



**SOUTHERN NEVADA AMENDMENTS
TO THE
2024 UNIFORM MECHANICAL CODE**

Preface

This document was developed by the Southern Nevada Building Officials' (SNBO) Plumbing and Mechanical Code Committee and presents amendments to the 2024 Uniform Mechanical Code (UMC) as published by the International Association of Plumbing and Mechanical Officials (IAPMO).

Participation in the 2024 Plumbing and Mechanical Code Committee was open to all interested parties. However, voting on amendments proposals was limited to one vote each for seven Southern Nevada municipalities (Clark County, Henderson, Las Vegas, North Las Vegas, Boulder City, Pahrump, 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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Chapter 1: Administration

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

Section 101.4

Replace Section 101.4 Appendices, as follows:

101.4 Appendices. Only Appendix G and I are adopted.

Section 203.0 -A-

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 207.0 -E-

Replace the definition for Energy Recovery Ventilation (ERV) System, as follows:

Systems that employ air-to-air heat exchangers to recover energy from exhaust air for the purpose of preheating, precooling, humidifying, or dehumidifying outdoor ventilation air prior to supplying the air to a space, either directly or as part of an HVAC system.

Section 304.3.1

Revise Section 304.3.1 to read as follows:

304.3.1. Access. Buildings of more than 15 feet in height shall have an interior or exterior means of access to the roof in accordance with sections 304.3.1.1 and 304.3.1.2 as applicable.

Section 304.3.1.2

Revise Section 304.3.1.2 Permanent Ladders to read as follows:

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 504.4

Revise Subsection 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

Section 504.4.2.1 is amended by the addition of an exception (2) to read as follows:

Exception 2: Lengths may be increased when justified by calculations prepared by a Nevada Licensed Mechanical Engineer.

Section 508.4

Revise UMC 2024 subsection 508.4, as follows:

508.4 Supports. Hoods shall be secured in place to resist lateral loads calculated in accordance with ASCE 7-22 by noncombustible supports. The structure, anchors, and supports shall be capable of supporting the operating weight of the hood assembly, a 300-pound (136.1 kg) live load, and lateral demands of the hood assembly. Where maintenance access has been provided independently of the hood, the 300-pound (136.1 kg) live load need not be applied. Lateral

demands may be resisted by attaching the hood assembly to a non-combustible wall assembly with adequate capacity to resist those demands.

Section 510.1.6.1

Add a new Subsection 510.1.6.1, as follows:

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

Section 510.3.3.3

Revise Subsection 510.3.3.3, as follows:

510.3.3.3 Support. Support systems for horizontal grease duct systems 24 inches (610 mm) and larger in any cross-sectional dimension shall be designed for the operating weight of the ductwork assembly, a 300 pound (136.1 kg) live load, and lateral demands of the ductwork assembly calculated in accordance with ASCE 7-22. Where maintenance access has been provided independently of the hood, the 300 pound (136.1 kg) live load need not be applied.

Section 511.2.2.3

Add a new Subsection 511.2.2.3 Performance Test Report, as follows:

511.2.2.3 Performance Test Report. 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 603.12

Revise existing Air Dispersion System requirements, as follows:

603.12 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 603.4.1

Delete Section 603.4.1 Length Limitation, as follows:

603.4.1 Length Limitation. Factory-made flexible air ducts and connectors shall be not more than 5 feet (1524 mm) in length and shall not be used in lieu of rigid elbows or fittings.

Exception: Residential occupancies.

Section 609.1

Revise Section 609.1 by adding a new paragraph following the exceptions, as follows:

Exception 6: 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

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

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 932.1

Add sentence to Section 932.1, as follows:

932.1 General. Evaporative cooling systems, including air ducts and fire dampers that are a portion of an evaporative cooling systems, shall be in accordance with Section 932.2 through Section 932.4.3. Evaporative cooling systems shall be provided with outside air as specified for cooling systems in Section 403.0. Evaporative cooling systems shall comply with the applicable water service rules and municipal codes by the authority having jurisdiction.

Section Chapter 10

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.

Keep Exceptions (1) through (9).

Section 1119.1

Add sentence to the end of section 1119.1, as follows:

1119.1 Applicability. Cooling towers, evaporative condensers, fluid coolers, and associated remote sump tanks shall be readily accessible. Where located on roofs, such equipment having combustible exterior surfaces shall be protected with an approved automatic fire-extinguishing system. Evaporative cooling systems shall comply with the applicable water service rules and municipal codes by the authority having jurisdiction.

Section 1301.0

Revise Section 1301 by adding a new Subsection 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

Revise Section 1310.1.6, as follows:

1310.1.6 Piping Underground Beneath Buildings. All gas piping under a slab shall be capable of being removed and replaced without disturbing the slab. Where gas piping is installed underground beneath any building, structure or appurtenance including, but not limited to, porches and steps, whether covered or uncovered, breezeways, roofed porte-cocheres, roofed patios, carports, covered walks, and covered driveways, the piping shall be either of the following:

- (1) Encased in an approved conduit that shall be not less than one-half (1/2) inch (15mm) larger than the outside diameter of the gas piping, not less than Schedule 40 pipe, designed

to withstand the imposed loads and installed in accordance with Section 1310.1.6.1 or Section 1310.1.6.2.

(2) A piping/encasement system listed for installation beneath buildings. [NFPA 54:7.1.6]

1310.1.6.1 Conduit with One End Terminating Outdoors. The conduit shall extend into an accessible portion of the building and, at the point where the conduit terminates in the building, the space between the conduit and the gas piping shall be sealed to prevent the possible entrance of any gas leakage. Where the end sealing is of a type that retains the full pressure of the pipe, the conduit shall be designed for the same pressure as the pipe. The conduit shall extend at least 12 inches (305 mm) outside the building, be vented outdoors above finished ground level, and be installed so as to prevent the entrance of water and insects. [NFPA 54:7.1.6.1]

1310.1.6.2 Conduit with Both Ends Terminating Indoors. Where the conduit originates and terminates within the same building, the conduit shall originate and terminate in an accessible portion of the building and shall not be sealed. [NFPA 54:7.1.6.2]