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R048-24

Agency: Nevada State Fire Marshal

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Classification: **PROPOSED** x **ADOPTED BY AGENCY** **EMERGENCY**

Brief description of action: a regulation relating to fire protection and fire incident reporting: establishing requirements relating to the inspection of fire and smoke dampers, smoke control systems and exhaust systems. Revising requirements for submitting certain data for the National Fire Incident Reporting System.

Authority citation other than 233B: 1. NRS 477.030

Notice date: December 5, 2023

Date of Adoption by Agency: July 31, 2024

Hearing date: July 31, 2024

APPROVED REGULATION OF THE

STATE FIRE MARSHAL

LCB File No. R048-24

Filed September 16, 2024

EXPLANATION – Matter in *italics* is new; matter in brackets ~~omitted material~~ is material to be omitted.

AUTHORITY: §§ 1, 4-15, 17, 19, 22-28, 30-33, 38, 40 and 42-47, NRS 477.030; § 2, NRS 477.030, 477.093 and 477.095; § 3, NRS 477.030, 477.097 and 477.099; § 16, NRS 477.030 and 477.032; §§ 18, 20, 21, 29 and 34, NRS 477.030 and 477.033; §§ 35-37, 39 and 41, NRS 477.030 and 477.031.

A REGULATION relating to fire protection; establishing certain requirements relating to the inspection of a fire damper, smoke damper or combination fire and smoke damper; establishing certain requirements relating to the inspection of a smoke control system; establishing certain requirements relating to the inspection of a Type 1 exhaust system and associated ventilation system; adopting a publication by reference; revising references to the National Fire Protection Association; revising requirements to submit certain data for the National Fire Incident Reporting System; making various changes for the purpose of consistency with the Nevada Revised Statutes and the Nevada Administrative Code; repealing certain obsolete definitions; and providing other matters properly relating thereto.

Legislative Counsel's Digest:

Existing law requires the State Fire Marshal to adopt regulations relating to: (1) the prevention of fire; and (2) the maintenance and testing of fire dampers, smoke dampers and combination fire and smoke dampers and smoke control systems. (NRS 477.030) Existing law requires an owner or operator of any building equipped with a fire damper, smoke damper, combination fire and smoke damper or smoke control system to: (1) cause the unit to be inspected upon installation and thereafter in accordance with certain standards; and (2) maintain and make available for inspection the certification of inspection provided by the technician who makes the inspection. (NRS 477.093, 477.097) Existing law further requires the technician who performs an inspection of a fire damper, smoke damper, combination fire and smoke damper or smoke control system to: (1) report malfunctions or defects discovered during the inspections, if any, to the owner or operator of the building, the State Fire Marshal and the governing body; and

(2) provide the owner or operator of the building with a certification of inspection that includes certain information. (NRS 477.095, 477.099)

Section 2 of this regulation requires: (1) the owner or operator of a building equipped with a fire damper, smoke damper, or combination fire and smoke damper to maintain and make available for inspection, any inspection and testing documentation created during the three most recent inspections; (2) a technician to send a notice of refusal of an inspection to certain persons if the owner or operator of a building refuses a scheduled inspection; (3) a technician to perform inspections visually and in person regardless of the availability of remote testing capabilities or location; and (4) a technician to include in a certificate of inspection a description of any malfunctions or defects that were not fixed during the inspection.

Section 3 of this regulation requires: (1) the inspection of a smoke control system to be performed in accordance with certain standards; (2) the owner or operator of a building equipped with a smoke control system to maintain and make available for inspection any inspection and testing documentation created during the three most recent inspections; (3) a technician to send a notice of refusal of an inspection to certain persons if the owner or operator of a building refuses a scheduled inspection; and (4) a technician to include in a certificate of inspection a description of any malfunctions or defects that were not fixed during the inspection.

Section 4 of this regulation requires an owner or operator of any building with a Type 1 exhaust system to: (1) cause the associated ventilation system, including any make-up air or Type 2 hoods, to be inspected upon installation and periodically thereafter by a technician who has a certain certification; (2) maintain and make available for inspection, for a certain period of time, the certification of inspection provided by the technician who performed the inspection; and (3) have a technician verify the rate of air movement required by the design documents of the associated ventilation system most recently approved by the authority having jurisdiction every 5 years or every time the hoods, grease removal device, fans and other appurtenances are cleaned. **Section 4** also adopts a publication by reference.

Section 5 of this regulation requires: (1) a technician who performs an inspection of a Type 1 exhaust system and the associated ventilation system to report certain information relating to the inspection to the owner or operator of the building, the State Fire Marshal and the authority having jurisdiction and provide the owner or operator of the building with a certification of inspection that contains certain information; and (2) a technician to send a notice of refusal of an inspection to certain persons if the owner or operator of a building refuses a scheduled inspection.

Existing law requires the State Fire Marshal to put the National Fire Incident Reporting System into effect throughout the State. (NRS 477.030) Existing regulations require: (1) local fire jurisdictions to report data for the purposes of the National Fire Incident Reporting System; and (2) the State Fire Marshal to provide a copy of the annual report of the State's fire statistics to the Governor, the Director of the Department of Public Safety and all local fire jurisdictions in this State. (NAC 477.905) **Section 46** of this regulation: (1) removes the requirement for local fire jurisdictions to report such data and instead authorizes local fire jurisdictions to report such data; and (2) removes the requirement for the State Fire Marshal to provide a copy of the annual report to certain entities and instead requires the State Fire Marshal to post a copy of the annual report to the Internet website of the State Fire Marshal.

Sections 8, 10-14, 16, 18-41 and 43-45 of this regulation revise references to the National Fire Protection Association to “NFPA.” **Section 12** of this regulation also revises a reference to a section of the 2018 edition of the *International Building Code*.

Sections 15 and 42 of this regulation revise references to the Office of the State Fire Marshal for the purpose of consistency with the Nevada Administrative Code. **Section 17** of this regulation revises a reference to certain interior designers for the purpose of consistency with the Nevada Revised Statutes.

Section 7 of this regulation revises the definition of the term “fixed hood system” to mean a fixed fire extinguishing system which is utilized in the hood and duct system over cooking equipment.

Section 9 of this regulation revises the term “protective systems, equipment or apparatus” to be “protective systems.”

Section 47 of this regulation repeals certain obsolete definitions which define terms that are no longer used in chapter 477 of the Nevada Administrative Code.

Section 1. Chapter 477 of NAC is hereby amended by adding thereto the provisions set forth as sections 2 to 5, inclusive of this regulation.

Sec. 2. 1. *A technician performing an inspection pursuant to NRS 477.093 shall:*

(a) Comply with the requirements of NRS 477.095;

(b) Hold a certification issued in accordance with paragraph (b) of subsection 1 of NRS 477.093; and

(c) Perform such inspection visually and in person regardless of the availability of remote testing capabilities or location.

2. *If the owner or operator of a building refuses a scheduled inspection, the technician must, not later than the end of the next business day after the date of the refusal, send a notice of refusal to the owner or operator of the building, the State Fire Marshal and the governing body.*

3. *In addition to the requirements of subsection 2 of NRS 477.093, the owner or operator of any building equipped with a fire damper, smoke damper or combination fire and smoke*

damper shall maintain and make available for inspection, upon the request of the State Fire Marshal, a person authorized by the State Fire Marshal or a governing body, any inspection and testing documentation created during the three most recent inspections of the fire damper, smoke damper or combination fire and smoke damper.

4. In addition to the requirements set forth in subsection 3 of NRS 477.095, a technician shall include in the certificate of inspection a description of any malfunctions or defects that were not fixed during the inspection of the fire damper, smoke damper or combination fire and smoke damper.

5. As used in this section, "governing body" has the meaning ascribed to it in NRS 477.091.

Sec. 3. 1. The inspections required pursuant to subsection 1 of NRS 477.097, must be performed in accordance with the standards set forth in NFPA 92, as adopted by reference in NAC 477.281.

2. In addition to the requirements set forth in subsection 2 of NRS 477.097, the owner or operator of any building equipped with a smoke control system shall maintain and make available for inspection, upon the request of the State Fire Marshal, a person authorized by the State Fire Marshal or a governing body, any inspection and testing documentation created during the three most recent inspections of the smoke control system.

3. A technician performing an inspection pursuant to NRS 477.097 shall:
(a) Comply with the requirements of NRS 477.099;
(b) Hold a certification issued in accordance with paragraph (b) of subsection 1 of NRS 477.097; and

(c) In addition to the requirements set forth in subsection 2 of NRS 477.099, include in the certificate of inspection a description of any malfunctions or defects that were not fixed during the inspection of the smoke control system.

4. If the owner or operator of a building refuses a scheduled inspection, the technician must, not later than the end of the next business day after the date of the refusal, send a notice of refusal to the owner or operator of the building, the State Fire Marshal and the governing body.

5. As used in this section, "governing body" has the meaning ascribed to it in NRS 477.091.

Sec. 4. 1. The owner or operator of any building with a Type 1 exhaust system shall:

(a) Cause the Type 1 exhaust system and the associated ventilation system, including, without limitation, any make-up air or Type 2 hoods, to be inspected upon installation and periodically thereafter in accordance with the requirements of this section;

(b) Ensure the associated ventilation system is operated in accordance with the standards set forth in the International Fire Code and the Uniform Mechanical Code; and

(c) Maintain and make available for inspection, upon the request of the State Fire Marshal or the authority having jurisdiction, any inspection and testing documentation created during an inspection and the certification of inspection provided by the technician that completed the inspection pursuant to section 5 of this regulation from the five most recent inspections of the Type 1 exhaust system and the associated ventilation system or from all inspections that occurred in the last 10 years.

2. *The inspections required pursuant to subsection 1 must be performed by a technician who is certified:*

(a) As a Smoke Control System Technician through a certification body that is accredited in accordance with standard ISO/IEC 17024:2012 published by the International Organization for Standardization;

(b) To perform testing, adjusting and balancing of heating, ventilation and air conditioning systems through a certification body that is accredited in accordance with standard ISO/IEC 17024:2012 published by the International Organization for Standardization; or

(c) To perform ventilation verification assessments of heating, ventilation and air conditioning systems through a certification body that is accredited in accordance with standard ISO/IEC 17024:2012 published by the International Organization for Standardization.

3. *A technician who performs an inspection required pursuant to subsection 1 shall physically verify that the rate of air movement of the associated ventilation system meets the required rate of air movement set forth in the design documents for the ventilation system most recently approved by the authority having jurisdiction each time the hoods, grease removal device, fans and other appurtenances are cleaned, but not less than once every 5 years.*

4. *The State Fire Marshal hereby adopts by reference standard ISO/IEC 17024:2012 published by the International Organization for Standardization and any subsequent revision of the publication that has been approved by the State Fire Marshal for use in this State. Each*

revision of the publication shall be deemed approved by the State Fire Marshal unless the State Fire Marshal disapproves of the revision within 180 days after the date of publication of the revision. A copy of the most recent publication of the standard will be available for inspection at the main office of the State Fire Marshal and is available at the Internet address <https://www.iso.org/store.html>, for the price of \$152.

5. The State Fire Marshal will:

- (a) Review each revision of the publication described in subsection 4 to ensure its suitability for this State; and*
- (b) File a copy of each revision of the publication described in subsection 4 that the State Fire Marshal approves with the Secretary of State and the State Library, Archives and Public Records Administrator.*

Sec. 5. 1. Any technician who performs an inspection of a Type 1 exhaust system and the associated ventilation system as required by section 4 of this regulation shall:

(a) Report the required rate of air movement set forth in the design documents for the ventilation system most recently approved by the authority having jurisdiction, the tested rate of air movement and any malfunctions or defects discovered during the inspection, to the owner or operator of the building, the State Fire Marshal and the authority having jurisdiction.

(b) Provide the owner or operator of the building with a certification of inspection that includes, without limitation:

(1) The location and an identification of the Type 1 exhaust system and associated ventilation system components inspected;

(2) The date of inspection;

(3) The requirements for airflow as set forth in the design documents of the Type 1 exhaust system and the associated ventilation system, the initial test and the final test results of the inspection;

(4) The name and certification number of the technician; and

(5) A description of any malfunction or defects that were not corrected during the inspection.

2. If the owner or operator of a building refuses a scheduled inspection, the technician must, not later than the end of the next business day after the date of the refusal, send a notice of refusal to the owner or operator of the building, the State Fire Marshal and the authority having jurisdiction.

Sec. 6. NAC 477.010 is hereby amended to read as follows:

477.010 As used in this chapter, unless the context otherwise requires, the words and terms defined in NAC ~~477.020~~ **477.025** to 477.270, inclusive, have the meanings ascribed to them in those sections.

Sec. 7. NAC 477.105 is hereby amended to read as follows:

477.105 “Fixed hood system” means a fixed **fire** extinguishing system which is utilized in the hood and duct system over cooking equipment.

Sec. 8. NAC 477.155 is hereby amended to read as follows:

477.155 ~~“N.F.P.A.”~~ **“NFPA”** means the National Fire Protection Association.

Sec. 9. NAC 477.190 is hereby amended to read as follows:

477.190 “Protective systems ” ~~[-equipment or apparatus-]~~ means automatic sprinklers, standpipes, carbon dioxide systems and other devices used for extinguishing fires and for controlling temperatures or other conditions dangerous to life or property.

Sec. 10. NAC 477.275 is hereby amended to read as follows:

477.275 Where no specific standards or requirements are specified in this chapter or contained within other applicable statutes, ordinances or bylaws, or within other codes or regulations adopted by the State Fire Marshal, compliance with the applicable standards of the ~~[N.F.P.A.] NFPA~~ or other nationally recognized fire safety standards approved by the State Fire Marshal is prima facie evidence of compliance with the intent of this chapter.

Sec. 11. NAC 477.281 is hereby amended to read as follows:

477.281 1. The State Fire Marshal hereby adopts by reference the following nationally recognized codes with additions and deletions as noted in NAC 477.283:

(a) *International Fire Code*, 2018 edition, including appendices B, C, D, F and H. A copy is available from the International Code Council by mail at 25442 Network Place, Chicago, Illinois 60673-1254, or at the Internet address <http://www.iccsafe.org>, at the price of ~~[\$89.50]~~ **\$119** for members and ~~[\$119.00]~~ **\$159** for nonmembers.

(b) *International Building Code*, 2018 edition. A copy is available from the International Code Council by mail at 25442 Network Place, Chicago, Illinois 60673-1254, or at the Internet address <http://www.iccsafe.org>, at the price of ~~[\$110]~~ **\$148** for members and ~~[\$147]~~ **\$197** for nonmembers.

(c) *International Existing Building Code*, 2018 edition. A copy is available from the International Code Council by mail at 25442 Network Place, Chicago, Illinois 60673-1254, or at

the Internet address <http://www.iccsafe.org>, at the price of ~~[\$59.75]~~ \$95 for members and ~~[\$79.50]~~ \$126 for nonmembers.

(d) *International Wildland-Urban Interface Code*, 2018 edition, including Appendices A and B. A copy is available from the International Code Council by mail at 25442 Network Place, Chicago, Illinois 60673-1254, or at the Internet address <http://www.iccsafe.org>, at the price of ~~[\$43.50]~~ \$59 for members and ~~[\$58.00]~~ \$79 for nonmembers.

