

# PROPOSED REGULATION OF THE STATE FIRE MARSHAL

## LCB File No. R090-10

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

**Chapter 477.010 of the NAC is hereby amended by adding thereto a new section to read as follows:**

*“Active Supervision” defined. “Active Supervision” means to be in the direct vicinity where licensed work by non-cardholders is being performed and have the ability to physically see the work being performed.*

*“Brothel” defined. “Brothel” as a legal house of prostitution.*

*“Fire Hydrant” defined. “Fire Hydrant” means a valve connection on a water supply system having one or more outlets and that is used to supply hose and fire department pumpers with water.*

*“International Wildland-Urban Interface Code” defined. “International Wildland-Urban Interface Code” means the code published by the International Code Council.*

**NAC 477.281 is hereby amended to read as follows:**

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, 2006 edition. A copy is available from the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois 60478-5795, or from the International Code Council at the Internet address <<http://www.iccsafe.org/e/category.html>> , at the price of ~~\$61.50~~ ~~[\$53]~~ for members and ~~\$82~~ ~~[\$70]~~ for nonmembers, plus \$5.99 for shipping and handling.

(b) International Building Code, 2006 edition. A copy is available from the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois 60478-5795, or from the International Code Council at the Internet address <http://www.iccsafe.org/e/category.html> , at the price of ~~\$75~~ ~~[\$65]~~ for members, plus \$5.99 for shipping and handling, and ~~\$100~~ ~~[\$86]~~ for nonmembers, plus \$6.99 for shipping and handling.

*( ) International Wildland-Urban Interface Code, 2009 edition. A copy is available from the International Code Council, 4051 West Flossmoor Road, Country Club Hills, Illinois 60478-5795, or from the International Code Council at the Internet address <http://www.iccsafe.org/e/category.html> , at the price of \$32.00 for members, plus \$5.99 for shipping and handling, and \$42.75 for nonmembers, plus \$6.99 for shipping and handling.*

(c) Uniform Mechanical Code, 2006 edition. A copy is available from the International Association of Plumbing and Mechanical Officials, 5001 East Philadelphia Street, Ontario, California 91761-2816, or from the International Association of Plumbing and Mechanical Officials at the Internet address <<http://publications.iapmo.org>> , at the price of ~~\$93~~ ~~[\$64 for members and \$89 for nonmembers]~~, plus \$8 for shipping and handling

*( ) Uniform Plumbing Code, 2006 edition. A copy is available from the International Association of Plumbing and Mechanical Officials, 5001 East Philadelphia Street, Ontario, California 91761-2816, or from the International Association of Plumbing and Mechanical Officials at the Internet address <http://publications.iapmo.org>, at the price of \$103.00, plus \$8.00 for shipping and handling.*

2. In addition to the codes adopted pursuant to subsection 1, the State Fire Marshal hereby adopts by reference codes and standards Appendix B, C and F of the International Fire Code, ~~2006~~ **2010** edition, and the following codes and standards from the National Fire Protection Association

- ( ) NFPA 150, 2009 edition, which is available for the price of \$37.00*
- ( ) N.F.P.A 1124, 2006 edition, which is available for the price of \$40.50*
- ( ) N.F.P.A. 16, 2007 edition which is available for the price of \$37.00*
- ( ) N.F.P.A. 45, 2004 edition which is available for the price of \$40.50*
- ( ) N.F.P.A 55, 2010 edition which is available for the price of \$47.50*
- ( ) N.F.P.A. 80, 2010 edition which is available for the price of \$40.50*
- ( ) N.F.P.A 80 a, 2007 edition which is available for the price of \$31.50*
- ( ) N.F.P.A. 102, 2006 edition which is available for the price of \$31.50*
- ( ) N.F.P.A. 130, 2010 edition which is available for the price of \$40.50*
- ( ) N.F.P.A. 415, 2008 edition which is available for the price of \$31.50*
- ( ) N.F.P.A. 430, 2010 edition which is available for the price of \$42.75*
- ( ) N.F.P.A. 750, 2010 edition which is available for the price of \$40.50*
- ( ) N.F.P.A. 909, 2010 edition which is available for the price of \$47.50*
- ( ) N.F.P.A. 914, 2007 edition which is available for the price of \$58.00*
- ( ) N.F.P.A. 1194, 2008 edition which is available for the price of \$37.00*
- (a) N.F.P.A. 10, ~~2002~~ **2010** edition, which is available for the price of \$38.00;
- (b) N.F.P.A. 11, ~~2002~~ **2010** edition, which is available for the price of \$38.00;
- (c) N.F.P.A. 12, ~~2000~~ **2008** edition, which is available for the price of \$38.00;
- (d) N.F.P.A. 12A, ~~2004~~ **2009** edition, which is available for the price of \$38.00;
- (e) N.F.P.A. 13, ~~2002~~ **2010** edition, which is available for the price of \$72.00;
- (f) N.F.P.A. 13D, ~~2002~~ **2010** edition, which is available for the price of \$34.50;
- (g) N.F.P.A. 13R, ~~2002~~ **2010** edition, which is available for the price of \$34.50;
- (h) N.F.P.A. 14, ~~2003~~ **2010** edition, which is available for the price of \$34.50;
- (i) N.F.P.A. 15, ~~2001~~ edition, which is available for the price of \$38.00;
- (j) N.F.P.A. 17, ~~2002~~ **2009** edition, which is available for the price of \$34.50;
- (k) N.F.P.A. 17A, ~~2002~~ **2009** edition, which is available for the price of \$29.00;
- (l) N.F.P.A. 20, ~~2003~~ **2010** edition, which is available for the price of \$38.00;
- (m) N.F.P.A. 22, ~~2003~~ **2008** edition, which is available for the price of \$38.00;
- (n) N.F.P.A. 24, ~~2002~~ **2010** edition, which is available for the price of \$34.50;
- (o) N.F.P.A. 25, ~~2002~~ edition, which is available for the price of \$44.00;
- (p) N.F.P.A. 30, ~~2003~~ **2008** edition, which is available for the price of \$44.00;
- (q) N.F.P.A. 30B, ~~2002~~ **2007** edition, which is available for the price of \$38.00;
- ~~[(r) N.F.P.A. 50, 2001 edition, which is available for the price of \$29.00;]~~
- ~~[(s) N.F.P.A. 50B, 1999 edition, which is available for the price of \$29.00;]~~
- (t) N.F.P.A. 52, ~~2002~~ **2010** edition, which is available for the price of \$38.00;
- (u) N.F.P.A. 58, ~~2004~~ **2008** edition, which is available for the price of \$44.00;

- (v) N.F.P.A. 72, ~~[2002]~~ 2010 edition, which is available for the price of \$54.00;
- (w) N.F.P.A. 86, ~~[2003]~~ 2007 edition, which is available for the price of \$44.00;
- (x) N.F.P.A. 90A, ~~[2002]~~ 2009 edition, which is available for the price of \$34.50;
- (y) N.F.P.A. 90B, ~~[2006]~~ 2009 edition, which is available for the price of \$29.00;
- (z) N.F.P.A. 96, 2008 edition, which is available for the price of \$34.50;
- (aa) N.F.P.A. 99, ~~[2002]~~ edition, which is available for the price of \$54.00;
- (bb) N.F.P.A. 110, ~~[2002]~~ 2010 edition, which is available for the price of \$34.50;
- (cc) N.F.P.A. 111, ~~[2001]~~ 2010 edition, which is available for the price of \$29.00;
- (dd) N.F.P.A. 140, ~~[2004]~~ 2008 edition, which is available for the price of \$29.00;
- (ee) N.F.P.A. 160, ~~[2001]~~ 2006 edition, which is available for the price of \$34.50;
- (ff) N.F.P.A. 385, ~~[2000]~~ 2007 edition, which is available for the price of \$34.50;
- (gg) N.F.P.A. 407, ~~[2001]~~ 2007 edition, which is available for the price of \$34.50;
- (hh) N.F.P.A. 409, ~~[2001]~~ 2004 edition, which is available for the price of \$34.50;
- (ii) N.F.P.A. 410, ~~[2004]~~ 2010 edition, which is available for the price of \$34.50;
- (jj) N.F.P.A. 418, 2006 edition, which is available for the price of \$29.00;
- (kk) N.F.P.A. 495, ~~[2001]~~ 2010 edition, which is available for the price of \$38.00;
- (ll) N.F.P.A. 704, ~~[2001]~~ 2007 edition, which is available for the price of \$34.50;
- (mm) N.F.P.A. 1123, ~~[2000]~~ 2010 edition, which is available for the price of \$34.50;
- (nn) N.F.P.A. 1126, ~~[2001]~~ 2006 edition, which is available for the price of \$29.00;
- (oo) N.F.P.A. 1141, 2008 edition, which is available for the price of \$29.00;
- (pp) N.F.P.A. 1142, 2007 edition, which is available for the price of \$38.00;
- (qq) N.F.P.A. 1144, 2008 edition, which is available for the price of \$34.50;
- (rr) N.F.P.A. 1403, 2007 edition, which is available for the price of \$34.50;
- (ss) N.F.P.A. 1961, 2007 edition, which is available for the price of \$29.00;
- (tt) N.F.P.A. 1962, 2008 edition, which is available for the price of \$34.50;
- (uu) N.F.P.A. 1963, ~~[2003]~~ 2009 edition, which is available for the price of \$34.50;
- (vv) N.F.P.A. 1965, ~~[2003]~~ 2009 edition, which is available for the price of \$29.00; and
- (ww) N.F.P.A. 2001, ~~[2004]~~ 2008 edition, which is available for the price of \$44.00

**NAC 477.281 is hereby amended to read as follows:**

477.283 1. The following changes are made to the 2006 edition of the International Fire Code as adopted by reference by the State Fire Marshal:

- ( ) A brothel is classified as "R-1" occupancy*
- ( ) International Mechanical Code is replaced with 2006 Uniform Mechanical Code*
- ( ) International Plumbing Code is replaced with the 2006 Uniform Plumbing Code*
- ( ) Where reference to high-rise 75 feet (22,860 mm) is deleted and replaced with 55 feet (16,764 mm)*
- ( ) Section 105.6.20 is revised by adding a new paragraph "When a permit is required to be attained for hazardous material the Nevada Combined Agency Hazardous Material Facility Report (NCAHMFRR) must be filled out and the appropriate fees paid."*
- ( ) Section 407.5 is revised by deleting "...each application for a permit..." and replaced ".....may require a Hazardous Materials Inventory Statement (HMIS)..."*
- ( ) Section 202 Group I-4, day care facilities revised by deleting "five" (5) and replace it with "six" (6)*
- ( ) Section 202 Child care facility, revised by deleting "five" (5) and replacing it with "six" (6)*
- ( ) Section 202 R-3 (Child Care), revised by deleting "five" (5) and replacing it with "six" (6)*

*(j) Section 905.3.2 Group A – is revised by deleting “75 feet (22 860 mm) and replaced with “55 feet (16 764 mm)”*

(c) Section 308.3.1 is deleted.

