<p>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 <i>automatic sprinkler system</i> 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. <u>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</u></p>	<p>Review date: 1-11-18 Approval date: 1-11-18 Action date: Existing- IFC-2012 amended section carried forward to the IFC-2018 modified as shown. Reference to two stories deleted.</p>

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<u>(10,000) square feet or exceeding four (4) stories in height are required to have automatic sprinklers installed throughout in accordance with NFPA 13.</u>		<u>automatic sprinklers installed throughout in accordance with NFPA 13.</u>	
903.3.1.2 NFPA 13R sprinkler systems. <i>Automatic sprinkler systems</i> in Group R occupancies up to and including four <u>two</u> stories in height shall be permitted to be installed throughout in accordance with NFPA 13R. <u>An R-1 or R-2 occupancy that has more than two stories shall have an NFPA 13 system installed.</u>	903.3.1.2 NFPA 13R sprinkler systems. <i>Automatic sprinkler systems</i> in Group R occupancies up to and including four stories in height in buildings not exceeding 60 feet (18 288 mm) in height above grade plane shall be permitted to be installed throughout in accordance with NFPA 13R. The number if stories of Group R occupancies constructed in accordance with Sections 510.2 and 510.4 of the International Building Code shall be measured from the horizontal assembly creating separate buildings.	NNIFC-2012 amendment not carried forward to IFC-2018	Review date: 1-11-18 Action date: 1-11-18 IFC-2012 amended section was not carried forward to IFC-2018 by committee. Use base code.
903.3.1.3 NFPA 13D sprinkler systems. <i>Automatic sprinkler systems</i> installed in one and two-family dwellings, Group R-3 and R-4 <i>congregate living facilities</i> and townhouses shall be permitted to be installed throughout in accordance with NFPA 13D. <u>NFPA 13D systems are not permitted in North Lake Tahoe Fire Protection District.</u>	903.3.1.3 NFPA 13D sprinkler systems. <i>Automatic sprinkler systems</i> installed in one and two-family dwellings, Group R-3 and R-4 <i>congregate living facilities</i> and townhouses shall be permitted to be installed throughout in accordance with NFPA 13D.	903.3.1.3 NFPA 13D sprinkler systems. <i>Automatic sprinkler systems</i> installed in one and two-family dwellings, Group R-3 and R-4 <i>congregate living facilities</i> and townhouses shall be permitted to be installed throughout in accordance with NFPA 13D. <u>NFPA 13D systems are not permitted in North Lake Tahoe Fire Protection District.</u>	Review date: 1-11-18 Approval date: 1-11-18 Existing- IFC-2012 amended section carried forward to the IFC-2018 by the committee.
903.4 Sprinkler system supervision and alarms. All valves controlling the water supply for <i>automatic sprinkler systems</i> , pumps, tanks, water levels and temperatures, critical air pressures and water-flow switches on all sprinkler systems shall be electrically supervised by a <i>listed</i> fire alarm control unit.	903.4 Sprinkler system supervision and alarms. All valves controlling the water supply for <i>automatic sprinkler systems</i> , pumps, tanks, water levels and temperatures, critical air pressures and water-flow switches on all sprinkler systems shall be electrically supervised by a <i>listed</i> fire alarm control unit. Exceptions:	903.4 Sprinkler system supervision and alarms. All valves controlling the water supply for <i>automatic sprinkler systems</i> , pumps, tanks, water levels and temperatures, critical air pressures and water-flow switches on all sprinkler systems shall be electrically supervised by a <i>listed</i> fire alarm control unit. Exceptions:	Review date: 1-11-18 Approval date: 1-11-18 Existing- IFC-2012 amended section carried fo to the IFC-2018 by committee.

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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
<p>Exceptions:</p> <ol style="list-style-type: none"> 1. <i>Automatic sprinkler systems</i> protecting one- and two-family dwellings. 2. Limited area systems serving fewer than 20 sprinklers. 3. <i>Automatic sprinkler systems</i> installed in accordance with NFPA 13R where a common supply main is used to supply both domestic water and the <i>automatic sprinkler system</i>, and separate shutoff valve for the <i>automatic sprinkler system</i> 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. <u>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.</u> 6. Valves controlling the fuel supply to fire pump engines that are sealed or locked in the open position. 	<ol style="list-style-type: none"> 1. <i>Automatic sprinkler systems</i> protecting one- and two-family dwellings. 2. Limited area systems serving fewer than 20 sprinklers. 3. <i>Automatic sprinkler systems</i> installed in accordance with NFPA 13R where a common supply main is used to supply both domestic water and the <i>automatic sprinkler system</i>, and separate shutoff valve for the <i>automatic sprinkler system</i> 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. 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. 	<ol style="list-style-type: none"> 1. <i>Automatic sprinkler systems</i> protecting one- and two-family dwellings. 2. Limited area systems serving fewer than 20 sprinklers. 3. <i>Automatic sprinkler systems</i> installed in accordance with NFPA 13R where a common supply main is used to supply both domestic water and the <i>automatic sprinkler system</i>, and separate shutoff valve for the <i>automatic sprinkler system</i> 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. <u>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.</u> 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. 	

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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
<p>7. Trim valves to pressure switches in dry, preaction and deluge sprinkler systems that are sealed or locked in the open position.</p>			
<p>903.4.2 Alarms. An approved audible device, located on the exterior of the building in an approved location, shall be connected to each <i>automatic sprinkler system</i>. 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. <u>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.</u> Where a fire alarm system is installed, actuation of the <i>automatic sprinkler system</i> shall actuate the building fire alarm system.</p>	<p>903.4.2 Alarms. An approved audible device, located on the exterior of the building in an <i>approved location</i>, shall be connected to each <i>automatic sprinkler system</i>. 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. Where a fire alarm system is installed, actuation of the <i>automatic sprinkler system</i> shall actuate the building fire alarm system.</p>	<p>903.4.2 Alarms. An approved audible notification appliance device, located on the exterior of the building in an approved location, shall be connected to each <i>automatic sprinkler system</i>. 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. <u>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.</u> Where a fire alarm system is installed, actuation of the <i>automatic sprinkler system</i> shall actuate the building fire alarm system.</p>	<p>Review date: 1-11-18 Approval date: 1-11-18 Existing- IFC-2012 amended section carried forward by committee to the IFC-2018 with the following modifications: A. Change approved audible device to approved notification appliance. B. In residential (SFD) sprinkler system, water flow must provide approved occupant notification on all floor levels and sleeping unit. Audible notification 75n db at pillow height.</p>
<p>New NNFC-2018 amendment</p>	<p>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.</p>	<p>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 <u>multi-story facilities.</u></p>	<p>Review date: 5-17-18 Approval date: 5-17-18 New- IFC-2018 section amended proposed by Carson City FD and approved by committee. Amendment is intended to provide consistency for regional application of codes. The purpose of this amendment is to require separate fire sprinkler systems for each floor</p>