(e) *Uniform Mechanical Code*, 2018 edition. A copy is available from the International Association of Plumbing and Mechanical Officials by mail at 4755 ~~[East]~~ E. Philadelphia Street, Ontario, California ~~[91761-2816,]~~ 91761, or at the Internet address ~~[<http://publications.iapmo.org>,]~~ <https://iapmostore.org>, at the price of ~~[\$100 for members and \$125 for nonmembers.]~~ \$128.

(f) *Uniform Plumbing Code*, 2018 edition. A copy is available from the International Association of Plumbing and Mechanical Officials, by mail at 4755 ~~[East]~~ E. Philadelphia Street, Ontario, California ~~[91761-2816,]~~ 91761, or at the Internet address ~~[<http://publications.iapmo.org>,]~~ <https://iapmostore.org>, at the price of ~~[\$100 for members and \$125 for nonmembers.]~~ \$128.

2. In addition to the codes adopted pursuant to subsection 1, the State Fire Marshal hereby adopts by reference the following codes and standards of the *National Fire Codes* to supplement other codes adopted in this chapter:

- (a) ~~[N.F.P.A.]~~ NFPA 10, 2018 edition;
- (b) ~~[N.F.P.A.]~~ NFPA 11, 2016 edition;
- (c) ~~[N.F.P.A.]~~ NFPA 12, 2015 edition;

- (d) ~~[N.F.P.A.] NFPA~~ 12A, 2015 edition;
- (e) ~~[N.F.P.A.] NFPA~~ 13, 2016 edition;
- (f) ~~[N.F.P.A.] NFPA~~ 13D, 2016 edition;
- (g) ~~[N.F.P.A.] NFPA~~ 13R, 2016 edition;
- (h) ~~[N.F.P.A.] NFPA~~ 14, 2016 edition;
- (i) ~~[N.F.P.A.] NFPA~~ 15, 2017 edition;
- (j) ~~[N.F.P.A.] NFPA~~ 16, 2015 edition;
- (k) ~~[N.F.P.A.] NFPA~~ 17, 2017 edition;
- (l) ~~[N.F.P.A.] NFPA~~ 17A, 2017 edition;
- (m) ~~[N.F.P.A.] NFPA~~ 18, 2017 edition;
- (n) ~~[N.F.P.A.] NFPA~~ 20, 2016 edition;
- (o) ~~[N.F.P.A.] NFPA~~ 22, 2018 edition;
- (p) ~~[N.F.P.A.] NFPA~~ 24, 2016 edition;
- (q) ~~[N.F.P.A.] NFPA~~ 25, 2017 edition;
- (r) ~~[N.F.P.A.] NFPA~~ 30, 2018 edition;
- (s) ~~[N.F.P.A.] NFPA~~ 30B, 2015 edition;
- (t) ~~[N.F.P.A.] NFPA~~ 45, 2015 edition;
- (u) ~~[N.F.P.A.] NFPA~~ 52, 2016 edition;
- (v) ~~[N.F.P.A.] NFPA~~ 54 ~~[,]~~ /ANSI Z223.1, *National Fuel Gas Code*, 2018 edition, or the most current version adopted by reference by the Board for the Regulation of Liquefied Petroleum Gas in NAC 590.610;
- (w) ~~[N.F.P.A.] NFPA~~ 55, 2016 edition;

- (x) ~~[N.F.P.A.]~~ **NFPA** 58, 2017 edition, or the most current version adopted by reference by the Board for the Regulation of Liquefied Petroleum Gas in NAC 590.600;
- (y) ~~[N.F.P.A.]~~ **NFPA** 72, 2016 edition;
- (z) ~~[N.F.P.A.]~~ **NFPA** 80, 2016 edition;
- (aa) ~~[N.F.P.A.]~~ **NFPA** 85, 2015 edition;
- (bb) ~~[N.F.P.A.]~~ **NFPA** 86, 2015 edition;
- (cc) ~~[N.F.P.A.]~~ **NFPA** 90A, 2018 edition;
- (dd) ~~[N.F.P.A.]~~ **NFPA** 90B, 2018 edition;
- (ee) ~~[N.F.P.A.]~~ **NFPA** 92, 2018 edition;
- (ff) ~~[N.F.P.A.]~~ **NFPA** 96, 2017 edition;
- (gg) ~~[N.F.P.A.]~~ **NFPA** 99, 2018 edition;
- (hh) ~~[N.F.P.A.]~~ **NFPA** 99B, 2018 edition;
- (ii) Section 18.3.4.5 of ~~[N.F.P.A. Standard]~~ **NFPA** 101, 2018 edition;
- (jj) ~~[N.F.P.A.]~~ **NFPA** 102, 2016 edition;
- (kk) ~~[N.F.P.A.]~~ **NFPA** 110, 2016 edition;
- (ll) ~~[N.F.P.A.]~~ **NFPA** 111, 2013 edition;
- (mm) ~~[N.F.P.A.]~~ **NFPA** 122, 2015 edition;
- (nn) ~~[N.F.P.A.]~~ **NFPA** 130, 2017 edition;
- (oo) ~~[N.F.P.A.]~~ **NFPA** 140, 2018 edition;
- (pp) ~~[N.F.P.A.]~~ **NFPA** 150, 2019 edition;
- (qq) ~~[N.F.P.A.]~~ **NFPA** 160, 2016 edition, or the most current version adopted by reference by the Board for the Regulation of Liquefied Petroleum Gas in NAC 590.615;

- (rr) ~~[N.F.P.A.] NFPA~~ 385, 2017 edition;
- (ss) ~~[N.F.P.A.] NFPA~~ 400, 2016 edition;
- (tt) ~~[N.F.P.A.] NFPA~~ 403, 2018 edition;
- (uu) ~~[N.F.P.A.] NFPA~~ 407, 2017 edition;
- (vv) ~~[N.F.P.A.] NFPA~~ 409, 2016 edition;
- (ww) ~~[N.F.P.A.] NFPA~~ 410, 2015 edition;
- (xx) ~~[N.F.P.A.] NFPA~~ 415, 2016 edition;
- (yy) ~~[N.F.P.A.] NFPA~~ 418, 2016 edition;
- (zz) ~~[N.F.P.A.] NFPA~~ 472, 2018 edition;
- (aaa) ~~[N.F.P.A.] NFPA~~ 495, 2018 edition;
- (bbb) ~~[N.F.P.A.] NFPA~~ 501A, 2017 edition, or the most current version adopted by reference
by the Board for the Regulation of Liquefied Petroleum Gas in NAC 590.620;
- (ccc) ~~[N.F.P.A.] NFPA~~ 600, 2015 edition;
- (ddd) ~~[N.F.P.A.] NFPA~~ 704, 2017 edition;
- (eee) ~~[N.F.P.A.] NFPA~~ 730, 2018 edition;
- (fff) ~~[N.F.P.A.] NFPA~~ 731, 2017 edition;
- (ggg) ~~[N.F.P.A.] NFPA~~ 750, 2015 edition;
- (hhh) ~~[N.F.P.A.] NFPA~~ 853, 2015 edition;
- (iii) ~~[N.F.P.A.] NFPA~~ 901, 2016 edition;
- (jjj) ~~[N.F.P.A.] NFPA~~ 909, 2017 edition;
- (kkk) ~~[N.F.P.A.] NFPA~~ 914, 2015 edition;
- (lll) ~~[N.F.P.A.] NFPA~~ 1001, 2019 edition;

(mmm) ~~[N.F.P.A.] NFPA~~ 1003, 2019 edition;

(nnn) ~~[N.F.P.A.] NFPA~~ 1051, 2016 edition;

(ooo) ~~[N.F.P.A.] NFPA~~ 1072, 2017 edition;

(ppp) ~~[N.F.P.A.] NFPA~~ 1081, 2018 edition;

(qqq) ~~[N.F.P.A.] NFPA~~ 1122, 2018 edition;

(rrr) ~~[N.F.P.A.] NFPA~~ 1123, 2018 edition;

(sss) ~~[N.F.P.A.] NFPA~~ 1124, 2017 edition;

(ttt) ~~[N.F.P.A.] NFPA~~ 1126, 2016 edition;

(uuu) ~~[N.F.P.A.] NFPA~~ 1127, 2018 edition;

(vvv) ~~[N.F.P.A.] NFPA~~ 1141, 2017 edition;

(www) ~~[N.F.P.A.] NFPA~~ 1142, 2017 edition;

(xxx) ~~[N.F.P.A.] NFPA~~ 1143, 2018 edition;

(yyy) ~~[N.F.P.A.] NFPA~~ 1144, 2018 edition;

(zzz) ~~[N.F.P.A.] NFPA~~ 1192, 2018 edition, or the most current version adopted by reference
by the Board for the Regulation of Liquefied Petroleum Gas in NAC 590.640;

(aaaa) ~~[N.F.P.A.] NFPA~~ 1194, 2018 edition;

(bbbb) ~~[N.F.P.A.] NFPA~~ 1221, 2016 edition;

(cccc) ~~[N.F.P.A.] NFPA~~ 1402, 2019 edition;

(dddd) ~~[N.F.P.A.] NFPA~~ 1403, 2018 edition;

(eeee) ~~[N.F.P.A.] NFPA~~ 1452, 2015 edition;

(ffff) ~~[N.F.P.A.] NFPA~~ 1600, 2019 edition;

(gggg) ~~[N.F.P.A.] NFPA~~ 1616, 2017 edition;

(hhhh) ~~[N.F.P.A.] NFPA~~ 1710, 2016 edition;

(iiii) ~~[N.F.P.A.] NFPA~~ 1720, 2014 edition;

(jjjj) ~~[N.F.P.A.] NFPA~~ 1851, 2014 edition;

(kkkk) ~~[N.F.P.A.] NFPA~~ 1852, 2019 edition;

(llll) ~~[N.F.P.A.] NFPA~~ 1855, 2018 edition;

(mmmm) ~~[N.F.P.A.] NFPA~~ 1858, 2018 edition;

(nnnn) ~~[N.F.P.A.] NFPA~~ 1961, 2013 edition;

(oooo) ~~[N.F.P.A.] NFPA~~ 1962, 2018 edition;

(pppp) ~~[N.F.P.A.] NFPA~~ 1963, 2019 edition;

(qqqq) ~~[N.F.P.A.] NFPA~~ 1965, 2014 edition;

(rrrr) ~~[N.F.P.A.] NFPA~~ 1971, 2018 edition;

(ssss) ~~[N.F.P.A.] NFPA~~ 1977, 2016 edition;

(tttt) ~~[N.F.P.A.] NFPA~~ 2001, 2015 edition;

(uuuu) ~~[N.F.P.A.] NFPA~~ 2010, 2015 edition;

(vvvv) ~~[N.F.P.A.] NFPA~~ 2400, 2019 edition; and

(wwww) ~~[N.F.P.A.] NFPA~~ 3000, 2018 edition.

➡ A copy of each of the codes and standards is available free of charge at the Internet address <http://www.nfpa.org>.

3. Where no specific codes or standards are specified in the *International Fire Code*, 2018 edition, the applicable standards of the ~~[N.F.P.A.] NFPA~~ may be used.

Sec. 12. NAC 477.283 is hereby amended to read as follows:

477.283 1. The following changes are made to the 2018 edition of the *International Fire Code* as adopted by reference in NAC 477.281:

(a) “International Fuel Gas Code” is deleted and replaced with ~~“N.F.P.A. Standard”~~ **“NFPA 54 H/ANSI Z223.1, National Fuel Gas Code**, 2018 edition, or the most current version adopted by the Board for the Regulation of the Liquefied Petroleum Gas in NAC 590.610.”

(b) “International Mechanical Code” is deleted and replaced with “2018 Uniform Mechanical Code.”

(c) “International Plumbing Code” is deleted and replaced with “2018 Uniform Plumbing Code.”

(d) Section 105.6.20 is revised by adding a new paragraph to read as follows: “When a permit is required to be obtained for hazardous material, the Nevada Combined Agency Hazardous Material Facility Report must be completed and the appropriate fees paid.”

(e) Section 109 is deleted.

(f) In section 202, in the definition of “High-Rise Building,” “75 feet (22 860 mm)” is deleted and replaced with “55 feet (16 764 mm).”

(g) In section 202, under “Occupancy Classification”:

(1) The definition of “Institutional Group I-2” is revised by adding: “All portions of a care facility which houses patients or residents which are classified by the State Board of Health as a ‘Category 2 resident’ and which has an occupant load of more than 10 residents, is classified as an ‘I-2’ occupancy classification.”

(2) In the definition of “Institutional Group I-4, day care facilities,” “five” is deleted and replaced with “six.”

(3) The definition of “Residential Group R-1” is revised by adding “Brothel” to the list.

(4) In compliance with NRS 449.1865, in the definition of “Residential Group R-3,” “for five or fewer persons receiving care” is deleted and replaced with “for three or more persons receiving care.”

(5) The definition of “Residential Group R-4” is revised by adding:

(I) “Reintegration facilities”; and

(II) “Transitional living facilities.”

(h) Section 308.1.4 is deleted.

(i) In section 308.1.6.3, “an untethered sky lantern” is deleted and replaced with “a sky lantern or similar device with an open flame fuel source.”

(j) In section 503.2.3, “surfaced so as to provide all-weather driving capabilities” is deleted and replaced with “surfaced and paved so as to provide all-weather driving capabilities that are acceptable to and approved by the authority having jurisdiction.

Exception: Temporary access roads serving only buildings under construction are not required to be paved.”

(k) Section 505.1 is deleted and replaced with: “New and existing buildings must be provided with approved address numbers, building numbers or address identification. The address numbers, building numbers or address identification must be legible and placed in a position that is visible from the street or road fronting the property. The characters in address numbers, building numbers or address identification must contrast with their background. Address numbers, building numbers or address identification must be Arabic numbers or alphabetical letters. Each number, character and letter must be a minimum of 6 inches (152.4 mm) high for

buildings that are within 50 feet of the street, 12 inches high for buildings that are within 51 to 100 feet of the street and 18 inches high for buildings that are over 100 feet from the street. Each number, character and letter must be a minimum stroke width of 0.5 inch (12.7 mm). Where access is by means of a private road or driveway and the building cannot be viewed from the public way, a monument, pole or other sign or means must be used to identify the structure. The requirements of this paragraph can be adjusted to allow large Arabic numbers or alphabetical letters as required by the fire code official for the needs of campuses and complexes for planning and coordination as listed under ~~[N.F.P.A.]~~ *NFPA* 3000, 2018 edition.”

(l) Section 507.3 is revised by adding a new paragraph to read as follows: “Subject to the approval of the fire authority, if the required fire flow is not available for adequate fire protection, an approved automatic fire sprinkler system must be installed throughout the building or buildings. The sprinkler system must meet the requirements of the appropriate ~~[N.F.P.A.]~~ *NFPA* standard. The provisions of this paragraph do not apply if a fire sprinkler system is otherwise required by this chapter or the adopted codes.”