(d) Section 308.3.1.1 is delete.

(e) Section 508.3 is revised by adding a second paragraph to read as follows: “Subject to the approval of the fire authority, if the 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. standard. The provisions of this paragraph do not apply if a fire sprinkler system is otherwise required by this chapter or the adopted codes.”

(g) Section 903.2.7 is revised by adding a second paragraph to read as follows: “An R-1 or R- 2 occupancy that has more than two stories must have an N.F.P.A. 13, *2010 edition* system installed. An R-1 or R-2 occupancy that has two stories or less must have an N.F.P.A. 13, *2010 edition* system or an N.F.P.A. 13R, *2010 edition* system installed.”

(h) Section 903.2.10 is revised by adding a new paragraph to read as follows: “A building that is more than two stories in height, including any height added by usable floor space, must have automatic sprinkler systems installed throughout.”

(i) Section 903.3.1.2 is revised to read as follows: “Where allowed, an R-1 or R-2 building that has two stories or less must have automatic sprinkler systems installed throughout in accordance with N.F.P.A. 13, *2010 edition* or N.F.P.A. 13R, *2010 edition*. An R-1 or R-2 building that has more than two stories must have automatic sprinkler systems installed throughout in accordance with N.F.P.A. 13, *2010 edition*.”

(j) 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.”

*Exceptions: 1. Open parking garages*

*2. Airport control towers*

(k) Section 903.2.9 Group S-2 is revised by adding a second exception to read as follows: “[~~Any~~] Open parking garage as defined in section 406.3 of the International Building Code [~~is exempt from installing~~] *do not require* a sprinkler system.”

(l) Section 906.1 is revised to read as follows: “Portable fire extinguishers must be installed in all group A, B, E, F, H, I, M, R-1, R-2, R-4 and S occupancies. No exceptions will apply.”

(m) Section 906.2 is revised by amending the following exceptions: In exceptions 2 and 2.4, “once every three years” is deleted and replaced with “annually.”

(n) In sections 907.2.12, 907.9.2 and 1020.1.7 “75 feet” (*22,860 mm*) is deleted and replaced with “55 feet” (*16,764 mm*).

(o) Section 907.10.1 is revised by adding the following exceptions following exception (2): “(3) Electrical rooms and mechanical rooms that are not normally occupied and are less than 400 square feet.

(4) Janitor closets.

(5) Storage rooms that are less than 400 square feet.

(6) Elevator cabs.

(7) Individual work areas or offices and private toilets serving individual work areas or offices.

(8) Individual inmate sleeping accommodations and patient sleeping rooms except as required by section 907.10.1.3 .”

(p) In section 907.10.2, “[~~70~~] 75 dBA” is deleted and replaced with “80 dBA,” and “60 dBA” is deleted and replaced with “80 dBA.”

(s) In appendix B of section B105.2, “75 percent” is deleted and replaced with “50 percent.”

2. The following changes are made to the 2006 edition of the International Building Code as adopted by the State Fire Marshal:

(a) Section 112 is deleted.

(b) From section 403.1 the phrase “more than 75 feet (22,860 mm) above the lowest level of fire department vehicle access” is deleted and replaced with “more than 55 feet above the lowest level of access for a vehicle of the fire department.”

(c) To section 403.6 is added: “Loudspeakers or horns for a fire alarm must achieve at least 80 decibels of sound in all areas within the protected property.”

(d) To section 403.8 the following provisions are added:

(1) “All *fire and life safety related* equipment, *including, but not limited to fire alarm systems, smoke management systems, status indicators and controls for air-handling systems and emergency generator status*, contained within the fire command center must be tested *annually or more frequently if required by applicable, adopted NFPA standard*, by ~~[a person approved by the authority having jurisdiction]~~ *an appropriately certified or licensed person*. Systems ~~[terminating]~~ within the fire command center must be tested *following procedures outlined in applicable NFPA standards and special procedures prescribed by the respective system designer or equipment manufacturer [as required by the authority having jurisdiction according to a schedule which is commensurate with the size and complexity of the facility being protected and the systems involved]*. All equipment for the safety of life must be ~~[reset]~~ *restored to service* and ~~[certified by a person approved by the authority having jurisdiction]~~ *tagged by the licensed practitioner* after being tested. *Systems unable to be restored to service or found in a disabled or impaired condition shall be reported immediately to the authority having jurisdiction and the State Fire Marshal. A log of [the] all inspections and* tests required by this section must be available for inspection *on the premises* by the authority having jurisdiction. ~~[Graphic display annunciator panels may be required if the complexity of the systems warrant. Testing must follow procedures which are developed by the designer, manufacturer and nationally recognized standards of good practice as approved by the authority having jurisdiction.]~~”

(2) “The fire command center must be housed in a room separated from the building in which it is located by noncombustible construction rated at a minimum of 2 hours. The room used for that command center must be provided an exterior door ~~[if possible]~~ *with a width of 36 inches (914 mm) and a height of 80 inches (2032 mm)*.”

(e) To section 403.12 at the end of the last sentence, is added: *“or an activation of any fire alarm [system] initiating device within the building or [a power] failure of both the primary and all backup power supplies.”*

(f) Section 903.2.2 is revised by adding a new paragraph to read as follows: “In high schools where automatic fire sprinkler systems are provided, the automatic fire sprinkler systems for the automotive and woodworking shops must be ordinary hazard group 1 automatic fire sprinkler systems.”

(g) In section 907.2.12 “75 feet” (*22,860 mm*) is deleted and replaced with “55 feet” (*16,764 mm*).

(h) Section 907.9.1 is revised by adding the following exceptions following exception (2):

“(3) Electrical rooms and mechanical rooms that are not normally occupied and are less than 400 square feet.

- (4) Janitor closets.
- (5) Storage rooms that are less than 400 square feet.
- (6) Elevator cabs.
- (7) Individual work areas or offices and private toilets serving individual work areas or offices.
- (8) Individual inmate sleeping accommodations and patient sleeping rooms except as required by section 907.2.10.1.3.”
- (i) In section 907.9.2:
  - (1) “70 dBA” is deleted and replaced with “80 dBA”; and
  - (2) “60 dBA” is deleted and replaced with “80 dBA.”
- (j) In section 1008.1.8.7, 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. Except for exit discharge doors, the doors must automatically unlock upon the activation of a fire alarm system or a fire sprinkler alarm and for a power failure.”
- (k) Section 1020.1.7 is deleted and replaced with: “In a building having a floor level used for human occupancy which is more than 55 feet above or below the level of access for a vehicle of the fire department, all required exit enclosures must be pressurized in accordance with this section. Pressurization must occur automatically upon activation of an approved fire alarm system. The exception and the relief venting provisions remain as written.”

*( ) The following changes are made to the 2009 edition of the International Wildland-Urban interface Code as adopted by reference by the State Fire Marshal:*

*( ) Adopt Appendix A*

*( ) Adopt Appendix B*

*( ) Section B101.1 is revised by adding “Were required a vegetation management plans shall be submitted to the code official and the State Foster for review and approval as part of the plans requires for a permit”*

*( ) Section 106 is deleted*

*( ) Section 302.3 is revised by deleting “...on a three year basis or more frequently as...”*

*( ) Section 402.2.2 is deleted and replaced with “Water supply needs will be determined by the International Fire Code, 2006 editions and the International Building Code, 2006 edition.*

*( ) Section 403.4 is deleted and replaced with “Premises identification will be determined by the International Fire Code, 2006 editions.”*

*( ) Section 403.4.1 is deleted*

*( ) Section 404.5 2 Exception is revised by deleting “75-percent” and replacing with “50-percent”*

*( ) Chapter 5 – Special Building Construction Regulation is deleted*

*( ) Section 602.1 is revised by deleting “...required to meet the requirements for Class 1 ignition-resistant construction in Chapter 5.”*

*( ) Section 603.2 is revised by deleting “...constructed in compliance with the conforming defensible space category of Table 503.1 ...”*

**Chapter 477.300 of the NAC is hereby amended to read as follows:**

**NAC 477.300 Application; requirements; effect; ~~[branch-offices]~~; designer of fire sprinkler and alarm systems. (NRS 477.030, 477.033)**

1. All applications for licenses or certificates *of registration* must be made to the State Fire Marshal in the manner required by this chapter. A person who performs any of the following work in this State, other than as the employee of another, must obtain a license in accordance with this chapter and chapter 477 of NRS and shall require each person employed by him to perform that work to obtain the appropriate certificate of registration:

(a) Selling, servicing, maintaining or installing any fire extinguisher, engineered or pre-engineered fixed fire extinguishing system, fire alarm system, fire detection system, automatic fire suppression system or fire standpipe system.

(b) Cleaning of a Type 1 hood and duct and the removal of fuel.

(c) Blasting and using commercial explosives.

(d) Using and handling of pyrotechnics.

(e) Installing medical gas systems.

(f) Selling and installing heat detectors which will be used as devices for the early warning of fires.

*( ) GU-Underground fire sprinkler work only*

*( ) GU-Underground Hydrant – installation, repair, servicing and repairing*

*( ) GU-Underground Backflow testing only*

*( ) Fire Performers (certificate of registration only)*

*( ) Flame Effects*

*( ) Magicians (certificate of registration only)*

*( ) Interior Designers for Furniture Fixture and Equipment (F F & E)*

*( ) Retail sales of portable fire extinguishers*

2. The State Fire Marshal or his authorized representative may inspect vehicles, equipment, buildings, devices, premises or any area to be used in performing the activities permitted by the license or certificate. *The State Fire Marshal or his authorized representative may also require licensed companies and certified individuals to provide any and all documentation related to the services performed and/or an advanced listing of businesses or companies being serviced. Failure to comply with these written requests from the State Fire Marshal may result in suspension or revocation of licenses and/or certifications.*

3. A license or certificate *of registration* issued by the State Fire Marshal remains the property of the State Fire Marshal Division and must be renewed as required by NAC 477.310. The license or certificate *of registration* is not transferable, is revocable for cause and, except as otherwise provided in this chapter, will not be issued to any person who has not reached 18 years of age ~~18~~ *With the exception of pyrotechnics, blasters, flame effects, fire performers and magicians who has not reached the age of 21.*

4. A licensee shall comply with any regulation adopted by a local authority which is more stringent.

*5. All applications for a license for the installation and maintenance of systems for protection from fire must be accompanied by a letter of certification from a manufacturer or supplier of the system or material or parts for the system stating that the licensee has received parts and materials for the installation, maintenance, servicing, testing and inspection of those materials, items or systems.*

6. Any firm ~~[having more than one office]~~ doing business in Nevada which must be licensed by the State Fire Marshal *must pay the appropriate fee for each company location.* ~~[the state must designate one office as the principal office and pay the standard fee for each class of license for work to be performed. Except for licenses for the sale at retail of fire extinguishers, each~~

~~additional office must be licensed as a branch office. Each branch office must pay the prescribed fee of \$110 for each class of license for the work to be performed by that branch. If a branch office performs work which is not done by the principal office, the branch office shall be deemed to be the principal office for that class of license and must pay the full fee.]~~

7. A holder of a certificate of registration must be present at all job sites *and actively supervising any and all non certified employees where the work is being performed* on which work requiring a license pursuant to this section will be performed.