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			in multi-story facilities. Section 903.4.1 requires separate zone annunciation in multi-story facilities on a floor-by-floor basis. This conforms with the current practices, and also with the adoption package for NFPA 13.
<p>906.2 General requirements. Portable fire extinguishers shall be selected, installed, and maintained in accordance with this section and NFPA 10.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. 	<p>906.2 General requirements. Portable fire extinguishers shall be selected, installed and maintained in accordance with this section and NFPA 10.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 1. The distance of travel to reach an extinguisher shall not apply to 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 3 years 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: <ul style="list-style-type: none"> 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 	<p>906.2 General requirements. Portable fire extinguishers shall be selected, installed, and maintained in accordance with this section and NFPA 10.</p> <p>Exceptions:</p> <ol style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. 	<p>Review date: 1-11-18 Approval date: 1-11-18 Existing- IFC-2012 amended section carried forward by committee to the IFC-2018 with the following: Delete reference to table.</p>

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<p>2.4 Electronic monitoring devices and supervisory circuits shall be tested every three years <u>annually</u> when extinguisher maintenance is performed.</p> <p>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.</p> <p>3. In Group I-3, portable fire extinguishers shall be permitted to be located at staff locations.</p> <p><u>4. 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.</u></p>	<p>cabinet in a noncorrosive environment.</p> <p>2.4. Electronic monitoring devices and supervisory circuits shall be tested every 3 years when extinguisher maintenance is performed.</p> <p>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.</p> <p>3. In Group I-3, portable fire extinguishers shall be permitted to be located at staff locations.</p>	<p>2.4 Electronic monitoring devices and supervisory circuits shall be tested every three years <u>annually</u> when extinguisher maintenance is performed.</p> <p>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.</p> <p>3. In Group I-3, portable fire extinguishers shall be permitted to be located at staff locations.</p> <p><u>4. 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.</u></p>	
<p>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.</p>	<p>Section not found in IFC-2018</p>	<p>NNFC-2012 section not carried forward to IFC-2018 addition.</p>	<p>Review date: 1-11-18 Action date: 1-11-18 Existing- IFC-2012 amended section not carried forward by the committee to IFC-2018.</p>
<p>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 <i>corridors</i>, waiting areas open to <i>corridors</i> and <i>habitable spaces</i> other than <i>sleeping units</i> and <i>kitchens</i>.</p>	<p>Section not found in IFC-2018</p>	<p><u>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:</u></p>	<p>Review date: 1-11-18 Approval date: 1-11-18 Existing- IFC-2012 amended section 907.2.10 was not carried forward to IFC-2012 in current section number. IFC-2012 Section 907.2.10 language was renumbered and carried forward as IFC-2018 Section 907.2.9.4.</p>

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<p>Exceptions:</p> <ol style="list-style-type: none"> Smoke detection in <i>habitable spaces</i> is not required where the facility is equipped throughout with an <i>automatic sprinkler system</i> installed in accordance with Section 903.3.1.1. An automatic smoke detection system is not required in buildings that do not have interior <i>corridors</i> serving <i>sleeping units</i> and where each <i>sleeping unit</i> has a <i>means of egress</i> door opening directly to an exit or to an exterior <i>exit access</i> that leads directly to an exit. 		<ol style="list-style-type: none"> <u>Smoke detection in <i>habitable spaces</i> is not required where the facility is equipped throughout with an <i>automatic sprinkler system</i> installed in accordance with Section 903.3.1.1.</u> <u>An automatic smoke detection system is not required in buildings that do not have interior <i>corridors</i> serving <i>sleeping units</i> and where each <i>sleeping unit</i> has a <i>means of egress</i> door opening directly to an exit or to an exterior <i>exit access</i> that leads directly to an exit.</u> 	
<p><u>907.2.10.2.1 Automatic smoke detection system R-3. In Truckee Meadows Fire Protection District and Sierra Front Fire Protection District and automatic fire 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.</u></p>	<p>Section not found in IFC-2018</p>	<p><u>907.2.9.5 Automatic smoke detection system in Group R-3. In Truckee Meadows Fire Protection District automatic fire 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.</u></p>	<p>Review date: 1-11-18 Approval date: 1-11-18 Existing- IFC-2012 amended section 907.2.10.2.1 was not carried forward to IFC-2012 in current section number. IFC-2012 Section 907.2.10.2.1 language was renumbered and carried forward as IFC-2018 Section 907.2.9.5.</p>
<p>New NNFC-2018 amendment</p>	<p>Section not found in IFC-2018</p>	<p><u>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</u></p>	<p>Review date: 1-11-18 Approval date: 1-11-18 New- IFC-2018 Section 907.10.2.1 Alternative to Single- and multiple-station smoke alarms is added to IFC-2018 Section 907.10.2.10.2 by committee. This will be viewed as a local requirement as such licensure may not be required by the Nevada State Fire Marshal Division.</p>

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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
<p>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. <u>The minimum sound pressure levels shall be 90 dBA in mechanical equipment rooms and 80 dBA in all other occupancies.</u></p>	<p>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</p>	<p>State Contractors Board and Nevada State Fire Marshal (F license). 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. <u>The minimum sound pressure levels shall be 90 dBA in mechanical equipment rooms and 80 dBA in all other occupancies.</u></p>	<p>Review date: 1-11-18 Approval date: 1-11-18 Existing- IFC-2012 amended section carried forward to IFC-2018 by committee.</p>
<p>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. Exceptions:</p> <ol style="list-style-type: none"> 1. Frozen food warehouses used solely for food storage of Class I and all commodities where protected by an <i>approved automatic sprinkler system.</i> 2. Where areas of buildings are equipped with early fast response (ESFR) sprinklers, automatic smoke and heat vents shall not be required within these areas. <u>Automatic smoke and heat vents are not required within areas of buildings equipped with early suppression fast-response (ESFR)</u> 	<p>910.1 General. Where required by this code, smoke and heat vents or mechanical smoke removal systems shall conform to the requirements of this section.</p>	<p>NNFC-2012 section not carried for to the IFC-2018 adoption.</p>	<p>Review date: 1-11-18 Action date: 1-11-18 Existing- IFC-2012 amended section not carried forward to IFC-2018 by committee.</p>