(m) Section 510.1 is deleted and replaced with: “Emergency responder radio coverage systems must be provided throughout any building that meets one of the following standards:

1. *High-rise buildings*: Buildings with a floor used for human occupancy that is located more than 55 feet above the lowest level of fire department vehicle access.
2. *Underground and below-grade buildings*: Buildings with a floor level that is below the finished floor of the lowest level of the exit discharge of any level.
3. *Other buildings*: The fire code official is authorized to require a technical opinion and report, in accordance with section 104.7.2, for buildings whose design, due to location, size,

construction type or other factors, could impede radio coverage as required by section 510.4.1. The report shall make a recommendation regarding the need for an emergency responder radio coverage system.”

(n) Section 510.2 is deleted and replaced with: “Existing buildings, other than buildings with an occupational classification of Residential Group R-3, which do not have approved radio coverage for emergency responders in the building based on existing coverage levels of the public safety communications systems, must be equipped with such coverage according to one of the following conditions:

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

Exception: An existing building is not required to be equipped with such coverage where the fire code official determines that the radio coverage for emergency responders is not needed.”

(o) Section 903.2.1.2 is revised by adding a new paragraph to read as follows: “Occupancies containing a casino, regardless of occupancy classification, must be designed and built with a sprinkler system classified as an ordinary Hazard Group 2.”

(p) Section 903.2.3 is revised by adding a new paragraph to read as follows: “In high schools where automatic sprinkler systems are provided, the automatic sprinkler systems for the automotive and woodworking shops must be designed to meet ordinary hazard group 1 criteria.”

(q) Section 903.2 is revised by adding a new paragraph to read as follows: “In all occupancies except group R-3 and U occupancies, a building that is more than two stories in

height, including any height added by usable floor space, must have an automatic sprinkler system throughout. Any open parking garage and any airport control tower is exempt from this requirement to install an automatic sprinkler system.”

(r) Section 906.2 is revised by adding new sentences following the first sentence to read as follows: “The internal components of carbon dioxide, wet chemical, halogenated agent, aqueous film-forming foam (AFFF) and film-forming fluoroprotein (FFFP) portable fire extinguishers shall be examined in accordance with ~~N.F.P.A. Standard~~ *NFPA* 10, 2018 edition, table 7.3.3.1. The internal components of all other portable fire extinguishers shall be examined annually.”

(s) Section 907.5.2.1.1 is revised by adding a new paragraph to read as follows: “The minimum sound pressure levels of audible alarm notification appliances shall be 90 dBA in mechanical equipment rooms and 80 dBA in all other occupancies.”

(t) Section 907.5.2.3 is revised by adding the following exceptions following exception 4:

“5. Visible alarm notification appliances are not required in storage rooms, electrical rooms and mechanical rooms that are not normally occupied and are less than 400 square feet.

6. Visible alarm notification appliances are not required in janitor closets.”

(u) Section 907.10 is revised by adding: “The provisions of this section apply when any work that requires a permit is conducted on a new or existing building or structure.”

(v) In section 915.1.1, “occupancies and” is deleted and replaced with “occupancies, including, without limitation, Residential Group R-3 occupancies used for transient occupancy of less than 30 days, and.”

(w) Chapter 11 is deleted.

(x) Section 5601.1.3 is revised by deleting the first sentence and adding a new sentence to read as follows: “Except as otherwise provided in this section, the possession, manufacture, storage, sale, use and handling of Class 1.3 and Class 1.4 pyrotechnics are only allowed in jurisdictions where specifically approved by local ordinance.”

(y) Section 6101.1 is revised by adding a new paragraph to read as follows: “In the event of a conflict between any provision in this chapter and the regulations of the Board for the Regulation of Liquefied Petroleum Gas, the regulations of the Board take precedence.”

(z) In table B105.2 of Appendix B, “25 percent” is deleted and replaced with “50 percent.”

2. The following changes are made to the 2018 edition of the *International Building Code* as adopted by reference in NAC 477.281:

(a) “International Fuel Gas Code” is deleted and replaced with ~~“N.F.P.A. Standard”~~ **“NFPA 54 ~~H~~ /ANSI Z223.1, National Fuel Gas Code**, 2018 edition, or the most current version adopted by the Board for the Regulation of Liquefied Petroleum Gas in NAC 590.610.”

(b) “International Mechanical Code” is deleted and replaced with “2018 Uniform Mechanical Code.”

(c) “International Plumbing Code” is deleted and replaced with “2018 Uniform Plumbing Code.”

(d) Section 113 is deleted.

(e) In section 202, in the definition of “High-Rise Building,” “75 feet (22 860 mm)” is replaced with “55 feet (16 764 mm).”

(f) Section 308.3 is revised by adding a new paragraph to read as follows: “All portions of a care facility which houses patients or residents which are classified by the State Board of Health as a ‘Category 2 resident’ and which has an occupant load of more than 10 residents, is classified as an ‘I-2’ occupancy classification.”

(g) In section 308.5, “five” is deleted and replaced with “three.”

(h) Section 310.2 is revised by adding “Brothel” to the list.

(i) In compliance with NRS 449.1865, in section 310.4, “for five or fewer persons receiving care” is deleted and replaced with “for three or more persons receiving care.”

(j) In section 310.5, the following are added:

(1) “Reintegration facilities”; and

(2) “Transitional living facilities.”

(k) To section 403.5.3 at the end of the last sentence, is added: “or an activation of any fire alarm initiating device within the building or a failure of both the primary and backup power supplies.”

(l) In section 403.5.4, “75 feet (22 860 mm)” is deleted and replaced with “55 feet (16 764 mm).”

(m) Section 903.2.1.2 is revised by adding a new paragraph to read as follows: “Occupancies containing a casino, regardless of occupancy classification, must be designed and built with a sprinkler system classified as an ordinary Hazard Group 2.”

(n) Section 903.2.3 is revised by adding a new paragraph to read as follows: “In high schools where automatic sprinkler systems are provided, the automatic sprinkler systems for the automotive and woodworking shops must be designed to meet ordinary hazard group 1 criteria.”

(o) Section 903.2 is revised by adding a new paragraph to read as follows: “In all occupancies except group R-3 and U occupancies, a building that is more than two stories in height, including any height added by usable floor space, must have an automatic sprinkler system throughout. Any open parking garage and any airport control tower is exempt from this requirement to install an automatic sprinkler system.”

(p) Section 907.5.2.1.1 is revised by adding a new paragraph to read as follows: “The minimum sound pressure level of audible alarm notification appliances shall be 90 dBA in mechanical equipment rooms and 80 dBA in all other occupancies.”

(q) Section 907.5.2.3 is revised by adding the following exceptions following exception 4:

“5. Visible alarm notification appliances are not required in storage rooms, electrical rooms and mechanical rooms that are not normally occupied and are less than 400 square feet.

6. Visible alarm notification appliances are not required in janitor closets.”

(r) In section ~~1008.1.9.11,~~ **1010.1.9.12**, exception 3 is revised to read as follows: “In stairways serving buildings other than high-rise buildings, doors are permitted to be locked on the side opposite the egress side, provided that the doors can be opened from the egress side.

Doors must automatically unlock upon the activation of a fire alarm system or a fire sprinkler waterflow alarm, or for a power failure. Exit discharge doors must remain unlocked.”

3. The following changes are made to the 2018 edition of the *International Existing Building Code* as adopted by reference in NAC 477.281:

(a) “International Fuel Gas Code” is deleted and replaced with ~~“N.F.P.A. Standard”~~ *“NFPA 54 /ANSI Z223.1, National Fuel Gas Code, 2018 edition, or the most current version adopted by the Board for the Regulation of Liquefied Petroleum Gas in NAC 590.610.”*

(b) “International Mechanical Code” is deleted and replaced with “2018 Uniform Mechanical Code.”

(c) “International Plumbing Code” is deleted and replaced with “2018 Uniform Plumbing Code.”

4. The following changes are made to the 2018 edition of the *International Wildland-Urban Interface Code* as adopted by reference in NAC 477.281:

(a) Section 106 is deleted.

(b) In section 108.4, “pursuant to Section 502” is deleted.

(c) In section 302.3, “on a three-year basis or more frequently as deemed necessary by the legislative body” is deleted and replaced with “as deemed necessary by the code official.”

(d) Section 404.1 is revised by deleting “provided in order to qualify as a conforming water supply for the purpose of Table 503.1 or as.”

(e) Chapter 5 is deleted.

(f) Section 602.1 is deleted.

(g) Section 603.2 is revised by deleting “Building or structures, constructed in compliance with the conforming defensible space category of table 503.1, shall comply with the fuel modification distance contained in table 603.2.”

(h) Section B101.1 is revised to read as follows: “Where required, vegetation management plans must be submitted to the code official and the State Forester Firewarden for review and approval as part of the plans required for a permit.”

5. The following changes are made to the 2018 edition of the *Uniform Mechanical Code* as adopted by reference in NAC 477.281:

(a) “International Fuel Gas Code” is deleted and replaced with ~~“N.F.P.A. Standard”~~ *“NFPA 54 [H] /ANSI Z223.1, National Fuel Gas Code*, 2018 edition, or the most current version adopted by the Board for the Regulation of Liquefied Petroleum Gas in NAC 590.610.”

(b) “International Plumbing Code” is deleted and replaced with “2018 Uniform Plumbing Code.”

6. As used in this section, “casino” means any room in which gaming is conducted, including, without limitation, any bar, cocktail lounge or other facility housed therein as well as the area occupied by the games. The term does not include any establishment that is operated pursuant to a restricted license as defined in NRS 463.0189.

Sec. 13. NAC 477.2835 is hereby amended to read as follows:

477.2835 1. Fire departments that provide training to firefighters using techniques or exercises which involve the use of fire or any device that produces or may be used to produce fire must follow the requirements set forth in ~~“N.F.P.A. Standard”~~ *NFPA 1403*, as adopted by reference in NAC 477.281, on live fire-training evolutions.

2. Each person directly supervising a live fire-training evolution and each person managing a training program involving live fire-training evolutions must hold a certification from the State Fire Marshal as a Fire Service Instructor II or higher, as described in ~~[N.F.P.A. Standard]~~ *NFPA* 1041, as adopted by reference in subsection 5.

3. The construction of each structure used for a live fire-training evolution must comply with the requirements set forth in ~~[N.F.P.A. Standard]~~ *NFPA* 1403, as adopted by reference in NAC 477.281, including, without limitation, design oversight and periodic inspection conducted by a person licensed in accordance with the provisions of chapter 625 of NRS who is working within his or her area of expertise.

4. Any evaluation, inspection or modification of an acquired structure that is to be used for a live fire-training evolution must comply with the requirements set forth in ~~[N.F.P.A. Standard]~~ *NFPA* 1403, as adopted by reference in NAC 477.281.

5. The State Fire Marshal hereby adopts by reference ~~[N.F.P.A. Standard]~~ *NFPA* 1041, 2019 edition, of the *National Fire Code* and any subsequent revision of the publication that has been approved by the State Fire Marshal for use in this State. Each revision of the publication shall be deemed approved by the State Fire Marshal unless the State Fire Marshal disapproves of the revision within 180 days after the date of publication of the revision. A copy of the most recent publication of the standard will be available for inspection at the main office of the State Fire Marshal and may be obtained, free of charge, at the Internet address <http://www.nfpa.org>.

6. The State Fire Marshal will:

(a) Review each revision of the publication described in subsection 5 to ensure its suitability for this State; and

(b) File a copy of each revision of the publication described in subsection 5 that the State Fire Marshal approves with the Secretary of State and the State Library, Archives and Public Records Administrator.

7. A local government, city, town, county or district which establishes a paid full-time or part-time fire department that has been given the responsibility of organizing and deploying fire suppression operations, emergency medical operations and special operations to the public shall follow the minimum training requirements of personnel as set forth in ~~[N.F.P.A.]~~ **NFPA** 1001, as adopted by reference in NAC 477.281.

8. A local government, city, town, county or district which establishes a volunteer fire department that has been given the responsibility of organizing and deploying fire suppression operations, emergency medical operations and special operations to the public shall follow the minimum training requirements of personnel as set forth in ~~[N.F.P.A.]~~ **NFPA** 1720, as adopted by reference in NAC 477.281.

9. The owner or operator of an industrial, commercial, institutional or similar property which establishes a facility fire brigade shall follow the minimum training requirements of personnel as set forth in ~~[N.F.P.A.]~~ **NFPA** 600, as adopted by reference in NAC 477.281, and the minimum job performance requirements for industrial fire brigade personnel as set forth in ~~[N.F.P.A.]~~ **NFPA** 1081, as adopted by reference in NAC 477.281.

10. A state or local government, city, town, county or district which establishes a fire protection organization on the management of wildland fire suppression or which, through an agreement, responds to wildland fires shall follow the minimum training requirements of

personnel as set forth in ~~[N.F.P.A.] NFPA~~ 1051 and 1143, as adopted by reference in NAC 477.281, or as set forth by the National Wildfire Coordinating Group.

Sec. 14. NAC 477.312 is hereby amended to read as follows:

477.312 The examinations administered by the State Fire Marshal are based on this chapter and the *National Fire Codes* published by the ~~[N.F.P.A.] NFPA~~.

Sec. 15. NAC 477.313 is hereby amended to read as follows:

477.313 1. The State Fire Marshal will schedule the various examinations so that an applicant may take his or her examination within 90 days after the date of his or her application. Examinations will be conducted at the *Office of the* State Fire ~~[Marshal's Office]~~ *Marshal* in Carson City during business hours with an appointment. Examinations for certificates of registration will also be conducted by appointment in Las Vegas. The State Fire Marshal may also conduct examinations for certificates of registration in additional locations within the State if he or she determines that there is sufficient demand for the additional locations. No appointment for an examination will be made until the applicant submits all required documentation to the *Office of the* State Fire ~~[Marshal's Office]~~ *Marshal* in Carson City.

2. An applicant who fails the examination or a part of the examination must wait 15 calendar days after the date of the examination and pay the fee for retaking an examination set forth in NAC 477.325 before taking the test, or the failed part of the test, again. A person may not take the test for the same class of license more than three times in 1 calendar year.

3. An applicant who already has a certificate in one classification may apply for licensing or registration in a higher classification and, upon payment of the prescribed fee, will be tested only on that part of the examination pertaining to the higher classification.

4. An applicant shall not engage in cheating activities relating to an examination, including, without limitation:

- (a) Copying answers from the test of another applicant;
- (b) Using restricted materials, including, without limitation, answers to test questions;
- (c) Offering to sell or distribute, or selling and distributing, test answers or questions; or
- (d) Assisting others to engage in cheating activities.

5. The State Fire Marshal may revoke any certificate of registration if he or she determines that the applicant engaged in any cheating activities proscribed by subsection 4. If it is determined that the licensed firm of the applicant assisted the applicant in cheating activities, the State Fire Marshal will revoke the license of the firm.