8. ~~[A designer of fire sprinklers, and or fire alarm systems must:]~~ *A designer of fire sprinklers [and] or fire alarm systems must:*

*( ) be a professional engineer licensed to practice in the State of Nevada pursuant to chapter 625 of NRS; or*

*( ) (Effective prior to January 1, 2012) hold a Level II certification from the National Institute for Certification in Engineering Technologies (NICET), ~~[be licensed as a professional engineer pursuant to chapter 625 of NRS]~~ or hold an equivalent certification.*

*( ) (Effective on and after January 1, 2012) hold a Level III certification from the National Institute for Certification in Engineering Technologies (NICET), or hold an equivalent certification.*

*( ) A designer of special hazard suppression systems must:*

*( ) Exception for pre-engineered hood and duct systems*

*( ) be a professional engineer licensed to practice in the State of Nevada pursuant to chapter 625 of NRS; or*

*( ) (Effective January 1, 2012) hold a Level II certification from NICET, or hold an equivalent certification.*

*( ) (Effective on and after January 1, 2017) hold a Level III certification from NICET, or hold an equivalent certification.*

*( ) (Effective on and after January 1, 2015) to supervise the installation of a fire sprinkler system the on site supervisor must hold a NICET Level II certification.*

*( ) (Effective on and after January 1, 2015) to supervise the installation of a fire alarm system the on site supervisor must hold a NICET Level II certification.*

~~[hold a Level II certification from the National Institute for Certification in Engineering Technologies (NICET), be licensed as a professional engineer pursuant to chapter 625 of NRS or hold an equivalent certification.]~~

*( ) To obtain further information and copies of materials to receive **either** a Level II **or Level III** certification from the National Institute for Certification in Engineering Technologies, a designer of **special hazard suppression**, fire sprinkler ~~[and]~~ **or** alarm systems may contact the National Institute for Certification in Engineering Technologies, 1420 King Street, Alexandria, Virginia 22314-2794, telephone (888) 476-4238.*

A designer of fire sprinklers ~~[and]~~ **or** fire alarm systems **must:**

~~[St. Fire Marshal, §§ 1.301-1.304, eff. 11-27-78]—(NAC A 1-19-84; 7-16-85, eff. 8-1-85; 8-22-86, eff. 9-1-86; 2-17-94; R207-99, 2-7-2000; R220-99, 9-25-2000; R062-04, 9-3-2004)~~

**NAC 477.310 is hereby amended to read as follows:**

**NAC 477.310 Expiration and renewal; change of information; initial fees; late charges.**  
**[\(NRS 477.030\)](#)**



1. Except as otherwise provided by sections governing specific types of classes of license and certificates, all original licenses and certificates of registration expire on December 31 of the year in which they are issued.

2. Application for renewal must be made annually. The application must be *notarized and* accompanied by the appropriate fee. Renewals are valid from January 1 through December 31.

3. If an application and the appropriate fee for renewal of a license or certificate of registration is *not renewed by specified date* ~~[void]~~, then the firm or registrant holding the license or certificate of registration shall cease to perform those services authorized by the license or certificate of registration.

4. If a certificate of registration has expired and the registrant desires to continue to perform the acts requiring a certificate *of registration*, he must apply to the State Fire Marshal for an original certificate of registration and pay the full fee for certification. The State Fire Marshal ~~[may]~~ *shall* require the applicant to be retested.

5. If a license has expired and the ~~[licensee]~~ *licensed firm* desires to continue in the business for which the expired license was issued, he must apply to the State Fire Marshal for an original license.

6. Any change of information on the license or certificate must be reported to the State Fire Marshal in writing within 7 days after the change. A new *license or certificate of registration* will be issued upon notification and payment of the prescribed fee.

7. Initial fees *for new company licenses* must be paid in full unless the fees are paid in the final quarter of the licensing year. Initial fees which are paid in the final quarter *will be reduced by 50 percent*.

8. If a *fee for a licensed firm* is not paid by the time it is due, a late charge of 12 percent per month ~~[may]~~ *shall* be assessed as an administrative fee for processing *and the company may not perform any work until the entire fee has been paid*. The charge must be assessed beginning at the end of the first working day after the fee is due.

[St. Fire Marshal, § 1.701, eff. 11-27-78]—(NAC A 1-19-84; 2-17-94; R220-99, 9-25-2000)

**NAC 477.311 is hereby amended to read as follows:**

**NAC 477.311 Written examinations; consideration of other qualifications.** ([NRS 477.030](#)) Except as otherwise provided for a certificate for blasting:

1. An applicant for a certificate of registration must pass a written examination. The applicant must receive a passing score *of 75 percent* on each part taken.

**NAC 477.312 is hereby amended to read as follows:**

**NAC 477.312 Basis of examinations.** ([NRS 477.030](#)) The examinations administered by the State Fire Marshal are based on the ~~[National Fire Codes, 2004 edition, published by]~~ the *appropriate N.F.P.A. standards and the Nevada State Fire Marshal Regulations*.

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A 7-16-85, eff. 8-1-85; 3-9-89; 2-17-94; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.3125 is hereby amended to read as follows:**

**NAC 477.3125 Examination for installer of medical gas systems.** (NRS 477.030) ~~[The examinations to]~~ *To* receive a certificate of registration for an installer of medical gas systems *the applicant will need to submit proof that he/she has successfully passed a national exam relating to the installation and maintenance of medical gas system and an exam from the State*

*Fire Marshal based on the regulations of the State.* ~~[that are administered by the State Fire Marshal will be based on the following sources and standards:~~

- ~~—1. The regulations of the State Fire Marshal as set forth in this chapter;~~
- ~~—2. N.F.P.A., Standard 99, 2005 edition;~~
- ~~—3. [N.F.P.A. [Standard 50]- 55, 2010 edition;~~
- ~~—4. American Society of Sanitary Engineering, Standard 6010, “Medical Gas Systems Installers”; and]~~
- 5. Compressed Gas Association pamphlet C-1, dealing with gas systems.]

**NAC 477.313 is hereby amended by adding a new section to read as follows:**

**NAC 477.313 Scheduling; failure; testing for higher classification.** ([NRS 477.030](#))

1. The State Fire Marshal will schedule the various examinations so that an applicant may take his examination within 90 days after the date of his application. Examinations will be conducted at the State Fire Marshal’s office in Carson City during business hours with an appointment. Examinations for certificates of registration will also be conducted by appointment in Elko and Las Vegas. No appointment for an examination will be ~~[made]~~ *accepted* until the applicant submits all required documentation to the State Fire Marshal’s office 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 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 *of registration* 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.

*( ) Cheating on certification testing in any form is strictly prohibited. Activities included, but not limited to, copying answers off another tester, possession of test answers questions or other restricted materials, offering to sell or distribute test answers or restricted materials or abetting cheating activities is grounds for immediate and irrevocable revocation of any and all certifications. If it is determined that an individual’s licensed company participated in, possessed or abetted cheating, that company’s license shall be revoked.*

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A 7-16-85, eff. 8-1-85; 2-17-94; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.315 is hereby amended by adding hereto the provision set forth as sections C thru J inclusive, of this regulations:**

**NAC 477.315 Authority; grounds.** ([NRS 477.030](#))

1. The State Fire Marshal may refuse to issue or renew, or may suspend or revoke any certificate of registration or license if he determines that an applicant, licensee or registrant has:

(a) Obtained or attempted to obtain a license or certificate of registration by fraud, misrepresentation or falsifying information required on an application form.

(b) Been found guilty of malpractice or incompetence.

(c) Failed to obtain the necessary tools or materials required by the State Fire Marshal for performing the work for which the license was issued.

(d) Failed to pay the annual fees for renewal of a license or certificate of registration.

(e) Violated any provision of this chapter three or more times within a 12-month period.

(f) Submitted payment for a license or certificate upon an account which has insufficient funds.

(g) Been convicted of a felony.

(h) Refused to cooperate with the State Fire Marshal in an investigation.

(i) Created an imminent hazard to life. For the purposes of this paragraph, an “imminent hazard to life” exists when:

(1) A system to detect, suppress or protect against fire is reduced to less than 80 percent of its design standard by an action, whether malicious or not, of a licensee or holder of a certificate of registration; or

(2) A fire appliance or device is made nonfunctional because more than 20 percent of the appliances or devices provided to a building or area become nonfunctional because of the improper service of a licensee or the holder of a certificate of registration.

(j) Agents or principals who have violated the provisions of this subsection.

2. The State Fire Marshal may revoke or suspend any certificate of registration or license if he determines that:

(a) It has been used by a person other than the person to whom it was issued.

(b) It has been used for a location other than that for which it was issued.

(c) It has been used for work other than that for which it was issued.

(d) Any of the conditions or limitations set forth in the license have been violated.

(e) The person to whom the certificate or license was issued did not have the certificate or license on-site where work was being performed under the certificate or license, or failed to present the certificate or license upon the request of an authority having jurisdiction.

***( ) Information in this section is inclusive to all fire protection licenses and certificate of registrations whereas not otherwise stated.***

3. All licenses and certificates of registration remain the property of the State Fire Marshal and may not be suspended or revoked by any other person.

4. For the purposes of this section:

(a) A revocation is permanent and applies to any person who is found to be an accomplice to a violation, whether directly or indirectly.

(b) A suspension may not exceed 24 months.

***( ) The types of administrative discipline the State Fire Marshal may impose upon any licensees or certificate holders found violating the provisions of NAC 477 are as follows:***

***( ) Suspension up to 24 months***

***( ) Revocation***

***( ) Additional required training***

***( ) Probation up to 24 months (further violations while on probation will result in the violations that caused the probation being revisited)***

***( ) The State Fire Marshal shall, pursuant to NAC 477.325 (4) (b) (2)***

***( ) In lieu of misdemeanor criminal charges the State Fire Marshal may impose administrative fines to individual Certificate of Registration card holders in the amount of \$500.00 for the first offense, \$1,000.00 for the second offense and \$1,500.00 for all subsequent offenses.***

***( ) In lieu of misdemeanor criminal charges the State Fire Marshal may impose administrative fines to companies licensed by the State Fire Marshal in the amount of \$2,000.00 for the first offense, \$3,000.00 for the second offense and \$5,000.00 for all subsequent offenses.***

[St. Fire Marshal, §§ 1.901 & 1.902, eff. 11-27-78]—(NAC A 1-19-84; 3-9-89; R220-99, 9-25-2000)

**NAC 477.320 is hereby amended to read as follows:**

**NAC 477.320 Investigation; hearing. (NRS 477.030)**

1. When the State Fire Marshal receives written notice alleging fraud, misrepresentation, malpractice or incompetence on the part of any person licensed or certified under this chapter, he will conduct an investigation of the allegations. The investigation will concentrate on violations of this chapter, deceptive trade practices as set forth in [chapter 598](#) of NRS and other pertinent criminal and civil violations set forth in NRS. The use of any unauthorized, faulty or otherwise unacceptable equipment discovered during an investigation may be prohibited pending a final determination. A license or certificate will be suspended during an investigation if the investigation reveals conditions which the State Fire Marshal considers an imminent threat to public safety.

