

## Steering Committee Meeting Agenda – 05/01/2024

**1 E 1<sup>st</sup> St, Reno NV, 89505 – City Hall, 6<sup>th</sup> Floor Large Conference Room**

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1. Roll Call
2. Consent Items (For Consideration):
  - a. 2024 Carryover Amendments
    - i. IBC
      1. Section 202 High Rise Buildings Definition
      2. Section 305.2 Group E Day Care Facilities
      3. Section 308.2 Institutional Group I-1
      4. Section 308.5 Institutional Group I-4
      5. Section 310.2 Residential Group R-1
      6. Section 311.2 Moderate-Hazard Storage Group S-1
      7. Section 403.5.4 Smokeproof Enclosures
      8. Section 906 Portable Fire Extinguishers
      9. Section 910.2 Where required (Smoke and Heat Removal)
      10. Section 1210.3.3 Baby Changing Tables
      11. Section 1503.6 Snow Shedding and Impact Areas
      12. Section 1608.2.1 Ground Snow Loads
      13. Section 1609.1.1 Determination of Wind Loads
      14. Section 1609.1.1.1 Applicability
      15. Section 1609.3 Basic Wind Speeds
      16. Section 1704.2 Special Inspections and Tests
      17. Section 1803.2 Investigations Required
      18. Section 1803.6 Reporting
      19. Section 1807.2.1.1 Rockery Retaining Walls
      20. Section 1808.6.1 Foundations
      21. Section 1809.5 Frost Protection
      22. Section 2901.1 Scope
      23. Section 3102.7 Engineering Design
      24. Section I105.2 Footings
    - ii. IEBC
      1. Section 301.6 Baby Changing tables
      2. Section 902.1 High Rise Buildings
    - iii. IFGC
      1. Section 301.1.2 LP-Gas Installations

2. Section 301.16 Snow Hazard
  3. Section 406.4.1 Test Pressure
  4. Section 406.4.2 Test Duration
  5. Section 406.6.2 Before Turning Gas On
- iv. IMC
1. Section 505.4 Makeup air required
  2. Section 508.1.4 Evaporative Cooling Systems Used as Makeup Air
  3. Section 603.2 Duct Sizing
- v. UPC
1. Chapter 14 Firestop Protection
  2. Section 216 Definitions
  3. Section 218 Definition Penetration Firestop System
  4. Section 222.0 Definitions of “T” Rating
  5. Section 312.7 Fire-Resistant Construction
  6. Section 422.0 Minimum Number of Required Fixtures
  7. Section 609.1 Installation
  8. Section 712.1 Media
  9. Section 717.1 General (Size of Building Sewers)
  10. Section 723.1 General (Building Sewer Test)
  11. Section 1107.2 Methods of Testing Storm Drainage Systems
  12. Section 1201.1 Applicability
  13. Section 1208.6.1.3 Snow Hazard
  14. Section 1213.3 Test Pressure
  15. Section 1213.5.1 Turning Gas On
- vi. UMC
1. Section 304.3 Access to Appliances on Roofs
  2. Section 403.7.2 Enclosed Parking Garages
  3. Section 504.4.2.1 Length Limitation
  4. Section 505.10 Makeup Air
  5. Section 508.3.5.4 Evaporative Cooling Systems Used as Make Up Air Systems
  6. Section 511.2.2.2 Capture and Containment Test
  7. Section 605.1 General
  8. Section 609.1 Air-Moving Systems and Smoke Detectors
  9. Section 610.0 Performance Test for Automatic Shutoffs

- 10. Section 939.0 Sauna Heaters
- 11. Section 1301.1 Applicability
- 12. Section 1313.3 Test Pressure
- 13. Section 1313.5.1 Turning Gas On
- vii. NEC
  - 1. Article 210.52(A)(2) Wall Space
  - 2. Article 225.31(B) Locations
  - 3. Article 230.70(A)(1) Readily Accessible Location
  - 4. Article 240.51(B) Replacement Only
  - 5. Article 250.118(4) Types of Equipment Grounding Conductors
  - 6. Article 250.120 Equipment grounding conductor installation
  - 7. Article 314.17(C) Nonmetallic Boxes and Conduit Boxes
  - 8. Article 358.12 Uses Not Permitted
  - 9. Article 700.10(D) Fire Protection
  - 10. Article 700.12 General Requirements
- 3. New Items (For Consideration):
  - a. New Code Amendments
    - i. IBC
      - 1. Section 2902.1 Required Plumbing Table
      - 2. Section 2902.2 Separate Facilities
    - ii. UPC
      - 1. Section 608.3 Expansion Tanks, and Combination Temperature and Pressure Relief Valves
      - 2. Section 608.5 Discharge Piping
    - iii. NEC
      - 1. Article 100 Reliable Source of Power
      - 2. Article 358.10(A) Uses Permitted
      - 3. Article 690.7(D) Marking DC PV Circuits
- 4. Next meeting on 6/5/2024
- 5. Items to consider for next meeting
- 6. Discussion
- 7. Meeting Adjournment

## 2024 Carryover Amendment Packet - 5/1/24



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:**    **IBC**                      **Industry Votes:** **Y**    **N**

**Code Section:** Section 202

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 202 Definitions

*Amend Section 202 to read as follows:*

**HIGH-RISE BUILDING.** A building with an occupied floor or occupied roof located more than ~~75~~ 55 feet (~~22-860~~ 16,764 mm) above the lowest level of fire department vehicle access.

**International Electrical Code.** The Electrical Code, whether the National Electrical Code or the International Electrical Code, as amended and adopted by the local jurisdiction.

**International Mechanical Code.** The Mechanical Code, whether the Uniform Mechanical Code or the International Mechanical Code as amended and adopted by the local jurisdiction.

**International Plumbing Code.** The Plumbing Code, whether the Uniform Plumbing Code or the International Plumbing Code, as amended and adopted by the local jurisdiction.

**International Fuel Gas Code.** The Fuel Gas Code, whether NFPA 54 or the International Fuel Gas Code, as amended and adopted by the local jurisdiction.

**Surcharge.** A vertical load imposed on the retained soil that may impose a lateral force in addition to the lateral earth pressure of the retained soil. Examples include:

- Sloped retained soil.
- Structure footings supported by the retained soil.
- Adjacent vehicle loads supported by the retained soil.

**Supporting statement**

Indicate if this amendment is:

- Omission                       Local environment condition
- Compatibility                       Area standard practice

As adopted by the 2018 NN Amendments. Added "or occupied roof" to High Rise Buildings as stated in 2024 IBC.

**Documentation**

Provide statistics, studies or supporting documents.

See 2018 Amendments and 2024 IBC

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease



# NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**

**Committee:** **IBC** **Industry Votes:** **Y** **N**

**Code Section:** Section 305.2

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 305.2 Group E, day care facilities**  
*Amend Section 305.2 to read as follows:*  
**305.2 Group E, day care facilities.** This group includes buildings and structures, or portions thereof occupied by more than ~~five~~ six children older than 2 ½ years of age who receive educational, supervision or *personal care services* for fewer than 24 hours per day.  
**305.2.1 Within Places of religious worship.** Rooms and spaces within *places of religious worship* providing such day care during religious functions shall be classified as part of the primary occupancy.  
**305.2.2 ~~Five~~ Six or fewer children.** A facility having ~~five~~ six or fewer children receiving such day care shall be classified as part of the primary occupancy.  
**305.2.3 ~~Five~~ Six or fewer children in a dwelling unit.** A facility such as the above within a *dwelling unit* and having ~~five~~ six or fewer children receiving such day care shall be classified as a Group R-3 occupancy or shall comply with the *International Residential Code*

### Supporting statement

Indicate if this amendment is:

- Omission                       Local environment condition
- Compatibility                 Area standard practice

As amended in the 2018 NN Amendments to change 5 to 6 children to be compatible with Nevada State licensing.

### **Documentation**

Provide statistics, studies or supporting documents.

See 2018 Amendments and Nevada State child care licensing requirements.

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease.





## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**

**Jurisdiction Votes:** **Y**    **N**

**Committee:**     **IBC**

**Industry Votes:** **Y**    **N**

**Code Section:**    Section 308.2

### **State proposed amendment**

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 308.2 Institutional Group I-1**

*Amend Section 308.2 to read as follows:*

**308.2 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 specified in Section 308.2.1 or 308.2.2. 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
- Social rehabilitation facilities

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

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

**308.2.3 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.

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

**308.2.5 Board of Health.** All portions of a care facility which houses patients or residents which is classified by the State Board of Health as 'Category 2,' and which has an occupant load of more than 10 residents, is classified as an 'I-1' occupancy classification.

**Supporting statement**

Indicate if this amendment is:

- Omission
- Local environment condition
- Compatibility
- Area standard practice

As amended by the 2018 NN Amendments. No maintain compatibility with the Nevada State Board of health.

**Documentation**

Provide statistics, studies or supporting documents.

See 2018 Amendments and State Board of Health requirements.

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**

**Committee:** **IBC** **Industry Votes:** **Y** **N**

**Code Section:** Section 308.5

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 308.5 Institutional Group I-4, day care facilities**  
*Amend Section 308.5 to read as follows:*

**308.5 Institutional Group I-4, day care facilities.**

Institutional Group I-4 occupancy shall include buildings and structures occupied by more than ~~five~~ six persons of any age who receive *custodial care* for fewer than 24 hours per day 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

**308.5.1 Classification as Group E.** A child day care facility that provides care for more than ~~five~~ six but not more than 100 children 2 ½ 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.

**308.5.2 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.

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

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

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

As amended in the 2018 NN Amendments to Maintain compatibility with the Nevada State licensing requirements.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 NN Amendments and NV State licensing requirements.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No cost increase or decrease



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**

**Jurisdiction Votes:** **Y**    **N**

**Committee:** IBC

**Industry Votes:** **Y**    **N**

**Code Section:**     Section 310.2

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 310.2 Residential Group R-1**

*Amend Section 310.2 to read as follows:*

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

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

Brothels

*Congregate living facilities (transient) with more than 10 occupants*

*Hotels (transient)*

*Motels (transient)*

### Supporting statement

Indicate if this amendment is:

Omission

Local environment condition

Compatibility

Area standard practice

As amended in the 2018 NN Amendments to include brothels.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 NN Amendments.

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in cost.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**

**Jurisdiction Votes:** **Y**    **N**

**Committee:** **IBC**

**Industry Votes:** **Y**    **N**

**Code Section:**     Section 311.2

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**311.2 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:

- Aerosol products, Levels 2 and 3
- Aircraft hangar (storage and repair)
- Bags: cloth, burlap and paper
- Bamboos and rattan
- Baskets
- Belting: canvas and leather
- Books and paper in rolls or packs
- Boots and shoes
- Buttons, including cloth covered, pearl or bone
- Cardboard and cardboard boxes
- Clothing, woolen wearing apparel
- Cordage
- Beverages over 20% alcohol
- ~~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 listed in Table 307.1(1) (see Section 406.8)
- Photo engravings

Resilient flooring  
 Self-service storage facility (mini-storage)  
 Silks  
 Soaps  
 Sugar  
 Tires, bulk storage of  
 Tobacco, cigars, cigarettes and snuff  
 Upholstery and mattresses  
 Wax candles

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

AS adopted in the 2018 NN Amendments. IBC added language to include beverages over 20% alcohol.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 NN Amendments and 2024 IBC

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in cost





## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**

**Committee:** **IBC** **Industry Votes:** **Y** **N**

**Code Section:** Section 403.5.4

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 403.5.4 Smokeproof enclosures**

*Amend Section 403.5.4 to read as follows:*

**403.5.4 Smokeproof enclosures.** Every required *interior exit stairway* serving floors more than ~~75~~ 55 feet (~~22 860~~ 16 764 mm) above the lowest level of fire department vehicle access shall be a *smokeproof enclosure* in accordance with Sections 909.20 and 1023.11

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

To maintain compatibility with NV State requirements. See 2018 NN Amendments and NV State requirement.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 NN Amendments and NV State requirement.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No cost increase or decrease.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**

**Committee:** **IBC** **Industry Votes:** **Y** **N**

**Code Section:** Section 906

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 906 Portable Fire Extinguishers**

*Amend to Section 906 to read as follows:*

*Refer to the 2024 Editions of the International Fire Code and the 2024 Northern Nevada Fire Amendments.*

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

As amended in 2018 NN Amendments to maintain compatibility with the International Fire Code.

### Documentation

Provide statistics, studies or supporting documents.

See 2024 NN Ammendments and International Fire Code

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No cost increase or decrease



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**

**Jurisdiction Votes:** **Y** **N**

**Committee:** **IBC**

**Industry Votes:** **Y** **N**

**Code Section:** Section 910.2

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike out~~ portions amended or deleted. Underline added text.

#### **Section 910.2 Where required**

*Amend Section 910.2 to read as follows:*

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

#### **Exceptions:**

1. Frozen food warehouses used solely for storage of Class I and II commodities where protected by an *approved automatic sprinkler system.*
2. ~~Smoke and heat removal shall not be required in areas of buildings equipped with early suppression fast response (ESFR) sprinklers.~~ Automatic smoke and heat vents are not required within areas of buildings equipped with early suppression fast-response (ESFR) sprinklers unless the area of Group F-1 or S-1 occupancy protected with the ESFR sprinklers has an exit access travel distance of more than 250 feet (76 200mmn) .
3. Smoke and heat removal shall not be required in areas of buildings equipped with control mode special application sprinklers with a response time index of  $50 (m \times S)^{1/2}$  or less that are listed to control a fire in stored commodities with 12 or fewer sprinklers.

### Supporting statement

Indicate if this amendment is:

Omission

Local environment condition

Compatibility

Area standard practice

As amended in the 2018 NN Amendments.

### **Documentation**

Provide statistics, studies or supporting documents.

See 2018 NN Amendments

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No cost increase or decrease.



# NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**

**Jurisdiction Votes:** **Y**    **N**

**Committee:**    **IBC**

**Industry Votes:** **Y**    **N**

**Code Section:**    Section 1210.3.3

## State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 1210.3.3 Baby Changing Tables**  
*Amend Section 1210.3.3 by adding Section 1210.3.3 as follows:*

**1210.3.3 Baby Changing Tables.** Diaper changing tables are required to be installed in both male, female and other restrooms, in permanent buildings that contain public restrooms as defined in chapter 29 of the 2024 IBC. Changing tables are required when any of the following occur: new buildings, tenant improvements, new restrooms, alteration of existing restrooms, new additions, change of uses that require updating existing restrooms with additions to those facilities. Shall meet the guidelines of 603.5, 309 and 902 of ANSI/ICC A117.1-2017.