Sec. 16. NAC 477.325 is hereby amended to read as follows:

477.325 1. Except as otherwise provided in this chapter, the schedule of fees for:

(a) A license to install or maintain portable fire extinguishers and fixed systems and a blaster's certificate of registration is as follows:

| | |
|--|-------|
| (1) Type A for full service of portable fire extinguishers | \$528 |
| (2) Type B for portable fire extinguishers without hydrostatic service | 429 |
| (3) Type B-C or B-D for Type B with hydrostatic service (C is low pressure, D is high pressure hydro) | 450 |
| (4) Type E for fixed fire extinguishing systems: | |
| (I) E-1 for pre-engineered systems | 165 |
| (II) E-2 for all other engineered systems | 165 |

| | |
|--|-----|
| (III) Both E-1 and E-2 | 330 |
| (5) Type F for fire alarm | 528 |
| (6) Type G for automatic sprinkler systems, except those covered by | |
| [N.F.P.A. Standards] NFPA 13D and 13R, 2016 editions | 528 |
| (7) Type G-U for all underground private fire service mains and their | |
| appurtenances..... | 297 |
| (8) Type G-U for private hydrant repair, installation and maintenance | 297 |
| (9) Type G-U for the testing of backflow devices | 297 |
| (10) Type H for hood and duct cleaning | 528 |
| (11) Type I for standpipe systems | 528 |
| (12) Type J for systems classified pursuant to [N.F.P.A. Standards] NFPA | |
| 13D and 13R, 2016 editions..... | 528 |
| (13) A new blaster's certificate of registration..... | 66 |
| (14) Annual renewal of a blaster's certificate | 66 |
| (15) Type MG license to install medical gas systems..... | 297 |
| (16) Type EWD (Early Warning Device) license to sell or install heat | |
| detectors | 132 |
| (b) A new certificate of registration (each class) | 85 |
| (c) Renewal of a certificate of registration..... | 40 |
| (d) Issuance of a duplicate license or certificate | 14 |
| (e) Change of information on a certificate or license..... | 14 |

| | |
|---|-----|
| (f) An annual license for the sale at retail of all types of fire extinguishers | 31 |
| (g) Retaking an examination or any part of an examination..... | 25 |
| (h) A certificate of registration and license for codes and regulations in interior design | 120 |
| (i) Renewal of a certificate of registration and license for codes and regulations in interior design | 56 |

2. The fees for a license do not apply to this State or its political subdivisions. The fees for certificates of registration apply in all cases. A certificate of registration operates as a license for a person to perform a specific job for a company licensed pursuant to this chapter and chapter 477 of NRS.

3. The State Fire Marshal will refund the fee for a license, less an administrative fee of \$38.50, if a written request for a refund, stating that the licensee has not, after being licensed, engaged in any of the activities for which the license is issued, is received by the State Fire Marshal within 30 days after the date of the issuance of the license.

4. The following fees are established for the administrative and regulatory services of the State Fire Marshal Division:

(a) All copy service will be at the rate of 50 cents for each page.

(b) Fees for investigative services are as follows:

(1) For expert testimony rendered by the Division in a civil proceeding, the fee of \$110 for each hour of testimony or research will be charged.

(2) The actual costs for an investigation must be paid by the person investigated if the person is found guilty.

(3) Investigative and hearing costs must be paid by the person investigated, if the hearing officer finds in favor of the State Fire Marshal.

(c) The State Fire Marshal may charge a fee for the following services based on an hourly cost sufficient to cover the salaries and administrative expenses for:

(1) Requests for an immediate review of plans to expedite a project. The State Fire Marshal will calculate the hourly costs based on the average amount the State Fire Marshal pays for the position of employment which is applicable to the service being provided, including, without limitation, inspectors and plan checkers.

(2) Additional reviews of plans or specifications required by changes, additions or alterations to the plans or specifications.

(3) Reviews of requests to use alternate materials, designs, methods of construction or equipment.

(d) The fee for witnessing any test for acceptance is \$27 for each test requiring a separate fee for certification.

(e) A fee may be charged for the costs associated with providing training programs. The State Fire Marshal may waive this fee if a reasonable justification for doing so is provided.

(f) Instructional supplies and materials will be supplied at the approximate cost of providing them.

(g) Fees for instructors are \$55.30 per hour, or as set by contract for specific classes, plus per diem and travel expenses.

(h) Any additional costs for service will be added, as well as an administrative fee of 5.5 percent of the total cost of each program.

(i) Costs of certification are based upon hours of training, but will not exceed \$50. Fees will be charged for any certification other than:

(1) Initial firefighter certification I and II for a member of a volunteer fire department; or

(2) Certification for hazardous materials awareness and operations for all first responders for a governmental agency.

(j) Additional fees equal to those charged for initial testing will be charged for retesting those who fail.

(k) The State Fire Marshal will not collect fees pursuant to this section from a person if a third party, such as the employer of the person, pays that fee.

(l) Any service provided by the State Fire Marshal Division may be billed at the rate of \$38.50 per hour or the actual cost of providing the service, whichever is greater.

(m) Any service performed by a special deputy on behalf of the State Fire Marshal may be billed, pursuant to an interagency agreement, at the rate of \$38.50 per hour, the actual cost of providing the service or any other rate specified by this chapter. The State Fire Marshal may allow such fees or any part thereof to be collected and used by the agency supporting the special deputy.

(n) Approval for equipment or materials which are not on a list published by a nationally recognized testing laboratory, inspection agency or other organization concerned with product evaluation will be issued annually for a fee of \$610 per product, \$38.50 per hour of research and actual expenses incurred in evaluating the product. If a product or material is not approved, there will be charged a fee of \$38.50 per hour of research and actual expenses incurred in evaluating the product, except that the minimum fee is \$184. Approval of a product lapses if the:

- (1) Product is modified;
- (2) Name of the product or person manufacturing the product is changed;
- (3) Ownership of the company is changed;
- (4) Use of the product is changed; or
- (5) Annual fee is not paid.

(o) Requests for statistical information received before the publication of the annual report will be supplied as available. The administrative cost to receive such statistical information will be calculated and assessed in accordance with this section.

5. The State Fire Marshal may establish a fee for supplying copies of the annual report to persons and agencies other than fire, legislative and state agencies. The fee will be limited to the actual cost of the publication and distribution of the report, plus an administrative fee of \$38.50.

6. The State Fire Marshal may refund all or part of any fee if he or she deems it appropriate. To be eligible for a training refund, a registrant must give not less than 72 hours' notice before removing his or her name from the registration list. The State Fire Marshal may require the registrant to provide written documentation of the notice.

7. For a plan review, the State Fire Marshal will collect a fee in accordance with section 109 of the *International Building Code*, 2018 edition.

Sec. 17. NAC 477.3332 is hereby amended to read as follows:

477.3332 1. To have a course in codes and regulations approved by the State Fire Marshal, a request must be submitted to the State Fire Marshal with an application for the approval of the proposed course. The application must contain:

(a) An outline of the course and a list of reference materials to be used. At least 85 percent of the course must refer to the fire codes, building codes and applicable regulations adopted by the State Fire Marshal.

(b) A copy of any syllabus, manual and handouts to be used by the instructor and students in the course.

(c) A copy of the final exam that will be used, to be approved by the State Fire Marshal.

(d) A copy of the transcript, certificate of completion or other proof of successful completion that will be awarded to students who successfully complete the course.

2. The State Fire Marshal will evaluate the proposed course and final examination within 20 days after the date on which he or she receives the application for approval and determine whether to approve the course. An instructor shall not use a final examination for the course if the final examination has not been approved by the State Fire Marshal.

3. The State Fire Marshal may charge:

(a) A fee for requesting approval for a course pursuant to this section; and

(b) The actual costs incurred by the State Fire Marshal in evaluating the course.

4. If a course is approved and the applicable fees have been submitted, the State Fire Marshal will add the course to the list of approved courses for the registration of *qualified* interior designers pursuant to NRS 477.032.

Sec. 18. NAC 477.335 is hereby amended to read as follows:

477.335 1. All pre-engineered or engineered fixed fire extinguishing systems, fire alarm systems, standpipe systems, sprinkler systems, fire extinguishers, fixed hood systems, fire hydrants and underground fire sprinkler systems, and any appurtenance thereof, must be:

(a) Inspected as required by the appropriate adopted standards as published by the ~~[N.F.P.A.]~~ *NFPA*, including, without limitation, in accordance with the schedules required by those adopted standards. The inspections must be conducted by a person licensed or certified by the State Fire Marshal to conduct such inspections.

(b) Visually inspected on a quarterly basis. The visual inspections may be conducted by any person, including an employee of a firm, who, in the opinion of the authority having jurisdiction, has sufficient knowledge of the system to conduct a visual inspection and who will maintain an accurate record of such inspections of the system in the designated place for each system.

2. The authority having jurisdiction may visually inspect a fire protection system at any time. All work must comply with the standards adopted for the system being installed. The methods or equipment used in the installation must not vary from those required by the plans pursuant to which the fire protection system is being installed and the applicable standard for that fire protection system.

Sec. 19. NAC 477.345 is hereby amended to read as follows:

477.345 1. Any firm that holds a license to service or install any fire alarm system, standpipe system, residential sprinkler system, automatic sprinkler system or any other type of extinguishing system must be properly equipped and shall employ personnel who are qualified to install and perform service on fire alarm systems, standpipe systems, assemblies for the prevention of backflow, residential sprinkler systems, automatic sprinkler systems, fire hydrants and underground fire sprinkler systems, and any appurtenance thereof, and must possess a state contractor's license which is pertinent to the work being performed. Licenses will be issued in five basic classifications:

(a) Type E: Authorizes the holder to design the placement of, install, maintain and service engineered or pre-engineered fixed fire extinguishing systems.

(b) Type F: Authorizes the holder to design the placement of, install, maintain and service fire alarm systems.

(c) Type G: Authorizes the holder to design the placement of, install, maintain and service automatic sprinkler systems.

(d) Type I: Authorizes the holder to design the placement of, install, maintain and service fire standpipe systems.

(e) Type J: Authorizes the holder to design the placement of, install, maintain and service residential sprinkler systems which are classified as systems pursuant to ~~N.F.P.A. Standards~~ *NFPA* 13D or 13R, 2016 editions.

2. Each application must be accompanied by the required fee and contain the following information:

(a) The name, address and telephone number of the firm.

(b) Fictitious name used, if any.

(c) The type of work performed.

(d) The business identification number or other unique identification number assigned to the firm by the Secretary of State.

(e) Other pertinent information required by the State Fire Marshal.

3. Any firm that holds a license shall report, in writing, to the State Fire Marshal on or before December 31 of each year the name and certificate number of each registrant employed by the firm.

Sec. 20. NAC 477.350 is hereby amended to read as follows:

477.350 1. No fire system, device or component of any fire system may be sold, leased or installed in this State unless it is approved, labeled or listed by Underwriters Laboratories Inc., Underwriters' Laboratories of Canada, FM Global or any other testing laboratory approved by the State Fire Marshal as being qualified to test such systems or devices or, if an approved listing from a testing laboratory is not available for a system, device or a component, by the State Fire Marshal on the basis of a practical test or examination and payment of the required fee by the person who is requesting approval of the system, device or component by the State Fire Marshal.

2. In addition to other provisions of NAC 477.340 to 477.370, inclusive, fire systems must comply with:

- (a) The standards published by the ~~[N.F.P.A.] NFPA~~ and the International Code Council; and
- (b) The requirements set forth in chapter 445A of NAC.

3. Where smoke detectors are required by any statute, regulation or ordinance, evidence of approval must be furnished to the purchaser at the time of purchase or delivery. The evidence must be a listing or label from one of the approved laboratories.

4. All new structures built for residential purposes which are not otherwise required by any statute, regulation or ordinance to be equipped with smoke alarms or other fire systems must be equipped with smoke alarms that have been approved, labeled or listed by Underwriters Laboratories Inc., Underwriters' Laboratories of Canada, FM Global or any other testing laboratory approved by the authority having jurisdiction as being qualified to test smoke alarms. Such smoke alarms must be installed in accordance with the manufacturer's recommendations

and must be located in accordance with the applicable codes or standards adopted by the State Fire Marshal.

Sec. 21. NAC 477.385 is hereby amended to read as follows:

477.385 1. A firm that is licensed to install or maintain a portable fire extinguisher or fixed fire extinguishing system or sell at retail or provide as a part of other sales at retail a portable fire extinguisher or fixed fire extinguishing system for use within this State:

(a) Must be properly equipped and qualified to perform the service authorized by the type of license issued;

(b) Must provide a shop or a vehicle as a place of business, properly equipped and subject to inspection by the authority having jurisdiction; and

(c) If the firm is engaged in the installation or maintenance of fixed fire extinguishing systems, must possess a state contractor's license appropriate to the work performed as issued by the State Contractors' Board.

2. Any advertisement that the services of selling, installing, charging or testing or other maintenance of portable fire extinguishers or fixed fire extinguishing systems are available constitutes prima facie evidence that the premises, business, building, room or establishment in or upon which the advertisement appears or to which it refers is a separate location for business.

3. Licenses are classified and defined as follows:

(a) License for a public agency - Any type of license which is issued to the State or any of its agencies or political subdivisions for work to be performed by the State or that agency or political subdivision upon its own properties and for its own use. All requirements set forth in

NAC 477.300 to 477.435, inclusive, except the requirement for a license issued by the State Contractors' Board, must be met.

(b) Restricted license - A license which authorizes the holder to perform work covered by the license only upon his or her own properties and for his or her own use. All fees must be paid. Unless otherwise exempted, a valid license issued by the State Contractors' Board is required.

(c) License - A license which is required by NRS 477.033 but is issued to a business and is not restricted.

4. Licenses for the sale at retail of portable fire extinguishers must conform to ~~N.F.P.A.~~ **Standard NFPA** 10, 2018 edition, and meet the requirements for testing and listing of a nationally recognized testing laboratory.

Sec. 22. NAC 477.395 is hereby amended to read as follows:

477.395 1. Application for a license or a certificate of registration must be made on forms prescribed by the State Fire Marshal.

2. Each application must be accompanied by the required fee and contain the following information:

- (a) The name, address and telephone number of the applicant.
- (b) Fictitious names used, if any.
- (c) Proof of insurance.
- (d) The type of work performed.
- (e) The business identification number or other unique identification number assigned to the applicant by the Secretary of State, if any.
- (f) Other pertinent information required by the State Fire Marshal.

3. Upon passage of the written examination and any required practical tests or demonstrations, a certificate of registration endorsed with the type of qualification will be issued to each qualified person.

4. Information needed to pass the examination on portable fire extinguishers is found in:

(a) ~~[N.F.P.A. Standard]~~ *NFPA* 10, 2018 edition, "Standard for Portable Fire Extinguishers"; and

(b) NAC 477.380 to 477.435, inclusive.

5. Information needed to pass the examination on fixed fire extinguishing systems is found in:

(a) ~~[N.F.P.A. Standard]~~ *NFPA* 12, 2015 edition, "Standard on Carbon Dioxide Extinguishing Systems";

(b) ~~[N.F.P.A. Standard]~~ *NFPA* 12A, 2015 edition, "Standard on Halon 1301 Fire Extinguishing Systems";

(c) ~~[N.F.P.A. Standard]~~ *NFPA* 17, 2017 edition, "Standard for Dry Chemical Extinguishing Systems";

(d) ~~[N.F.P.A. Standard]~~ *NFPA* 17A, 2017 edition, "Standard for Wet Chemical Extinguishing Systems";

(e) ~~[N.F.P.A. Standard]~~ *NFPA* 96, 2017 edition, "Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations"; and

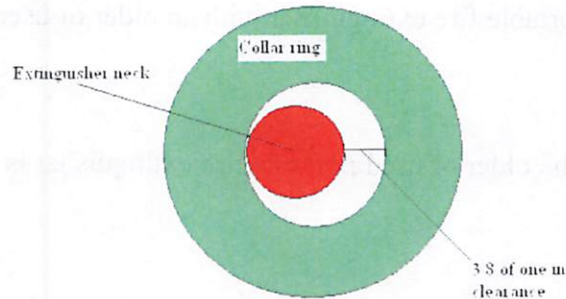
(f) ~~[N.F.P.A. Standard]~~ *NFPA* 2001, 2015 edition, "Standard on Clean Agent Fire Extinguishing Systems."