2. A person ~~[who]~~ *or company that* has been denied ~~[an original or]~~ *a* renewal license or certificate *of registration or had their Certificate of registration or license suspended or revoked* by the State Fire Marshal may request an administrative hearing within 10 *calendar* days after notice of denial. A written request must be sent to the State Fire Marshal *and received within 10 calendar days of the notice*. The State Fire Marshal, upon receipt of a *valid* request for an administrative hearing, will take necessary action to schedule an administrative hearing.

3. The failure on the part of an applicant to pass tests required in this chapter does not constitute grounds to request an administrative hearing.

4. If an administrative hearing officer finds that the State Fire Marshal has acted correctly, he may require restitution to the State Fire Marshal for the costs of the administrative hearing. If the administrative hearing officer finds that the applicant, licensee or holder of the certificate *of registration* is guilty of a lesser offense, the State Fire Marshal may require the applicant, licensee or holder, as appropriate, to receive further training or be retested, or both *and pay restitution*.

5. An administrative hearing does not preclude the State Fire Marshal from proceeding with a criminal investigation. Any conviction resulting from a criminal investigation may be used as prima facie evidence in an administrative hearing.

[St. Fire Marshal, §§ 1.1001-1.1005, eff. 11-27-78]—(NAC A 8-22-86, eff. 9-1-86; 3-9-89; 8-24-90; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.323 is hereby amended to read as follows and is hereto amended by adding thereto a new section to read as follows:**

**NAC 477.323 Permit required; issuance, expiration, renewal, suspension, reinstatement and revocation of permit; fees; criminal investigation; plan for termination. (NRS 477.030, 477.031, 477.045)**

1. A person shall not store a hazardous material in excess of the amount set forth in the International Fire Code 2006, as adopted pursuant to NAC 477.281, unless he has been issued an operational permit by the State Fire Marshal to store that material. A permit must be renewed annually.

2. Permits may be revoked or suspended when, after investigation, the State Fire Marshal determines that:

(a) The permit is being used by a person other than the person to whom it was issued.

- (b) The permit is being used for a location other than that for which it was issued.
- (c) Any of the conditions or limitations set forth in the permit have been violated.
- (d) The holder of the permit has failed, refused or neglected to comply with any order or notice served upon him under the provisions of this chapter within the time provided therein.
- (e) A false statement or misrepresentation as to a material fact was made in the application for the permit or the plans on which the permit was based.

3. The State Fire Marshal may suspend or revoke any permit if an inspection or investigation reveals a hazardous condition that endangers the safety of any person, or if the holder of the permit is not in compliance with this section. The State Fire Marshal may reinstate a suspended permit after the holder of the permit has paid the annual fee and corrected all deficiencies identified. A permit that has been revoked will not be reissued. A suspension will not exceed 24 months, after which the permit will be reissued or revoked.

4. A permit ~~may~~ **shall** be issued to store, transport on-site, dispense, use or handle hazardous materials in excess of the amount listed in the International Fire Code, 2006 edition, section 105.6.20, for a fee of \$90.

5. The State Fire Marshal will issue an operational permit for the manufacture, storage, sale and handling of explosives, blasting agents or fireworks for a fee of \$1,100 and, in addition thereto, may charge a fee of \$110 for each building or structure at the facility and an amount equal to the actual expenses incurred for travel, salaries and administrative expenses.

6. The \$60 surcharge required by NRS 477.045 will be collected on all permits to store hazardous materials, in addition to any other fees.

7. A permit ~~expires 1 year after the last day of the calendar month in which the permit was issued, unless a different expiration date is noted on the permit~~ **must be renewed by March 1 of the following calendar year.**

8. Revocation or suspension of a permit does not preclude the State Fire Marshal from proceeding with a criminal investigation. Evidence from a criminal investigation may be used as evidence in an administrative hearing for the revocation or suspension of a permit.

9. If a holder of a permit or an applicant for a permit intends to terminate the storage, dispensing, handling or use of hazardous materials at a facility, the holder or applicant must submit a plan to the State Fire Marshal outlining the proposed termination of the storage, dispensing, handling or use of the hazardous materials at least 30 days before the date on which the facility is to be closed. The plan must demonstrate that the reported quantities of materials have been or will be transported, disposed of or removed in a manner that presents no hazardous conditions to any person or property.

***( ) If you are required to report due to SERC reporting requirements you will also need to obtain a permit from the State Fire Marshal for those products.***

(Added to NAC by St. Fire Marshal, eff. 3-9-89; A 8-24-90; 5-18-94; R207-99, 2-7-2000; R062-04, 9-3-2004)

**NAC 477.325 is hereby amended to read as follows and is hereto amended by adding thereto a new section to read as follows:**

**NAC 477.325 Fees; exemptions; effect of certificate; refunds. ([NRS 477.030](#), [477.031](#), [477.033](#))**

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 is as follows:

(1) Type A for full service of portable fire extinguishers..... \$440.00

(2) Type B for portable fire extinguishers without hydrostatic service...	357.50
(3) Type <b>B:C or B:D</b> for Type B with hydrostatic service (C is low pressure, D is high pressure hydro).....	<del>357.50</del> <b>375.00</b>
(4) Type E for fixed fire extinguishing systems:	
(I) E-1 for hood/duct systems.....	<b>137.50</b>
(II) E-2 for all other systems.....	<b>137.50</b>
(III) Both E-1 and E-2.....	<b>275.00</b>
(5) Type F for fire alarm.....	440.00
(6) Type G for automatic sprinkler system <del>[includes G-U]</del> .....	440.00
(7) Type G-U for underground fire sprinkler <del>[service] work only [and private hydrant maintenance and repair]</del> .....	247.50
<b>7(a) Type G-U for private hydrant repair, installation and maintenance (also refereed to GU Hydrant)</b>	<b>247.50</b>
<b>7(b) Type G-U testing of Backflow (also refereed to GU Backflow)</b>	<b>247.50</b>
(8) Type H for hood and duct cleaning.....	440.00
<del>[(9) Type H-E for E-1 licensed companies wanting an H license.....]</del>	<del>[137.50]</del>
(10) Type I for standpipe systems.....	440.00
<del>[(11) Type I-G for G licensed companies wanting an I license.....]</del>	<del>[137.50]</del>
(12) Type J for N.F.P.A., Standard 13-D systems.....	440.00
<del>[(13) Type G-J for G licensed companies wanting to do Standard 13-D work.....]</del>	<del>[137.50]</del>
(14) <b>New</b> Blaster's certificate of registration.....	55.00
(15) Two-year renewal of a blaster's certificate.....	55.00
<b>(15) Annual renewal of blaster's certificate (after May 1, 2012) .....</b>	<b>55.00</b>
(16) Type MG license to install medical gas systems.....	247.50
(17) Type EWD ( <b>Early Warning Device</b> ) license to sell or install heat detectors .....	110.00
(b) A <b>new</b> certificate of registration (each class).....	71.50
(c) Renewal of a certificate of registration.....	33.00
(d) Issuance of a duplicate license or certificate.....	11.00
(e) Change of information on a certificate or license.....	11.00
<del>[(f) A license for each branch office, per license class.....]</del>	<del>[110.00]</del>
(g) An annual license for the sale at retail of all types of fire extinguishers.....	27.50
<del>[(h) An annual license for the sale at retail of only disposable fire extinguishers which are not required by a code.....]</del>	<del>[11.00]</del>
(i) Retaking an examination or any part of an examination.....	22.00
(j) A new certificate of registration and license for codes and regulations in interior design.....	100.00
(k) Renewal of a certificate of registration and license for codes and regulations in interior design.....	50.00
<del>[(l) Annual certificate of registration for installers of medical gas systems.....]</del>	<del>[71.50]</del>
(m) A copy of the regulations of the State Fire Marshal.....	11.00

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.

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 \$2.75 for the first copy and 55 cents for each page thereafter for each file opened.

(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 he 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 fee for the issuance of a license or certificate of ~~occupancy~~ *compliance* is \$22. The State Fire Marshal will issue a certificate of ~~occupancy~~ *compliance for*:

(1) Annually for a licensed facility; or

(2) For a facility which is not licensed, annually after an inspection and the removal of deficiencies, if any.

(d) The State Fire Marshal may charge a fee for any other inspection services. The rate for this fee is \$38.50 per hour or any fraction thereof. The first inspection may be conducted at no charge. A fee for subsequent reinspections will be charged for the actual cost of travel, salaries and administrative expenses in addition to the inspection fee.

(e) The fee for witnessing any test for acceptance is \$22 for each test requiring a separate fee for certification.

(f) 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.

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

(h) Fees for instructors are \$22 per hour, or as set by contract for specific classes, plus per diem and travel expenses.

(i) 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.

(j) Costs of certification are based upon hours of training, but will not exceed \$22. 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.

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

(l) 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.

(m) 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.

(n) 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.

(o) 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 \$550 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 \$165. 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.

(p) 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 deems it appropriate. To be eligible for a training refund, a registrant must give not less than 72 hours' notice before removing his 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 an investigation fee in accordance with section 108 of the International Building Code, 2006 edition.

[St. Fire Marshal, §§ 1.601 & 1.602, eff. 11-27-78]—(NAC A 1-19-84; 7-16-85, eff. 8-1-85; 8-22-86, eff. 9-1-86; 3-9-89; 8-24-90; 5-18-94; R207-99, 2-7-2000; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.330 is hereby amended to read as follows:**

**NAC 477.330 Maintenance and availability of records; change of location; agreements for services relating to hydrostatic testing. ([NRS 477.030](#))**

1. A licensee shall maintain accurate records of all service performed by him and all installations and service agreements made by him. These records must be made available for inspection by the State Fire Marshal or his representatives during the normal hours of business of the licensee.

2. The State Fire Marshal will keep a list of the names, addresses and numbers of the licenses of all licensees. The record of all numbers will be available for inspection.

3. *Any change of location of a licensed firm must be reported to the Office of the State Fire Marshal, in writing, within 7 calendar days after the change. A new license will be issued upon notification and payment of the prescribed fee.*

4. A licensed firm shall provide to the State Fire Marshal with the initial application for a license and with each application for renewal of a license a copy of at least one agreement



between the licensee and a company that has hydrostatic testing facilities approved by the United States Department of Transportation and soft shell hydrostatic testing facilities not required to be approved by the United States Department of Transportation, pursuant to which the company with the hydrostatic testing facilities will provide services relating to hydrostatic testing to the licensee. If the agreement is cancelled or otherwise terminated, the licensee shall forthwith notify the State Fire Marshal of the cancellation or termination of the agreement.

