



**SOUTHERN NEVADA
AMENDMENTS
TO THE
2018 UNIFORM MECHANICAL CODE**

PREFACE

This document was developed by the Southern Nevada Building Officials' Uniform Mechanical Code (UMC) Committee and presents recommended amendments to the 2018 Uniform Mechanical Code as published by the International Association of Plumbing and Mechanical Officials (IAPMO).

Participation in the 2018 UMC Committee was open to all interested parties. However, voting on amendment proposals was limited to one vote each for six of Southern Nevada municipalities (Clark County, Henderson, Las Vegas, North Las Vegas, Boulder City, and Mesquite), the Clark County School District, and three industry representatives. All committee proceedings were conducted in accordance with Robert's Rules of Order.

The recommended amendments contained herein are not code unless adopted and codified by governmental jurisdictions. These amendments are not intended to prevent the use of any material or method of construction not specifically prescribed herein, provided any alternates have been approved and their use authorized by the Building Official. This document may be copied and used in whole or in part without permission or approval from the organizations listed on the cover page.

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Section Chapter 1: Administration

Delete Chapter 1 in its entirety, except for sections 101.1, 101.2 and 101.3.

Section 203.0

Revise Air Dispersion Systems definition as follows:

Air Dispersion Systems: Any diffuser system designed to both convey air within a room, space or area and diffuse air into that space while operating under positive pressure. Systems are commonly constructed of, but not limited to, fabric or plastic film.

Section 304.3.1.2 Permanent Ladders

Revise section 304.3.1.2 to read as follows:

304.3.1.2 Permanent Ladders. Permanent ladders required by Section 304.3.1.1 or exterior ladders shall be constructed in accordance with the following:

- (1) Side railings shall extend not less than 30 inches (762 mm) above the roof or parapet wall.
- (2) Landings shall not exceed 18 feet (5486 mm) apart measured from the finished grade.
- (3) Width shall be not less than 14 inches (356 mm) on center.
- (4) Rungs spacing shall not exceed 12 inches (305 mm) on center, and each rung shall be capable of supporting a 300 pound (136.1 kg) load.
- (5) Toe space shall be not less than 6 inches (152 mm).

Exceptions:

1. Permanent ladders providing roof access need not extend closer than eight (8) feet (2438 mm) to the finish grade.
2. A portable ladder may be used for access for a Group R Division 3 and 4 and U occupancies.
3. Permanent ladders for equipment access need not be provided at parapets or walls less than thirty (30) inches (762mm) in height.

Section 304.4 Appliances in Attics and Under-Floor Spaces

Revise Section 304.4 as follows:

304.4 Appliances in Attics and Under-Floor Spaces. An attic or under-floor space in which an appliance is installed shall be accessible through an opening and passage-way not less than the largest component of the appliance, and the rough-framed opening shall not be less than 22 inches by 30 inches (559 mm by 762mm).

Section 504.4 Clothes Dryers

Revise Section 504.4 by adding a new exception, as follows:

Exception: When moisture exhaust ducts terminate vertically through a roof, backdraft dampers are not required.

Section 504.4.2.1 – Length Limitation

Revise Section 504.4.2.1 a new exception, 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:

- (1) Where an exhaust duct power ventilator, in accordance with Section 504.2.3, is used, the permitted length of the dryer exhaust duct shall be permitted to be in accordance with the dryer exhaust duct power ventilator manufacturer's installation instructions.
- (2) Lengths may be increased when justified by calculations prepared by a Nevada Licensed Mechanical Engineer.

Section 510.1.6.1 Bracing and Supports

Add a new Section 510.1.6.1, as follows:

510.1.6.1 Bracing and Supports. Unless specifically listed, the structural supports for a duct enclosure shall be outside the enclosure.

Section 511.2.2.1.1 Performance Test

Add a new Section 511.2.2.1.1 as follows:

511.2.2.1.1 Performance Test. The permit holder shall provide the jurisdiction with an accurate, completed, and signed test report. The report shall be on a form supplied by the jurisdiction or on a form containing equivalent information. At the discretion of the building official, the performance test may be required to be witnessed by the Authority Having Jurisdiction, performed by an approved third party testing agency.