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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
<p><u>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).</u></p>			
<p>910.3.2.2 Sprinklered buildings. Where installed in buildings equipped with an approved automatic sprinkler system, smoke and heat vents shall be designed to operate automatically in accordance with Sections 910.3.2.2.1 through 910.3.2.2.3.</p>	<p>Section not found in IFC-2018</p>	<p>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 unsprinklered 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. <u>Smoke and heat vents shall be activated by manual controls only per Section 910.4.4.</u> 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.</p>	<p>Review date: 1-11-18 Approval date: 1-11-18 IFC-2012 amended Section carried forward by the committee with the following: A. Renumbered as IFC-2018 Section 910.2.2. B. Rewritten to be inserted in section.</p>
<p>912.4 Signs. Metal signs 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 TRST CONNECTION or a combination thereof as applicable. Where</p>	<p>Section not found in IFC-2018</p>	<p>912.5.1 <u>Service Connection area. A sign indicating the buildings address or areas services by a sprinkler or standpipe system shall be permanently mounted and maintained on all fire department connections when required by the fire code official.</u></p>	<p>Review date: 1-11-18 Approval date: 1-11-18 Existing- IFC-2012 section carried forward by committee to IFC-2018 renumbered as 912.5.1.</p>

**2018 Northern Nevada Fire Code Amendment Matrix
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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
<p>the fire department connection does not serve the entire building, a sign shall be provided indicating the portions of the building served.</p> <p><u>912.4.1 Service area. A sign indicating the buildings address or areas services by a sprinkler or standpipe system shall be permanently mounted and maintained on all fire department connections when required by the fire code official.</u></p>			
<p>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.</p> <ol style="list-style-type: none"> 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. 3. Locking valves open. 4. Sealing of valves and approved weekly recorded inspection where valves are located within fenced enclosures under the control of the owner. 	<p>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.</p> <ol style="list-style-type: none"> 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. 3. Locking valves open. 4. Sealing of valves and <i>approved</i> weekly recorded inspection where valves are located within fenced enclosures under the control of the <i>owner</i>. 	<p>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.</p> <ol style="list-style-type: none"> 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. 3. Locking valves open. 4. Sealing of valves and approved weekly recorded inspection where valves are located within fenced enclosures under the control of the owner. 	<p>Review date: 1-11-18 Approval date: 1-11-18 IFC-2012 section carried forward to IFC-2018 by committee.</p>
<p><u>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</u></p>	<p>Section not found in IFC-2018</p>	<p><u>914.3.8 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</u></p>	<p>Review date: 1-11-18 Approval date: 1-11-18 Existing- IFC-2012 section carried forward by committee to IFC-2018 renumbered as 914.3.8.</p>

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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
<u>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.</u>		<u>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.</u>	Installation and maintenance compliance requirements were changed from UPC to IFC-2018 Appendix L.
TABLE 1004.2 MAXIMUM FLOOR ARE ALLOWANCE PER OCCUPANT. Amended.	TABLE 1004.2 MAXIMUM FLOOR ARE ALLOWANCE PER OCCUPANT. Amended.	NNFC-2012 Table not carried forward to the IFC-2018	Review date: 1-11-18 Action date: 1-11-18 Existing IFC-2012 amended Table not carried forward to IFC-2018 Table by committee.
Table 1016.2 Exit Access Travel Distance	Table 1017.2 Exit Access Travel Distance	NNFC-2012 Table not carried forward to the IFC-2018 adoption.	Review date: 1-11-18 Approval date: 1-11-18 Action date: 6-21-18 Existing- Carry forward change table number and footnote numbers. 6-21-18: Table deleted by committee
<u>1016.4 Group F-1 and S-1 increase. The maximum exit travel distance shall be 400 feet (122 m) in Group F-1 or S-1 occupancies where all of the following are met:</u> <ol style="list-style-type: none"> <u>1. The portion of the building classified as Group F-1 or S-1 is limited to one story in height, and</u> <u>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</u> <u>3. The building is equipped throughout with an automatic fire sprinkler system in accordance with Section 903.3.1.1.</u> 	1017.2.2 Groups 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 conditions are met: <ol style="list-style-type: none"> 1. The portion of the building classified as Group F-1 or S-1 is limited to one story in height. 2. The minimum height from the finished floor to the bottom of the ceiling or roof slab or deck is 24 feet (7315 mm). 3. The building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1. 	NNFC-2012 section not carried forward to the IFC-2018 adoption.	Review date: 1-11-18 Action date: 1-11-18 Existing- IFC-2012 amended not carried forward to IFC-2018 adoption by committee.

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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
New NNFC-2018 amendment	<p>[BE] 1023.9.1 Signage requirements. Stairway identification signs shall comply with all of the following requirements:</p> <ol style="list-style-type: none"> 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. 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. 	<p>[BE] 1023.9.1 Signage requirements. Stairway identification signs shall comply with all of the following requirements:</p> <ol style="list-style-type: none"> 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. 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. 7. <u>The background color of the sign shall be green if roof access is available</u> 	<p>Review date: 6-21-18 Approval date: 6-21-18 IFC-2018 section amended by committee</p>