[St. Fire Marshal, §§ 1.801-1.803, eff. 11-27-78]—(NAC A 8-22-86, eff. 9-1-86; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.333 is hereby amended to read as follows:**

**NAC 477.333 Issuance of certificate and license.** ([NRS 477.030](#), [477.032](#)) The State Fire Marshal will, in accordance with [NRS 477.032](#), issue a certificate of registration and license for codes and regulations in interior design *for Furniture Fixture and Equipment (F F & E)* to a person who successfully completes a specialized training course that has been approved by the State Fire Marshal.

(Added to NAC by St. Fire Marshal by R207-99, eff. 2-7-2000; A by R062-04, 9-3-2004)

**NAC 477.3332 is hereto amended by adding thereto a new section to read as follows:**

**NAC 477.3332 Approval of proposed courses: Application; evaluation; fees and costs; addition to list of approved courses.** ([NRS 477.030](#), [477.032](#))

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 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 interior designers pursuant to [NRS 477.032](#).

**( ) Conviction of a felony is a basis for denial of a certificate of registration.**

(Added to NAC by St. Fire Marshal by R207-99, eff. 2-7-2000)

**NAC.3334 is hereby amended to read as follows:**

**NAC 477.3334 Qualifications of instructors; written evaluations; revocation of approval. (NRS 477.030, 477.032)**

1. A course in codes and regulations approved by the State Fire Marshal must be taught by an instructor who has been approved by the State Fire Marshal.

2. To obtain the approval of the State Fire Marshal, an instructor must:

- (a) Be recognized by the State Fire Marshal Division as being qualified to be an instructor;
- (b) Be currently employed as an instructor within the Nevada System of Higher Education; or
- (c) Possess a teaching credential or proof of successful completion of instructional course work from another state or agency, if that credential or proof is approved by the State Fire Marshal *for interior design for fire and building codes*.

3. A student who participates in an approved course must complete a written evaluation of the instructor of the course. The State Fire Marshal will review the written evaluations to ensure the quality of instruction provided by the instructor. The State Fire Marshal, or his representative, may observe a course to assist in the evaluation by the State Fire Marshal of the course or its instructor, or of both the course and instructor.

4. The State Fire Marshal may revoke his approval of an instructor if the State Fire Marshal determines that such a revocation is appropriate.

(Added to NAC by St. Fire Marshal by R207-99, eff. 2-7-2000)

**NAC 477.335 is hereby amended to read as follows:**

**NAC 477.335 Inspections. (NRS 477.030)**

1. All pre-engineered or engineered fixed fire extinguishing systems, fire alarm systems, standpipe systems, ~~for~~ sprinkler systems, *fire extinguishers, hood and duct systems, hydrants and underground fire services mains and their appurtenances* must be inspected in accordance with schedules recommended in the appropriate adopted standards as published by the N.F.P.A. Those inspections, other than a required *annual* inspection and certification, 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 only* ~~[such an 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.

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A 3-9-89; 8-24-90; 2-17-94; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.340 3 is hereby repealed:**

**NAC 477.340 Scope; applicability; exception. (NRS 477.030, 477.033)**

1. The provisions of [NAC 477.340](#) to [477.370](#), inclusive, prescribe the requirements for the licensing of persons engaged in the sale, leasing, installation or servicing of fire systems and components of fire systems.

2. The provisions of [NAC 477.340](#) to [477.370](#), inclusive, apply to all:

- (a) Persons within or conducting business within the State unless specifically exempted; and
- (b) Fire systems and components installed within the State after November 27, 1978.

~~[3. The provisions of NAC 477.340 to 477.370, inclusive, do not apply to municipal fire alarm systems in any municipality whose population is 100,000 or more.]~~

[St. Fire Marshal, §§ 3.101-3.102, eff. 11-27-78]—(NAC A 8-22-86, eff. 9-1-86; 2-17-94; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.345 is hereby amended to read as follows and is hereto amended by adding thereto a new section to read as follows:**

**NAC 477.345 Licenses: Requirements; classifications; application.** ([NRS 477.030, 477.033](#))

1. Any ~~[person]~~ *firm* who holds a license to service or install any fire alarm system, standpipe system, residential sprinkler system or automatic sprinkler system must be properly equipped and shall employ personnel who are qualified to install and perform service on fire alarm systems, standpipe systems, ~~[regulating devices for the prevention]~~ *testing* of backflow *assemblies, underground fire sprinkler work only*, residential sprinkler systems, *hydrants and their appurtenances* or automatic sprinkler systems and must possess a state contractor's license which is pertinent to the work being performed. Licenses will be issued in four basic classifications:

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

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

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

(d) Type J: Authorizes the holder to design the placement of, install, maintain and service residential sprinkler systems which are classified as 13-D systems.

*( ) Type E: Authorizes the holder to design the placement of, install, maintain and service Pre-Engineered, Engineered Fire Extinguishing Systems*

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

(a) The name ~~[and]~~, address *and phone number* of the ~~[applicant]~~ *company*

(b) The ~~[applicant's address.]~~ *application must be notarized*

(c) Fictitious name used, if any.

(d) The type of work performed.

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

*3. Each licensed firm shall report to the State Fire Marshal by December 31 of each year the name and certificate number of each registrant in his employ.*

[St. Fire Marshal, §§ 1.501-1.504, eff. 11-27-78]—(NAC A 1-19-84; 8-22-86, eff. 9-1-86; 2-17-94; R220-99, 9-25-2000)

**NAC 477.346 is hereby amended to read as follows and is hereto amended by adding thereto a new section to read as follows:**

**NAC 477.346 Installation, maintenance, *testing* and service of certain fire systems: Supervision; requirements.** (NRS 477.030) No person may supervise the installation, maintenance or service of a system described in NAC 477.345 unless he has a certificate of registration issued by the State Fire Marshal and is employed by a licensee, including exempt and restricted licenses. *No person may install, maintain or service a system described in NAC*

*477.345 b-d unless he has a certificate of registration issued by the State Fire Marshal and is employed by a licensee, including exempt and restricted licenses.* All work performed under the licensing requirements of this chapter must be supervised on-site, whenever work is being performed on a system, by a holder of a certificate of registration. A certificate of registration is not transferable and may not be issued to anyone who has not attained the age of 18 years. The certificate of registration must be in the possession of the registrant when he is performing the duties allowed. A person must obtain a certificate of registration before he may service and test devices regulated by pressure to prevent backflow.

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A 3-9-89; 2-17-94)

**NAC 477.3465 is hereby amended to read as follows and is hereto amended by adding thereto a new section to read as follows:**

**NAC 477.3465 Sale, installation, repair, restoration or testing for maintenance of heat detectors: Requirements.** ([NRS 477.030](#)) A ~~[person]~~ *firm* who wishes to engage in the sale, installation, repair, restoration or testing for maintenance of heat detectors which will be used as devices for the early warning of fires must possess a license issued by the State Fire Marshal. Each applicant for such a license must provide a certification from a manufacturer of the type of heat detector to be used by the applicant or firm engaged in the sale of the heat detector that the applicant has received instruction and training in the installation, repair, testing and inspection of the heat detector to be used by the applicant. *The applicant must be in possession of a certificate of registration card issued by the State Fire Marshal's Division.*

*( ) Conviction of a felony is a basis for denial of a certificate of registration.*

(Added to NAC by St. Fire Marshal by R220-99, eff. 9-25-2000; A by R062-04, 9-3-2004)

**NAC 477.348 is hereby amended to read as follows and is hereto amended by adding thereto a new section to read as follows:**

**NAC 477.348 Installation, repair, restoration or testing for maintenance of fire systems: Requirements.** ([NRS 477.030](#)) A person who desires to engage in the installation, repair, restoration or testing for maintenance of a fire system must possess a certificate *of registration* issued by the State Fire Marshal. *The applicant must then take and pass a written examination and pay the appropriate fee.* Each applicant must provide a certification from a manufacturer, a supplier of materials for a fire system, or a firm engaged in the design and engineering of those systems, that he has received instruction and training in the installation, repair, testing and inspection of the specific system ~~[The applicant must then take and pass a written examination and pay the appropriate fee.]~~

*( ) Conviction of a felony is a basis for denial of a certificate of registration.*

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A 2-17-94)

**NAC 477.365 is hereby amended to read as follows:**

**NAC 477.365 Fire alarm systems: Evidence of capability to provide service; agreement for maintenance; notification of discontinuance of service; plans and specifications; level of sound.** ([NRS 477.030](#))

1. The distributor or installer of a fire alarm system must submit evidence of his capability to provide for any needed repair and restoration of the system within 24 hours after being notified of a fire or fault in the system. The evidence of that capability is subject to approval by the State Fire Marshal and must include a showing that the distributor or installer has:

- (a) The necessary equipment and qualified personnel to perform the service;
- (b) ~~["The necessary stock of parts and devices; and].~~ *Provide a letter stating that they can respond to and initiate repairs to the fire alarm within 24 hours.*

(c) A valid license issued by the State Contractors' Board.

2. Where fire alarm systems are installed, a satisfactory agreement for the maintenance of the system must be provided. A licensed company shall give a 30-day notice to the owner, the occupant and the authority having jurisdiction before the company may discontinue service to the owner and the occupant. All systems must be under the supervision of qualified persons. These persons shall have proper tests and inspections made at prescribed intervals and have general charge of all alterations and additions to the systems under their supervision. A copy of the maintenance agreement, 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 local fire department having jurisdiction *and the State Fire Marshal*.

3. Detailed plans of alarm systems must be submitted to the authority having jurisdiction. The specifications must state that the installation will conform to applicable standards and meet the approval of the authority having jurisdiction. The specifications must include the specific tests which may be required to meet the approval of 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 authority having jurisdiction to evaluate the effectiveness of the system. Plans must be submitted to and approved by the authority having jurisdiction before the system may be installed. Where field conditions necessitate any substantial change from the approved plan, the corrected plan showing the system as actually installed must be submitted to the authority having jurisdiction. Plans must be on the job site at all times when work is being performed pursuant to that plan at that site.

4. All areas in a high-rise building protected by a fire alarm system and all areas protected by a fire alarm system must be provided with sufficient notification devices to achieve 80 decibels of sound at any occupied space within the area protected. All other occupancies must have an alarm system or systems which produce a sound that exceeds the prevailing equivalent sound level in the room or space by 15 decibels, or exceeds any maximum sound level with duration of at least 30 seconds by at least 5 decibels, whichever is louder. The level of sound for the alarm signal must not exceed 120 decibels.