**Exceptions:** A building or facility that does not have public restrooms or has been issued a permit or license which restricts the admission of children on the basis of age, shall be exempt from this requirement.

## Supporting statement

Indicate if this amendment is:

- Omission                       Local environment condition
- Compatibility                       Area standard practice

As adopted in the 2018 NN Amendments. To be compatible with NV State NRS 278.584. Changed the numbering to be in accordance with the new section in 2024 IBC. 1210.3.3 is now added after 1210.3.2.

### **Documentation**

Provide statistics, studies or supporting documents.

See NRS 278.584

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease





## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**

**Committee:** **IBC** **Industry Votes:** **Y** **N**

**Code Section:** Section 1503.6

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 1503.6 Snow shedding and impact areas**

*Amend Section 1503 by adding Section 1503.6 as follows:*

**1503.6 Snow shedding and impact areas.** Snow shedding onto adjacent properties is prohibited. Snow shed impact areas shall be designed to contain shedding snow from structures and prevent snow from encroaching onto adjacent properties when ground snow loads exceed 154 p<sub>g</sub> when located in Washoe County or Carson City, or exceeds 69 p<sub>g</sub> when located in Storey County. The roof and eaves of all structures shall be designed so that snow shed impact areas will not occur in or on required exits, parking areas, driveways, LPG storage tanks, walkways, and public areas.

**Exception:** The snow shed impact area may be reduced provided an engineered snow restraint system, designed in accordance with this code, is incorporated into the roof design and the roof drainage system.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                  Area standard practice

As amended in the 2018 NN Amendments to reflect local climatic conditions. 1503.6 is now added to IBC after 1503.5

**Documentation**

Provide statistics, studies or supporting documents.

See 2018 NN Amendments.

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** IBC Structural **Industry Votes:** **Y**    **N**

**Code Section:**        Section 1608.2

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 1608.2 Ground snow loads.**

Amend Section 1608.2 to read as follows:

**Section 1608.2 Ground snow loads.** The ground snow *loads* for structures shall be determined in accordance with the reliability-targeted (strength based) ground snow load values in Chapter 7 of ASCE & or Figures 1608.2(1) through 1608.2(4) for the contiguous United States and Table 1608.2 for Alaska. Site-specific case studies shall be determined in accordance with Chapter 7 of ASCE 7 and shall be approved by the building official. Snow loads are zero for Hawaii, except in mountainous regions as approved by the building official. The snow loads for elevations above 4500 feet shall be taken from Table 1608.2.1 through 1608.2.4.

**Table 1608.2.1 RISK CATEGORY I GROUND SNOW LOADS  $P_g$ , FOR NORTHERN NEVADA LOCATIONS**

Add Table 1608.2.1 to read as follows:

Table 1608.2.1

**RISK CATEGORY I GROUND SNOW LOADS,  $P_g$ , FOR NORTHERN NEVADA LOCATIONS<sup>2,3</sup>**

Elevation	West of U.S. 395 , Sierra Slope, Carson City, Reno, Washoe County. West of Highway 88 for Douglas County. <sup>1</sup>	East of U.S. 395 for Carson City, Reno, Sparks, Washoe County. East of Highway 88 for Douglas County. <sup>1</sup>	Lyon County, City of Fernley	Storey County <sup>1</sup>	All Nevada Counties, Lake Tahoe Basin $P_g$
Feet	$P_g$ (Pounds Per Square Foot)				
4500	35	35	12	12	
5000	35	35	35	12	
5100	47	36	36	12	
5200	60	38	36	12	
5300	74	39	39	12	
5400	86	40	40	12	
5500	99	43	43	58	
6000	163	50	50	80	252
6500	196	50	50	103	269
7000	229	66	66	103	286
7500	246	66	66	103	303
8000	262	99	99	103	320
8500	278	99	99	103	338
9000	310	131	131	131	378
9500	343	163	163	138	446
10000	408	163	163	163	480

1. Final roof snow design load  $P_s$  or  $P_f$  shall not be less than 29 psf
2. Intermediate values may be determined by interpolation
3. Refer to local jurisdiction ordinances for other Ground Snow Loads

Add Table 1608.2.2 to read as follows:

**Table 1608.2.1 RISK CATEGORY II GROUND SNOW LOADS Pg,  
FOR NORTHER NEVADA LOCATIONS**

Table 1608.2.2

**RISK CATEGORY II GROUND SNOW LOADS, Pg, FOR NORTHERN NEVADA LOCATIONS <sup>1,2</sup>**

Elevation	West of U.S. 395 , Eastern Sierra Slope, Carson City, Reno, Washoe County, Douglas County and West of Highway 88.	East of U.S. 395 for Carson City, Reno, Sparks, Washoe County, Douglas County and East of Highway 88	Lyon County, City of Fernley	Storey County	All Nevada Counties, Lake Tahoe Basin Western Sierra Slope
Feet	Pg (Pounds Per Square Foot)				
4500	43	43	15	15	
5000	43	43	43	15	
5100	59	45	45	15	
5200	75	48	45	15	
5300	92	49	49	15	
5400	108	50	50	15	
5500	123	53	53	72	
6000	203	62	62	100	315
6500	245	62	62	129	336
7000	286	82	82	129	358
7500	308	82	82	129	379
8000	328	123	123	129	400
8500	348	123	123	129	422
9000	388	163	163	163	472
9500	429	203	203	172	558
10000	510	203	203	203	600

1. Refer to local jurisdiction ordinances for other Ground Snow Loads
2. Intermediate values may be determined by interpolation

Add Table 1608.2.3 to read as follows:

**Table 1608.2.1 RISK CATEGORY III GROUND SNOW LOADS Pg,  
FOR NORTHER NEVADA LOCATIONS**

Table 1608.2.3

**RISK CATEGORY III GROUND SNOW LOADS, Pg, FOR NORTHERN NEVADA LOCATIONS <sup>1,2</sup>**

Elevation	West of U.S. 395 , Eastern Sierra Slope, Carson City, Reno, Washoe County, Douglas County and West of State Route 88	East of U.S. 395 for Carson City, Reno, Sparks, Washoe County, Douglas County and East of State Route 88	Lyon County, City of Fernley	Storey County	All Nevada Counties, Lake Tahoe Basin Western Sierra Slope
Feet	Pg (Pounds Per Square Foot)				
4500	48	48	16	16	
5000	48	48	48	16	
5100	65	49	49	16	
5200	82	52	49	16	
5300	101	54	54	16	
5400	118	55	55	16	
5500	136	59	59	79	
6000	224	68	68	110	346
6500	269	68	68	142	370
7000	315	90	90	142	393
7500	338	90	90	142	417
8000	360	136	136	142	440
8500	382	136	136	142	464
9000	426	180	180	180	519
9500	472	224	224	189	613
10000	561	224	224	224	660

1. Refer to local jurisdiction ordinances for other Ground Snow Loads
2. Intermediate values may be determined by interpolation

Add Table 1608.2.4 to read as follows:

**Table 1608.2.1 RISK CATEGORY IV GROUND SNOW LOADS Pg, FOR NORTHER NEVADA LOCATIONS**

Table 1608.2.4

**RISK CATEGORY IV GROUND SNOW LOADS, Pg, FOR NORTHERN NEVADA LOCATIONS <sup>1,2</sup>**

Elevation	West of U.S. 395 , Eastern Sierra Slope, Carson City, Reno, Washoe County, Douglas County and West of State Route 88	East of U.S. 395 for Carson City, Reno, Sparks, Washoe County, Douglas County and East of State Route 88	Lyon County, City of Fernley	Storey County	All Nevada Counties, Lake Tahoe Basin Western Sierra Slope
Feet	Pg (Pounds Per Square Foot)				
4500	52	52	18	18	
5000	52	52	52	18	
5100	71	54	54	18	
5200	90	57	54	18	
5300	110	59	59	18	
5400	129	60	60	18	
5500	148	64	64	86	
6000	244	74	74	120	378
6500	294	74	74	155	403
7000	343	98	98	155	429
7500	369	98	98	155	455
8000	393	148	148	155	480
8500	417	148	148	155	506
9000	465	196	196	196	566
9500	515	244	244	206	669
10000	612	244	244	244	720

- 1. Refer to local jurisdiction ordinances for other Ground Snow Loads
- 2. Intermediate values may be determined by interpolation

**Supporting statement**

Indicate if this amendment is:

- Omission
- Local environment condition
- Compatibility
- Area standard practice

As adopted by 2018 NN Amendments. Revised section text to match text in the 2024 IBC.

### **Documentation**

Provide statistics, studies or supporting documents.

Snow Load Memorandum 12/30/23. The loads in this adoption match the previously used loads in the 2018 Northern Nevada Amendments. They have been altered to support the new methodology in the 2024 IBC and ASCE 7-22.

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease of cost.

This amendment has been consolidated into a single table for ease of understanding.



**Table 1608.2.1 Ground snow loads for Northern Nevada Locations**

*Add Table 1608.2.1 to read as follows:*

**Table 1608.2.1**

**GROUND SNOW LOADS, Pg, FOR NORTHERN NEVADA LOCATIONS<sup>1,2,3,4</sup>**

Elevation  (feet)	West of U.S. 395, Eastern Sierra Slope, Carson City, Reno, Washoe County, Douglas County and West of S.R. 88. <sup>1</sup>				East of U.S. 395 for Carson City, Reno, Sparks, Washoe County, Douglas County and East of S.R. 88. <sup>1</sup>				Lyon County, City of Fernley				Storey County <sup>1</sup>				All Nevada Counties, Lake Tahoe Basin, Western Sierra Slope			
	RISK CATEGORY																			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
	Pg (Pounds Per Square Foot)																			
4500	35	43	48	52	35	43	48	52	12	15	16	18	12	15	16	18				
5000	35	43	48	52	35	43	48	52	35	43	48	52	12	15	16	18				
5100	47	59	65	71	36	45	49	54	36	45	49	54	12	15	16	18				
5200	60	75	82	90	38	48	52	57	36	45	49	54	12	15	16	18				
5300	74	92	101	110	39	49	54	59	39	49	54	59	12	15	16	18				
5400	86	108	118	129	40	50	55	60	40	50	55	60	12	15	16	18				
5500	99	123	136	148	43	53	59	64	43	53	59	64	58	72	79	86				
6000	163	203	224	244	50	62	68	74	50	62	68	74	80	100	110	120	252	315	346	378
6500	196	245	269	294	50	62	68	74	50	62	68	74	103	129	142	155	269	336	370	403
7000	229	286	315	343	66	82	90	98	66	82	90	98	103	129	142	155	286	358	393	429
7500	246	308	338	369	66	82	90	98	66	82	90	98	103	129	142	155	303	379	417	455
8000	262	328	360	393	99	123	136	148	99	123	136	148	103	129	142	155	320	400	440	480
8500	278	348	382	417	99	123	136	148	99	123	136	148	103	129	142	155	338	422	464	506
9000	310	388	426	465	131	163	180	196	131	163	180	196	131	163	180	196	378	472	519	566
9500	343	429	472	515	163	203	224	244	163	203	224	244	138	172	189	206	446	558	613	669
10000	408	510	561	612	163	203	224	244	163	203	224	244	163	203	224	244	480	600	660	720

**Footnotes:**

1. Final roof snow design load Ps or Pf shall not be less than 29 psf
2. Refer to local jurisdiction ordinances for other Ground Snow Load information
3. Intermediate values may be determined by interpolation
4. The City of Elko shall not have ground snow loads less than 30 psf and Churchill County shall not have ground snow loads less than 20 psf

S.R. = State Route  
U.S. = U.S. Highway



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**                      **Jurisdiction Votes:** **Y**    **N**

**Committee:** IBC/IRC Struct Tech    **Industry Votes:** **Y**    **N**

**Code Section:** 1609.1.1 Determination of wind loads

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 1609.1.1 Determination of wind loads.**

Amend Section 1609.1.1 to read as follows:

**1609.1.1 Determination of wind loads.** Wind loads on every *building* or *structure* shall be determined in accordance with Chapters 26 to 30 of ASCE 7. The type of opening protection required, the basic design wind speed, *V*, and the exposure category for a *site* is permitted to be determined in accordance with section 1609 or ASCE 7. The wind speed in the City of Reno, the City of Sparks, Douglas, Pershing and Washoe Counties shall be per the Special Wind Region Table 1609.3.2. Wind shall be assumed to come from any horizontal direction and wind pressures shall be assumed to act normal to the surface considered.

**Exceptions:**

1. Subject to limitations of section 1609.1.1.1, the provisions of ICC 600 shall be permitted for applicable Group R-2 and R-3 *buildings*.
2. Subject to the limitations of Section 1609.1.1.1, residential *structures* using the provisions of AWC WFCM.
3. Subject to the limitations of Section 1609.1.1.1 residential *structures* using the provisions of AISI S230.
4. Designs using NAAMM FP 1001.

5. Designs using TIA-222 for antenna-supporting *structures* and antennas, provided that the horizontal extent of Topographic Category 2 escarpments in Section 2.6.6.2 of TIA-222 shall be 16 times the height of the escarpment.

6. Wind tunnel tests in accordance with ASCE 49 and Sections 31.4 and 31.5 of ASCE 7.

The wind speeds in Figures 1609.3(1) through 1609.3(4) are basic design wind speeds,  $V$ , and shall be converted in accordance with Section 1609.3.1 to *allowable stress design* wind speeds,  $V_{asd}$ , when the provisions of the standards referenced in Exceptions 4 and 5 are used. The wind speed in the City of Reno, the City of Sparks, Douglas, Pershing and Washoe Counties shall be per the Special Wind Region Table 1609.3.2

### Supporting statement

Indicate if this amendment is:

Omission       Local environment condition  
 Compatibility       Area standard practice

As adopted in 2018 NN Amendments. Revised section text to match text of the 2024 IBC.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 NN Amendments and 2024 IBC.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in cost.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** IBC/IRC Struct Tech **Industry Votes:** **Y**    **N**

**Code Section:** 1609.1.1.1 Applicability

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### **Section 1609.1.1.1 Applicability.**

Amend Section 1609.1.1.1 to read as follows:

**1609.1.1.1 Applicability.** The provisions of ICC 600 are applicable only to buildings located within Exposure B or C as defined in section 1609.4. The wind speed in the Carson City, City of Reno, the City of Sparks, Douglas, Pershing, Storey, Lyon and Washoe Counties shall be per the Special Wind Region Table 1609.3.2. The provisions of ICC 600, AWC WFCM and AISI S230 shall not apply to buildings sited on the upper half of an isolated hill, ridge, or escarpment meeting all of the following conditions:

1. The hill, ridge or escarpment is 60 feet (18288 mm) or higher if located in Exposure B or 30 feet (9144 mm) or higher if located in Exposure C.
2. The maximum average slope of the hill exceeds 10 percent.
3. The hill, ridge or escarpment is unobstructed upwind by other such topographic features for a distance from the high point of 50 times the height of the hill or 2 miles (3.22 km), whichever is greater.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

As Adopted by the 2018 NN Amendments.