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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
		<u>from the signed stairway. The background color of the signs shall be red if roof access is not available from the signed stairway.</u>	
Chapter 11 Construction Requirements for Existing Buildings Deleted	Chapter 11 Construction Requirements for Existing Buildings	Chapter 11 Deleted	Review date: 1-11-18 Action date: 1-11-18 Existing- IFC-2012 deletion of Chapter 11 reviewed by committee and was deleted in the IFC-2018 with the following: A. Transfer language from 1103.2 to 510.2 instead. B. Proposed action was approved without comment.
2809.1 General. Exterior storage of finished lumber products, <u>fire wood chips, hogged material and associated raw products</u> shall comply with Sections 2809.1 through 2809.5.	2809.1 General. Exterior storage of finished lumber products shall comply with Sections 2809.1 through 2809.5.	Amendment not carried through 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.	Review date: 1-11-18 Approval date: 1-11-18 Action date: 2-7-18 Existing- IFC-2012 amended section t carrier forward to IFC-2018 adoption by the committee. 2-7-18: Committee decided not carried IFC-2012 amended section forward.
2809.2 Size of piles. Exterior lumber storage shall be arranged to form stable piles with a maximum height of 20 25 feet (6096 mm). Piles shall not exceed 150,000 cubic feet (4248 m3) in volume.	2809.2 Size of piles. Exterior lumber storage shall be arranged to form stable piles with a maximum height of 20 feet (6096 mm). Piles shall not exceed 150,000 cubic feet (4248 m3) in volume.	NNFC-2012 amendment not carried forward to IFC-2018 adoption	Review date: 1-11-18 Action date: 1-11-18 Existing- IFC-2012 amended section not carried forward to IFC-2018 adoption by committee.
New NNFC-2018 amendment	Chapter 39 Processing and Extraction Facilities	Chapter 39 Processing and Extraction Facilities	Review date: 4-19-18 Approval date: 4-19-18 New- IFC-2018 Chapter 39 amended to address local production, processing and dispensing issues for marijuana.

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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
New NNFC-2018 amendment	3903.2 Prohibited occupancies. Extraction processes utilizing flammable gases or flammable cryogenic fluids shall not be located in any building containing a Group A, E, I or R occupancy.	3903.2 Prohibited occupancies. Extraction processes utilizing flammable gases or flammable eryogenic fluids <u>liquids</u> shall not be located in any building containing a Group A, E, I or R occupancy.	Review date: 4-19-18 Approval date: 4-19-18 New- IFC-2018 section amended per committee submittal.
New NNFC-2018 amendment	3903.3 Location. The extrication equipment and extraction processes utilizing hydrocarbon solvents shall be located in a room or area dedicated to extraction.	3903.3 Location. The extrication equipment and extraction processes utilizing hydrocarbon solvents shall be located in a room or area dedicated to extraction. <u>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.</u>	Review date: 4-19-18 Approval date: 4-19-18 New- IFC-2018 section amended per committee submittal.
New NNFC-2018 amendment	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 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: 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.	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 shall be located within a hazardous exhaust fume hood, rated for exhausting flammable vapors. <u>Extraction and post oil processing operations, including dispensing of flammable liquids between containers, shall be performed in one of the following locations:</u> <u>1. A chemical fume hood in accordance with Chapter of NFPA 45.</u> <u>2. A room with an approved exhaust system installed in accordance with the International Mechanical Code or Uniform Mechanical Code.</u>	Review date: 4-19-18 Approval date: 4-19-18 New- IFC-2018 section amended per committee submittal.

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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
		<p>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.</p> <p>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.</p> <p>Exception 2: <u>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).</u></p>	
New NNFC-2018 amendment	Section not found in IFC-2018	<p><u>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 for lighting and components to be used.</u></p>	<p>Review date: 4-19-18 Approval date: 4-19-18 New- IFC-2018 Section 3903.5.1 added to IFC 2012 Section 3903.5.</p>
New NNFC-2018 amendment	3093.6 Liquefied petroleum gas. Liquefied petroleum gases shall not be released to the atmosphere except where released in accordance with Section 7.3 of NFPA 58.	<p>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. <u>LPG liquid piping systems shall be in compliance with NFPA 58.</u></p>	<p>Review date: 4-19-18 Approval date: 4-19-18 New- IFC-2018 section amended per committee submittal.</p>
New NNFC-2018 amendment	Section not found in IFC-2018	<p><u>3903.6.1 Exhaust. An approved exhaust system shall be provided for LPG extractions.</u> <u>3903.6.1.1 Installation. The exhaust systems shall be installed and maintained accordance</u></p>	<p>Review date: 4-19-18 Approval date: 4-19-18 New- IFC-2018 Sections added to IFC-2012 Section 3903.6.</p>

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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
		<p><u>with the International Mechanical Code or Uniform Mechanical Code.</u> <u>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 Mechanical Code or Uniform Mechanical Code as adopted by the Authority Having Jurisdiction.</u> <u>3903.6.2 Electrical. 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.</u> <u>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.</u> <u>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.</u> <u>3903.6.2.3 Emergency Power An automatic emergency power system shall be provided for the following items, when installed:</u> <u>1. Extraction room lighting</u></p>	<p>7-11-18: Added reference to 3903.6.1.1 and 3903.6.1.2 to AHJ per Smith Valley request.</p>

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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
		<p><u>2. Extraction room ventilation system</u> <u>3. Solvent gas detection system</u> <u>3903.6.2.4 Gas detection systems shall be provided with constant non-interlocked power.</u></p>	
New NNFC-2018 amendment	Section not found in IFC-2018	<p><u>3903.7 Carbon Dioxide Extraction. Carbon Dioxide extraction shall comply with sections 3903.7.1, 3903.7.2, and 3903.7.3</u> <u>3903.7.1 Storage and handling. All CO2 compressed gas cylinders shall be secured in an approved method to prevent falling.</u> <u>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.</u> <u>3903.7.3 CO2 discharge. The extraction equipment pressure relief devices and blow-off valves shall be piped to the exterior of the building.</u></p>	<p>Review date: 4-19-18 Approval date: 4-19-18 New- Section 3903.7 added to IFC-2018.</p>
New NNFC-2018 amendment	Section not found in IFC-2018	<p><u>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:</u></p> <ol style="list-style-type: none"> <u>1. The door shall swing in the direction of egress travel.</u> <u>2. The door shall be provided with a self-closing or automatic closing device.</u> <u>3. The door shall be equipped with panic or fire exit hardware.</u> 	<p>Review date: 4-19-18 Approval date: 4-19-18 New- New section added to IFC-2018 Section 3903 Processing and Extraction.</p>