Sec. 23. NAC 477.410 is hereby amended to read as follows:

477.410 1. All installation, inspection, maintenance and repair of portable fire extinguishers and fixed fire extinguishing systems must be performed in accordance with ~~[N.F.P.A. Standard]~~ *NFPA* 10, 2018 edition, ~~[N.F.P.A. Standards]~~ *NFPA* 17 and 17A, 2017 editions, and the regulations of and statutes enforced by the State Fire Marshal.

2. Regardless of exceptions contained in the ~~[N.F.P.A.'s]~~ *NFPA's* applicable standards, the internal components of all portable fire extinguishers except carbon dioxide, wet chemical, halogenated agent, aqueous film forming foams (AFFF) and film forming fluoroprotein foam (FFFP) portable fire extinguishers must be examined at least annually and whenever the service seal has been broken or an inspection indicates that the extinguisher might fail to function.

3. For the recharging of any dry chemical type of extinguishment cylinder to be valid, the serviceperson must date and initial with a permanent marking pen on the topmost exposed portion of the pick-up tube before reassembly and recharging. The date on the pick-up tube must correspond to the date on the exterior service tag. Failure to date and initial the pick-up tube is grounds for the immediate suspension or revocation of a certificate of registration. If possible, a collar tag ring as required by ~~[N.F.P.A. Standard]~~ *NFPA* 10, 2018 edition, or an alternate collar tag ring that is approved by the State Fire Marshal must be installed at the time the extinguisher is recharged or serviced in the following manner:



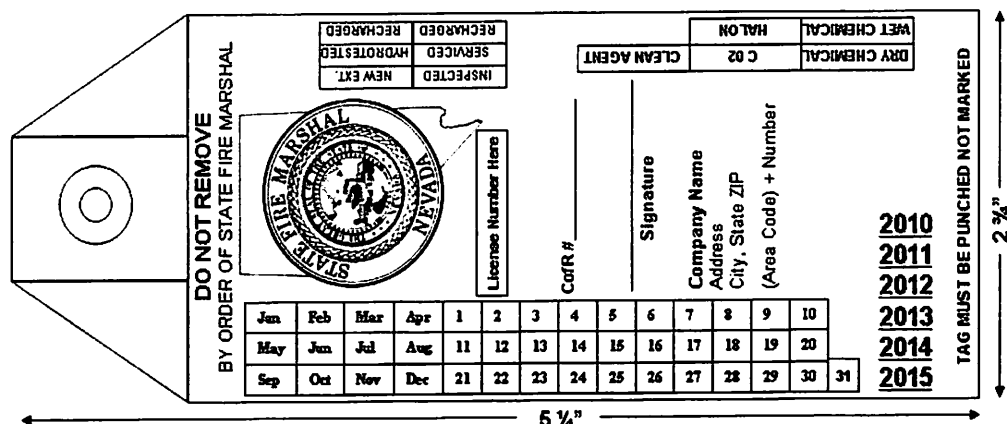
4. Nitrogen or approved dry air must be used as expellant when recharging dry chemical type extinguishers unless the manufacturer recommends otherwise.
5. Before a fire extinguishing system using a clean agent is accepted, a test as referenced in ~~[N.F.P.A. Standard]~~ *NFPA* 12A, 2015 edition, must be performed and recorded.
6. Within 30 days before the date on which an extinguisher must be serviced, the owner of a portable fire extinguisher may enter into a verbal service agreement for the service of that extinguisher.
7. When servicing portable fire extinguishers, the practice of swapping out a portable fire extinguisher is prohibited. This subsection does not prohibit a serviceperson from removing a portable fire extinguisher to make an off-site repair or to perform hydrostatic testing if the original portable fire extinguisher is returned within 3 business days after the date of removal.
8. Failure to comply with the provisions of this section by a person who holds a certificate of registration is a ground for the immediate suspension or revocation of the certificate of registration, and the person who holds the certificate of registration may be criminally or civilly liable for fraud.
9. As used in this section, "practice of swapping out" means the practice of:

- (a) Replacing a new portable fire extinguisher with an older or used portable fire extinguisher; and
- (b) Representing that the older or used portable fire extinguisher is a new portable fire extinguisher.

Sec. 24. NAC 477.425 is hereby amended to read as follows:

477.425 1. The tags used as records of service performed on portable fire extinguishers or fixed fire extinguishing systems must be at least 4 inches long and 2 inches wide and must be in the following form:

Extinguishing Systems / Extinguisher Tag



DO NOT REMOVE
BY ORDER OF STATE FIRE MARSHAL

STATE FIRE MARSHAL
NEVADA

License Number Here

Co/R #

Signature

Company Name
Address
City, State ZIP
(Area Code) + Number

| | | | | | | | | | | | | | |
|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| Jan | Feb | Mar | Apr | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| May | Jun | Jul | Aug | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| Sep | Oct | Nov | Dec | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| | | | | | | | | | | | | | 31 |

2010
2011
2012
2013
2014
2015

TAG MUST BE PUNCHED NOT MARKED

5 1/4"

2 3/4"

2. The tag must be punched to indicate the type of service which was performed on the extinguisher or system and the date on which the service was performed. Each tag must be signed with a legible signature by the holder of a certificate of registration and must be:

- (a) Attached to the extinguisher or system by wire, string or a plastic tie; or

(b) A self-adhesive tag approved by the State Fire Marshal which is so attached as to be readily visible for inspection,

➡ and such information must remain permanently on the tag. A number stamp or date stamp must not be used on the tag.

3. A label of suitable Mylar or equally durable material must be affixed by a heatless method to each shell of an extinguisher which is not listed by the United States Department of Transportation and which has passed a hydrostatic test. The label must show:

- (a) The date on which the hydrostatic test was performed;
- (b) The test pressure used; and
- (c) The name of the person licensed or certified by the State Fire Marshal which performed the test.


4. Only those labels described in ~~[N.F.P.A. Standard]~~ **NFPA** 10, 2018 edition, and in the regulations of and statutes enforced by the State Fire Marshal may be affixed to a portable fire extinguisher.

5. A sample of the tag and the label must be on file with the State Fire Marshal before they are used in the field.

6. The tag must be printed by a printing company and include the following information:

- (a) The date when the system was last serviced.
- (b) The name, address and telephone number of the company;
- (c) The number of the license issued by the State Fire Marshal; and
- (d) The name and certificate number of the person who last serviced the system.

Extinguishing Systems / Extinguisher Tag

| | | | | | | | | | | | | | | | | | |
|---|---------|--|--|---------------------------------------|---------|---------|--|---------|--|---------|--|--|--|--------------|------|--------------|-------|
| DO NOT REMOVE BY CALIFORNIA STATE FIRE MARSHAL | | <table border="1"> <tr> <td>REPAIRED</td> <td>REMARKS</td> </tr> <tr> <td>REMOVED</td> <td></td> </tr> <tr> <td>REMOVED</td> <td></td> </tr> <tr> <td>REMOVED</td> <td></td> </tr> </table> | | REPAIRED | REMARKS | REMOVED | | REMOVED | | REMOVED | | <table border="1"> <tr> <td>DRY CHEMICAL</td> <td>C 02</td> </tr> <tr> <td>WET CHEMICAL</td> <td>MALON</td> </tr> </table> | | DRY CHEMICAL | C 02 | WET CHEMICAL | MALON |
| REPAIRED | REMARKS | | | | | | | | | | | | | | | | |
| REMOVED | | | | | | | | | | | | | | | | | |
| REMOVED | | | | | | | | | | | | | | | | | |
| REMOVED | | | | | | | | | | | | | | | | | |
| DRY CHEMICAL | C 02 | | | | | | | | | | | | | | | | |
| WET CHEMICAL | MALON | | | | | | | | | | | | | | | | |
|  | | <table border="1"> <tr> <td>INSPECTED</td> <td>REMOVED</td> </tr> <tr> <td>REMOVED</td> <td></td> </tr> <tr> <td>REMOVED</td> <td></td> </tr> <tr> <td>REMOVED</td> <td></td> </tr> </table> | | INSPECTED | REMOVED | REMOVED | | REMOVED | | REMOVED | | <table border="1"> <tr> <td>CLEAN AGENT</td> <td></td> </tr> </table> | | CLEAN AGENT | | | |
| INSPECTED | REMOVED | | | | | | | | | | | | | | | | |
| REMOVED | | | | | | | | | | | | | | | | | |
| REMOVED | | | | | | | | | | | | | | | | | |
| REMOVED | | | | | | | | | | | | | | | | | |
| CLEAN AGENT | | | | | | | | | | | | | | | | | |
| <p>Impairment</p> <p>Address</p> <p>City, State</p> <p>(Area Code) + Number</p> | | <p>2012</p> <p>2013</p> <p>2014</p> <p>2015</p> <p>2016</p> <p>2017</p> | | | | | | | | | | | | | | | |
| <p>BY</p> | | <p>5 1/2"</p> | | <p>TAG MUST BE PUNCHED NOT MARKED</p> | | | | | | | | | | | | | |

--46--

the 30 calendar days expire. The tag with the word “deficiency” must be at least 4 inches long and 2 inches wide and must be in the following form:

Extinguishing Systems / Extinguisher Tag

DEFICIENCY

WET CHEMICAL
HALON
CLEAN AGENT
C 02

INSPECTED
RECHARGED
REPAIRED
HYDROTTESTED
NEWEST

Company Name
Address
City, St.
(Area Code) Phone

Signature

Date

2012
2013
2014
2015
2016
2017

May Jun Jul Aug Sep Oct Nov Dec

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

5 1/4"

2 1/4"

TAG MUST BE PUNCHED NOT MARKED

Sec. 25. NAC 477.430 is hereby amended to read as follows:

477.430 1. The installer shall submit evidence of his or her capability to repair, recharge and restore fixed fire extinguishing systems within 24 hours after notification of a fire or a fault in the system. The installer’s evidence must include a showing that the installer has:

- (a) The necessary equipment and certified personnel for the service;
- (b) Provided a letter to the State Fire Marshal stating that the installer is capable of responding to and initiating repairs of a fixed fire extinguishing system within 24 hours after notification that the system requires service;
- (c) A valid license issued by the State Contractors’ Board; and

(d) A certification and approval of a major manufacturer of fixed fire extinguishing systems which is acceptable to the State Fire Marshal.

2. Where a fixed fire extinguishing system is required by a statute, regulation or ordinance, a satisfactory written agreement for maintenance of the system must be provided. All such systems must be maintained under the supervision of qualified persons approved by the State Fire Marshal. A copy of the maintenance agreement along with proof that the firm or company providing the maintenance is adequately covered by liability insurance must be provided by the firm or company to the authority having jurisdiction and the State Fire Marshal. A tag conforming to the requirements of NAC 477.425 must be attached to all such systems. A person certified by the State Fire Marshal must be present and directly supervise whenever work is performed.

3. Detailed plans of such systems must be submitted to the authority having jurisdiction and must conform to applicable standards and meet the approval of the authority having jurisdiction. The specifications must require that a puff test of the system be performed by sending a charge of gas through the system to determine the presence of any obstructions. The test must be certified by the licensee as meeting the requirements of the standards of the ~~[N.F.P.A.] NFPA~~. That certification must be sent to the authority having jurisdiction. Plans must be drawn to an indicated scale and must be made so that they can be easily reproduced. Plans must contain sufficient detail to enable the authority having jurisdiction to evaluate the effectiveness of the system. Plans must be submitted to and approved by the authority having jurisdiction before the work starts. Where field conditions necessitate any substantial change from the approved plan, a corrected plan showing the system as actually built must be submitted, with the appropriate fee,

to the authority having jurisdiction for approval. All changes must comply with the codes and standards, and any substantial change must be submitted to the authority having jurisdiction for review and be approved by the authority having jurisdiction before such a change may be made.

4. After a fire extinguishing system has been approved and installed, a copy of the system's plans must be placed on the premises as required by the authority having jurisdiction. A fire extinguishing system installed in conformance to the requirements of the standards of the ~~[N.F.P.A.]~~ *NFPA* is not required to be updated to later revisions in the standards of the ~~[N.F.P.A.]~~ *NFPA* until the State Fire Marshal adopts those revisions by reference and the hazard which is to be protected is remodeled, removed or substantially altered.

Sec. 26. NAC 477.442 is hereby amended to read as follows:

477.442 1. An existing portable building which has only one door to the exterior must be equipped with:

- (a) A system for emergency lighting.
- (b) An automatic fire sprinkler system as required by ~~[N.F.P.A. Standard]~~ *NFPA* 13, 2016 edition, if:

- (1) The maximum legal occupancy of the building exceeds 50 persons; or
- (2) More than two portable buildings are joined together to be used for classrooms or assembly.

2. All other portable buildings must:

- (a) Be in compliance with the codes for building, fire and life safety as adopted by this chapter or by the authority having jurisdiction, whichever are more restrictive.
- (b) Be equipped with a fire extinguisher which has a minimum rating of 2A-10BC.

(c) Have an automatic and a manual fire alarm system if:

- (1) The maximum legal occupancy of the joined portable buildings exceeds 50 persons; or
- (2) Three or more portable buildings are joined together.

(d) Have all alarm signals installed and connected to a main alarm system as required by

~~N.F.P.A. Standard~~ *NFPA* 72, 2016 edition.

(e) If the portable building is part of a campus or complex for which the main alarm system is equipped with a voice evacuation system, have each alarm signal described in paragraph (d) equipped with a voice evacuation system.

(f) If smoke detectors are required, have those detectors interconnected with the fire alarm system.

(g) If the portable building is used as a classroom or for any other purpose relating to education, have and maintain plans for fire drills and evacuation, which must be posted as prescribed by NRS 392.450 or 394.170, as applicable.

3. Portable buildings discussed in subsection 2 may have an optional key controlled manual fire alarm to reduce the risk of a person operating the manual fire alarm in a manner that the State Fire Marshal determines to be illicit.

4. No change in the use of a portable building described in subsection 2 may be made until the proposed change is reviewed and approved by the authority having jurisdiction for compliance with the adopted codes or this section.

5. A system for heating, ventilating or air-conditioning which:

- (a) Is in a portable building described in subsection 2;
- (b) Can circulate more than 2,000 cubic feet of air per minute; and

(c) Shuts down automatically,

→ must be serviced quarterly. Records of the service must be maintained for 2 years for review by the authority having jurisdiction.

Sec. 27. NAC 477.455 is hereby amended to read as follows:

477.455 1. No component or device of an automatic sprinkler system may be sold, leased or installed in this State unless it has been approved, labeled or listed by Underwriters Laboratories Inc., Underwriters' Laboratories of Canada, FM Global or any other testing laboratory approved by the State Fire Marshal as qualified to test such a component or device.