### **Documentation**

Provide statistics, studies or supporting documents.

See the 2018 NN Amendments.

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease of cost.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**                      **Jurisdiction Votes:** **Y**      **N**

**Committee:** IBC/IRC Struct Tech    **Industry Votes:** **Y**      **N**

**Code Section:** 1609.3 Basic design wind speed

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 1609.3 Basic design wind speed.**

Amend Section 1609.3 to read as follows:

**1609.3 Basic design wind speed.** The *basic wind speed, V*, in mph, for the determination of the wind loads shall be determined by the Figures 1609.3(1) through 1609.3(4).

The *basic wind speed, V*, for use in the design of *Risk Category I buildings and structures* shall be obtained from Figure 1609.3(1).

The *basic wind speed, V*, for use in the design of *Risk Category II buildings and structures* shall be obtained from Figure 1609.3(2).

The *basic wind speed, V*, for use in the design of *Risk Category III buildings and structures* shall be obtained from Figure 1609.3(3).

The *basic wind speed, V*, for use in the design of *Risk Category IV buildings and structures* shall be obtained from Figure 1609.3(4).

*Basic wind speed, V*, for Hawaii, the US Virgin Islands and Puerto Rico shall be determined by using the ASCE Wind Design Geodatabase. The ASCE Wind Design Geodatabase is available at

<https://asce7hazardtool.online>, or an approved equivalent.

The *basic wind speed, V*, for the special wind regions indicated near mountainous terrain and near gorges shall be in accordance with local *jurisdiction* requirements. The *basic wind speeds, V*, determined by the local *jurisdiction* shall be in accordance with Chapter 26 of ASCE 7.

In nonhurricane-prone regions, when the *basic wind speed, V*, is estimated from the regional climatic data, the *basic wind speed, V*, shall be determined in accordance with Chapter 26 of ASCE 7.

No altitude density reduction shall be taken.

**TABLE 1609.3.2 SPECIAL WIND REGION DEFINED: MINIMUM BASIC WIND SPEEDS**

Add Table 1609.3.2 to read as follows:

**TABLE 1609.3.2**  
**SPECIAL WIND REGION DEFINED:**  
**MINIMUM BASIC WIND SPEEDS**

For Carson City, City of Reno, City of Sparks, Douglas, Lyon, Pershing, Storey and Washoe Counties the design wind speed values shall be:

Risk Category	Ultimate Wind Speed $V_{ult}$ (mph)	$V_{asd}$ Wind Speed 3-sec gust (mph)
I	110	85
II & 2018 IRC	120	93
III	130	101
IV	135	104

Table notes:

- a) Air density corrections to design wind pressures are prohibited.
- The conversions from  $V_{ult}$  to  $V_{asd}$  are based on Table 1609.3.1

**Supporting statement**

Indicate if this amendment is:

- Omission
- Local environment condition
- Compatibility
- Area standard practice

As adopted by the 2018 NN Amendments. Revised section text to match text of 2024 IBC.

**Documentation**

Provide statistics, studies or supporting documents.

See 2018 NN Amendments and 2024 IBC.

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease of cost.





## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**                      **Jurisdiction Votes:** **Y**    **N**

**Committee:** IBC/IRC Struct Tech    **Industry Votes:** **Y**    **N**

**Code Section:** 1704.2 Special inspections and tests.

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 1704.2 Special inspections and tests.**

Amend Section 1704.2 to read as follows:

**1704.2 Special inspections and tests.** Where application is made to the *building official* for construction as specified in Section 105, the *owner* or the *owner's* authorized agent, other than the contractor, shall employ one or more *approved agencies* to provide *special inspections* and tests during construction on the types of work specified in Section 1705 and identify the *approved agencies* to the *building official*. These *special inspections* and tests are in addition to the inspections by the *building official* that are identified in Section 110.

**Exceptions:**

1. *Special inspections* and tests are not required for construction of a minor nature or as warranted by conditions in the *jurisdiction* as *approved* by the *building official*.
2. Unless otherwise required by the *building official*, *special inspections* and tests are not required for Group R-3 occupancies as applicable in section 101.2 and Group U occupancies that are accessory to a residential occupancy including, but not limited to, those listed in Section 312.1.
3. *Special inspections* and tests are not required for portions of *structures* designed and constructed in

accordance with the cold-formed steel *light-frame construction* provisions of ~~Section 2211.1.2~~ Section 2206.1.2 or the *conventional light-frame constructions* provisions of Section 2308.  
 4. The contractor is permitted to employ the *approved agencies* where the contractor is also the owner.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                       Area standard practice

As adopted by the 2018 NN Amendments. Revised "Section 221.1.2 to Section 2206.1.2" for compatibility with 2024 IBC.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 NN Amendments and 2024 IBC.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in cost.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**                      **Jurisdiction Votes:** **Y**    **N**

**Committee:** IBC/IRC Struct Tech    **Industry Votes:** **Y**    **N**

**Code Section:** 1803.2 Investigations required.

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 1803.2 Investigations required.**

Amend Section 1803.2 to read as follows:

**1803.2 Investigations required.** Geotechnical investigations shall be conducted in accordance with Sections 1803.3 through 1803.5. 17

**Exception:** ~~The building official shall be permitted to waive the requirement for~~ need not require a geotechnical investigation where satisfactory data from adjacent areas is provided by a licensed design professional ~~available~~ that demonstrates an investigation is not necessary for any of the conditions in Sections 1803.5.1 through 1803.5.6 and Sections 1803.5.10 and 1803.5.11.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

As amended in the 2018 NN Amendments.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 NN Amendments

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in cost.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** IBC/IRC Struct Tech **Industry Votes:** **Y**    **N**

**Code Section:** Section 1803.6 Reporting

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 1803.6 Reporting

Amend Section 1803.6 to read as follows:

**1803.6 Reporting.** Where geotechnical investigations are required, a written report of the investigations shall be submitted to the *building official* by the *permit* applicant at the time of *permit* application. This geotechnical report shall include, but need not be limited to, the following information:

1. A plot showing the location of the soil investigations.
2. A complete record of the soil boring and penetration test logs and soil samples.
3. A record of the soil profile.
4. Elevation of the water table, if encountered.
5. Recommendations for foundation type and design criteria, including but not limited to: bearing capacity of natural or compacted soil; provisions to mitigate the effects of expansive soils; mitigation of the effects of liquefaction, differential settlement, and varying soil strength; and the effects of adjacent loads.
6. Expected total and differential settlement.
7. Deep foundation information in accordance with Section 1803.5.5.

8. Special design and construction provisions for foundations of structures founded on expansive soils, as necessary.
9. Compacted fill material properties and testing in accordance with Section 1803.5.8.
10. Controlled *low-strength* material properties and testing in accordance with Section 1803.5.9.
11. Where required by 1803.5.11, investigation of liquefaction hazards shall be performed in accordance with "Guidelines for Evaluating Liquefaction Hazards in Nevada;" investigation of hazards associated with surface displacement due to faulting or seismically induced lateral spreading or lateral flow shall be performed in accordance with "Guidelines for Evaluating Potential Surface Fault Rupture/Land Subsidence Hazards in Nevada."

### Supporting statement

Indicate if this amendment is:

- Omission                       Local environment condition  
 Compatibility                 Area standard practice

As amended in the 2018 NN Amendments to reflect local climatic conditions. Added Item 11.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 NN Amendments.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease of cost.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** **IBC/IRC Structural**      **Industry Votes:** **Y**    **N**

**Code Section: (Added) 1807.2.1.1**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### **Section 1807.2.1.1 Rockery retaining walls**

*Amend Section 1807.2 adding Section 1807.2.1.1 as follows:*

#### **1807.2.1.1 Rockery retaining walls**

Rockery retaining walls or rockery soil stabilization walls shall be placed against cuts in native soils and shall not be subject to surcharges, such as building foundations, adjacent retaining structures, slopes, or vehicle surcharge. ~~Structures~~ All loads adjacent to rockery walls shall be set back a minimum distance equal to the height of the wall. Set back distances shall be measured at the top of the wall from to the back of the wall and at the bottom of wall from the front of the wall.

Rockery walls shall be embedded below the frost line. For sloping toe conditions, rockery walls shall be embedded to a depth sufficient achieve a minimum lateral distance in front of the foundation/base rock equal to the width of the base rock, but not less than 6 feet.

Rockery walls over ~~four~~ two feet in height shall be engineered and any wall over three feet in height shall have special inspection. No individual wall or tiered wall section shall exceed 6 feet in height. Wall height is determined ~~measured~~ from the exposed ground surface at the bottom of the wall to ~~bottom of the footing to the~~ adjacent grade at the top of the wall. ~~No single tier shall exceed 8 feet in height.~~

Rockery walls shall be analyzed for bearing, sliding, overturning resistance, and global stability. A global stability analysis shall be performed for all rockery walls that are terraced. Sliding resistance shall be analyzed at the bottom of each rock level. The maximum coefficient of friction between the rocks in the wall shall be 0.5. Passive resistance at the toe of the wall shall be neglected. Rockery walls shall be designed for dynamic seismic lateral earth pressures due to the design earthquake ground motion. For seismic loading conditions and global stability analyses, the design earthquake ground motion shall be determined per Chapter 11 of ASCE-7.

Rockery walls shall be in a continuous alignment without abrupt changes in direction. Termination, intersections, and radii shall be included in the engineering analysis. As described above, Drainage shall be provided behind all engineered rockery walls.

Design documents shall be stamped by an Engineer licensed in the State of Nevada and include all engineering calculations including inputs and results. The Special inspection documents shall verify all of the specified items listed below which the design engineer shall specify-include on the construction documents:

1. Type and quality of rock
  2. Unit weight, if design exceeds 155 pcf
  3. Rock size in approximate diameter
  4. Rock placement
  5. Voids greater than 3" shall be filled
  6. ~~Drainage swale and system~~ Wall drainage system (i.e. drainage rock and geosynthetic filter fabric)
  7. Surface drainage
  - 7.8. Embedment depth and width
  - 8:9. Wall face slope (batter 6v:1H recommended six vertical to one horizontal maximum)
  10. ~~Mechanically stabilized earth, if specified~~
  10. Maintenance and service access.
- A Global Stability Analysis shall include the following:
1. ~~Shall be stamped by a licensed geotechnical engineer.~~
  2. ~~Shall include a seismic evaluation representative of the location.~~
  3. ~~All results of the analysis shall be included in the report.~~

Any rockery walls exceeding 6 feet in height or varying from these design requirements, including backslopes, or constructed to support fill soils, shall require a variance and engineering review to include the following:

1. Suitability evaluation of other alternative wall types
2. 3<sup>rd</sup> party review
3. Full-time inspection

In no case, shall a single wall exceed 10 feet in height. All fill placed behind a rockery wall shall be reinforced and designed to eliminate any loads acting upon the wall.

## Supporting statement

Indicate if this amendment is:

- X Omission                       X Local environment condition  
 Compatibility                       Area standard practice

**Section 1807 -Foundation Walls, Retaining Walls and Embedded Posts and Poles** in the 2024 IBC, specifically section 1807.1.3 excludes the use of rubble stone foundations for foundation walls of structures assigned to Seismic Design Category C, D, E, or F. The Truckee Meadows and surrounding areas are in Seismic Design Category D, except for a small area running along piedmont of the Sierras in southern Washoe County and Carson City. This area is in Seismic Design Category E.



Though the code does not support rubble stone foundations (i.e. dry stacked rock) for foundations in this area, dry stacked rock has been used throughout the area as rockery wall retaining structures. **Section 1807.2 Retaining walls** does not provide guidance specific to local construction practices. This submittal is intended to provide additional requirements for design and to supplement the previous *2018 Northern Nevada Amendments*.

## Documentation

Provide statistics, studies or supporting documents.

Required analyses -FHWA\_CFL/TD-06-006, Chapter 4-

<b>CHAPTER 4 – RECOMMENDED ROCKERY DESIGN GUIDELINES .....</b>	<b>55</b>
<b>STATIC DESIGN .....</b>	<b>55</b>
Design Parameters .....	55
Lateral Earth Pressures .....	58
Sliding Resistance .....	60
Overturning .....	65
Bearing Capacity .....	67
Global Stability .....	70
<b>SEISMIC DESIGN .....</b>	<b>71</b>
Governing Regulations .....	71
Seismic Analysis .....	72
Seismic Slope Stability .....	75

Minimum wall embedment - FHWA\_CFL/TD-06-006, Chapter 4-pg 57

- Minimum required embedment depth (D). Because passive resistance at the toe is commonly neglected for rockery design, the value of D is typically constrained by the potential for disturbance of the soil at the toe. As a minimum, D should be 300 mm (1 ft) for level toe conditions, and should extend below the depth of frost penetration or anticipated scour. For sloping toe conditions, D should be sufficient to achieve 1800 mm (6 ft) of lateral soil cover in front of the base rock.

Seismic Loadings – IBC 2024 Section 1803.5.12, Item 2

**1803.5.12 Seismic Design Categories D through F.** For structures assigned to *Seismic Design Category D, E or F*, the geotechnical investigation required by Section 1803.5.11 shall include all of the following as applicable:

2. The potential for liquefaction and soil strength loss evaluated for site peak ground acceleration, earthquake magnitude and source characteristics consistent with the maximum considered earthquake ground motions. Peak ground acceleration shall be determined based on one of the following:
  - 2.1. A site-specific study in accordance with Chapter 21 of ASCE 7.
  - 2.2. In accordance with Section 11.8.3 of ASCE 7.

## Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

The prescribed height is consistent with the 2018 Northern Nevada Amendment (8 feet measured from the bottom of the wall vs 6 feet plus embedment). No additional cost is anticipated for walls 6 feet in height or less.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** IBC/IRC Struct Tech **Industry Votes:** **Y**    **N**

**Code Section:** 1808.6.1 Foundations

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### 1808.6.1 Foundations

Amend Section 1808.6.1 to read as follows:

**1808.6.1 Foundations.** Foundations placed on or within the active zone of expansive soils shall be designed to resist differential volume changes and to prevent structural damage to the supported *structure*. Deflection and racking of the supported *structure* shall be limited to that which will not interfere with the usability and serviceability of the *structure*.

Foundations placed below where volume change occur or below expansive soil shall comply with the following provisions:

1. Foundations extending into or penetrating expansive soils shall be designed to prevent uplift of the supported structure.
2. Foundations penetrating expansive soils shall be designed to resist forces exerted on the foundation due to soil volume changes or shall be isolated from the expansive soil.

Post-tensioned slabs shall not be utilized in place of frost depth footing design unless super structure deflection and differential movement calculations are provided. The deflection calculations would need to show that the maximum combined frost and expansive soil heaving, as localized at slab edges, with

resultant non-uniformly distributed deflections, as well as whole slab deflections would not result in super structure racking or excessive truss, roof or wall frame movement.

### **Supporting statement**

Indicate if this amendment is:

Omission

Local environment condition

Compatibility

Area standard practice

As amended in the 2018 NN Amendments.

### **Documentation**

Provide statistics, studies or supporting documents.

See 2018 NN Amendments.

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in cost.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**            **Jurisdiction Votes:** **Y**    **N**

**Committee:** IBC/IRC Struct Tech    **Industry Votes:** **Y**    **N**

**Code Section:** 1809.5 Frost Protection

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### **Section 1809.5 Frost protection**

Amend Section 1809.5(1) to read as follows:

**1809.5 Frost protection.** Except where otherwise protected from frost, foundations and other permanent supports of *buildings* and *structures* shall be protected from frost by one or more of the following methods:

1. Extending below the frost line of the locality.  
Refer to 2018 Northern Nevada Amendments Appendix Table R301.2(1) for requirements of local Authorities Having Jurisdiction.
2. Constructing in accordance with ASCE 32.
3. Erecting on solid rock.

**Exception:** Free-standing *buildings* meeting all of the following conditions shall not be required to be protected:

1. Assigned to *Risk Category I*.
2. Area of 600 square feet (56 m<sup>2</sup>) or less for *light-frame construction* or 400 square feet (37 m<sup>2</sup>) or less for other than *light-frame construction*.
3. Eave height of 10 feet (3048 mm) or less.

Shallow foundations shall not bear on frozen soil unless such frozen condition is of a permanent character.

### Supporting statement

Indicate if this amendment is:

   Omission              X   Local environment condition

\_\_Compatibility \_\_Area standard practice

As amended in the 2018 NN Amendments to reflect local climatic conditions.

### **Documentation**

Provide statistics, studies or supporting documents.

See 2018 NN Amendments.

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease of cost.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:**                    **IBC**                    **Industry Votes:** **Y**    **N**

**Code Section: 2901.1 Scope**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 2901.1 Scope**  
*Amend Section 2901.5 to read as follows:*  
**2901.1 Scope.** The provisions of this chapter and the ~~International Plumbing Code~~ Uniform Plumbing Code shall govern the design, construction, erection and installation of plumbing components, appliances, equipment and systems used in *buildings* and structures covered by this code. Toilet and bathing rooms shall be constructed in accordance with Section 1209. ~~Private sewage disposal systems shall conform to the International Private Sewage Disposal Code.~~ The *International Fire Code*, the *International Property Maintenance Code* and the *International Plumbing Code* shall govern the use and maintenance of plumbing components, appliances, equipment and systems. The *International Existing Building code* and the *International Plumbing Code* shall govern the *alteration, repair, relocation, replacement and addition* of plumbing components, *appliances, equipment* and systems.

### Supporting statement

Indicate if this amendment is:

- |  |  |
|--|--|
| <input type="checkbox"/> Omission      | <input type="checkbox"/> Local environment condition       |
| <input type="checkbox"/> Compatibility | <input checked="" type="checkbox"/> Area standard practice |

As adopted in the 2018 Amendments.

**Documentation**

Provide statistics, studies or supporting documents.

See 2018 Amendments

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No cost increase or decrease



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** IBC/IRC Struct Tech **Industry Votes:** **Y**    **N**

**Code Section:** 3102.7 Engineering design

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 3102.7 Engineering design.**

Amend Section 3102.7 to read as follows:

**3102.7 Engineering design.** The *structure* shall be designed and constructed to sustain *dead loads; loads* due to tension or inflation; *live loads* including wind, snow or *flood* and seismic loads and in accordance with Chapter 16.

**Exception:** Membrane structures intended to be in place for 30 days or less may be engineered to risk category I loads provided the installation and use are per the manufacturer's recommendations.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

AS adopted in the 2018 NN Amendments.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 NN Amendments.



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**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in cost.
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** IBC/IRC Struct Tech **Industry Votes:** **Y**    **N**

**Code Section:** I105.2 Footings

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section I105.2 Footing.**

Amend Section I105.2 to read as follows:

**I105.2 Footings.** ~~In areas with a frost depth of zero, a~~ An unenclosed patio cover that projects 14 feet or less from the main structure shall be permitted to be supported on a concrete slab on grade without footing, provided that the slab conforms to the provisions of Chapter 19 of this code and is not less than 3½ inches (89 mm) thick, and the columns do not support loads in excess of 750 pounds (3.36 kN) per column.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

As adopted in the 2018 NN Amendments.

### Documentation

Provide statistics, studies or supporting documents.

See the 2018 NN Amendments.

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in cost.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**

**Jurisdiction Votes:** **Y 3 N 0**

**Committee:** **IEBC**

**Industry Votes:** **Y 0 N 0**

**Code Section:** **301.6**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

Section 301.6 Baby changing tables  
 Amend Section 301 by adding Section 301.6 to read as follows:  
 301.6 Baby Changing Tables. Diaper changing tables are required to be installed in both male, female and other restrooms, in permanent buildings that contain public restrooms as defined in chapter 29 of the 2018 IBC. Changing tables are required when any of the following occur: new buildings, tenant improvements, new restrooms, alteration of existing restrooms, new additions, change of uses that require updating existing restrooms with additions to those facilities. Shall meet the guidelines of 603.5, 309 and 902 of ANSI/ICC A117.1-2017.  
 Exceptions: A building or facility that does not have public restrooms or has been issued a permit or license which restricts the admission of children on the basis of age, shall be exempt from this requirement.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

As required by state law

**Documentation**

Provide statistics, studies or supporting documents.

As required by state law

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

As required by state law



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**

**Jurisdiction Votes:** **Y 3 N 0**

**Committee:** IEBC

**Industry Votes:** **Y 0 N 0**

**Code Section:** 902.1

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

Section 902.1 High-rise buildings  
 Amend Section 902.1 to read as follows:  
 902.1 High-rise buildings. Any building having occupied floors more than ~~75~~ 55 feet (22 860 16 764 mm) above the lowest level of fire department vehicle access shall comply with the requirements of Sections 902.1.1 and 902.1.2.

### Supporting statement

Indicate if this amendment is:

Omission

Local environment condition

Compatibility

Area standard practice

As required by state law.

### Documentation

Provide statistics, studies or supporting documents.

As required by state law.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

As required by state law.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**  
**Committee:** IFGC **Industry Votes:** **Y**    **N**

**Code Section: 301.1.2**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Add new subsection 301.1.2 to section 301.1:*  
**301.1.2 LP-Gas Installations.** Whenever there is a conflict between this code and NFPA 54 and NFPA 58 as adopted by the Nevada LP-Gas Board for LP-Gas installations, the adopted codes of the Nevada LP-Gas Board shall govern.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

As previously adopted in the 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease if building costs.





## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** IFGC **Industry Votes:** **Y**    **N**

**Code Section: 301.16**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Add new section 301.16 to 301:*

**301.16 Snow hazard.** Protection of utilities shall be per requirements of the local utility.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

As previously adopted in the 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease if building costs.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** Y N

**Committee:** IFGC **Industry Votes:** Y N

**Code Section:** 406.4.1

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Amend section 406.4.1 to read as follows:*

**406.4.1 Test pressure.** The test pressure to be used shall be no less than 1-1/2 times the proposed maximum working pressure, but not less than ~~3~~ 25 psig (~~20~~ 172.4 kPa gauge). Where the test pressure exceeds 125 psig (862 kPa gauge), the test pressure shall not exceed a value that produces a hoop stress in the *pip*ing greater than 50 percent of the specified minimum yield strength of the pipe. This test shall be made before any fixtures or appliances have been attached and before being concealed.

### Supporting statement

Indicate if this amendment is:

Omission  Local environment condition  
 Compatibility  Area standard practice

As previously adopted in the 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease if building costs.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** Y N

**Committee:** IFGC **Industry Votes:** Y N

**Code Section:** 406.4.2

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Amend section 406.4.2 to read as follows:*

**406.4.2 Test duration.** Test duration shall be not less than 30 minutes. 1/2 hour for each 500 cubic feet (14 m<sup>3</sup>) of pipe volume or fraction thereof. When testing a system having a volume less than 10 cubic feet (0.28 m<sup>3</sup>) or a system in a single family dwelling, the test duration shall be not less than 10 minutes. The duration of the test shall not be required to exceed 24 hours.

### Supporting statement

Indicate if this amendment is:

Omission  Local environment condition  
 Compatibility  Area standard practice

As previously adopted in the 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease if building costs.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** N

**Committee:** IFGC **Industry Votes:** **Y** N

**Code Section:** 406.6.2 through 406.6.2.3

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### **Section 406.6.2 Before Turning Gas On**

*This amendment shall only apply to the City of Reno, City of Sparks, and Washoe County. Amend Section 406.6.2 to read as follows and add new subsections 405.6.2.1 thru 405.6.2.3:*

**406.6.2 Before turning gas on.** During the process of turning gas on into a system of new gas piping, ~~or portion of a gas system that has been restored after an interruption of service,~~ the entire system shall be inspected to determine that there are no open fittings or ends and that all valves at unused outlets are closed and plugged or capped. ~~In the City of Reno, City of Sparks, Storey County and Washoe County, a manometer test shall be made after all valves, unions, connectors and piping to the appliances are complete. A pressure test shall be made with the use of a manometer gauge measuring inches of water column. With all valves including gas cock and gas control valves in the open position, a pressure of at least eleven (11) to fifteen (15) inches of water column shall be measured for at least fifteen (15) minutes with no perceptible drop in pressure.~~

**406.6.2.1 For medium pressure gas systems:** Where the appliance is rated for seven (7) to fourteen (14) inches of water column, a manometer test of eleven (11) to fifteen (15) inches of water column will be conducted between the pressure regulating valve and the appliance and the appliance shall be measured for at least fifteen (15) minutes with no perceptible drop in pressure.

**406.2.2 For appliances or equipment requiring pounds of gas pressure:** A pressure test using a pressure gauge measuring in one tenth (1/10) increments shall be conducted on the gas train of that appliance or equipment. The pressure shall be equal to the appliance's normal operating pressure for a period of thirty (30) minutes with no perceptible drop in pressure.

**406.2.3 Manometer testing.** Manometer testing shall be performed by a person holding a valid Washoe County manometer tester card for which the number is to be provided at the time of request for inspection. A visual manometer test to be witnessed by the authority having jurisdiction may be allowed by the Building Official. A manometer test does not need to be reported when the serving gas utility performs a manometer or clock test prior to providing service.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Adding as previously adopted in the 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No added cost.

**Shall only apply to the City of Sparks, City of Reno, and Washoe County.**



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**

**Jurisdiction Votes:** **Y**    **N**

**Committee:** **IMC**

**Industry Votes:** **Y**    **N**

**Code Section:** **505.4**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Amend Section 505.4 to read as follows:*

**505.4 Makeup air required.** Exhaust hood systems capable of exhausting in excess of ~~400~~ 600 cfm (~~0.19~~ 0.28 m<sup>3</sup>/s) shall be provided with *makeup air* at a rate approximately equal to the *exhaust air* rate. Such *makeup air* systems shall be equipped with a means of closure and shall be automatically controlled to start and operate simultaneously with the exhaust system

### Supporting statement

Indicate if this amendment is:

Omission

Local environment condition

Compatibility

Area standard practice

As previously adopted in the 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

As adopted in the 2018 Northern Nevada Amendments.

### Cost analysis



State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease to building costs.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**

**Jurisdiction Votes:** **Y** N

**Committee:** IMC

**Industry Votes:** **Y** N

**Code Section:** 508.1.4

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Add new subsection 508.1.4 to 508.1:*

**508.1.4 Evaporative Cooling Systems Used as Makeup Air.**  
Evaporative coolers shall not be used for make-up air units  
on commercial kitchen hoods and kitchen ventilation systems.

**Exception:** Evaporative cooling systems that are a  
listed assembly with tempered air for kitchen make-up air  
systems.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

As adopted by the 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

As adopted in the 2018 Northern Nevada Amendments.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in building costs.





## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**

**Jurisdiction Votes:** **Y**    **N**

**Committee:** **IMC**

**Industry Votes:** **Y**    **N**

**Code Section:** **603.2**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Amend Section 603.2 to read as follows:*

**603.2 Duct sizing.** Ducts installed within a single *dwelling unit* shall be sized in accordance with ACCA Manual D based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculations methodologies, the appliance manufacturers installation instructions, or other *approved* methods. Ducts installed within all other buildings shall be sized in accordance with the ASHRAE *Handbook of Fundamentals* or other equivalent computation procedure.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Adding as previously adopted in the 2018 Northern Nevada Amendment.

### Documentation

Provide statistics, studies or supporting documents.