**2018 Northern Nevada Fire Code Amendment Matrix
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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
		<p>4. <u>The exit access travel distance cannot be increased as allowed in Section 1017.2.2 for extraction/cultivation facilities.</u></p>	
New NNFC-2018 amendment	Section not found in IFC-2018	<p><u>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.</u> <u>3903.9.1 Safety data sheets. All applicable safety data sheets (SDS) shall be posted in the approved location.</u> <u>3903.9.2 Warning signage. Applicable hazard warning signage shall be posted throughout the facility as applicable for emergency equipment.</u></p>	<p>Review date: 4-19-18 Approval date: 4-19-18 New- New section added to IFC-2018 Section 3903 Processing and Extraction.</p>
New NNFC-2018 amendment	<p>3904.4 Site inspection. Prior to the operation of the extraction equipment, where required by the <i>fire code official</i>, the engineer of record or <i>approved professional</i>, as <i>approved</i> 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 <i>approved professional</i> shall provide a report of findings to the <i>fire code official</i> 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.</p>	<p>3904.4 Site inspection. Prior to the operation of the extraction equipment, where required by the <i>fire code official</i>, the engineer of record or <i>approved professional</i>, as <i>approved</i> 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 <i>approved professional</i> shall provide a report of findings to the <i>fire code official</i> 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.</p>	<p>Review date: 4-19-18 Approval date: 4-19-18 New- IFC-2018 section amended by committee</p>

**2018 Northern Nevada Fire Code Amendment Matrix
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NNFI-2012 Amendment	IFC-2018 Code Section	NNFC-2018 Amendment	Committee Action/Comments
<p>B105.2 Buildings other than one- and two-family dwellings. The minimum fire-flow and flow duration for buildings other than one- and two-family dwellings shall be as specified in Table B105.1. Exception: A reduction in required fire-flow of up to 75<u>50</u> percent, as <i>approved</i>, is allowed when the building is provided with an <i>approved automatic sprinkler system</i> 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.</p>	<p>B105.2 Buildings other than one- and two-family dwellings, Groups R-3 and R-4 buildings and townhouses. The minimum fire-flow and flow duration for buildings other than one- and two-family dwellings, Group R-3 and R-4 buildings and townhouses shall be as specified in Tables B105.2 and B105.1(2)</p>	<p>Table B105.2 Required Fire Flow for Buildings Other Than One- and Two-Family Dwellings, Group R-3 and R-4 Buildings and Townhouses</p> <p>In minimum fire flow column change 25% to 50%.</p>	<p>Review date: Approval date: 2012 IFC Section B105.2 Buildings other than one-and two-family dwellings provided an exception that allowed for a direct reduction in the fire flow requirement of 50 percent when an approved fire sprinkler system designed and installed in compliance with NFPA 13, or where allowed, NFPA 13R, was installed, with a minimum maintained fire flow of 1,500 gpm at 20 psi. 2018 IFC Section B105.2 terminology is modified to provide a reduction of fire flow with the installation of the approved sprinkler protection of 25% of the fire flow value (minimum flow rate dependent on sprinkler system design. As such the terminology in the 2012 amendment no longer applies. Modification to allow 50% flow reduction is shown in IFC-2018 Table B105.2.</p>
<p>New NNFC-2018 amendment</p>	<p>APPENDIX C FIRE HYDRANT LOCATIONS AND DISTRIBUTION</p>	<p>APPENDIX C FIRE HYDRANT LOCATIONS AND DISTRIBUTION Adopted</p>	<p>Review date: 5-17-18 Approval date: 5-17-18 IFC-2018 Appendix C is adopted in entirety by the committee.</p>
<p>New NNFC-2018 amendment</p>	<p>Section not found in IFC-2018</p>	<p><u>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 100 feet, or as determined by the fire code official.</u></p>	<p>Review date: 5-17-18 Approval date: 5-17-18 New- proposed added section to IFC-2018 Section C102 Number of Fire Hydrants based on SNBO amendment to IFC-2018 (Carson City FD with justification to provide for consistency in regional interpretation and application of the codes. Amended at May meeting.</p>

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**2018 Northern Nevada Fire Code Amendment Matrix
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NNFI-2012 Amendment	IFC-2018 Code Section	NNIFC-2018 Amendment	Committee Action/Comments
New NNFC-2018 amendment	Appendix D Fire Apparatus Access Roads	APPENDIX D FIRE APPARATUS ROADS Adopted	Review date: 5-17-18 Approval date: 5-17-18 IFC-2018 Appendix D is adopted in entirety by the committee
New NNFC-2018 amendment	APPENDIX L REQUIREMENTS FOR FIRE FIGHTER AIR REPLENISHMENT SYSTEMS	APPENDIX L REQUIREMENTS FOR FIRE FIGHTER AIR REPLENISHMENT SYSTEMS Adopted	Review date: 3-13-18 Approval date: 3-13-18 New- Previous adopted standards for fire fighter air replenishment systems was based on plumbing code. Committee reviewed agreed to adopt IFC-2018 Appendix L without modification. The adoption will require an operational permit per IFC-2018 Section L103.3. A definition for the operational and construction permit to be included in IFC-2018 Section 105.6 will be provided.

**2018 Northern Nevada Wildland-Urban Interface Code Amendment Matrix
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NNWUIC-2012 Amendment	IWUIC-2018 Code Section	NNWUIC-2018 Amendment	Committee Action/Comments
	<p>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.</p> <p>Where the alternative material, design or method is not approved, the building official shall respond in writing, stating the reasons why the alternative was not approved.</p>	<p>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.</p> <p>Where the alternative material, design or method is not approved, the building official fire chief shall respond in writing, stating the reasons why the alternative was not approved.</p>	
<p>106.1 General. To determine the suitability of alternative materials and methods and to provide for reasonable interpretations of the provisions of this code <u>see <i>International Fire Code section 108 as adopted by the Authority Having Jurisdiction</i></u>, 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.</p>	<p>106.1 General. To determine the suitability of alternative materials and methods and to provide for reasonable interpretations of the provisions of this code, 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, <i>building official</i> 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.</p>	<p>106.1 General. To determine the suitability of alternative materials and methods and to provide for reasonable interpretations of the provisions of this code <u>see <i>International Fire Code section 109 as adopted by the Authority Having Jurisdiction</i></u>, 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.</p>	<p>Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC section carried forward to IWUIC-2018 by committee.</p>
<p>106.2 Limitations of authority. The board of appeals shall not have authority relative</p>	<p>106.2 Limitations of authority. The board of appeals shall not have authority relative to</p>	<p>106.2 Limitations of authority. The board of appeals shall not have authority relative to</p>	<p>Review date: 4-19-18 Approval date: 4-19-18</p>