2. Automatic sprinkler systems must comply with the *International Fire Code*, 2018 edition, and the following standards of the ~~N.F.P.A.:~~ **NFPA:**

(a) "Standard for the Installation of Sprinkler Systems," Standard 13, 2016 edition.

(b) "Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes," Standard 13D, 2016 edition.

(c) "Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies," Standard 13R, 2016 edition.

(d) "Standard for the Installation of Standpipe and Hose Systems," Standard 14, 2016 edition.

(e) "Standard for Water Spray Fixed Systems for Fire Protection," Standard 15, 2017 edition.

(f) "Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems," Standard 16, 2015 edition.

(g) "Standard for the Installation of Stationary Pumps for Fire Protection," Standard 20, 2016 edition.

(h) "Standard for Water Tanks for Private Fire Protection," Standard 22, 2018 edition.

(i) “Standard for the Installation of Private Fire Service Mains and Their Appurtenances,” Standard 24, 2016 edition.

(j) “Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems,” Standard 25, 2017 edition.

(k) “Standard on Water Mist Fire Protection Systems” Standard 750, 2015 edition.

Sec. 28. NAC 477.460 is hereby amended to read as follows:

477.460 1. Each automatic fire sprinkler system must be inspected quarterly. One of the quarterly inspections must be termed an annual inspection and be conducted in accordance with the provisions of subsection 2. The other quarterly visual inspections may be conducted by any responsible person, including an employee of a licensed firm, who, in the opinion of the authority having jurisdiction, has sufficient knowledge of the system to conduct such inspections. The quarterly inspections must conform to the requirements of ~~{N.F.P.A. Standard}~~ **NFPA** 13, 2016 edition, and ~~{Standard}~~ **NFPA** 25, 2017 edition. Records of inspection must be kept on-site for review by the State Fire Marshal and the authority having jurisdiction.

2. The annual inspection must be made by a qualified registrant who is an employee of a licensed firm for automatic fire sprinkler systems. The annual inspection must comply with the standards and publications described in subsection 1.

3. If a fire sprinkler system remains impaired and the licensed firm does not have the authority to correct the impairment, the word “impairment” must be written across the tag in black letters that are bold. The licensed firm must notify the property owner and the authority having jurisdiction of the impairment in writing not later than the next business day after

completing the work. A tag with the word “impairment” must be at least 4 inches long and 2 inches wide and must be in the following form:

F, G, I, J - Alarm / Sprinkler Tag

Diagram of a fire alarm/sprinkler tag. The tag is 5 1/4 inches long and 2 1/4 inches wide. It features a calendar grid at the top with months from Jan to Dec and years from 2010 to 2015. Below the calendar is a section for company information: Company Name, Address, City, State, ZIP, Area Code, and Number. To the left of this section is a circular seal with the text 'FIRE MARSHAL' and 'STATE OF CALIFORNIA'. A large, bold, black 'IMPAIRMENT' stamp is placed across the center of the tag. On the left side, there is a circular hole and the text 'DO NOT REMOVE BY ORDER OF STATE FIRE MARSHAL'. On the right side, there is a vertical line with the text 'TAG MUST BE PUNCHED NOT MARKED'.

4. If a deficiency is discovered in the fire sprinkler system, the licensed firm must notify the property owner of the deficiency in writing. The word “deficiency” must be written across the tag in black letters that are bold. Upon receiving a notice of deficiency, the property owner shall correct the deficiency within 30 calendar days of such receipt. If the property owner fails to correct the deficiency within 30 calendar days after receiving notice of the deficiency, the licensed firm must submit the notice of deficiency to the authority having jurisdiction within 2 business days after the 30 calendar days expire. The tag with the word “deficiency” must be at least 4 inches long and 2 inches wide and must be in the following form:

F, G, I, J - Alarm / Sprinkler Tag

DEFICIENCY

Diagram of an Alarm / Sprinkler Tag. Dimensions: 5 1/4" (width) x 2 1/4" (height). The tag features a calendar grid for years 2010-2015 and months Jan-Dec. It also includes fields for License Number, Code, Company Name, Address, City, State, and Area Code. A large 'DEFICIENCY' stamp is overlaid on the tag.

5. A licensed firm must give 30 calendar days' written notice to the owner, the occupant and the authority having jurisdiction before it may discontinue service to the owner or the occupant, or both.

Sec. 29. NAC 477.465 is hereby amended to read as follows:

477.465 1. The distributor, installer or agency to provide service to customers must submit evidence of its capability to repair and restore an automatic sprinkler system within 24 hours after notification of a fire or fault in the system and must repair a system within 24 hours after being notified by the owner that a system requires service. The evidence of that capability is subject to approval by the State Fire Marshal or the authority having jurisdiction. The evidence must demonstrate that the licensee has:

- (a) The necessary equipment and personnel appropriately certified by the State Fire Marshal;
- (b) The necessary stock of parts and devices;
- (c) A valid license issued by the State Contractors' Board;
- (d) If applicable, a valid state business license issued by the Secretary of State; and

(e) A certification and approval by the manufacturer from whom the equipment is purchased.

2. Where automatic sprinkler systems are installed for any reason, a satisfactory written agreement for the maintenance of the system must be provided. All systems must be under the supervision of qualified persons. No work may be performed on an automatic sprinkler system unless a holder of a certificate of registration is present to supervise the work. Proper tests and inspections must be made at prescribed intervals, and qualified persons must have general charge of all alterations and additions to the systems under their supervision. A copy of the agreement for maintenance, along with proof that the firm or company which will provide the maintenance is adequately covered by liability insurance, must be submitted by the firm or company to the State Fire Marshal or the authority having jurisdiction.

3. Detailed plans, with the appropriate fees, must be submitted to the State Fire Marshal or the authority having jurisdiction for approval. The specifications must state that the installation will conform to the applicable standards and be approved by the State Fire Marshal or the authority having jurisdiction before the sprinkler system is installed. The specifications must include the specific tests required by the ~~N.F.P.A.'s~~ *NFPA's* standards and the standards required for the approval of the State Fire Marshal or the authority having jurisdiction. Plans must be drawn to an indicated scale or be suitably dimensioned and must be made so that they can be easily reproduced. Plans must contain sufficient detail to enable the State Fire Marshal or the authority having jurisdiction to evaluate the effectiveness of the system. Plans must be submitted to the State Fire Marshal or the authority having jurisdiction before work starts. Where field conditions necessitate any substantial change from the approved plan, the corrected plan showing the system as installed, with the appropriate fees, must be submitted to the State Fire

Marshal or the authority having jurisdiction for approval. The State Fire Marshal or the authority having jurisdiction must inspect and approve any substantial changes before the job is completed. Plans must be on the job site when work is being done pursuant to the plan at that site.

4. Calculations must be established from the applicable design curve for sprinkler systems as shown in ~~[N.F.P.A. Standards]~~ **NFPA** 13 and 13R, 2016 editions. There must be not less than 10 psi additional water pressure above the system demand.

5. All hydrostatic tests of systems and flushing of underground systems must be witnessed by a representative of the State Fire Marshal or the authority having jurisdiction. All portions of the automatic fire sprinkler system, including the underground service from the gate valve, road box or check valve to the riser, must be installed, tested and flushed by a company licensed by the State Fire Marshal to perform this work. A company which holds a current Type G-U license for:

(a) Underground private fire service mains and their appurtenances may provide only the underground private fire service mains and their appurtenances from the gate valve, road box or check valve to the base of the riser or stubbed 5 feet from the base of a building. The company shall provide certification of the contractors' materials and testing to the State Fire Marshal or the authority having jurisdiction upon the completion of the work. The underground services provided and the certification to be provided to the State Fire Marshal or the authority having jurisdiction must meet the requirements of NAC 477.340 to 477.350, inclusive, and the standards of the ~~[N.F.P.A.]~~ **NFPA** for automatic fire sprinkler systems or private fire service mains and their appurtenances, as applicable.

(b) Privately owned fire hydrants may provide only the installation, maintenance, repair and servicing of privately owned fire hydrants. The licensee must also hold a valid license appropriate to the work performed, as issued by the State Contractors' Board, if the licensee installs any new privately owned fire hydrants or performs any maintenance or repair below the first 90-degree flange of a privately owned fire hydrant.

(c) Backflow may provide only the testing on backflow assemblies. The licensee must also hold a certification from the American Water Works Association or another nationally recognized certificate recognized by the State Fire Marshal.

6. Upon completing the installation of an automatic sprinkler system, the licensee shall issue a letter of certification to the authority having jurisdiction. The letter must certify that the system has been installed in accordance with the approved plans and all applicable national, state and local codes. The installer shall properly identify all hydraulically designed automatic sprinkler systems with a permanently attached placard. The placard must show the location and number of sprinkler heads and the density of discharge over the designed area.

Sec. 30. NAC 477.483 is hereby amended to read as follows:

477.483 1. A firm must be licensed by the State Fire Marshal and the State Contractors' Board to install a fire sprinkler system in any one- or two-family dwelling or mobile home.

2. The installation of a system may not begin until the plans for the job are approved by the authority having jurisdiction. An approved set of plans must be on the job site and available for inspection during all working hours.

3. A person holding a certificate of registration issued by the State Fire Marshal must be on the job site and directly supervise the installation of the system.

4. Except as otherwise provided in subsection 5, all workmanship must conform to the requirements of this chapter and the edition of ~~N.F.P.A. Standards~~ *NFPA* 13D and 13R in effect at the time of installation.

5. Each component must be installed in accordance with the requirements set forth in subsection 4 or the manufacturer's recommendations as work progresses.

6. The firm that installs the system shall:

(a) Certify, in a letter to the authority having jurisdiction, that the work meets the requirements of the edition of ~~N.F.P.A. Standards~~ *NFPA* 13D and 13R in effect at the time of installation and the requirements of the State Fire Marshal. The letter must be sent within 10 days after the completion of the job.

(b) Attach to the system a metal tag that includes the firm's name and address and the date of the installation.

7. If a manufacturer's process or listing is used for any portion of the installation, that process or listing number must be noted on the submitted plans.

Sec. 31. NAC 477.560 is hereby amended to read as follows:

477.560 In all medical facilities, custodial care facilities and restrained care facilities, a device for detection of the products of combustion, other than by detecting heat, must be installed pursuant to section 18.3.4.5 of ~~N.F.P.A. Standard~~ *NFPA* 101, 2018 edition.

Sec. 32. NAC 477.562 is hereby amended to read as follows:

477.562 1. The following requirements apply to child care facilities that require inspection and a certificate of compliance to be issued by the State Fire Marshal:

(a) Plans for the construction of new facilities or the remodeling of existing facilities, including, without limitation, plans to construct or remodel fire systems, must be submitted to the authority having jurisdiction for approval before the construction or remodeling begins.

(b) Each facility must be inspected for compliance with applicable fire and safety regulations by the State Fire Marshal before a license to operate the facility is issued. The facility must be inspected annually thereafter and have a current certificate of compliance issued by the State Fire Marshal.

(c) Smoke alarms, or if they are part of a fire alarm system, smoke detectors, approved by the State Fire Marshal must be installed pursuant to the manufacturer's instructions. In newly constructed buildings, smoke alarms or smoke detectors, as applicable, must receive their primary power from the building's wiring, with provision made for the detection of smoke during a power failure. If a smoke alarm or smoke detector powered by a battery is currently installed and it fails, the smoke alarm or smoke detector must be replaced by a smoke alarm or smoke detector which receives its primary power from the wiring of the building and has a battery as a backup source of power.

(d) The State Fire Marshal will calculate the maximum number of occupants permitted in:

- (1) A child care center based on an occupancy classification of I-4 or E.
- (2) A child care facility based on an occupancy classification of I-4 for children less than 2 1/2 years of age and R-4 for children 2 1/2 years of age or older.
- (3) A child care institution based on an occupancy classification of I-4 or E.
- (4) A family home based on an occupancy classification of R-3.

(5) A group home based on an occupancy classification of I-4 for children less than 2 1/2 years of age and R-4 for children 2 1/2 years of age or older.

(e) Smoking is prohibited in any area designated as an “E” occupancy area unless the area has specifically been designated as a smoking area by the authority having jurisdiction. Where smoking is allowed, ashtrays must be provided.

(f) All stairs must be free of obstacles and stored combustible materials. Handrails with turn-ins must be provided if there are two or more steps in any stairway.

(g) Bathroom and closet doors must open from the inside without the need for a key or any special knowledge or effort and must be able to be immediately opened from the outside with the use of an appropriate device hung or placed above or near the door.

(h) Basements in R-3 occupancies used for child care must have at least two unobstructed exits which lead directly to the outside, one of which must open directly at ground level.

(i) Portable fire extinguishers must have a minimum rating of 2A-10BC and must be mounted pursuant to the requirements of:

(1) ~~[N.F.P.A. Standard]~~ *NFPA* 10, 2018 edition, and the requirements of the International Fire Code, 2018 edition; or

(2) The authority having jurisdiction.

(j) Heaters, fireplaces or other similar devices in rooms used for child care must be protected from contact with children by a sturdy, noncombustible partition, wire screen or protective metal guard. No portable heating devices are allowed.

(k) All heating equipment and hot water heaters must be:

(1) Enclosed in a manner which prevents children from coming into contact with them;
and

(2) Secured as required by the codes and standards adopted by the State Fire Marshal.

(l) Child-resistant covers must be installed on all electrical outlets accessible to children.

(m) Wastebaskets, garbage cans and other containers used to store garbage, waste, rubbish and other combustible materials must be constructed of noncombustible materials and have a tight-fitting lid of the same material. Wastebaskets or other trash containers placed in the designated smoking areas must be constructed of noncombustible materials with a tight-fitting lid of the same material.

(n) No more than 10 gallons of flammable liquid may be stored in any area designated as an “E” area. This flammable liquid must be stored in an approved metal container and out of the reach of children.

(o) Rooms in which equipment is used or where flammable liquids, combustible dust or similar hazardous materials are handled must be separated from other portions of the building by a material which has a rating of at least 1-hour fire barrier and must conform to the requirements of the *International Building Code*, 2018 edition.

2. As used in this section:

(a) “Child care center” has the meaning ascribed to it in NAC 432A.050.

(b) “Child care facility” has the meaning ascribed to it in NAC 432A.060.

(c) “Child care institution” has the meaning ascribed to it in NAC 432A.070.

(d) “Family home” has the meaning ascribed to it in NAC 432A.100.

(e) “Group home” has the meaning ascribed to it in NAC 432A.110.

Sec. 33. NAC 477.566 is hereby amended to read as follows:

477.566 Devices for the detection of the products of combustion, other than heat, must be installed in every building which is used for the care of children. The devices must be installed in accordance with section 907.2.10 of the *International Building Code*, 2018 edition, and ~~[N.F.P.A. Standard]~~ *NFPA* 72, 2016 edition, if so required by the authority having jurisdiction.

Sec. 34. NAC 477.568 is hereby amended to read as follows:

477.568 Child care facilities which are used for child care between the hours of 12 a.m. and 6 a.m. and care for seven or more children must have an automatic sprinkler system installed which conforms to ~~[N.F.P.A. Standard]~~ *NFPA* 13, 13D or 13R, 2016 editions, as applicable, and the requirements of the *International Building Code*, 2018 edition. The automatic sprinkler system must be connected to the fire alarm system so that activation of any portion of the automatic sprinkler system will activate the fire alarm system.