As adopted in the 2018 Northern Nevada Amendments.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease to building costs.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** N

**Committee:** **UPC** **Industry Votes:** **Y** N

**Code Section: Chapter 14**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Chapter 14 Firestop Protection**

*Delete Chapter 14 as follows:*

~~**Chapter 14 Firestop Protection**~~

Refer to 2024 International Building Code

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Forwarded from 2018 Amendments.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 Amendments

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:**     **UPC**                      **Industry Votes:** **Y**    **N**

**Code Section: 216.0**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 216.0 Definition Non-Combustible Material**

*Amend Section 216.0 to add as follows:*

**Section 216.0 Definitions. Non-Combustible Material:**  
Materials that, when tested in accordance with  
ASTM E136, have at least three of four specimens tested  
meeting all of the following criteria:

1. The recorded temperature of the surface and interior thermocouples shall not at any time during the test rise more than 54°F (30°C) above the furnace temperature at the beginning of the test.
2. There shall not be flaming from the specimen after the first 30 seconds.
3. If the weight loss of the specimen during testing exceeds 50 percent, the recorded temperature of the surface and interior thermocouples shall not at any time during the test rise above the furnace air temperature at the beginning of the test, and there shall not be flaming of the specimen.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Forwarded from 2018 Amendments.

**Documentation**

Provide statistics, studies or supporting documents.

See 2018 Amendments

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No Change





## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** N

**Committee:** UPC **Industry Votes:** **Y** N

**Code Section:** 218.0

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 218.0 Definition Penetration Firestop System**

*Delete Section 218.0 as follows:*

~~218.0 Definitions. Penetration Firestop System. A specific assemblage of field-assembled materials, or a factory-made device, which has been tested to a standard test method and, where installed properly on penetrating piping materials, is capable of maintaining the fire-resistance rating of assemblies penetrated.~~

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Forwarded from 2018 Amendments.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 Amendments

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** N

**Committee:** **UPC** **Industry Votes:** **Y** N

**Code Section:** **222.0**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 222.0 Definitions "T" Rating

*Delete Section 222.0 as follows:*

~~**222.0 Definitions.** T Rating. The time period that the penetration firestop system, including the penetrating item, limits the maximum temperature rise of 325° (181°C) above its initial temperature through the penetration on the non-fire side, where tested in accordance with ASTM E 814 or UL 1479.~~

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 X Compatibility                 Area standard practice

Forwarded from 2018 Amendments.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 Amendments

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:**  Y  N

**Committee:** **UPC** **Industry Votes:**  Y  N

**Code Section:** **312.7**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 312.7 Fire-Resistant Construction**

*Amend Section 312.7 to read as follows:*

**312.7 Fire-Resistant Construction.** Piping penetrations of fire-resistance-rated walls, partitions, floors, floor/ceiling assemblies, roof/ceiling assemblies, or shaft enclosures shall be protected in accordance with the requirements of the building code. ~~and Chapter 14, "Firestop Protection."~~

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                   Area standard practice

Continued from 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

Continued from 2018 Northern Nevada Amendments.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** Y N

**Committee:** UPC **Industry Votes:** Y N

**Code Section:** 422.0

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 422.0 Minimum Number of Required Fixtures**

*Delete Section 422.0 to read:*

~~Section 422.0 Minimum Number of Required Fixtures.~~

Shall comply with 2024 International Building Code Chapter 29.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Forwarded from 2018 Amendments

### Documentation

Provide statistics, studies or supporting documents.

See 2018 Amendments

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**

**Committee:** **UPC** **Industry Votes:** **Y** **N**

**Code Section: 609.1**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 609.1 Installation

*Amend Section 609.1 to read as follows:*

**609.1 Installation.** Water piping shall be adequately supported in accordance with Table 313.3. Burred ends shall be reamed to the full bore of the pipe or tube. Changes in direction shall be made by the appropriate use of fittings, except that changes in direction in copper or copper alloy tubing shall be permitted to be made with bends, provided that such bends are made with bending equipment that does not deform or create a loss in the cross-sectional area of the tubing. Changes in direction are allowed with flexible pipe and tubing without fittings in accordance with the manufacturer's instructions. Provisions shall be made for expansion in hot-water piping. Piping, equipment, appurtenances, and devices shall be installed in a workmanlike manner in accordance with the provisions and intent of the code. Building supply yard piping shall be not less than 12 6 inches (~~305~~ 152mm) below the average local frost depth. The cover shall be not less than 12 inches (305 mm) below finish grade.

### Supporting statement

Indicate if this amendment is:

Omission

Local environment condition



\_X\_ Compatibility      \_Area standard practice

Forwarded from 2018 Amendments

### **Documentation**

Provide statistics, studies or supporting documents.

See 2018 Amendments

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:**  Y  N

**Committee:** **UPC** **Industry Votes:**  Y  N

**Code Section: 712.1**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 712.1 Media

*Amend Section 712.1 to read as follows:*

**712.1 Media.** The piping of the plumbing, drainage and venting systems shall be tested with water or air. ~~except that plastic piping shall not be tested with air.~~ The Authority Having Jurisdiction shall be permitted to require the removal of cleanouts, etc., to ascertain whether the pressure has reached all parts of the system. After the plumbing fixtures have been set and their traps filled with water, they shall be submitted to a final test.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Forwarded from 2018 Amendments

### Documentation

Provide statistics, studies or supporting documents.

See 2018 Amendments

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** N

**Committee:** **UPC** **Industry Votes:** **Y** N

**Code Section:** **717.1**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 717.1 General (Size of Building Sewers)**

*Amend Section 717.1 to read as follows:*

**717.1 General.** The minimum size of a building sewer shall be determined on the basis of the total number of fixture units drained by such sewer, in accordance with Table 717.1. No building sewer shall be smaller than the building drain or less than four (4) inches in diameter.

For alternate methods of sizing building sewers, see Appendix C.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Forwarded from 2018 Amendments

### Documentation

Provide statistics, studies or supporting documents.

See 2018 Amendments

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** Y N

**Committee:** UPC **Industry Votes:** Y N

**Code Section:** 723.1

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 723.1 General (Building Sewer Test)

*Amend Section 723.1 to read as follows:*

**723.1 General.** Building sewers shall be tested by plugging the end of the building sewer at its points of connection to the public sewer or private sewage disposal system and completely filling the building sewer with water from the lowest to highest point thereof, or by approved equivalent low-pressure air test. ~~Plastic DWV piping systems shall not be tested by the air test method.~~ The building sewer shall be watertight.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Forwarded from 2018 Amendments

### Documentation

Provide statistics, studies or supporting documents.

See 2018 Amendments

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:**  Y  N

**Committee:** UPC **Industry Votes:**  Y  N

**Code Section:** 1107.2

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 1107.2 Methods of Testing Storm Drainage Systems**

*Amend Section 1107.2 to read as follows:*

**1107.2 Methods of Testing Storm Drainage Systems.** Except for outside leaders and perforated or open-jointed drain tile, the piping of storm drain systems shall be tested upon completion of the rough piping installation by water or air, ~~except that plastic pipe shall not be tested with air,~~ and proved tight. The Authority Having Jurisdiction shall be permitted to require the removal of cleanout plugs to ascertain whether the pressure has reached parts of the system. One of the following test methods shall be used in accordance with Section 1107.2.1 through Section 1107.2.3.

### Supporting statement

Indicate if this amendment is:

Omission  Local environment condition  
 Compatibility  Area standard practice

Forwarded from 2018 Amendments

### Documentation

Provide statistics, studies or supporting documents.



See 2018 Amendments

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**

**Committee:** **UPC** **Industry Votes:** **Y** **N**

**Code Section:** **1201.1**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 1201.1** Applicability

*Amend Section 1201.1 to read as follows:*

**1201.1 Applicability.** The regulations of this chapter shall govern the installation of fuel gas piping in or in connection with a building, structure or within the property lines of premises up to 5 pounds-force per square inch (psi) (34 kPa) for natural gas and 10 psi (69 kPa) for undiluted propane, other than service pipe. Fuel oil piping systems shall be installed in accordance with NFPA 31. Whenever there is a conflict between this code and NFPA 54 and NFPA 58 as adopted by the Nevada LP-Gas Board for LP-Gas installations, the adopted codes of the Nevada LP-Gas Board shall govern.

### Supporting statement

Indicate if this amendment is:

- |   |  |
|---|--|
| <input type="checkbox"/> Omission                 | <input type="checkbox"/> Local environment condition |
| <input checked="" type="checkbox"/> Compatibility | <input type="checkbox"/> Area standard practice      |

Forwarded from 2018 Amendments and changed installation to applicability.

**Documentation**

Provide statistics, studies or supporting documents.

See 2018 Amendments

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** N

**Committee:** **UPC** **Industry Votes:** **Y** N

**Code Section:** **1208.6.1.3**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 1208.6.1.3 Snow Hazard**

*Add Section 1208.6.1.3 to 1208.6 to read as follows:*

**1208.6.1.3 Snow Hazard:** Protection of utilities shall be per requirements of local utility.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Forwarded from 2018 Amendments.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 Amendments

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**

**Committee:** **UPC** **Industry Votes:** **Y** **N**

**Code Section: 1213.3**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 1213.3 Test Pressure

*Amend Section 1213.3 to read as follows:*

**1213.3 Test Pressure.** This inspection shall include an air, CO<sub>2</sub>, or nitrogen pressure test, at which time the gas piping shall stand a pressure of not less than ~~±0~~ 25 psi (~~69~~ 172.4 kPa) gauge pressure. Test pressures shall be held for a length of time satisfactory to the Authority Having Jurisdiction, but in no case less than ~~±5~~ 30 minutes with no perceptible drop in pressure. For welded piping, and for piping carrying gas at pressures in excess of 14 inches water column pressure (3.5 kPa), the test pressure shall be not less than 60 psi (414 kPa) and shall be continued for a length of time satisfactory to the Authority Having Jurisdiction, but in no case for less than 30 minutes. For CSST carrying gas at pressures in excess of 14 inches water column (3.5 kPa) pressure, the test pressure shall be not less than 30 psi (207 kPa) for 30 minutes. These tests shall be made using air, CO<sub>2</sub>, or nitrogen pressure and shall be made in the presence of the Authority Having Jurisdiction. Necessary apparatus for conducting tests shall be furnished by the permit holder. Test gauges used in conducting tests shall be in accordance with Section 318.0.

### Supporting statement

Indicate if this amendment is:

Omission

Local environment condition

Compatibility

Area standard practice

Forwarded from 2018 Amendments.

### **Documentation**

Provide statistics, studies or supporting documents.

See 2018 Amendments

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** N

**Committee:** IMC,IFGC,UPC,UMC **Industry Votes:** **Y** N

**Code Section: 24 UPC Section 1213.5.1**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 1213.5.1 Turning Gas On

*Amend Section 1213.5.1 to read as follows:*

**1213.5.1 Turning Gas On.** During the process of turning gas on into a system of new gas piping or into a system or portion of a gas system that has been restored after an interruption of service, the entire system shall be inspected to determine that there are no open fittings or ends and that the valves at unused outlets are closed and plugged or capped. [NFPA 54:8.2.2]

**1213.5.1.1** During the process of turning gas on into a system of new gas piping or into a system or portion of a gas system that has been restored after an interruption of service; in the City of Reno, City of Sparks, Storey County and Washoe County a manometer test shall be made after all valves, unions, connectors and piping to the appliances are complete. A pressure test shall be made with the use of a manometer gauge measuring inches of water column. With all valves including gas cock and gas control valves in the open position, a pressure of at least eleven (11) to fifteen (15) inches of water column shall be measured for at least fifteen (15) minutes, with no perceptible drop in pressure.

**1213.5.1.2 For medium pressure gas systems:** Where the appliance is rated for seven (7) to **fourteen (14)** inches of water column, a manometer test of eleven (11) to fifteen (15) inches of water column will be conducted between the



pressure regulating valve and the appliance and shall be measured for at least fifteen (15) minutes with no perceptible drop in pressure.

**1213.5.1.3 For appliances or equipment requiring pounds of gas pressure:** A pressure test using a pressure gauge measuring in one tenth (1/10) increments shall be conducted on the gas train of that appliance or equipment. The pressure shall be equal to the appliance's normal operating pressure for a period of thirty (30) minutes with no perceptible drop in pressure.

**1213.5.1.4 Manometer testing.** Manometer testing shall be performed by a person holding a valid Washoe County manometer tester card in the City of Reno, City of Sparks, Storey County and Washoe County for which the number is to be provided at the time of request for inspection. A visual manometer test to be witnessed by the authority having jurisdiction may be allowed by the Building Official. A manometer test does not need to be reported when the serving gas utility performs a manometer or clock test prior to providing service.

## Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                       Area standard practice

Forwarded from 2018 Amendments with the exception of Fernley not requiring a manometer test per 1213.5.1.1 and clarifying which jurisdiction does require a manometer license in section 1213.5.1.4.

## Documentation

Provide statistics, studies or supporting documents.

See 2018 Amendments

## Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None

Removed City of Fernley from 1213.5.1.1.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** N

**Committee:** UMC **Industry Votes:** **Y** N

**Code Section: 304.3**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### **Section 304.3 Access to Appliances on Roofs**

*Amend Section 304.3 to read as follows:*

**Section 304.3 Access to Appliances on Roofs.** Appliances located on roofs or other elevated locations above 30 inches shall be accessible. [NFPA 54:9.4.3.1]

**304.3.1 Access from the Inside.** Buildings of more than 15 feet (4572 mm) in height shall have an inside means of access to the roof unless other means acceptable to the Authority Having Jurisdiction are used [NFPA 54:9.4.3.2]

**304.3.1.1 Access Type.** The inside means of access shall be a permanent or foldaway inside stairway or ladder, terminating in an enclosure, scuttle, or trapdoor. Such scuttles or trap doors shall be at least 22 inches by 24 inches (559 mm by 610 mm) in size, shall open easily and safely under all conditions, especially snow, and shall be constructed so as to permit access from the roof side unless deliberately locked on the inside.

At least ~~6~~ 10 feet (~~1829~~ 3048 mm) of clearance shall be available between the access opening and the edge of the roof or similar hazard, or rigidly fixed rails or guards a minimum of 42 inches (1067 mm) in height shall be provided on the exposed side. Where parapets or other building structures are utilized in lieu of guards or rails, they shall be a minimum of 42 inches (1067 mm) in height. [NFPA 54:9.4.3.3]

**Supporting statement**

Indicate if this amendment is:

- Omission                       Local environment condition
- Compatibility                 Area standard practice

Adding as previously adopted by the 2018 Northern Nevada Amendments.

**Documentation**

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in building costs.