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to interpretation of the administrative provisions of this code and shall not have authority to waive requirements of this code.	interpretation of the administrative provisions of this code and shall not have authority to waive requirements of this code.	interpretation of the administrative provisions of this code and shall not have authority to waive requirements of this code.	Existing- Section deleted in NNWUIC-2012. Deletion carried through to IWUIC-2018 by committee.
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 three-year basis or more frequently as deemed necessary by the legislative body. As deemed necessary by the code official.	302.3 Review of wildland-urban interface areas. The code official shall reevaluate and recommend modification to the <i>wildland-urban interface areas</i> in accordance with Section 302.1 on a 3-year basis or more frequently as deemed necessary by the legislative body.	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.	Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 amendment carried through to the IWUIC-2018 adoption by the committee.
New NNWUIC-2018 amendment	402.2.2 Water Supply. Individual structures hereinafter constructed or relocated into or within <i>wildland-urban interface areas</i> shall be provided with a conforming water supply in accordance with Section 404. Exceptions: <ol style="list-style-type: none"> 1. Structures constructed to meet the requirements for the class of ignition-resistant construction specified in Table 503.1 for a nonconforming water supply. 2. Buildings containing only private garages, carports, sheds and agricultural buildings with a floor area of not more than 600 square feet (56m²). 	402.2.2 Water Supply. Individual structures hereinafter constructed or relocated into or within <i>wildland-urban interface areas</i> shall be provided with a conforming water supply in accordance with Section 404. Exceptions: <ol style="list-style-type: none"> 1. Structures constructed to meet the requirements for the class of ignition-resistant construction specified in Table 503.1 for a nonconforming water supply. 2. Buildings containing only private garages, carports, sheds and agricultural buildings with a floor area of not more than 600 square feet (56m²). 3. <u>Agricultural buildings construction only for the storage limited to harvested</u> 	Review date: 4-19-18 Approval date: 7-12-18 New- Committee amended IWUIC-2018 section. 6-21-18: Decision to eliminate proposed amendment. 7-12-18: submitted by Smith Valley to add Exception 3 to 402.2.2: <i>Justification:</i> These amendments are made to permit the construction of pole barns and other agricultural buildings exclusively for the storage of hay, other harvested crops, and agricultural commodities. The intent is to allow agricultural buildings larger than 600 square feet for storage only that do not include any provisions for gas or electrical service or equipment or other mechanical equipment. 7-12-18: Group discussion concerning the impact would be for water supply only and all other requirements. Approved by the group.

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		<u>crops or agricultural commodities, without electrical or fuel gas services.</u>	
New NNWUIC-2018 amendment	<p>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 <i>approved</i> 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 <i>wildland-urban interface area</i> of the jurisdiction in accordance with this section.</p> <p>Exception: Buildings containing only private garages, carports, sheds and agricultural buildings with a floor area of not more than 600 square feet (56m²).</p>	<p>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 <i>approved</i> 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 <i>wildland-urban interface area</i> of the jurisdiction in accordance with this section.</p> <p>Exception: Buildings containing only private garages, carports, sheds and agricultural buildings with a floor area of not more than 600 square feet (56m²) <u>and agricultural buildings constructed only for the storage of harvested crops or agricultural commodities and without utilities or mechanical equipment</u></p>	<p>Review date: 7-12-18 Approval date: 7-12-18 New- committee amended IWUIC-2018 section. 7-12-18: Submitted by Smith Valley to amend Section 404.1. <i>Justification:</i> These amendments are made to permit the construction of pole barns and other agricultural buildings exclusively for the storage of hay, other harvested crops, and agricultural commodities. The intent is to allow agricultural buildings larger than 600 square feet for storage only that do not include any provisions for gas or electrical service or equipment or other mechanical equipment.</p>
New NNWUIC-2018 amendment	<p>404.5 Adequate water supply. Adequate water supply shall be determined for purposes of initial attack and flame front control as follows:</p> <p>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</p>	<p>404.5 Adequate water supply. Adequate water supply shall be determined for purposes of initial attack and flame front control as follows:</p> <p>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-</p>	<p>Review date: 4-19-18 Approval date: 4-19-18 New-IFC-2018 section amended by committee changing 75 percent to 50 percent.</p>

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	<p>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.</p> <p>Exception: A reduction in required flow rate of 50 percent, as approved by the code official, is allowed where the building is provided with an approved automatic sprinkler system.</p> <p>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:</p> <p>Exception: A reduction in required flow rate of up to 75 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).</p>	<p>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.</p> <p>Exception: A reduction in required flow rate of 50 percent, as approved by the code official, is allowed where the building is provided with an approved automatic sprinkler system.</p> <p>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.</p> <p>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).</p>	
<p>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.</p>	<p>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.</p>	<p>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 <i>fire weather</i>.</p>	<p>Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 section carried forward to the IWUIC-2018 code adoption.</p>

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The minimum standards set forth in this chapter vary with the critical <i>fire weather</i> , slope and fuel type to provide increased protection, above the requirements set forth in the <i>International Building Code</i> and the <i>International Residential Code</i> , from the various levels of hazards.	The minimum standards set forth in this chapter vary with the critical <i>fire weather</i> , slope and fuel type to provide increased protection, above the requirements set forth in the <i>International Building Code</i> from the various levels of hazards.	slope and fuel type to provide increased protection, above the requirements set forth in the <i>International Building Code</i> and the <i>International Residential Code</i> , from the various levels of hazards.	
502.1 General. The fire hazard severity of building sites for all buildings hereafter constructed, modified or relocated into <i>wildland-urban interface areas</i> shall be established in accordance with Table 502.1 or <u>Appendix C or the map developed by the Authority Having Jurisdiction as determined by the code official.</u> See also <u>Appendix G.</u>	502.1 General. The fire hazard severity of building sites for all buildings hereafter constructed, modified or relocated into <i>wildland-urban interface areas</i> shall be established in accordance with Table 502.1. See also Appendix C.	502.1 General. The fire hazard severity of building sites for all buildings hereafter constructed, modified or relocated into <i>wildland-urban interface areas</i> shall be established in accordance with Table 502.1 or <u>Appendix C or the map developed by the Authority Having Jurisdiction as determined by the code official.</u> See also <u>Appendix C.</u>	Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 section carried forward to IWUIC-2018 code adoption.
New NNWUIC-2018 amendment	Table 503.1 Ignition-Resistant Construction	Table 503.1 Ignition-Resistant Construction Add <u>Footnote f. Only with the approval of the fire code official.</u>	Review date: 7-12-18 Approval date: 7-12-18 New- Amended table approved by committee. Table 503.1 add footnote under Defensible Space column in 1.5 X Conforming row "Only with the approval of the fire code official." Amendment based on local environment condition. T503.1 allows for a reduction in ignition resistant construction class when defensible space is increased by 1 ½ times. This fails to take into consideration ember showers and their effect on roofs and roof vents. There are many factors in preventing structure ignition during a wildfire and defensible space is only one facet. The increased defensible space should not be allowed to cause a decrease in