[St. Fire Marshal, §§ 3.301-3.304, eff. 11-27-78]—(NAC A 1-19-84; 2-17-94; R220-99, 9-25-2000; R062-04, 9-3-2004)

**Chapter 477.370 of NAC is hereby amended by adding hereto the provisions set forth as section a thru k inclusive, of this regulations:**

**NAC 477.370 Tags for recording maintenance. (NRS 477.030)**

1. A tag for recording the *New*, maintenance *and inspections* of a fire alarm system 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

2. The tag must be attached to the system by the last person to work on the system for any purpose. The tag must be punched in an approved manner to indicate the type of service performed on the system and the date. The tag must be signed by the holder of a certificate of registration who *directly* supervises the work. A tag must be attached to the system at the conclusion of the successful testing of the system immediately after its installation.

- ( ) *The tag must be printed by a printing company and include:*
- ( ) *A schedule of required service for the system;*

- ( ) The date when the system was last serviced;
- ( ) Company name, address and phone number
- ( ) License number issued by the State Fire Marshal's office
- ( ) The name and certificate number of the person who last serviced the system
- ( ) No number stamp or date stamp is to be used, and the signature of the person signing the tag must be legible and signed and dated at the time of completion.
- ( ) The signature of the person completing the work along with their certificate of registration number has to remain on the tag and may not be wiped or washed off.
- ( ) 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.

- ( ) A tag must be attached to the system at the conclusion of the successful testing of the system immediately after its installation
- ( ) If the system is found to be deficient and the licensee does not have the authority to correct the deficiency, the word "deficient" must be written across the face of the tag in big black bold letters. The licensed firm shall notify the owner and the authority having jurisdiction of the deficiency in writing next business day.

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

Diagram of an Alarm / Sprinkler Tag. The tag is 5 1/4" wide and 2 3/4" high. It includes a punch hole on the left, a "DO NOT REMOVE" warning, a State Fire Marshal seal, a grid for dates (Jan-Dec 2010-2015), a signature line, and fields for company information and inspection status. A large "Deficient" stamp is overlaid on the form.

Scale size is an example and is not mandated

Per NAC 477.425, Tag must be at least 4" long by 2" wide

[St. Fire Marshal, § 3.305, eff. 11-27-78]—(NAC A 1-19-84; 8-22-86, eff. 9-1-86; R220-99, 9-25-2000)

NAV 477.385 is hereby amended to read as follows:

NAC 477.385 Licenses: Qualifications of licensee; classifications. ([NRS 477.030](#), [477.033](#))

1. A [person] firm who 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 he is engaged in the installation or maintenance of portable fire extinguishers or 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 own properties and for his 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 *sale* of portable fire extinguishers ~~[are issued in two classes, fire extinguishers required by a code and fire extinguishers not required by any code. Fire extinguishers required by a code]~~ must conform to the standards of the N.F.P.A. *10, 2007 Edition* and meet the requirements for testing and listing of a nationally recognized testing laboratory. ~~[Fire extinguishers not required by a code must meet the requirements of the N.F.P.A., be nonrefillable, achieve a minimum of one unit of classification of rating through testing and listing by a nationally recognized testing laboratory and be designed and intended for use in homes, automobiles and recreational vehicles.]~~

[St. Fire Marshal, §§ 1.401 & 1.402, eff. 11-27-78]—(NAC A 1-19-84; 7-16-85, eff. 8-1-85; 8-22-86, eff. 9-1-86; 2-17-94; R207-99, 2-7-2000; R062-04, 9-3-2004)

**NAC 477.390 is hereby amended to read as follows:**

**NAC 477.390 Declaration of qualification.** ([NRS 477.030](#), [477.033](#))

1. In addition to the requirements set forth in [NAC 477.385](#), any person who desires to engage in the installation, maintenance or inspection of an engineered or pre-engineered fixed extinguishing system must be declared qualified to perform such act or acts by the State Fire Marshal.

2. The State Fire Marshal will declare a person to be qualified if he provides a certification from a manufacturer of fixed extinguishing systems that he has received instruction and training in the installation, maintenance and inspection of fixed extinguishing systems and he passes a written examination for a certificate of registration.

[St. Fire Marshal, § 1.403, eff. 11-27-78]—(NAC A 1-19-84; R220-99, 9-25-2000; R062-04, 9-3-2004)



Chapter 477.395 of NAC is hereby amended by adding a new sections to read as follows:

NAC 477.395 Licenses and certificates: Application; examination. ([NRS 477.030, 477.033](#))

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

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

- (a) The name ~~[and]~~, address *and phone number* of the ~~[applicant].~~ *company*
- (b) ~~[The physical address of the business of the applicant.]~~ *The application must be notarized*
- (c) Fictitious names used, if any.
- (d) The type of work performed.
- (e) Other pertinent information required by the State Fire Marshal.

*( ) Proof of insurance*

3. *(Effective prior to January 1, 2012)* 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.

3. *(Effective on and after January 1, 2012)* Upon passage of the *International Code Council (ICC)/National Association of Fire Equipment Distributors (NAFED) "Fire Extinguisher Technician Examinations" and the State* written examination. ~~[and any required practical tests or demonstrations, a e]~~ 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. 10, *2007 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. 12, *2005 edition*, "Standard on Carbon Dioxide Extinguishing Systems";
- (b) N.F.P.A. 12A, *2004 edition*, "Standard on Halon 1301 Fire Extinguishing Systems";
- (c) N.F.P.A. 17, *2002 edition*, "Standard for Dry Chemical Extinguishing Systems";
- (d) N.F.P.A. 17A, *2002 edition* "Standard for Wet Chemical Extinguishing Systems"; and
- (e) N.F.P.A. 2001, *2008 edition*, "Standard on Clean Agent Fire Extinguishing Systems."

*( ) Refer to the International Code Council (ICC) or the National Association of Fire Equipment Distributors (NAFED) web site for information regarding the ICC/NAFED exam.*

*( ) [www.iccsafe.org](http://www.iccsafe.org) – for the International Code Council*

*( ) [www.nafed.org](http://www.nafed.org) – for the National Association of Fire Equipment Distributors*

[St. Fire Marshal, §§ 1.410-1.413, eff. 11-27-78]—(NAC A 8-22-86, eff. 9-1-86; R220-99, 9-25-2000; R062-04, 9-3-2004)

Chapter 477.400 is hereby amended by adding thereto the provisions as set forth the sections 3 thru 5, inclusive of this regulations and is hereby amended to read as follows:

NAC 477.400 New employees; termination of employment; change of address. ([NRS 477.030, 477.033](#))

1. The provisions of [NAC 477.385](#) do not prohibit new employees of a *licensed firm* from performing service on portable fire extinguishers *or fixed fire extinguishing systems* for a

maximum of 90 days after the beginning of employment, if the servicing is performed in the presence and under the direct supervision of a ~~[registrant]~~ *certificate of registration holder*.

2. *A new employee shall not perform service on portable fire extinguishers if, after the completion of the 90-day period, he fails to pass a written examination and a background investigation. A conviction of a felony is a basis for denial of a certificate of registration.*

*(.) Within 7 calendar days after employing a registrant or new employee who performs service on portable fire extinguishers or fixed fire extinguishing systems, a licensed firm must report to the State Fire Marshal the name and certificate number of the registrant.*

*(.) A licensee shall report any termination of employment by a registrant within 7 calendar days.* A registrant shall report any change in his address by written notice to the State Fire Marshal within 7 *calendar* days after the change. The State Fire Marshal will issue a new certificate of registration to the registrant upon receipt of the written notice and the payment of the required fees.

*(.) Each licensed firm shall report to the State Fire Marshal by December 31 of each year the name and certificate number of each registrant in his employ.*

[St. Fire Marshal, § 1.404, eff. 11-27-78]—(NAC A 1-19-84; R220-99, 9-25-2000; R062-04, 9-3-2004

**NAC 477.407 1 is hereby repealed and read as follows:**

**NAC 477.407 Advertising and sales: Fire extinguishers; devices for suppressing fire.**  
**(NRS 477.030)**

~~[1. A fire extinguisher not required by any code must be represented and advertised as not meeting the requirements for use where a fire extinguisher is required by any code, and misrepresentation is a ground for revocation of a license for the sale at retail of portable fire extinguishers.]~~

~~[2]~~ *(.)* A device for suppressing fire must not be sold or advertised as a fire extinguisher, provided as part of other sales, or represented, either orally or by written word, to be a fire extinguisher unless it meets the requirements for a fire extinguisher pursuant to this chapter.

(Added to NAC by St. Fire Marshal, 8-22-86, eff. 9-1-86; A by R220-99, 9-25-2000)

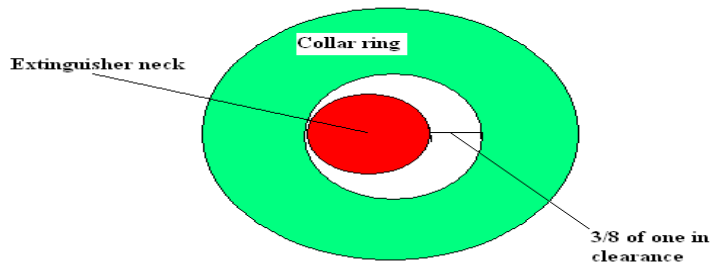
**NAC 477.410 is hereby amended to read as follows:**

**NAC 477.410 Installation, inspection, maintenance and repair; failure to comply.** (NRS 477.030)

1. All installation, inspection, maintenance and repair of portable fire extinguishers and fixed extinguishing systems must be performed in accordance with N.F.P.A. 10, *2007 edition* “Standard for Portable Fire Extinguishers,” and N.F.P.A. 17, *2002 edition* and 17A, 2002 editions, and the State Fire Marshal.

2. Regardless of exceptions contained in the N.F.P.A.’s applicable standards, all portable fire extinguishers except the carbon dioxide extinguishers, disposable extinguishers, *wet chemical* and ~~[Halon]~~ *clean agent* extinguishers must be recharged at least annually and whenever the service seal has been broken or an inspection indicates that the extinguisher might fail to function. For the recharging of any dry chemical type of extinguishment cylinder to be valid, the serviceman 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. *In accordance with NFPA 10, 2007 edition a verification of service collars that are approved by the State Fire Marshal must be installed at the time the extinguisher is recharged or serviced. This verification of service collars shall have the date of service “punched” into the verification of service collars and also match the same date on the service tag. At no time shall the distance between the inside of the approved and installed collar ring to the outside of the smallest portion of the extinguishers neck exceed 3/8 of one inch (See diagram). If the aforementioned 3/8 (0.375 inch) of one inch distance is found to have been exceeded the extinguisher(s) in question shall be re-serviced and properly tagged, at no additional cost, by the company that violated this provision. Re-servicing of the extinguisher for exceeding the 3/8 (0.375 inch) of one inch provision does not preclude the State Fire Marshal from taking any criminal or administrative actions.*  
*( ) A verification of service collars must be made of durable polymer material or high density polyethylene with clear polyester over lamination.*



3. Nitrogen or approved dry air must be used as expellant when recharging dry chemical type extinguishers unless the manufacturer recommends otherwise.