**Changes made .**



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**

**Committee:** **UMC** **Industry Votes:** **Y** **N**

**Code Section:** **403.7.2**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 403.7.2 Enclosed Parking Garages

*Amend Section 403.7.2 to read as follows:*

**403.7.2 Enclosed Parking Garages.** Mechanical ventilation systems for enclosed parking garages shall operate continuously.

**Exceptions:**

(1) Mechanical ventilation systems for enclosed parking garages shall be permitted to operate intermittently where the system is designed to operate automatically upon detection of vehicle operation or presence of occupants by approved automatic detection devices.

(2) Approved automatic carbon monoxide sensing devices, and nitrogen dioxide detectors shall be permitted to modulate the ventilation system to not exceed a maximum average of 50 parts per million of carbon monoxide, or 1 part per million of nitrogen dioxide during an eight-hour period with a concentration of not more than 200 parts per million for carbon monoxide, or 5 parts per million nitrogen dioxide, for a period not exceeding 15 minutes. Automatic carbon monoxide sensing devices installed in modulated parking garage ventilation systems shall be approved in accordance with Section 301.2.

### Supporting statement

Indicate if this amendment is:

Omission

Local environment condition

Compatibility

Area standard practice

Adding as previously adopted by the 2018 Northern Nevada Amendments.

### **Documentation**

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in building costs.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** N

**Committee:** **UMC** **Industry Votes:** **Y** N

**Code Section: 504.4.2.1**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 504.4.2.1 Length Limitation

*Amend Section 504.4.2.1 to read as follows:*

**504.4.2.1 Length Limitation.** Unless otherwise permitted or required by the dryer manufacturer's instructions and approved by the Authority Having Jurisdiction, domestic dryer moisture exhaust ducts shall not exceed a total combined horizontal and vertical length of 14 feet (4267 mm), including two 90 degree (1.57 rad) elbows. A length of 2 feet (610 mm) shall be deducted for each 90- degree (1.57 rad) elbow in excess of two.

#### **Exceptions:**

~~Where an exhaust duct power ventilator, in accordance with Section 504.4.2.3, is used, the maximum length of the dryer exhaust duct shall be permitted to be in accordance with the dryer exhaust duct power ventilator manufacturer's installation instructions.~~

1. Where the make and model of the clothes dryer to be installed is known and the manufacture's installation instructions for the clothes dryer are provided to the Authority Having Jurisdiction, the maximum length of the exhaust duct, including any transition duct, shall be permitted to be in accordance with the dryer manufacture's installation instructions.
2. Where large-radius 45-degree (0.8 rad) and 90-degree (1.6 rad) bends are installed, determination of the equivalent length of clothes dryer exhaust duct for each bend by engineering calculation in accordance with ASHRAE Fundamentals Handbook shall be permitted.
3. Dryer exhaust duct lengths may be increased when justified by calculations prepared and stamped by a Nevada Licensed Mechanical engineer.

## Supporting statement

Indicate if this amendment is:

Omission

Local environment condition

Compatibility

Area standard practice

Adding as previously adopted by the 2018 Northern Nevada Amendments.

## Documentation

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

## Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in building costs.





## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** N  
**Committee:** UMC **Industry Votes:** **Y** N

**Code Section: 505.10**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 505.10 Makeup Air

*Amend Section 505.10 to read as follows:*

**505.10 Makeup Air.** Makeup air shall be provided to replenish air exhausted by the ventilation system. Exhaust hood systems capable of exhausting in excess of 600 cfm (0.28 m<sup>3</sup>/s) shall be provided with makeup air at a rate approximately equal to the exhaust air rate. Such makeup air systems shall be equipped with a means of closure and shall be automatically controlled to start and operate simultaneously with the exhaust system. Makeup air intakes shall be located so as to avoid recirculation of contaminated air within enclosures.

### Supporting statement

Indicate if this amendment is:

Omission  Local environment condition  
 Compatibility  Area standard practice

Adding as previously adopted by the 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

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**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in building costs.
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**  
**Committee:** **UMC** **Industry Votes:** **Y** **N**

**Code Section: 508.3.5.4**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 508.3.5.4 Evaporative Cooling Systems Used as Make Up Air Systems

*Add Section 508.3.5.4 to read as follows:*

**508.3.5.4.1 Evaporative Cooling Systems.** Evaporative cooling systems will comply with this chapter. Evaporative coolers shall not be used for makeup air units on commercial kitchen hoods and kitchen ventilation systems.

**Exception:** Evaporative cooling systems that are part of a listed heating air system for kitchen make up air systems. The temperature differential between the makeup air and the air in the conditioned space shall not exceed 10<sup>0</sup>F (6<sup>0</sup>C) except where the added heating and cooling load of makeup air do not exceed the capacity if the HVAC system.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Adding as previously adopted by the 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in building costs.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** **UMC**                      **Industry Votes:** **Y**    **N**

**Code Section: 511.2.2.2**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 511.2.2.2 Capture and Containment Test

*Amend Section 511.2.2.2 to read as follows:*

**Section 511.2.2.2 Capture and Containment Test.** The permit holder shall verify the capture and containment performance of Type I hoods. A field test shall be conducted with all appliances under the hood at operating temperatures, all the hoods operating at design airflows, and with all sources of replacement air operating at design airflows for the restaurant. Capture and containment shall be verified visually by observing smoke or steam produced by actual cooking operation or by simulating cooking using devices such as smoke candles or smoke puffers. Smoke bombs shall not be used [ASHRAE 154:4.7.2]

**Exception:** Capture and containment test not required if hood is UL and NFPA listed and manufacturers data lists the individual equipment below hood.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Adding as previously adopted by the 2018 Northern Nevada Amendments.

**Documentation**

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in building costs.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** **UMC** **Industry Votes:** **Y**    **N**

**Code Section:** **605.1** **Pending IECC Publication**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike out~~ portions amended or deleted. Underline added text.

#### Section 605.1 General

*Amend Section 605.1 to read as follows:*

**605.1 General.** ~~Air ducts conveying air at temperatures exceeding 140°F (60°C) shall be insulated to maintain an insulation surface temperature of not more than 140°F (60°C).~~ Insulation material on the exterior of ducts shall be legibly printed with the name of the manufacturer, the thermal resistance (R) value at installed thickness, flame-spread index, and smoke developed index of the composite material. Internal duct liners and insulation shall be installed in accordance with SMACNA HVAC Duct Construction Standards – Metal and Flexible. Supply air ducts, return air ducts, and plenum of a heating or cooling system shall be insulated to achieve the minimum thermal (R) value in accordance with the 2018 International Energy Conservation Code Section 403.2.1 for residential and 503.2.7 for commercial.

#### **Exceptions:**

- ~~1. Factory installed plenums, casings, or ductwork furnished as a part of HVAC equipment tested and rated in accordance with approved energy efficiency standards.~~
- ~~2. Ducts or plenums located in conditioned spaces where heat gain or heat loss will not increase energy use.~~
- ~~3. For runouts less than 10 feet (3048 mm) in length to air terminals or air outlets, the rated R value of insulation need not exceed R-3.5 (R-0.6).~~
- ~~4. Backs of air outlets and outlet plenums exposed to unconditioned or indirectly conditioned spaces with face areas exceeding 5 square feet (0.5 m<sup>2</sup>) need not exceed R-2; those 5 square feet (0.5 m<sup>2</sup>) or smaller need not be insulated.~~
- ~~5. Ducts and plenums used exclusively for evaporative cooling systems.~~

### Supporting statement

Indicate if this amendment is:

- Omission                       Local environment condition  
 Compatibility                 Area standard practice

Adding as previously adopted by the 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in building costs.

Check 2024 IECC and Code Sections.





## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** **UMC** **Industry Votes:** **Y**    **N**

**Code Section: 609.1 (608.1)**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 609.1 Air-Moving Systems and Smoke Detectors

*Amend Section 609.1 to read as follows:*

**609.1 Air-Moving Systems and Smoke Detectors.** Air-moving systems supplying air in excess of 2000 cubic feet per minute (ft<sup>3</sup> /min) (0.9439 m<sup>3</sup> /s) to enclosed spaces within buildings shall be equipped with an automatic shutoff. Automatic shutoff shall be accomplished by interrupting the power source of the air-moving equipment upon detection of smoke in the main ~~supply~~ return-air duct or plenum upstream of any filters, exhaust air connections, outdoor air connections, or decontamination equipment and appliance air duct served by such equipment. Duct smoke detectors shall comply with UL 268A and shall be installed in accordance with NFPA 72 and the manufacturer's installation instructions. Such devices shall be compatible with the operating velocities, pressures, temperatures, and humidities of the system. Where fire-detection or alarm systems are provided for the building, the smoke detectors shall be supervised by such systems in an approved manner.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Adding as previously adopted by the 2018 Northern Nevada Amendments.

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**Documentation**

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.
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**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in building costs.
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** **UMC** **Industry Votes:** **Y**    **N**

**Code Section: 610.0 (609.0)**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 610.0 Performance Test for Automatic Shutoffs

*Add Section 610.0 to read as follows:*

**610.0 Performance Test for Automatic Shutoffs.** Upon completion and before final approval of the air-moving system, provide with the required smoke detectors, a performance test shall be performed to verify compliance of detector installation to manufacturer's instructions and system compatibility as specified in this chapter. The permittee shall furnish the necessary test equipment and devices required to perform the tests and shall provide the jurisdiction with an accurate, completed, and signed test report. The report shall provide the jurisdiction a form containing equivalent information. At the discretion of the Authority Having Jurisdiction, the performance test may be required to be witnessed by the Authority Having Jurisdiction or performed by an approved third-party testing agency.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Adding as previously adopted by the 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in building costs.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** **UMC** **Industry Votes:** **Y**    **N**

**Code Section: 939.0**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**Section 939.0 Sauna Heaters**

*Amend Section 939.1 to read as follows:*

**939.1 Electric Sauna Heaters.** Sauna heaters shall comply with UL 875 and shall be installed in accordance with the manufacturer's installation instructions. Approved guards or barriers shall be installed to prevent accidental contact with the sauna heater. Ventilation shall be provided in accordance with its listing and combustion air for gas-fired sauna heaters shall comply with chapter 7.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Adding as previously adopted by the 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in building costs.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** **UMC** **Industry Votes:** **Y**    **N**

**Code Section: 1301.1**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 1301.1 Applicability

*Amend Section 1301.1 to read as follows:*

**1301.1 Applicability.** The regulations of this chapter shall govern the installation of fuel gas piping in or in connection with a building, structure or within the property lines of premises up to 5 pounds-force per square inch (psi) (34 kPa) for natural gas-and 10 psi (69 kPa) for undiluted propane, other than service pipe.

Whenever there is a conflict between this code and NFPA 54 and NFPA 58 as adopted by the Nevada LP-Gas Board for LP-Gas installations, the adopted codes of the Nevada LP-Gas Board shall govern.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Adding as previously adopted by the 2018 Northern Nevada Amendments.

### Documentation

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in building costs.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**

**Committee:** **UMC** **Industry Votes:** **Y** **N**

**Code Section:** **1313.3**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike out~~ portions amended or deleted. Underline added text.

#### Section 1313.3 Test Pressure

*Amend Section 1313.3 to read as follows:*

**1313.3 Test Pressure.** This inspection shall include an air, CO<sub>2</sub>, or nitrogen pressure test, at which time the gas piping shall stand a pressure of not less than ~~40~~ 25 psi (~~69~~ 172.4 kPa) gauge pressure. Test pressures shall be held for a length of time satisfactory to the Authority Having Jurisdiction but in no case less than ~~15~~ 30 minutes with no perceptible drop in pressure. For welded piping, and for piping carrying gas at pressures in excess of 14 inches water column (3.5 kPa) pressure, the test pressure shall be not less than 60 psi (414 kPa) and shall be continued for a length of time satisfactory to the Authority Having Jurisdiction, but in no case for less than 30 minutes. ~~For CSST carrying gas at pressures in excess of 14 inches water column (3.5 kPa) pressure, the test pressure shall be 30 psi (207 kPa) for 30 minutes.~~ These tests shall be made using air, CO<sub>2</sub>, or nitrogen pressure and shall be made in the presence of the Authority Having Jurisdiction. Necessary apparatus for conducting tests shall be furnished by the permit holder. Test gauges used in conducting test shall be in accordance with Section 1303.3.3.1 through Section 1303.3.3.4.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Adding as previously adopted by the 2018 Northern Nevada Amendments.

**Documentation**

Provide statistics, studies or supporting documents.

As previously adopted by the 2018 Northern Nevada Amendments.

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No increase or decrease in building costs.
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** N

**Committee:** IMC,IFGC,UPC,UMC **Industry Votes:** **Y** N

**Code Section: 2024 UMC Section 1313.5.1**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### Section 1313.5.1 Turning Gas On

*Amend Section 1313.5.1 to read as follows:*

**1313.5.1 Turning Gas On.** During the process of turning gas on into a system of new gas piping or portion of a gas system that has been restored after an interruption of service, the entire system shall be inspected to determine that there are no open fittings or ends and that all valves at unused outlets are closed and plugged or capped. [NFPA 54:8.2.2]

**1313.5.1.1** During the process of turning gas on into a system of new gas piping or into a system or portion of a gas system that has been restored after an interruption of service; in the City of Reno, City of Sparks, Storey County and Washoe County a manometer test shall be made after all valves, unions, connectors and piping to the appliances are complete. A pressure test shall be made with the use of a manometer gauge measuring inches of water column. With all valves including gas cock and gas control valves in the open position, a pressure of at least eleven (11) to fifteen (15) inches of water column shall be measured for at least fifteen (15) minutes with no perceptible drop in pressure.

**1313.5.1.2 For medium pressure gas systems:** Where the appliance is rated for seven (7) to **fourteen (14)** inches of water column, a manometer test of eleven (11) to fifteen (15) inches of water column will be conducted between the pressure regulating valve and the appliance and shall be

measured for at least fifteen (15) minutes with no perceptible drop in pressure.

**1313.5.1.3 For appliances or equipment requiring pounds of gas pressure:** A pressure test using a pressure gauge measuring in one tenth (1/10) increments shall be conducted on the gas train of that appliance or equipment. The pressure shall be equal to the appliance's normal operating pressure for a period of thirty (30) minutes with no perceptible drop in pressure.