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			the ignition resistant class unless the site has been evaluated and the fire code official authorizes it. Support document is University of Nevada Living with Fire program, NFPA Firewise. May increase building cost slightly. 7-12-18: Group discussion: Approved.
<p>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 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. <u>Roof coverings consisting of shakes or shingles made of wood are not approved as part of any Class A roof assembly.</u></p>	<p>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 <u>and ridge line</u> 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. <u>Roof coverings consisting of shakes or shingles made of wood are not approved as part of any Class A roof assembly.</u></p> <p>Exceptions:</p> <ol style="list-style-type: none"> 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. 	<p>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 <u>and ridge line</u> 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. <u>Roof coverings consisting of shakes or shingles made of wood are not approved as part of any Class A roof assembly.</u></p> <p>Exceptions:</p> <ol style="list-style-type: none"> 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. 	<p>Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 amendment carried forward to IWUIC-2018 maintaining exceptions. 6-21-18: Revised wording but carried through to IWUIC-2018 code adoption.</p>

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	Class A roof assemblies include a minimum 16 oz/sq. ft. (0.0416 kg/m ²) copper sheets installed over combustible decks.	3. Class A roof assemblies include a minimum 16 oz/sq. ft. (0.0416 kg/m ²) copper sheets installed over combustible decks.	
<p>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.</p> <p><u>Exception: When approved by the code official, unenclosed underfloor areas are allowed and are to be kept free of all combustible materials.</u></p>	<p>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.</p>	<p>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.</p> <p><u>Exception: When approved by the code official, unenclosed underfloor areas are allowed and are to be kept free of all combustible materials.</u></p>	<p>Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 amendment carried forward to IWUIC-2018 code adoption.</p>
<p>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.</p> <p><u>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.</u></p>	<p>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.</p>	<p>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. <u>Ember-resistant</u> 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.</p> <p><u>Exceptions:</u></p> <ol style="list-style-type: none"> 1. <u>Listed vents complying with ASTM E2886.</u> 1.1 <u>The Ember Intrusion Test shall have no flaming ignition of the cotton material.</u> 	<p>Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 carried forward to IWUIC-2018 code adoption with amended language.</p>

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		<p><u>1.2 These 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).</u></p> <p><u>2. The fire code official may accept or approve special eave and cornice vents that resist the intrusion of flame and burning embers.</u></p>	
<p>New NNWUIC-2018 amendment.</p>	<p>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. 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</p>	<p>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</p>	<p>Review date: 7-12-18 Approval date: 7-12-18 New- committee amended IWUIC-2018 section. 6-27-18: Amendment based upon local environment condition. Class B roofs are currently allowed in "extreme" and "high" hazard fire severity zones under certain conditions that take into consideration increased defensible space. However, this fails to consider the effect of ember showers that proceed advancing wildfire fronts. These ember showers can build up in roof valleys or ignite combustible roof debris, leading to attic ignition and ultimately a fully involved structure. We have seen this in many regional and local fires. It is addressed in Living with Fire's Ember Aware campaign and other public education materials. The roof should be Class A rated to</p>

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			<p>properly protect the structure from wildfire embers. Living With Fire "Ember Aware", University of California Wildfire Mitigation Guide, CalFire "Prepare for Wildfire", Fire Safe Montana Ignition Resistant Construction Guide, IBHS ember study 2011. In checking several local suppliers, Class B shingles aren't carried or sold. Since Class B shingles aren't readily available, there would be little or no cost impact. 7-12-18: Group discussion. Approved.</p>
<p>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. <u>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.</u></p>	<p>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.</p>	<p>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. <u>Ember-resistant</u> 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. <u>Exceptions:</u> 1. <u>Listed vents complying with ASTM E2886.</u> 1.1 <u>The Ember Intrusion Test shall have no flaming ignition of the cotton material.</u> 1.2 <u>These 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).</u></p>	<p>Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 carried forward to IWUIC-2018 code adoption with amended language.</p>

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		<p align="center">2. <u>The fire code official may accept or approve special eave and cornice vents that resist the intrusion of flame and burning embers.</u></p>	
<p>602.1 General. An approved automatic sprinkler system shall be installed in all occupancies in new buildings required to meet the requirements for Class 1 ignition-resistant construction in Chapter 5. The installation of the automatic sprinkler systems shall be in accordance with nationally recognized standards, 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.</p>	<p>602.1 General. An approved automatic sprinkler system shall be installed in all occupancies in new buildings required to meet the requirements for Class 1 ignition-resistant construction in Chapter 5. The installation of the automatic sprinkler systems shall be in accordance with nationally recognized standards.</p>	<p>NNWUIC-2012 amendment not carried forward to IWUIC-2018.</p>	<p>Review date: 5-17-18 Approval date: 5-17-18 Action date: 7-12-18 Existing- NNWUIC-2012 amendment not carried through to IWUIC-2018 adoption. 5-17-18: Go with base code -25-18 (Dave Ruben) All, in re-reviewing the WUI amendment package I am not comfortable in leaving in the base code section 602.1, which requires fire sprinklers in new buildings that require ignition resistant construction (IRC) Class 1 materials. All buildings constructed in "extreme hazard" require IRC 1. This includes all of Carson City, Tahoe Douglas, NLTFPD and others. When we discussed this, it was brought up that by increasing defensible space by 1.5 times per IWUIC T503.1, you could drop into IRC 2 and not have to have sprinklers. While that sounded like a good idea, some of us were depending on NAC 472.030 to still require a Class A roof even in IRC 2. NAC 472.303 refers to the 1985 UBC section on fire resistive roofing (which is attached). The UBC allows either Class A or B roofing as fire resistive. It even allows 2 layers of Class C to be considered fire resistive. As the base code for IRC 2 allows Class B roof as well as some lesser restrictions in the critical</p>