4. Before a fire extinguishing system using Halon is accepted, a test as referenced in N.F.P.A. Standard ~~11A~~ **12A, 2009 edition** must be performed and recorded.

5. 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. 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.

[St. Fire Marshal, §§ 2.301-2.303, eff. 11-27-78]—(NAC A 1-19-84; 3-9-89; 2-17-94; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.415 is hereby amended to read as follows:**

**NAC 477.415 Hydrostatic testing.** (NRS 477.030)

1. Each person who performs hydrostatic testing of fire extinguishers manufactured in accordance with the specifications of the United States Department of Transportation must do so in accordance with the procedure specified by that Department for compressed gas cylinders and must have been qualified by a test administered by the State Fire Marshal and have received the proper license or certificate of registration, or both.

2. The procedure concerning the hydrostatic testing of cylinders listed by the United States Department of Transportation is set forth in the Compressed Gas Association's pamphlet, Methods for Hydrostatic Testing of Compressed Gas Cylinders. The ~~1996~~ 2009 edition of the pamphlet is hereby adopted by reference. A copy of the pamphlet may be obtained from the Compressed Gas Association, 4221 Walney Road, 5th Floor, Chantilly, Virginia 20151-2923, at a price of \$43 for members and \$79 for nonmembers

[St. Fire Marshal, §§ 1.405 & 1.414, eff. 11-27-78]—(NAC A 1-19-84; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.422 is hereby amended to read as follows:**

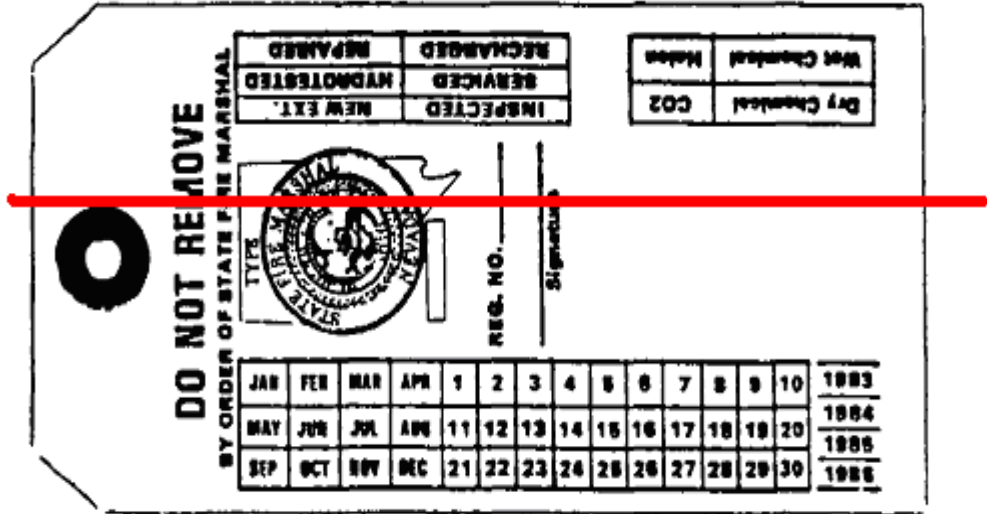
**NAC 477.422 Response to call for service.** ([NRS 477.030](#)) A licensed firm shall respond to a call for service from a customer, the State Fire Marshal or the authority having jurisdiction within 24 hours *with a certificate of registration card holder* with proper equipment to repair or replace the fire protection equipment. If unable to respond, the licensee shall communicate with another ~~licensee~~ *licensed firm* who is able to respond and repair or replace the equipment.

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A by R220-99, 9-25-2000)

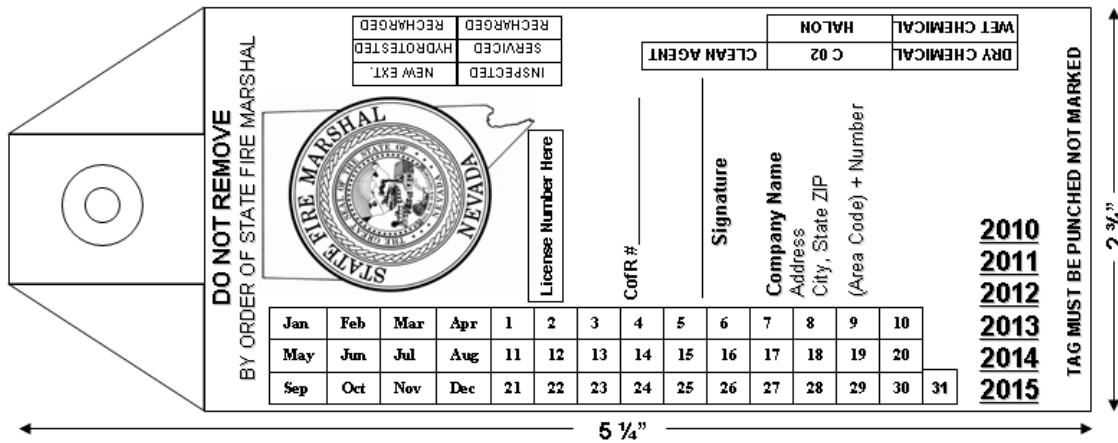
**Chapter 477.425 of NAC is hereby amended by adding thereto a new sections to read as follows:**

**NAC 477.425 Service tags and labels.** ([NRS 477.030](#))

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



## Extinguishing Systems / Extinguisher Tag



2. Each tag must be signed by the holder of a certificate of registration and must be:
  - (a) Attached to the extinguisher 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.

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 or agency licensed or certified by the State Fire Marshal which performed the test.

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

*(.) The tag must be printed by a printing company and include:*

- ( ) A schedule of required service for the system;*
- ( ) The date when the system was last serviced;*
- ( ) The date when the next service is scheduled; and*
- ( ) Company name, address and phone number*
- ( ) License number issued by the State Fire Marshal's Division*
- ( ) The name and certificate number of the person who last serviced the system.*
- ( ) No number stamp or date stamp is to be used, and the signature of the person signing the tag must be legible and signed and dated at the time of completion.*
- ( ) The signature of the person completing the work along with their certificate of registration number has to remain on the tag and may not be wiped or washed off.*
- ( ) 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*

[St. Fire Marshal, §§ 2.501-2.503, eff. 11-27-78]—(NAC A 1-19-84; 8-22-86, eff. 9-1-86)

**NAC 477.430 is hereby amended to read as follows:**

**NAC 477.430 Fixed fire extinguishing systems: Evidence of capability to provide service; written agreement for maintenance; plans and specifications.** ([NRS 477.030](#))

1. The installer shall submit evidence of his 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) ~~[The necessary stock of parts, products and devices]~~ *Provide a letter stating that they can respond to and fix the fire alarm within the 24 hour time;*
- (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 actively supervising* 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 ~~[National Fire Codes]~~ *applicable N.F.P.A. standards*. 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 ~~[National Fire Codes]~~ *applicable N.F.P.A. standards* is not required to be updated to later revisions in the ~~[National Fire Codes]~~ *applicable N.F.P.A. standards* until the State Fire Marshal adopts those revisions by reference and the hazard which is to be protected is remodeled, removed or substantially altered.

[St. Fire Marshal, §§ 2.601-2.604, eff. 11-27-78]—(NAC A 1-19-84; 3-9-89; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.435 is hereby amended to read as follows:**

**NAC 477.435 Reports; new employees; termination of employment; change of address.**  
**(NRS 477.030)**

1. Each ~~[licensee]~~ *licensed firm* shall report to the State Fire Marshal by December 31 of each year the name, ~~[address]~~ and certificate number of each registrant in his employ.

2. The State Fire Marshal will keep a list of the names, addresses and license and certificate numbers of all licensees and registrants.

3. Within 7 *calendar* days after employing any new employee who will perform service on portable fire extinguishers or fixed fire extinguishing systems, a *licensed company* shall report to the State Fire Marshal the name ~~[and address]~~ of the new employee and, if he is a registrant, the number of his certificate. Each *licensed company* shall report terminations of employment of registrants within 7 *calendar* days.

4. A change of address of any registrant must be reported by him to the State Fire Marshal within 7 *calendar* days after the change. A new certificate will be issued upon notice and payment of the required fee.

5. A change of location of a licensed firm must be reported to the State Fire Marshal in writing within 7 *calendar* days after the change. A new license will be issued upon approval of the new location by the State Fire Marshal and the payment of the prescribed fee.

6. Reports required by this chapter are public records and may be inspected at the office of the State Fire Marshal.

[St. Fire Marshal, §§ 2.401-2.405, eff. 11-27-78]—(NAC A 1-19-84; R220-99, 9-25-2000)

**NAC 447.441 is hereby amended to read as follows:**

**NAC 477.441 General requirements. (NRS 477.030)**

1. A new or relocated portable building must:
  - (a) Be placed on a surface which is:
    - (1) Paved or composed of dirt or any other material which is noncombustible; and
    - (2) Free of combustible material.
  - (b) Have a skirt that is noncombustible or fire-resistant and which extends from the bottom of the portable building to ground level.
  - (c) Have a zone of at least 5 feet that extends outward from the bottom of the skirt and which is free of trash, debris, plants or any other combustible material in accordance with section 304 of the International Fire Code, 2006 edition.
  - (d) Not be located within 60 feet of a permanent structure, except that a portable building may be located within 60 feet of a permanent structure if the location of the portable building is in compliance with section 503.1.3 of the International Building Code, 2006 edition.
  - (e) Have at least two means of egress, as that term is defined by the International Building Code, 2006 edition.
  - (f) Provide illumination for each egress.
  - (g) Be equipped with a fire extinguisher which has a minimum rating of 2A-10BC.
  - (h) Be provided with a fire alarm system, as required by the International Fire Code, 2006 edition. If the portable building is designated for occupancy as a “Group B occupancy used for educational purposes” or as a “Group E occupancy,” the portable building must have an automatic and a manual fire alarm system, which is integrated with the fire alarm system in the primary building.
2. Except as otherwise provided in this subsection, if two or more portable buildings are placed next to each other, there must be no empty spaces between the buildings. If it is physically impossible to place portable buildings next to each other so that there are no spaces between the portable buildings, the space between the portable buildings must have a barrier to prevent combustible materials or debris from entering that space.
3. Flammable or combustible material may not be stored beneath a portable building.
4. Portable buildings may not be joined if there are windows or other openings on the joined wall other than doors that are designed and used as access between the buildings.
5. Portable buildings which abut or are grouped together must not exceed the total area allowed by the International Building Code, 2006 edition for occupancies which are designated as “Type V-B.”

(Added to NAC by St. Fire Marshal, eff. 2-17-94; A by R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.442 is hereby amended to read as follows:**

**NAC 477.442 Safety requirements; approval of changes in use required; service of systems for heating, ventilating or air-conditioning. (NRS 477.030)**

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 13, 2007 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 local 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 72, *2010 edition*.

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

(f) 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.

3. 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.

4. 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.