**1313.5.1.4 Manometer testing.** Manometer testing shall be performed by a person holding a valid Washoe County manometer tester card in the City of Reno, City of Sparks, Storey County and Washoe County for which the number is to be provided at the time of request for inspection. A visual manometer test to be witnessed by the authority having jurisdiction may be allowed by the Building Official. A manometer test does not need to be reported when the serving gas utility performs a manometer or clock test prior to providing service.

**Supporting statement**

Indicate if this amendment is:

- Omission
- Local environment condition
- Compatibility
- Area standard practice

Forwarded from 2018 Amendments

**Documentation**

Provide statistics, studies or supporting documents.

See 2018 Amendments

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None

Note - Also removed City of Fernley.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**

**Committee:** **NEC** **Industry Votes:** **Y** **N**

**Code Section:** **NEC 210.52(A)(2)**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Amend Article 210.52(A)(2) to read as follows:*

**(2) Wall Space** As used in this section, a wall space shall include the following:

(1) Any space 600 mm (2 ft) or more in width (including space measured around corners) and unbroken along the floor line by doorways and similar openings, fireplaces, stationary appliances, and fixed cabinets to that do not have countertops or similar work surfaces.

(2) The space occupied by fixed panels in walls, excluding sliding panels

(3) The space afforded by fixed room dividers, such as free-standing bar-type counters or railings.

Exceptions:

(1) The space behind operable doors.

(2) Vestibules, hallways, and similar areas less than 5ft wide in bedrooms.

### Supporting statement

Indicate if this amendment is:

Omission

Compatibility

Local environment condition

Area standard practice

This omits the unusable space behind an operable door as being included in receptacle spacing requirements for dwelling units. This amendment also omits the requirement for receptacles in areas less than 5ft in width from receptacle spacing requirements.

### **Documentation**

Provide statistics, studies or supporting documents.

See 2018 Amendments

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No anticipated cost implications.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** NEC **Industry Votes:** **Y**    **N**

**Code Section:** Article 225.31(B)

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

~~225.32~~ **225.31(B)** **Locations**

Amend Section 225.32 to read as follows:

~~225.32~~ **225.31(B)** **Location.** The disconnecting means shall be installed either inside or attached to the outside of the building or structure served or where the conductors pass through the building or structure. The disconnecting means shall be at a readily accessible location nearest the point of entrance of the conductors. For the purposes of this section, the requirements in 203.6 shall be utilized.

**Exceptions**

1. *For installations under single management, where documented safe switching procedures are established and maintained for disconnection, and where the installation is monitored by qualified individuals, the disconnecting means shall be permitted to be located elsewhere on the premises.*
2. *For buildings or other structures qualifying under the provisions of Article 685, the disconnecting means shall be permitted to be located elsewhere on the premises.*
3. *For towers or poles used as lighting standards, the disconnecting means shall be permitted to be located elsewhere on the premises.*
4. *For poles or similar structures used only for support of signs installed in accordance with Article 600, the disconnecting means shall be permitted to be located elsewhere on the premises.*
5. *The disconnecting means shall be located independent of the building or structure served, in direct line of sight, but not to exceed thirty feet (30').*
6. *The service disconnecting means may be installed within a building when an external remote shunt trip switch is provided. All shunt trip switches shall be located at seven feet (7') above finish grade at a location approved by the fire department. All shunt trip switches shall be located within a twelve inch (12") equilateral triangle, red in color.*

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                       Area standard practice

This code section moved.

### **Documentation**

Provide statistics, studies or supporting documents.

See 2018 amendments

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No impact.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**

**Jurisdiction Votes:** **Y**

**Committee:** NEC

**Industry Votes:** **Y**

**Code Section:** Article 230.70 (A)(1)

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

230.70 (A)(1) Readily Accessible Location. The service disconnecting means shall be installed at a readily accessible location either outside of a building or structure or inside nearest the point of entrance of the service conductors. The disconnecting means may be located independent of the building or structure served, in direct line of sight, but not to exceed thirty feet (30').

Exception: The service disconnecting means may be installed within a building when an external remote shunt switch is provided. All shunt trip switches shall be located at seven feet (7') above finish grade at a location approved by the fire department. All shunt trip switches shall be located within a twelve inch (12") equilateral triangle, red in color.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Pushed forward from previous code cycle

### Documentation

Provide statistics, studies or supporting documents.

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**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

Minimal increase
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:**            NEC                            **Industry Votes:** **Y**    **N**

**Code Section:**        Article 240.51(B)

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### **240.51(B) Replacement Only**

Amend Section 240.51(B) of Section 240.51 **Edison-Base Fuses** to read:

**240.51(B) Replacement Only.** Plug fuses of the Edison-base type shall be used only for replacements in existing installations where there is no evidence of overfusing or tampering. In any existing building where alterations or additions are made to ~~any~~ any of the premises wiring, all fuse holders shall comply with Article 240.54.

### Supporting statement

Indicate if this amendment is:

Omission                                     Local environment condition  
 Compatibility                                 Area standard practice

Typographical error

### Documentation

Provide statistics, studies or supporting documents.

See 2018 amendments

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No cost change



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**

**Committee:** NEC **Industry Votes:** **Y**

**Code Section:** Article 250.118(4)

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### **250.118(4) Types of Equipment Grounding Conductors**

Amend Section 250.118(4) of Section 250.118 Types of Equipment Grounding Conductors to read as follows:

250.118 Types of Equipment Grounding Conductors

(4) Electrical metallic tubing with the exception of where the metallic raceway is subject to either damage or likely to be disturbed in the future under normal operating conditions, this determination shall be made by the Authority Having Jurisdiction.

FPN: An example of "subject to damage" is a surface installed conduit running along a traffic path. An example of "likely to be disturbed" is a surface installed conduit running across a rooftop, where future re-roofing operations will require the conduit to shifted, damaged, removed or relocated.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Pushed forward from previous code cycle

### Documentation

Provide statistics, studies or supporting documents.

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**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

Minimal increase
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:**        NEC                    **Industry Votes:** **Y**    **N**

**Code Section:**     Article 250.120

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

250.120 Equipment Grounding Conductor Installation. An equipment grounding conductor shall be installed in accordance with 250.120(A), (B), ~~and (C)~~ and (D) (D) All raceways installed on roofs shall contain an equipment grounding conductor sized per Table 250.122 installed with the circuit conductors.  
Exception: Low voltage, communication and similar type systems unless required elsewhere in the Code.

### Supporting statement

Indicate if this amendment is:

Omission                     Local environment condition  
 Compatibility                 Area standard practice

The committee is no longer "striking" the verbiage previously stricken, therefore the addition of (D) is now included as previously amended.

### Documentation

Provide statistics, studies or supporting documents.

See 2018 Code Amendments

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

Minimal increase.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**

**Committee:** NEC **Industry Votes:** **Y**

**Code Section:** Article 314.17(C)

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**~~314.17(C) Nonmetallic Boxes and Conduit Bodies~~**

Amend Section 314.17(C) of Section **~~314.17 Conductors entering Boxes, Conduit Bodies, or Fittings~~** to read as follows:

**~~314.17(C) Nonmetallic Boxes and Conduit Bodies~~**. Nonmetallic boxes and conduit bodies shall be suitable for the lowest temperature-rated conductor entering the box. Where nonmetallic boxes and conduit bodies are used with messenger-supported wiring, open wiring on insulators, or concealed knob-and-tube wiring, the conductors shall enter the box through individual holes. Where flexible tubing is used to enclose the conductors, the tubing shall extend from the last insulating support to not less than 6 mm (1/4 in.) inside the box and beyond any cable clamp. Where non-metallic sheathed cable or multiconductor Type UF cable is used, the sheath shall extend not less than 6 mm (1/4 in.) inside the box and beyond any cable clamp. In all instances, all permitted wiring methods shall be secured to the boxes.

— Exception: where non-metallic sheathed cable or multiconductor Type UF cable is used with single gang boxes not larger than a nominal size 57 mm x 100 mm (2 1/4 in. x 4 in.) mounted in walls or ceilings, and where the cable is fastened within 200 mm (8 in.) of the box measured along the sheath and where the sheath extends through a cable knockout not less than 6 mm (1/4 in.), securing the cable to the box shall not be required. Multiple cable entries shall be permitted in a single cable knockout opening.

### Supporting statement

Indicate if this amendment is:

Omission  Local environment condition  
 Compatibility  Area standard practice

Art.314.17(C) has been moved to Art. 314.17(B)(1) and the exception is now removed.

**Documentation**

Provide statistics, studies or supporting documents.

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No cost change.





## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**  
**Committee:** **NEC** **Industry Votes:** **Y** **N**

**Code Section: NEC 358.12**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Amend Section 358.12 to read as follows:*

**358.12 Uses Not Permitted.** EMT shall not be used under the following conditions:

1. Where subject to severe physical damage
2. For the support of luminaires or other equipment except conduit bodies no larger than the largest trade size of the tubing
3. In direct contact with earth or direct burial applications

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                       Area standard practice

EMT is typically made of steel, and prolonged contact with the earth can lead to corrosion over time. Corrosion may compromise the integrity of the conduit, potentially leading to electrical hazards.

The NEC includes requirements for grounding and bonding to ensure electrical systems are properly connected to the earth for safety. Allowing EMT in direct contact with the earth may pose challenges in maintaining proper grounding and bonding.

Alternative materials that may have better corrosion resistance when in contact with the earth, such as PVC conduit, should be used.

### **Documentation**

Provide statistics, studies or supporting documents.

See 2018 Amendments

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

PVC conduit is often considered more cost-effective than EMT for underground applications. PVC is a non-metallic material that is resistant to corrosion, lightweight, and generally less expensive than steel.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**

**Committee:** NEC **Industry Votes:** **Y**

**Code Section:** NEC 700.10(D)(1)

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Amend Section 700.10(D)(1) to read as follows:*

#### **700.10(D) Fire Protection**

**(1) Occupancies.** Emergency systems shall meet the additional requirements in 700.10(D)(2) through (D)(4) in the following occupancies:

- (1) Assembly occupancies for not less than 1000 persons
- (2) Buildings above ~~23m (75 ft)~~ 55ft in height
- (3) Educational occupancies with more than 300 occupants

### Supporting statement

Indicate if this amendment is:

Omission
   
  Local environment condition  
 Compatibility
   
  Area standard practice

This modification aligns with previously adopted standards set by local fire authorities for requirements based on building height.

### Documentation

Provide statistics, studies or supporting documents.

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**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No new or unexpected cost implications from previously adopted standards and area standard practice.
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## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**

**Committee:** **NEC** **Industry Votes:** **Y**

**Code Section:** **NEC 700.12**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Amend Section 700.12(B) to read as follows:*

**700.12(B) Equipment Design and Location.** Equipment shall be designed and located as to minimize the hazards that might cause complete failure due to flooding, fires, icing, and vandalism.

Equipment for sources of power as described in 700.12(C) through (H) shall be installed either in spaces fully protected by approved automatic fire protection systems or in spaces with a 2-hour fire rating where located within the following:

- (1) Assembly occupancies for more than 1000 persons
- (2) Buildings above ~~23 m (75 ft)~~ 55 ft in height
- (3) Educational occupancies with more than 300 occupants

### Supporting statement

Indicate if this amendment is:

Omission
  Local environment condition  
 Compatibility
  Area standard practice

This modification aligns with previously adopted standards set by local fire authorities for requirements based on building height.

**Documentation**

Provide statistics, studies or supporting documents.

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No new or unexpected cost implications from previously adopted standards and area standard practice.

## **2024 New Amendment Packet - 5/1/24 Meeting**



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**  
**Committee:** **IBC** **Industry Votes:** **Y** **N**

**Code Section: Section 2902.1**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

Updated Table 2902.1. Removed section referencing section 410 in IPC.  
See Attached

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

The State of Nevada has adopted the Uniform Plumbing Code and not the International Plumbing Code. We have revised some aspects in the table to match the Uniform Plumbing Code.

### Documentation

Provide statistics, studies or supporting documents.

See Uniform Plumbing Code

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None



**TABLE 2902.1 [P] TABLE 2902.1—MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES\***  
(See Sections 2902.1.1 and 2902.2)

NO.	CLASSIFICATION	DESCRIPTION	WATER CLOSETS (URINALS: SEE SECTION 424.2)		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAIN (SEE SECTION 424.2)	OTHER
			MALE	FEMALE	MALE	FEMALE			
1	Assembly	Theaters and other buildings for the performing arts and motion pictures <sup>d</sup>	1 per 125	1 per 65	1 per 200	—	1 per 500	1 service sink	
		Nightclubs, bars, taverns, dance halls and buildings for similar purposes <sup>e</sup>	1 per 40	1 per 40	1 per 75	—	1 per 500	1 service sink	
		Restaurants, banquet halls and food courts <sup>d</sup>	1 per 75	1 per 75	1 per 200	—	1 per 500	1 service sink	
		Casino gaming areas	1 per 100 for the first 400 and 1 per 250 for the remainder exceeding 400	1 per 50 for the first 400 and 1 per 150 for the remainder exceeding 400	1 per 250 for the first 750 and 1 per 500 for the remainder exceeding 750	—	1 per 1,000	1 service sink	
		Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums <sup>d</sup>	1 per 125	1 per 65	1 per 200	—	1 per 500	1 service sink	
		Passenger terminals and transportation facilities <sup>d</sup>	1 per 500	1 per 500	1 per 750	—	1 per 1,000	1 service sink	
		Places of worship and other religious services <sup>d</sup>	1 per 150	1 per 75	1 per 200	—	1 per 1,000	1 service sink	
		Coliseums, arenas, skating rinks, pools and tennis courts for indoor sporting events and activities <sup>f</sup>	1 per 75 for the first 1,500 and 1 per 120 for the remainder exceeding 1,500	1 per 40 for the first 1,520 and 1 per 60 for the remainder exceeding 1,520	1 per 200 1 per 150	—	1 per 1,000	1 service sink	
		Stadiums, amusement parks, bleachers and grandstands for outdoor sporting events and activities <sup>f</sup>	1 per 75 for the first 1,500 and 1 per 120 for the remainder exceeding 1,500	1 per 40 for the first 1,520 and 1 per 60 for the remainder exceeding 1,520	1 per 200 1 per 150	—	1 per 1,000	1 service sink	
		Buildings for the transaction of business, nonmedical professional services, other services involving merchandise, office buildings, banks, light industrial and similar uses	1 per 25 for the first 50 and the remainder exceeding 50	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80	—	1 per 100	1 service sink <sup>g</sup>	
2	Business	Ambulatory care facilities and outpatient clinics	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50	1 per 50	—	1 per 100	1 service sink per floor	
3	Educational	Educational facilities	1 per 50		1 per 50	—	1 per 100	1 service sink	