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			<p>under eave areas, I think we need to revisit this as the UBC reference is severely outdated and no longer reflects chapter 15 (roofing) of the IBC and IRC 2 fails to adequately address critical areas of the building.</p> <p>Also, NAC 472.030 only covers Washoe, Carson, Douglas, and Storey counties. Lyon is not covered in the NAC.</p> <p>I think at a minimum we should add a footnote to T503.1 under the Defensible space column for 1.5X conforming and have the footnote say "when approved by the fire code official". Without creating a bastardized version of the IRC 2 requirements that will be difficult to plan check and explain to builders, I think we should consider striking the base code section from the amendment package unless we can come up with a clear code path.</p> <p>7-12-18: group discussion. Go with base code.</p>
<p>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.</p> <p><u>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 said property.</u></p>	<p>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.</p>	<p>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.</p> <p><u>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 said property.</u></p>	<p>Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 amendment carried forward to IWUIC-2018 adding new subsection 603.2.1.1 to 603.2.1.</p>

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603.2.2 Trees. Trees are allowed within the <i>defensible space</i> , 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."	603.2.2 Trees. Trees are allowed within the <i>defensible space</i> , 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)	603.2.2 Trees. Trees are allowed within the <i>defensible space</i> , 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) <u>or an acceptable distance as determined by the code official.</u>	Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 amendment carried forward to IWUIC-2018 code adoption.
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) <u>or an acceptable distance as determined by the code official.</u> Tree crowns within the <i>defensible space</i> shall be pruned to remove limbs located less than 6 10 feet (1829 3048 mm) above the ground surface adjacent to the trees; <u>or an acceptable distance as determined by the code official.</u>	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). Tree crowns within the <i>defensible space</i> shall be pruned to remove limbs located less than 6 feet (1829 mm) above the ground surface adjacent to the trees.	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) <u>or an acceptable distance as determined by the code official.</u> Tree crowns within the <i>defensible space</i> shall be pruned to remove limbs located less than 6 10 feet (1829 3048 mm) above the ground surface adjacent to the trees; <u>or an acceptable distance as determined by the code official.</u>	Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 amendment carried forward IWUIC-2018 code adoption.
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).	604.4.1 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).	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).	Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 amendment carried forward to the IWUIC-2018 code adoption.
604.5 Non-combustible area. <u>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.</u>	Section not found in the IWUIC-2018.	604.5 Non-combustible area. <u>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.</u>	Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 amendment carried forward to IWUIC-2018 adding new subsection 605.5 to 604.
607.1 General. Firewood and combustible material shall not be stored in unenclosed spaces beneath buildings or structures, or	607.1 General. Firewood and combustible material shall not be stored in unenclosed spaces beneath buildings or structures, or on	607.1 General. Firewood and combustible material shall not be stored in unenclosed spaces beneath buildings or structures, or on	Review date: 4-19-18 Approval date: 4-19-18

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<p>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 <i>defensible space</i> shall be located a minimum of 20-30 feet (6096 mm) from structures and separated from the crown of trees by a minimum horizontal distance of 15 feet (4572 mm).</p>	<p>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 <i>defensible space</i> shall be located a minimum of 20 feet (6096 mm) from structures and separated from the crown of trees by a minimum horizontal distance of 15 feet (4572 mm).</p>	<p>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 <i>defensible space</i> 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). <u>Exception. Approved fire-resistance-rated coverings used in accordance with their listing and as approved and allowed by the Fire Code Official.</u></p>	<p>Existing- NNWUIC-2012 amendment carried forward to the IWUIC-2018 code adoption. Add exception fire resistant covering as allowed by the Fire Code Official</p>
<p>B101.1 Scope. Where required vegetation management plans shall be submitted to the code official <u>and the State Forester Firewarden</u> for review and approval as part of the plans required for a permit.</p>	<p>B101.1 Scope. Vegetation management plan shall be submitted to the code official for review and approval as part of the plans required for a permit.</p>	<p>B101.1 Scope. Where required vegetation management plans shall be submitted to the code official <u>and the State Forester Fire Warden</u> for review and approval as part of the plans required for a permit.</p>	<p>Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 amendment carried forward to the IWUIC-2018 code adoption.</p>
<p>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 <i>site defensible space</i> 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.</p>	<p>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 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.</p>	<p>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 <i>site defensible space</i> 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.</p>	<p>Review date: 4-19-18 Approval date: 4-19-18 Existing- NNWUIC-2012 amendment carried forward to the IWUIC-2018 code adoption.</p>

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NNWUIC-2012 Amendment	IWUIC-2018 Code Section	NNWUIC-2018 Amendment	Committee Action/Comments
3. A plan for maintaining the proposed fuel-reduction measures.	3. A plan for maintaining the proposed fuel-reduction measures.	3. A plan for maintaining the proposed fuel-reduction measures.	
<p align="center">SECTION B102</p> <p align="center">DEFENSIBLE SPACE PLANS</p> <p><u>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.</u></p> <p><u>B102.2 Plan content. A defensible space plan shall include at least the following information:</u></p> <p><u>1. Property boundaries,</u></p> <p><u>2. Current and proposed structures on the property.</u></p> <p><u>3. Trees and vegetation taller than 3 feet in height,</u></p> <p><u>4. Individual plant or brush fields 20 square feet or larger in area,</u></p> <p><u>5. Tree drip lines,</u></p> <p><u>6. Roads and driveways in abutting the property.</u></p>	Section not found in the IWUIC-2018	<p align="center">SECTION B102</p> <p align="center">DEFENSIBLE SPACE PLANS</p> <p><u>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.</u></p> <p><u>B102.2 Plan content. A defensible space plan shall include at least the following information:</u></p> <p><u>1. Property boundaries,</u></p> <p><u>2. Current and proposed structures on the property.</u></p> <p><u>3. Trees and vegetation taller than 3 feet in height,</u></p> <p><u>4. Individual plant or brush fields 20 square feet or larger in area,</u></p> <p><u>5. Tree drip lines,</u></p> <p><u>6. Roads and driveways in abutting the property.</u></p>	<p>Review date: 4-19-18</p> <p>Approval date: 4-19-18</p> <p>Existing- NNWUIC-2012 amendment carried forward to the IWUIC-2018 code adoption.</p>