Section 603.4.1 Length Limitation

Delete section 603.4.1

Section 603.13 Air Dispersion Systems

Revise section 603.13, as follows:

603.13 Air Dispersion Systems. Where installed, air dispersion systems shall be completely installed in exposed locations operate under positive pressure, and not pass through or penetrate fire-resistant-rated construction. Air dispersion systems shall be listed and labeled in accordance with UL 2518.

Section 608.1 Automatic Shutoffs

Revise Section 608.1 by adding a new paragraph following the exceptions, as follows:

Upon completion and before final approval of the air-moving system provided 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 permit holder 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 be on a form supplied by the jurisdiction or on a form containing equivalent information. At the discretion of the building official, the performance test may be required to be witnessed by the Authority Having Jurisdiction, performed by an approved third party testing agency.

Section 802.6.1 Termination Requirements

Add an exception to 802.6.1 (1) to read as follows:

802.6.1 Termination Requirements. A gas vent shall terminate in accordance with one of the following:

- (1) Gas vents that are 12 inches (300 mm) or less in size and located not less than 8 feet (2438 mm) from a vertical wall or similar obstruction shall terminate above the roof in accordance with Figure 802.6.1 and Table 802.6.1 .

Exception: A single-family residence having gas vents twelve (12) inches (300 mm) in size or smaller with listed caps shall be permitted to be terminated in accordance with Figure 802.6.1, provided they are at least four (4) feet (1.2 m) from a vertical wall or similar obstruction.

Items (2) through (7) remain unchanged.

Section Chapter 10, Boilers and Pressure Vessels

Delete Chapter 10 in its entirety except Section 1001.1 and revise Section 1001.1, as follows:

1001.1 Applicability. For boilers and water heaters less than 120 gallon capacity, or a BTU input rating less than 200,000, or less than 160 pounds per square inch of pressure, see Chapter 5 of the Uniform Plumbing Code. For all other units, contact the Mechanical Section of the Nevada Division of Occupational Safety and Health, part of the Office of Business and Industrial Relations.

Exceptions (1) through (8) remain unchanged.

Section 1301.2 Dry Gas

Add a new section 1301.2, as follows:

1301.2 Dry Gas. Southern Nevada shall be considered a dry gas condition having a moisture and hydrocarbon dew point below any normal temperature to which the gas piping is in an exposed area, unless specified by the local gas purveyor.

Section 1310.1.6 Piping Underground Beneath Buildings

1310.1.6 Piping Underground Beneath Buildings. No gas piping shall be installed in or on the ground under any building or structure unless installed in gastight conduit, and all exposed gas piping shall be kept at least six (6) inches (152 mm) above grade or structure. The term "building or structure" shall include structures such as porches and steps, whether covered or uncovered, breezeways, roofed porte-cocheres, roofed patios, carports, covered walks, covered driveways, and similar structures or appurtenances. All gas piping under a slab shall be capable of being removed and replaced.

The conduit shall be of material approved for installation underground beneath buildings and not less than Schedule 40 pipe. The interior diameter of the conduit shall be not less than one-half (1/2) inch (15 mm) larger than the outside diameter of the gas piping.

The conduit shall extend to a point at least (12) inches (305 mm) beyond any area where it is required to be installed or to the outside wall of a building, and the outer ends shall not be sealed. Where the conduit terminates within a building, it shall be readily accessible and the space between the conduit and the gas piping shall be sealed to prevent leakage of gas into the building.

Exception: Products listed for such use.

Section 1701.1 Standards

Add the following referenced standard to Table 1701.1:

<i>STANDARD NUMBER</i> <i>UL 2518-2016</i>	<i>STANDARD TITLE</i> <i>Standard for Air Dispersion Systems</i>
<i>APPLICATION</i> <i>Air Dispersion Systems</i>	<i>REFERENCED SECTION</i> <i>603.13</i>