TABLE 2902.1 [P] TABLE 2902.1—MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES* (See Sections 2902.1.1 and 2902.2)—continued									
NO.	CLASSIFICATION	DESCRIPTION	WATER CLOSETS (URINALS: SEE SECTION 424.2)		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAIN (SEE SECTION 420)	OTHER
			MALE	FEMALE	MALE	FEMALE			
4	Factory and industrial	Structures in which occupants are engaged in work fabricating, assembly or processing of products or materials	1 per 100		1 per 100		—	1 per 400	1 service sink
5	Institutional	Alcohol and drug centers <sup>b</sup> Congregate care facilities <sup>b</sup> Group homes <sup>b</sup> Halfway houses <sup>b</sup> Social rehabilitation facilities <sup>b</sup> Foster care facilities <sup>b</sup>	1 per 10 care recipients		1 per 10 care recipients		1 per 8 care recipients	—	—
		Sleeping units for care recipients <sup>c</sup>	1 per 2 sleeping units		1 per 2 sleeping units		1 per 8 sleeping units		
		Dwelling units for care recipients	1 per dwelling unit		1 per dwelling unit		1 per dwelling unit		1 kitchen sink per dwelling unit
		Employee facilities	1 per 60 care recipient units		1 per 60 care recipient units		—	1 per 100	1 service sink per floor
		Visitor facilities	1 per 75 care recipient units.		1 per 75 care recipient units.		—	—	—
		Sleeping units for care recipients <sup>c</sup>	1 per 2 care recipient sleeping units		1 per 2 care recipient sleeping units		1 per 8 care recipient sleeping units		—
Nursing homes <sup>b</sup>	Employee facilities	1 per 60 care recipient units		1 per 60 care recipient sleeping units		—	1 per 100	1 service sink per floor	
	Visitor facilities	1 per 75 care recipient units		1 per 75 care recipient sleeping rooms		—	—	—	

TABLE 2902.1 [P] TABLE 2902.1—MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES* (See Sections 2902.1.1 and 2902.2)—continued										
NO.	CLASSIFICATION	DESCRIPTION	WATER CLOSETS (URINALS; SEE SECTION 424.2)		LAVATORIES		BATHTUBS/ SHOWERS	DRINKING FOUNTAIN (SEE SECTION 424.2)	OTHER	
			MALE	FEMALE	MALE	FEMALE				
5	Institutional— continued	Sleeping units for care recipients	1 per care recipient sleeping unit		1 per care recipient sleeping unit		1 per 100 care recipient sleeping units		—	
		Care recipient treatment areas	1 per 25 care recipient treatment rooms		1 per 50 care recipient treatment rooms		—	1 per 100	—	
		Hospitals <sup>b</sup>	Employee facilities	1 per 25 care recipient sleeping units or treatment room	1 per 25 care recipient sleeping units or treatment room	1 per 50 care recipient sleeping room or treatment room		—	1 per 100	1 service sink per floor
			Visitor facilities	1 per 75 care recipient sleeping units or treatment room	1 per 75 care recipient sleeping units or treatment room	1 per 50 care recipient sleeping room or treatment room		—	1 per 500	—
		Prisons <sup>b</sup>		1 per cell		1 per cell		1 per 15	1 per 100	1 service sink
6	Mercantile	Reformatories, detention centers and correctional centers <sup>b</sup>	1 per 15		1 per 15		1 per 15	1 per 100	1 service sink	
		Congregate Living Facilities	1 per 15		1 per 15		1 per 15	1 per 100	1 service sink	
		Employees	1 per 25		1 per 35		—	1 per 100	—	
7	Residential	Adult day care and child day care	1 per 15		1 per 15		1	1 per 100	1 service sink	
		Retail stores, service stations, shops, salesrooms, markets and shopping centers	1 per 500		1 per 750		—	1 per 1,000	1 service sink <sup>c</sup>	
7	Residential	Hotels, motels, boarding houses (transient)	1 per dwelling or sleeping unit		1 per dwelling or sleeping unit		1 per dwelling or sleeping unit	—	1 service sink	
		Dormitories, fraternities, sorori- ties and boarding houses (not transient)	1 per 10		1 per 10		1 per 8	1 per 100	1 service sink	

**TABLE 2902.1 [P] TABLE 2902.1—MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES\***  
(See Sections 2902.1.1 and 2902.2)—continued

NO.	CLASSIFICATION	DESCRIPTION	WATER CLOSETS (URINALS: SEE SECTION 424.2)		LAVATORIES		BATHUBS/ SHOWERS	DRINKING FOUNTAIN (SEE SECTION 444.4)	OTHER	
			MALE	FEMALE	MALE	FEMALE				
5	Institutional— continued	Sleeping units for care recipients	1 per care recipient sleeping unit		1 per care recipient sleeping unit		1 per 100 care recipient sleeping units		—	
		Care recipient treatment areas	1 per 25 care recipient treatment rooms		1 per 50 care recipient treatment rooms		—	1 per 100	—	
		Hospitals <sup>b</sup>	Employee facilities	1 per 25 care recipient sleeping units or treatment room		1 per 50 care recipient sleeping room or treatment room		—	1 per 100	1 service sink per floor
			Visitor facilities	1 per 75 care recipient sleeping units or treatment room		1 per 50 care recipient sleeping room or treatment room		—	1 per 500	—
		Prisons <sup>b</sup>		1 per cell		1 per cell		1 per 15	1 per 100	1 service sink
6	Mercantile	Reformatory, detention centers and correctional centers <sup>b</sup>	1 per 15		1 per 15		1 per 15	1 per 100	1 service sink	
		Congregate Living Facilities	1 per 15		1 per 15		1 per 15	1 per 100	1 service sink	
		Employees	1 per 25		1 per 35		—	1 per 100	—	
7	Residential	Adult day care and child day care	1 per 15		1 per 15		1	1 per 100	1 service sink	
		Retail stores, service stations, shops, salesrooms, markets and shopping centers	1 per 500		1 per 750		—	1 per 1,000	1 service sink <sup>c</sup>	
		Hotels, motels, boarding houses (transient)	1 per dwelling or sleeping unit		1 per dwelling or sleeping unit		1 per dwelling or sleeping unit	—	1 service sink	
		Dormitories, fraternities, sororities and boarding houses (not transient)	1 per 10		1 per 10		1 per 8	1 per 100	1 service sink	



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** **IBC** **Industry Votes:** **Y**    **N**

**Code Section:** **Section 2902.2**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

**[P] 2902.2 Separate facilities.** Where plumbing fixtures are required, separate facilities shall be provided for each sex.

**Exceptions:**

1. Separate toilet facilities shall not be required for *dwelling units* and *sleeping units*.
2. Separate toilet facilities shall not be required in structures or tenant spaces with a total *occupant load*, including both employees and customers, of ~~15~~ 20 or fewer.
3. Separate toilet facilities shall not be required in mercantile occupancies in which the maximum *occupant load* is 100 or fewer.
4. Separate toilet facilities shall not be required in business occupancies in which the maximum *occupant load* is 25 or fewer.
5. Separate toilet facilities shall not be required to be designated by sex where single-user toilet rooms are provided in accordance with Section 2902.1.2.
6. Separate toilet facilities shall not be required where rooms having both water closets and lavatory fixtures are designed

for use by all persons regardless of sex and privacy is provided for water closets in accordance with Section 405.3.4 of the *International Uniform Plumbing Code* and for urinals in accordance with Section 405.3.5 of the *International Uniform Plumbing Code*.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Building Officials in Northern Nevada have noticed a problem with the low occupant loads associated with this section of the code. Especially with A-2 small fast-food restaurants. This amendment would raise the occupant load from 15 to 20 for those type of occupancies.

### Documentation

Provide statistics, studies or supporting documents.

NA

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

NA



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** N  
**Committee:** UPC **Industry Votes:** **Y** N

**Code Section: 608.3**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

#### **608.3 Expansion Tanks, and Combination Temperature and Pressure Relief Valves.**

A water system provided with a check valve, backflow preventer, or other normally closed device that prevents dissipation of building pressure back into the water main, independent of the type of water heater used, shall be provided with an approved, listed, and adequately sized expansion tank or other approved, listed, and adequately sized expansion tank or other approved device having a similar function to control thermal expansion. Pre-pressurized water expansion tanks shall comply with IAPMO/ANSI Z1088. Such expansion tank or other approved device shall be installed on the building side of the check valve, backflow preventer, or other device and shall be sized, securely fastened to the structure and installed in accordance with the manufacturer's installation instructions.

A water system containing storage water heating equipment shall be provided with an approved, listed, adequately sized combination temperature and pressure-relief valve, except for listed nonstorage instantaneous heaters having an inside diameter of not more than 3 inches (80 mm). Each such approved combination temperature and pressure-relief valve shall be installed on the water-heating device in an approved location based on its listing requirements and the manufacturer's installation instructions. Each such combination temperature and pressure-relief valve shall be provided with a drain in accordance with Section 608.5.

Exception: An expansion tank shall not be required for instantaneous non storage water heaters with no internal or external recirculation.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

Tankless water heaters with recirculation capabilities need to have an expansion tank. As water is sampled the tankless water heater will fire to maintain loop temperature. This creates thermal expansion until it is dissipated by the opening of a faucet.

### **Documentation**

Provide statistics, studies or supporting documents.

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

A small expansion tank, tee, FIP adapter and labor should be less than \$200.00.





## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:**  Y  N

**Committee:** **UPC** **Industry Votes:**  Y  N

**Code Section: 2024 UPC 608.5 (7) & (8)**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Amend sections 608.5 (7) & (8) to read as follows:*

(7) Discharge from a relief valve into a water heater pan shall be prohibited, except if located in a basement with no means of discharge to the outside, no sump pump is available, and a warning device is provided to alert the occupant of water in pan.

(8) The discharge termination point shall be readily observable, or if unable to terminate outside, is equipped with a warning device for occupant.

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

IRC P2804.6.1 (5) allows discharge "to the pan serving the water heater". Although this is not a standard practice, the IRC does allow this in any installation. Area standard when below grade has been to allow the drain to a pan with a warning device.

### Documentation

Provide statistics, studies or supporting documents.

N/A

**Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

No cost increase or decrease, this is an alternative to allow water heaters that are being replaced or installed to be brought up to code, and an alternative to have the T & P terminate with a way to notify the occupant if there is a leak, similar to having the "discharge to be readily observable."



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:**

**Jurisdiction Votes:** **Y**

**Committee:** NEC

**Industry Votes:** **Y**

**Code Section: Article 100**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Add new to Article without any deletions:*

**Reliable Source of Power.** A source of power that possesses all of the following characteristics:

(1) The electric utility supplying the power has not conducted any intentional shutdowns longer than 10 continuous hours in the year prior to the plan submittal and is verified in writing by that electric utility.

(2) The source of power is not supplied by overhead conductors within 60 feet of the building(s) equipped with fire pump(s).

(3) Only the disconnect switches and overcurrent protection devices permitted in Article 695 and NFPA 20-2019 section 9.3.2 are installed in the normal source of power to the fire pump controller.

[20:A9.3.2] (695)

### Supporting statement

Indicate if this amendment is:

Omission

Local environment condition

Compatibility

Area standard practice

Annex Section A.9.3.2 in the 2019 edition of NFPA 20 Installation of Stationary Pumps for Fire Protection give guidance on determining the reliability of a utility power supply to a fire pump by evaluating several different characteristics. These characteristic are utilized in

defining a "reliable source of power" in the NEC, which doesn't currently have a definition.

### **Documentation**

Provide statistics, studies or supporting documents.

### **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

None



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y** **N**

**Committee:** NEC **Industry Votes:** **Y** **N**

**Code Section: NEC 358.10(A)**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

*Amend Section 358.10(A) to read as follows:*

#### **358.10 Uses Permitted.**

**(A) Exposed and Concealed.** The use of EMT shall be permitted for both exposed and concealed work for the following:

(1) In concrete, ~~in direct contact with the earth, in direct burial applications with fittings identified for direct burial,~~ or in areas subject to severe corrosive influences where installed in accordance with 358.10(B)

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                     Area standard practice

EMT is typically made of steel, and prolonged contact with the earth can lead to corrosion over time. Corrosion may compromise the integrity of the conduit, potentially leading to electrical hazards.

The NEC includes requirements for grounding and bonding to ensure electrical systems are properly connected to the earth for safety.

Allowing EMT in direct contact with the earth may pose challenges in maintaining proper grounding and bonding.

Alternative materials that may have better corrosion resistance when in contact with the earth, such as PVC conduit, should be used.

## **Documentation**

Provide statistics, studies or supporting documents.

## **Cost analysis**

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

PVC conduit is often considered more cost-effective than EMT for underground applications. PVC is a non-metallic material that is resistant to corrosion, lightweight, and generally less expensive than steel.



## NORTHERN NEVADA 2024 CODE AMENDMENT JUSTIFICATION FORM

**Amendment No:** \_\_\_\_\_ **Jurisdiction Votes:** **Y**    **N**

**Committee:** **NEC** **Industry Votes:** **Y**    **N**

**Code Section:** **NEC 690.7(D)**

### State proposed amendment

Include the entire text of the code section to be amended. ~~Strike-out~~ portions amended or deleted. Underline added text.

690.7(D) Marking DC PV Circuits.

A permanent readily visible etched phenolic or metallic notice label compliant with ANSI Z535.2-2011 indicating the highest maximum dc voltage in a PV system, calculated in accordance with 690.7, shall be provided by the installer at one on the following locations:

### Supporting statement

Indicate if this amendment is:

Omission                       Local environment condition  
 Compatibility                 Area standard practice

The wording used in 690.7(D) has been debated as what is "permanent readily visible" and in article (110.21) "sufficiently durable to withstand the environment involved". This proposal is merely further clarification for understandability.

### Documentation

Provide statistics, studies or supporting documents.

### Cost analysis

State if amendment will increase or decrease building costs. Industry member should supply approximate cost (increase or decrease) of amendment.

Minimal cost increase.