Sec. 35. NAC 477.616 is hereby amended to read as follows:

477.616 1. Licenses will be issued to companies in one or more of the following categories:

(a) A general license permits the licensee to produce commercial displays of fireworks in one or more of the following categories:

- (1) Alcohol;
- (2) Indoor stage;
- (3) Liquid, other than alcohol;
- (4) Gel;
- (5) Natural gas;

- (6) Outdoor aerial;
- (7) Propane;
- (8) Solid fuels;
- (9) Special effects; or
- (10) Show specific.

➡ A general license is valid on May 1 or the date on which it is issued, whichever is later. If a licensee does not submit the renewal application and pay the renewal fee on or before April 30 of the following year, the license expires and the licensee must apply to the State Fire Marshal for an original license. If a fee for a license is not paid by the time it is due, a late charge of 12 percent per month will be assessed as an administrative fee for processing. The charge will be assessed beginning at the end of the first business day after the fee is due. A licensee may not engage in any work authorized by this chapter or chapter 477 of NRS until the fee is paid.

(b) A limited event license permits a nonprofit organization to produce a specific display of fireworks or series of displays at the time or times and location specified by the license subject to local requirements for a permit. A limited license is valid for the single event or series of events which it specifies.

(c) A nonprofit organization must obtain a limited event license (exempt) from the State Fire Marshal Division before producing a display of fireworks. The limited event license (exempt) must include a description of the event to be held which specifies the location and date of the event. The license will be issued without payment of a fee. The nonprofit organization must:

- (1) Show evidence of valid insurance which covers the event or series of events;

(2) Require that all persons who participate in producing the display or series of displays complete a written test approved by the State Fire Marshal or work under the direct supervision of a certified pyrotechnic operator; and

(3) Obtain a certificate of registration for the person who will be responsible for the show and the safety of the participants and spectators.

2. A license issued in one of these categories does not permit the licensee to engage in activities permitted by another, more general, category.

3. In producing a commercial display of fireworks or flame effects, a licensee must:

(a) Obtain any permit or permits required by local authority;

(b) Employ only pyrotechnic operators who are registered with the State Fire Marshal to conduct the display or discharge of the fireworks or flame effects; and

(c) Wear proper safety attire at all times pursuant to ~~N.F.P.A.~~ *NFPA* 1123, 2018 edition.

Sec. 36. NAC 477.622 is hereby amended to read as follows:

477.622 1. Before a person may act as an assistant pyrotechnic operator, the person must obtain a certificate of registration as an assistant pyrotechnic operator from the State Fire Marshal. To receive a certificate of registration as an assistant pyrotechnic operator, an applicant must:

(a) Be a natural person who is at least 21 years of age;

(b) Make an application for such a certificate of registration to the State Fire Marshal on a form provided by the State Fire Marshal;

(c) Pass a written test based on the content of this chapter and ~~[N.F.P.A. Standard]~~ *NFPA* 1123, 2018 edition, ~~[N.F.P.A. Standard]~~ *NFPA* 1124, 2017 edition, ~~[and N.F.P.A. Standard]~~ *NFPA* 1126, 2016 edition;

(d) Submit to the State Fire Marshal:

(1) Letters of endorsement from two persons who hold certificates of registration as a pyrotechnic operator issued by the State Fire Marshal; and

(2) A letter from the company which employs the applicant stating that the applicant has worked for the company for at least 90 days or is licensed or certified as an assistant pyrotechnic operator in good standing by another state recognized by the State Fire Marshal; and

(e) Pay an initial fee of \$31.

2. A person who holds a certificate of registration as an assistant pyrotechnic operator may load, build and pack any product used in pyrotechnic effects only under the direct supervision of a holder of a certificate of registration as a pyrotechnic operator.

3. A certificate of registration is valid on May 1 or the date on which it is issued, whichever is later. If the holder of a certificate of registration does not submit the renewal application and pay the renewal fee on or before April 30 of the following year, the certificate of registration expires and the person must apply to the State Fire Marshal for an original certificate of registration.

Sec. 37. NAC 477.624 is hereby amended to read as follows:

477.624 1. Before a person may act as a pyrotechnic operator, the person must obtain a certificate of registration as a pyrotechnic operator from the State Fire Marshal. To receive a certificate of registration as a pyrotechnic operator, an applicant must:

- (a) Be a natural person who is at least 21 years of age;
- (b) Make an application for such a certificate of registration to the State Fire Marshal on a form provided by the State Fire Marshal and pay a fee of \$55;
- (c) Hold a certificate of registration as an assistant pyrotechnic operator issued by the State Fire Marshal, or be licensed or certified in good standing as a pyrotechnic operator by another state, as approved by the State Fire Marshal;
- (d) Pass, with a score of at least 75 percent, a written examination that is based on the content of this chapter, ~~[N.F.P.A. Standard]~~ *NFPA* 1123, 2018 edition, ~~[N.F.P.A. Standard]~~ *NFPA* 1124, 2017 edition, and ~~[N.F.P.A. Standard]~~ *NFPA* 1126, 2016 edition; and
- (e) Submit to the State Fire Marshal:
 - (1) A log which demonstrates that the applicant has worked on at least 15 different shows during the 3 years immediately preceding the date on which he or she applies for the certificate of registration as a pyrotechnic operator;
 - (2) Letters of endorsement from two persons who hold certificates of registration as a pyrotechnic operator issued by the State Fire Marshal; and
 - (3) A letter from the company which employs the applicant stating that the applicant has worked for the company for at least 90 days or is licensed or certified as a pyrotechnic operator in good standing by another state recognized by the State Fire Marshal.

2. A certificate of registration is valid on May 1 or the date on which it is issued, whichever is later. If the holder of a certificate of registration does not submit the renewal application and pay the renewal fee on or before April 30 of the following year, the certificate of registration

expires and the person must apply to the State Fire Marshal for an original certificate of registration.

Sec. 38. NAC 477.631 is hereby amended to read as follows:

477.631 1. Before a person may act as a flame effects assistant to provide flame effects before an audience, the person must obtain a certificate of registration as a flame effects assistant from the State Fire Marshal.

2. An applicant for a certificate of registration as a flame effects assistant must:

- (a) Be a natural person who is at least 21 years of age;
- (b) Make an application on the form provided, including the application fee of \$31;
- (c) Indicate on the application which category of certificate the applicant wishes to obtain, such as natural gas, propane, alcohol, liquid other than alcohol, solids or gel, and include the appropriate fee for that category;
- (d) Successfully pass, with a score of at least 75 percent, a preliminary written examination which includes questions concerning basic safety from ~~N.F.P.A.~~ **NFPA** 160, 2016 edition, and this chapter;
- (e) Include with the application letters of endorsement from two persons who hold a certificate of registration as a flame effects operator issued by the State Fire Marshal; and
- (f) Include with the application a letter from the company which employs the applicant stating that the applicant has worked for the company for at least 90 days or is licensed or certified as a flame effects assistant in good standing by another state recognized by the State Fire Marshal.

3. A certificate of registration is valid on May 1 or the date on which it is issued, whichever is later. If the holder of a certificate of registration does not submit the renewal application and pay the renewal fee on or before April 30 of the following year, the certificate of registration expires and the person must apply to the State Fire Marshal for an original certificate of registration.

Sec. 39. NAC 477.661 is hereby amended to read as follows:

477.661 1. No person may:

(a) Use or discharge:

(1) A special effect or firework unless the person is a pyrotechnic operator certified by the State Fire Marshal.

(2) A firework of any class or type within 100 feet of stored gasoline or other flammable liquid which is listed as Class I in ~~N.F.P.A. Standard~~ NFPA 30, 2018 edition, or any other combustible material.

(b) Display or discharge a firework or display flame effects at a commercial display of fireworks or flame effects in such a manner as to endanger any person or in a county where such commercial displays are prohibited.

(c) Discharge fireworks of any class in a county where the discharge of the fireworks is prohibited.

2. If the authority having jurisdiction believes that fireworks or flame effects which create an imminent danger to life or property will be discharged or displayed in violation of this section, the authority having jurisdiction may, without notice, seize the fireworks or materials, devices, equipment and systems used with the flame effects.

3. The authority having jurisdiction will take and retain possession of fireworks seized in accordance with this section and materials, devices, equipment and systems used with the flame effects seized in accordance with this section during any judicial or administrative proceedings involving the fireworks, materials, devices, equipment or systems and will, upon conclusion of the proceedings, destroy them or return them to the person from whom they were seized as directed in such proceedings.

4. Any person whose fireworks or materials, devices, equipment and systems used with the flame effects are adjudged in any judicial or administrative proceeding to be hazardous will be charged with the expenses incurred in the seizure, transportation, storage and disposal of those fireworks, materials, devices, equipment or systems. This charge constitutes a debt and is collectible by any agency of the State or any of its political subdivisions incurring any such expense in the same manner as if it is an obligation under an express or implied contract.

Sec. 40. NAC 477.663 is hereby amended to read as follows:

477.663 1. No person may maintain or permit the existence of a fire hazard at any location under the person's control where fireworks, flame effects or pyrotechnic compositions are displayed, discharged or stored.

2. A permit issued by the State Fire Marshal is required for the storage of fireworks classified as Division 1.3G, Division 1.4G or Division 1.4S by 18 U.S.C. §§ 841 et seq. and ~~[N.F.P.A. Standard]~~ **NFPA** 1124, 2017 edition, except for:

(a) Fireworks classified as consumer fireworks that are stored at a retail outlet building for sale as approved by the State Fire Marshal or pursuant to a permit issued by the State Fire

Marshal after an inspection of the site is made. As used in this paragraph, “building” means any structure utilized or intended for supporting or sheltering any occupancy.

(b) Fireworks for public display or special effects stored at the site of firing for immediate use.

(c) Storage of material for special effects which weighs less than 10 pounds.

3. Fees for permits for storage that are required pursuant to subsection 2 are as follows:

(a) A building for permanent or temporary storage\$250

(b) Type 1 magazine.....250

(c) Type 2, 3 or 4 magazine132

4. Fireworks must be stored in compliance with the requirements of the *International Building Code*, 2018 edition, the *International Fire Code*, 2018 edition, ~~[N.F.P.A. Standard]~~ *NFPA* 1124, 2017 edition. Material for special effects which weighs less than 750 pounds may be stored in a single-story structure which is fully equipped with fire sprinklers and which otherwise conforms to the requirements for a Type V-A rated building as described in the *International Building Code*, 2018 edition. Material for special effects which weighs 750 pounds or more must be stored in a magazine approved for that purpose.

5. The State Fire Marshal will, as he or she determines necessary, inspect each site used for storage of fireworks to determine if the fireworks are stored properly according to their class or type.

Sec. 41. NAC 477.680 is hereby amended to read as follows:

477.680 No person may sell or offer for sale any portable container for use in the storage or transportation of Class I or Class II flammable or combustible liquids unless the container complies with ~~N.F.P.A. Standard~~ *NFPA* 30, 2018 edition.

Sec. 42. NAC 477.750 is hereby amended to read as follows:

477.750 1. Any plans and specifications submitted to the State Fire Marshal for review must be accompanied by the appropriate fee based upon the proposed cost of construction or if a bid is accepted, the actual bid, according to the following:

| Valuation | Fee | Valuation | Fee |
|---------------------|---------|--------------------|--------|
| \$1-4,000 | \$87.78 | 14,001-15,000..... | 179.12 |
| 4,001-5,000 | 94.78 | 15,001-16,000..... | 187.44 |
| 5,001-6,000 | 103.22 | 16,001-17,000..... | 195.89 |
| 6,001-7,000 | 111.67 | 17,001-18,000..... | 204.34 |
| 7,001-8,000 | 120.12 | 18,001-19,000..... | 211.46 |
| 8,001-9,000 | 128.57 | 19,001-20,000..... | 221.23 |
| 9,001-10,000 | 136.96 | 20,001-21,000..... | 229.68 |
| 10,001-11,000 | 145.33 | 21,001-22,000..... | 238.13 |
| 11,001-12,000 | 153.78 | 22,001-23,000..... | 246.44 |
| 12,001-13,000 | 162.23 | 23,001-24,000..... | 254.89 |
| 13,001-14,000 | 170.68 | 24,001-25,000..... | 263.34 |

| Valuation | Fee | Valuation | Fee |
|---------------------|--------|---------------------|--------|
| 25,001-26,000 | 269.41 | 44,001-45,000 | 384.12 |
| 26,001-27,000 | 275.48 | 45,001-46,000 | 390.19 |
| 27,001-28,000 | 281.42 | 46,001-47,000 | 396.26 |
| 28,001-29,000 | 287.50 | 47,001-48,000 | 402.20 |
| 29,001-30,000 | 292.78 | 48,001-49,000 | 404.28 |
| 30,001-31,000 | 299.64 | 49,001-50,000 | 414.35 |
| 31,001-32,000 | 305.58 | 50,001-51,000 | 418.57 |
| 32,001-33,000 | 311.65 | 51,001-52,000 | 422.80 |
| 33,001-34,000 | 317.72 | 52,001-53,000 | 427.02 |
| 34,001-35,000 | 323.80 | 53,001-54,000 | 431.24 |
| 35,001-36,000 | 329.74 | 54,001-55,000 | 435.34 |
| 36,001-37,000 | 335.81 | 55,001-56,000 | 439.56 |
| 37,001-38,000 | 341.88 | 56,001-57,000 | 443.78 |
| 38,001-39,000 | 347.95 | 57,001-58,000 | 448.01 |
| 39,001-40,000 | 353.89 | 58,001-59,000 | 452.23 |
| 40,001-41,000 | 359.96 | 59,001-60,000 | 456.46 |
| 41,001-42,000 | 366.04 | 60,001-61,000 | 460.68 |
| 42,001-43,000 | 372.11 | 61,001-62,000 | 464.90 |
| 43,001-44,000 | 378.05 | 62,001-63,000 | 469.13 |

| Valuation | Fee | Valuation | Fee |
|---------------------|--------|---------------------|--------|
| 63,001-64,000 | 473.35 | 82,001-83,000..... | 561.79 |
| 64,001-65,000 | 477.58 | 83,001-84,000..... | 566.02 |
| 65,001-66,000 | 481.80 | 84,001-85,000..... | 570.24 |
| 66,001-67,000 | 485.89 | 85,001-86,000..... | 574.46 |
| 67,001-68,000 | 490.12 | 86,001-87,000..... | 578.69 |
| 68,001-69,000 | 494.34 | 87,001-88,000..... | 582.91 |
| 69,001-70,000 | 498.56 | 88,001-89,000..... | 587.14 |
| 70,001-71,000 | 507.01 | 89,001-90,000..... | 591.36 |
| 71,001-72,000 | 511.24 | 90,001-91,000..... | 595.45 |
| 72,001-73,000 | 515.46 | 91,001-92,000..... | 599.68 |
| 73,001-74,000 | 519.68 | 92,001-93,000..... | 603.90 |
| 74,001-75,000 | 523.91 | 93,001-94,000..... | 608.12 |
| 75,001-76,000 | 528.13 | 94,001-95,000..... | 612.35 |
| 76,001-77,000 | 532.36 | 95,001-96,000..... | 616.57 |
| 77,001-78,000 | 536.58 | 96,001-97,000..... | 620.80 |
| 78,001-79,000 | 540.67 | 97,001-98,000..... | 625.02 |
| 79,001-80,000 | 549.12 | 98,001-99,000..... | 629.24 |
| 80,001-81,000 | 553.34 | 99,001-100,000..... | 633.47 |
| 81,001-82,000 | 560.21 | | |

2. If the proposed cost or bid is more than \$100,000 but less than \$500,000, the fee is \$633.47 for the first \$100,000 plus \$3.22 for each additional \$1,000 or fraction thereof of the proposed cost or bid.

3. If the proposed cost or bid is \$500,000 or more but less than \$1,000,000, the fee is \$1,931 for the first \$500,000 plus \$2.84 for each additional \$1,000 or fraction thereof of the proposed cost or bid.

4. If the proposed cost or bid is \$1,000,000 or more, the fee is \$3,337.10 for the first \$1,000,000 plus \$1.65 for each additional \$1,000 or fraction thereof of the proposed cost or bid.

5. If a conference is required for any given project, a fee will be charged at the rate of \$66 per hour or any fraction thereof, for each person from the *Office of the State Fire Marshal's Office* ~~Marshal's Office~~ *Marshal* required to attend the conference.

6. If an agreement is reached by a local government and the State Fire Marshal whereby the process for review of the plans is delegated to the local authority, the local authority may use the schedule of fees set forth in this section or a schedule of fees which has been approved by the local authority.

7. If a review of plans by a local government waives or grants a variance of a minimum standard established by the State Fire Marshal or otherwise requires review by the State Fire Marshal, the local government shall require the plans to be submitted to the State Fire Marshal for review. The State Fire Marshal will charge the person on whose behalf the plans are submitted a fee of \$66 per hour for each person who participates in the review. The State Fire

Marshal will notify the local government of his or her approval or disapproval of the plans upon completion of his or her review.

Sec. 43. NAC 477.770 is hereby amended to read as follows:

477.770 1. A license must be obtained from the State Fire Marshal to service and clean Type 1 exhaust system grease ducts. A Type 1 exhaust system grease duct has the meaning ascribed to it in the *National Fire Codes*.

2. To obtain a license to service and clean a Type 1 exhaust system grease duct, an applicant must:

- (a) Submit an application;
- (b) Provide a sample stick-on label to be approved by the State Fire Marshal Division pursuant to NAC 477.790; and

- (c) Pay the applicable fee.

3. To obtain a certificate of registration to service and clean a Type 1 exhaust system grease duct an applicant must:

- (a) Pass an examination administered by the State Fire Marshal, with a score of at least 75 percent;
- (b) Submit an application;
- (c) Pay the applicable fee;
- (d) Submit a letter from the company which employs the applicant stating that the applicant works for the company and has knowledge of cleaning a hood and duct system; and

(e) Establish that the applicant has read and understands ~~N.F.P.A. Standard~~ *NFPA* 96, 2017 edition, section 11.4, and the applicable provisions of this chapter, and is properly equipped to service and clean Type 1 exhaust system grease ducts.

4. A licensed firm that has obtained a license from the State Fire Marshal to service and clean Type 1 exhaust system grease ducts must also be licensed to do business in the city or county in which it is providing this service.

5. Employees of the licensed firm who are not certified may be allowed to assist in the servicing and cleaning of Type 1 exhaust systems if a person certified by the State Fire Marshal is on the premises and directly supervises such work at all times and the certificate of inspection and maintenance is filled out by that certified person who will accept responsibility for the work.

Sec. 44. NAC 477.780 is hereby amended to read as follows:

477.780 1. A copy of the cleaning contract and cleaning reports for a Type 1 exhaust system must be maintained at the site where the exhaust system is located and made available to the authority having jurisdiction upon request.

2. After inspecting or cleaning a Type 1 exhaust system, a copy of a report describing any deficiencies found in the system or a notice that service was refused or was extended beyond the limitations of the contract must be sent to the authority having jurisdiction by the close of business the next business day. A report describing any deficiencies must specify all deficiencies that were not corrected during the servicing of the system, including, but not limited to:

- (a) Excessive grease;
- (b) Inaccessible areas;
- (c) Access panels which do not comply with code specifications;

(d) Fans that are not commercial or cleanable; and

(e) Missing filters.

↪ The report must be signed by a person representing the owner of the system.

3. When grease or other residues are present within the hood, ducts or devices for the removal of grease, the system must be cleaned in accordance with ~~[N.F.P.A. Standard]~~ **NFPA** 96, 2017 edition, section 11.4.

4. If a cleaning contract expires or if a company chooses not to extend a cleaning contract, the licensee must provide written notice to the authority having jurisdiction not later than the close of business the next business day after the contract expires or is not extended.

Sec. 45. NAC 477.810 is hereby amended to read as follows:

477.810 1. Fire standpipe systems must be inspected annually by a person certified by the State Fire Marshal for fire standpipe systems who works for a firm licensed by the State Fire Marshal to service fire standpipe systems. The annual inspection must conform to the requirements of ~~[N.F.P.A.]~~ **NFPA** 25, 2017 edition.

2. A copy of the annual inspection report must be maintained on-site or electronically and sent to the owner.

3. If an inspection indicates that additional work is required on a fire standpipe system in order to have the system conform to code requirements, the licensed firm must notify the owner and the authority having jurisdiction of the impairment in writing not later than the next business day after the day of the inspection. A tag must be properly signed, punched and attached. The word "impairment" must be written across the bottom of the tag in black letters that are bold.

4. If an inspection discovers a deficiency in the fire standpipe system, the licensed firm must notify the owner of the deficiency in writing. Upon receiving a notice of deficiency, the owner shall correct the deficiency within 30 calendar days of such receipt. If the owner fails to correct the deficiency within 30 calendar days after receiving notice of the deficiency, the licensed firm must notify the owner and the authority having jurisdiction in writing not later than the next business day after the day the person conducting the inspection determines that the deficiency was not corrected as required.

5. Before hydrostatic tests may be conducted on a fire standpipe system, the installer of the fire standpipe system must notify the authority having jurisdiction in such a manner as to provide the authority having jurisdiction with sufficient time to schedule an appointment so that the authority having jurisdiction can be present when the hydrostatic tests are conducted on the fire standpipe system. Tests must be certified by the licensee as meeting code requirements and a copy of that certification must be maintained on-site. A copy of a report describing any deficiencies in the systems found during the testing must be sent to the authority having jurisdiction.

6. The installer of a fire standpipe system shall place a metal tag on the control valve for the system which states the name of the installing company and the date of the installation.

7. Any work done on the system must be done under the supervision of a person who has a certificate of registration for that work. At the conclusion of the service, test, inspection or installation, the person holding a certificate of registration shall sign and place an approved tag on the system control riser. The tag must be punched in an approved manner to indicate the type of service performed on the system and the date it was performed.

Sec. 46. NAC 477.905 is hereby amended to read as follows:

477.905 For the purposes of the National Fire Incident Reporting System to be put into effect throughout this State as required by NRS 477.030:

1. All local fire jurisdictions in this State ~~{shall}~~ *may* report to the United States Fire Administration of the Federal Emergency Management Agency such data required to publish a summary of fire incident information that is compatible with the National Fire Incident Reporting System. ~~{Each local fire jurisdiction may designate one or more representative who complies with the reporting requirements of this section on behalf of the local fire jurisdiction.}~~
2. The State Fire Marshal will ~~{ensure that}~~ *encourage* the local fire jurisdictions *to* report the data to the United States Fire Administration of the Federal Emergency Management Agency pursuant to subsection 1. Because the State of Nevada has been designated as an “all-incident reporting state,” local fire jurisdictions ~~{shall}~~ *may* report their statistics at least every quarter and not later than February 1 of the following year.
3. A local fire jurisdiction that is facing technical difficulties in providing information pursuant to this section will receive assistance from the State Program Manager for the National Fire Incident Reporting System within the State Fire Marshal Division.
4. A local fire jurisdiction may use computer-aided programs in reporting its information if the programs have been certified for such use by the United States Fire Administration. A local fire jurisdiction that uses ~~{~~
~~—(a) A}~~ *a* third-party data integration system that has been certified by the United States Fire Administration shall ensure that the system connects to the Bulk Import Utility found on the

Internet website of the National Fire Incident Reporting System or has the ability to upload data manually for the local fire jurisdiction.

~~{(b) A data integration system that has been certified by the United States Fire Administration shall report at least every quarter and not later than February 1 of the following year to the United States Fire Administration pursuant to subsection 1.}~~

5. A local fire jurisdiction ~~{shall}~~ *may* notify the State Fire Marshal of any changes with regard to the creation, alteration of boundaries or dissolution of a fire department within the local fire jurisdiction to ensure continuity of data for the National Fire Incident Reporting System.

6. The State Program Manager for the National Fire Incident Reporting System within the State Fire Marshal Division will release at least every quarter all the data submitted to the United States Fire Administration for this State for the purposes of publishing the report described in subsection 7.

7. Based on the data released pursuant to subsection 6, the State Fire Marshal will publish the annual report of the State's fire statistics not later than April 15 of the following year and ~~{provide}~~ *post* a copy of the report ~~{, at no charge,}~~ to the ~~{~~:

~~—(a) Governor;~~

~~—(b) Director of the Department of Public Safety; and~~

~~—(c) All local fire jurisdictions in this State.}~~ *Internet website of the State Fire Marshal.*

Sec. 47. NAC 477.020, 477.070, 477.080, 477.090, 477.225 and 477.245 are hereby repealed.

TEXT OF REPEALED SECTIONS

477.020 “Alarm service” defined. (NRS 477.030) “Alarm service” means the service required following:

1. The manual operation of a fire alarm box;
2. The transmission of an alarm indicating the operation of protective equipment or systems, the discharge of carbon dioxide or the detection of smoke or excessive heat; or
3. The transmission of an alarm from other protective systems.

477.070 “Chief” defined. (NRS 477.030) “Chief” means the chief officer of the fire department serving a jurisdiction or his or her authorized representative.

477.080 “Combination paging alarm system” defined. (NRS 477.030) “Combination paging alarm system” means a fire alarm system designed to provide a general fire alarm and voice communication. The system may be used in whole or in part in common with another signaling system such as voice page or a musical program system if all components are of a type approved by the State Fire Marshal and the nonemergency system does not degrade the alarm and paging functions of the system.

477.090 “Dry system” defined. (NRS 477.030) “Dry system” means a sprinkler system employing automatic sprinklers attached to a piping system containing air or inert gas under atmospheric or higher pressures in which loss of pressure from the opening of a sprinkler or detection of a fire condition causes the release of water into the piping systems and out through the opened sprinkler.

477.225 “Supervisory service” defined. (NRS 477.030) “Supervisory service” means the service required to assure the operating condition of automatic sprinkler systems and other systems for the protection of life and property.

477.245 “U.L.” defined. (NRS 477.030) “U.L.” means Underwriters Laboratories Inc.

LEGISLATIVE REVIEW OF ADOPTED REGULATIONS AS REQUIRED BY

NRS 233B.066

LCB FILE R048-24

The following statement is submitted for adopted amendments to Nevada
Administrative Code (NAC) 477

1. **A clear and concise explanation of the need for the adopted regulation.**
 - A. Periodic updating of the editions of codes and standards as required by NRS 477.030(1) to allow for new technologies, techniques and materials in construction.
 - B. Periodic, comprehensive review and updating, in accordance with NRS 233B.050(1)(e), to the State Fire Marshal Division's regulation in NAC Chapter 477 to comply with existing statute and industry practices, remove outdated requirements and correct spelling and other language issues found during the review. The adopted regulation establishes certain requirements relating to the inspection of a fire damper, smoke damper or combination fire and smoke damper, smoke control system, Type 1 exhaust system and associated ventilation systems. This amendment also revises requirements for submitting certain data for the National Fire Incident Reporting System.
2. **A description of how public comment was solicited, a summary of public response, and an explanation how other interested persons may obtain a copy of the summary.**

Copies of the proposed regulations, notices of workshop and notices of intent to act upon the regulation were sent by U.S. mail and email to persons who were known to have an interest in the subject matter as well as any persons who had specifically requested such notice. These documents were also made available at the website of the State Fire Marshal Division, www.fire.nv.us, mailed to all County libraries in Nevada and posted at the following locations: (see Exhibit "A" attached for posting locations) Other interested parties may obtain a copy of the summary by either visiting the state fire marshal website to download the summary or request a copy of the summary directly to the State Fire Marshal.

A workshop was held in conjunction with a meeting to provide advice on the subject matter established pursuant to NAC 477 on December 5, 2023 and the minutes of that meeting, attached hereto as Exhibit "B", contain a summary of the discussion

held regarding the proposed amendments. There were no proposed amendments. Thereafter, on or about June 17, 2024, the State Fire Marshal Division issued a Notice of Intent to Act Upon a Regulation

3. The number of persons who:

- (a) Attended the Workshop on December 5, 2023 – 15**
- (b) Attended the Notice of Public Hearing on July 31, 2024 - 11**
- (c) Testified at the Workshop on December 5, 2023 – 0**
- (d) Testified at the Notice of Public Hearing on July 31, 2024 - 0**
- (e) Submitted to the Agency written comments: No written comments were submitted.**

A list of names and contact information, including telephone number, business address, business telephone number, electronic mail address, and name of entity or organization represented, for each person identified above in #3, as provided to the Agency is attached as Exhibit "C".

4. A description of how comment was solicited from affected businesses, a summary of their response, and an explanation how other interested persons may obtain a copy of the summary.

Comments were solicited from affected businesses in the same manner as they were solicited from the public. The summary may be obtained as instructed in the response to question #1.

5. If the regulation was adopted without changing any part of the proposed regulation, a summary of the reasons for adopting the regulation without change.

The regulation was adopted on July 31, 2024 by the State Fire Marshal without change. There was no change to the regulation as industry was in favor of the requirements relating to the inspection of a fire damper, smoke damper or combination fire and smoke damper, smoke control system, Type 1 exhaust system and associated ventilation systems. Also, there was no opposition to the change in reporting requirements to the National Fire Incident Reporting System.

6. The estimated economic effect of the adopted regulation on the businesses which it is to regulate and on the public. These must be stated separately, and each case must include:

- (a) Both adverse and beneficial effects; and**
- (b) Both immediate and long-term effects.**

(a) Both adverse and beneficial effects

There are no expected adverse or beneficial effects on business.

(b) Both immediate and long-term effects

There are no known immediate or long-term effects on business.

7. The estimated cost to the Agency for enforcement of the adopted regulation.

There is no additional cost to the Agency for enforcement of this adopted regulation.

8. A description of any regulations of other State or Government agencies which the proposed regulation overlaps or duplicates and a statement explaining why the duplication or overlapping is necessary. If the regulation overlaps or duplicates a Federal regulation, the name of the regulating Federal agency.

There are no other State or Government agency regulations that the proposed regulation duplicates.

9. If the regulation includes provisions that are more stringent than a Federal regulation which regulates the same activity, a summary of such provisions.

There are no Federal regulations that apply.

10. If the regulation provides a new fee or increases an existing fee, the total annual amount the agency expects to collect and the manner in which the money will be used.

This regulation does not provide a new fee or increase in an existing fee.