(Added to NAC by St. Fire Marshal, eff. 2-17-94; A by R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.455 is hereby amended to read as follows:**

**NAC 477.455 Approval of equipment; compliance with International Fire Code and certain standards.** (NRS 477.030)

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 Technologies LLC 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 and the following standards of the N.F.P.A.:

(a) "Standard for the Installation of Sprinkler Systems," Standard 13, *2010 edition*.

(b) "Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes," Standard 13D, *2010 edition*.

(c) "Standard for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height," Standard 13R, *2010 edition*.

(d) "Standard for the Installation of Standpipe, Private Hydrants, and Hose Systems," Standard 14, *2010 edition*.

(e) "Standard for Water Spray Fixed Systems for Fire Protection," Standard 15, *2007 edition*.

(f) “Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems,” Standard 16, *2007 edition*.

(g) “Standard for the Installation of Stationary Pumps for Fire Protection,” Standard 20, *2010 edition*.

(h) “Standard for Water Tanks for Private Fire Protection,” Standard 22, *2008 edition*.

(i) “Standard for the Installation of Private Fire Service Mains and Their Appurtenances,” Standard 24, *2010 edition*.

(j) “Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems,” Standard 25, *2008 edition*.

**( ) “Standard for Water Mist Fire Protection System”, Standard 750, 2010 edition.**

[St. Fire Marshal, §§ 4.201 & 4.202, eff. 11-27-78]—(NAC A 1-19-84; 2-17-94; R220-99, 9-25-2000; R062-04, 9-3-2004)

**Chapter 477.460 is hereby amended by adding thereto the provisions set forth as sections 1 thru 7 inclusive, and *these regulations*:**

**NAC 477.460 Inspections and testing; notice of deficiencies; notice of discontinuance of service. (NRS 477.030)**

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 inspections may be conducted by any responsible person, including an employee of a firm, who, in the opinion of the authority having jurisdiction, has sufficient knowledge of the system to conduct such *visual* inspections *only*. The quarterly inspections must conform to the requirements of N.F.P.A. Standards 13, *2006 edition* and 25, *2006 edition*. Records of inspection must be kept on-site for review by the authority having jurisdiction *and the State Fire Marshal*. Any deficiencies must be reported to the authority having jurisdiction if the owner or occupant has received notice of the deficiency and fails to correct the deficiency within 30 *calendar* days. Systems which terminate within a station for central control for a high-rise building must be scheduled for testing in accordance with paragraph (d) of subsection 2 of [NAC 477.283](#).

2. The annual inspection must be made by a qualified *certificate of registration holder that works for 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 maintenance inspection indicates that additional work is required on a fire sprinkler system in order to have the system conform to code requirements, the ~~licensee~~ *licensed firm* shall notify the owner and the authority having jurisdiction in writing immediately after the inspection. A tag must be properly signed, punched and attached. The word “deficient” must be written across the bottom of the tag.

4. A licensed company 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.

[St. Fire Marshal, §§ 4.401-4.403, eff. 11-27-78]—(NAC A 1-19-84; 3-9-89; 8-24-90; 2-17-94; R220-99, 9-25-2000; R062-04, 9-3-2004)

***Reports; new employees; termination of employment; change of address. (NRS 477.030)***

***( ) Each licensed firm shall report to the State Fire Marshal by December 31 of each year the name and certificate number of each registrant in his employ.***

*( ) The State Fire Marshal will keep a list of the names, addresses and license and certificate numbers of all licensees and registrants.*

*( ) Within 7 calendar days after employing any new employee who will perform service on automatic fire sprinkler systems, a licensed firm shall report to the State Fire Marshal the name and, if he is a registrant, the number of his certificate of registration. Each licensed firm shall report terminations of employment of registrants within 7 calendar days.*

*( ) A change of address of any registrant must be reported by him to the State Fire Marshal within 7 days after the change. A new certificate will be issued upon notice and payment of the required fee.*

*( ) A change of location of a licensed firm must be reported to the State Fire Marshal in writing within 7 days after the change. A new license will be issued upon notice and payment of the prescribed fee.*

*( ) Reports required by this chapter are public records and may be inspected at the office of the State Fire Marshal.*

*( ) Conviction of a felony is a basis for denial of a certificate of registration.*

[St. Fire Marshal, §§ 2.401-2.405, eff. 11-27-78]—(NAC A 1-19-84; R220-99, 9-25-2000)

**NAC 477.465 is hereby amended to read as follows:**

**NAC 477.465 Evidence of capability to provide service; agreement for maintenance; plans and specifications; calculations; underground systems; letter of certification. ([NRS 477.030](#))**

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 *and the local 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; and
- (d) 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 *directly* 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 authority having jurisdiction *and the State Fire Marshal*.

3. Detailed plans, with the appropriate fees, must be submitted to the authority having jurisdiction for approval. The specifications must state that the installation will conform to the applicable standards and be approved by 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 standards and the standards required for the approval of 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 authority having

jurisdiction to evaluate the effectiveness of the system. Plans must be submitted to 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 authority having jurisdiction for approval. 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 13, *2007 edition*, 13R, *2007 edition*, ~~[231 and 231C]~~. 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 authority having jurisdiction. *The following license types are not considered a part of or covered under the sprinkler license and cannot be performed unless a company obtains the additional licenses required.*

*( ) GU – Underground fire sprinkler work only. A company which holds a ~~[current]~~ Type G-U license may provide only the underground ~~[services]~~ private fire service mains and their appurtenances from the gate valve, road box or check valve to the base of the riser or stubbed five (5) feet from the base of the building. The company shall provide certification of the contractors' materials and testing to the authority having jurisdiction upon the completion of the work. The underground services provided and the certification to be provided to 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. for automatic fire sprinkler systems.*

*( ) GU – Hydrant Only - A company which holds a Type GU license may provide only the installation, maintenance, repairs and servicing of fire hydrants.*

*( ) GU – Backflow – A company which holds a Type GU may perform the testing of backflow assemblies only. A certificate of registration holder shall possess an AWWA (American Water Works Association) certification or other nationally recognized certification that the State Fire Marshal approves.*

*( ) A certificate of registration card holder must be on the job site directly supervising any systems being installed and or tested in that particular category.*

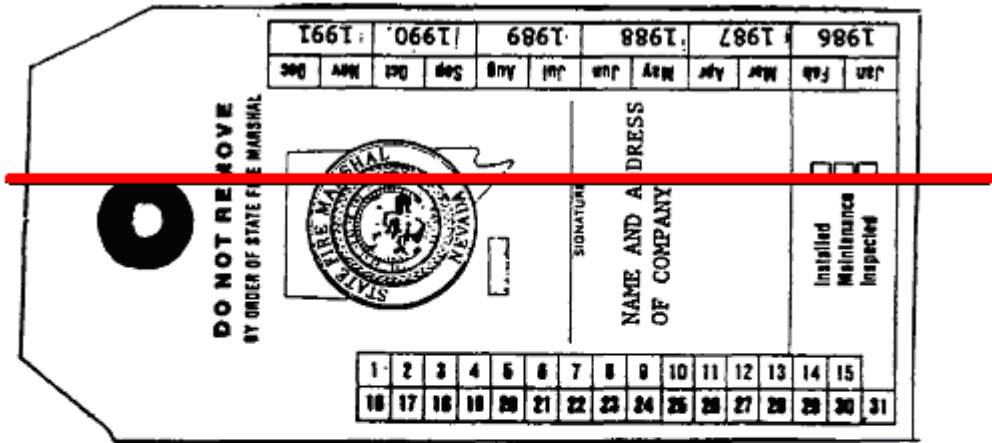
6. Upon completing the installation of an automatic sprinkler system, the licensee shall issue a letter of certification to the authority having jurisdiction. The letter must certify that the system has been installed in accordance with the approved plans and all applicable national, state and local 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.

[St. Fire Marshal, §§ 4.301-4.303 & part § 4.304, eff. 11-27-78]—(NAC A 1-19-84; 3-9-89; 8-24-90; 2-17-94; R220-99, 9-25-2000; R062-04, 9-3-2004)

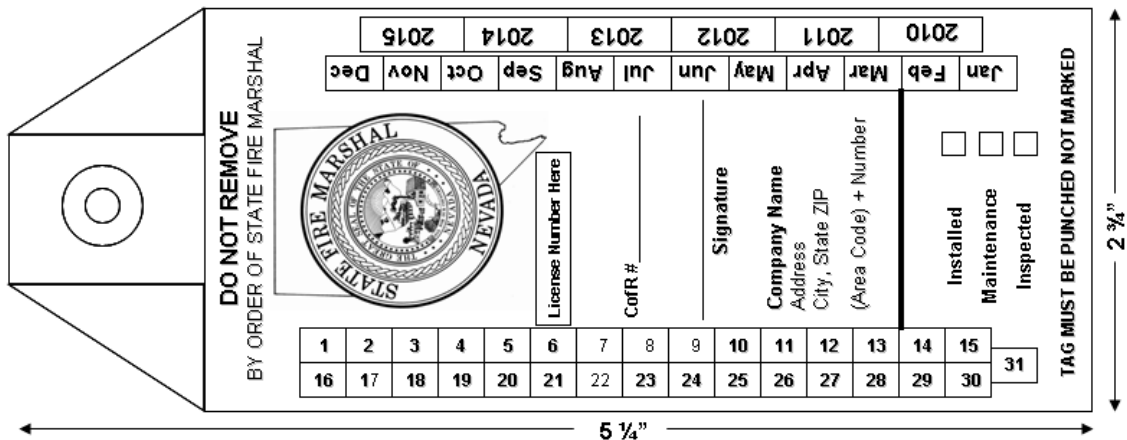
**Chapter 477.470 of NAC is hereby amended by adding thereto the provisions set forth as sections 5 thru 6 of *this regulation* and is hereby amend to read as follows:**

**NAC 477.470 Service tags. (NRS 477.030)**

1. A tag for recording *install*, maintenance *and inspected* of automatic sprinkler systems 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**



Scale size is an example and is not mandated  
 Per NAC 477.425, Tag must be at least 4" long by 2" wide

2. If the system has an outside screw and yolk valve which is not electrically supervised, the tag must serve as a seal for the valve. If the outside screw and yolk valve is electrically supervised, the tag must be attached in such a manner that the valve may be closed for testing of the supervision without removing the tag.

3. The last person to work on an automatic sprinkler system for any purpose must attach the tag to the valve. The tag must be punched to indicate the type of service which was performed on the system and the date. The service tag must be signed by the holder of the certificate of registration supervising the work. *No number stamp or date stamp is to be used, and the signature of the person signing the tag must be legible and signed and dated at the time of completion.*

4. An approved Nevada State Fire Marshal tag must be attached to the system at the conclusion of the successful testing of the system immediately after its installation.

( ) The tag must be printed by a printing company and include:

- ( ) A schedule of required service for the system;
- ( ) The date when the system was last serviced;
- ( ) The date when the next service is scheduled; and
- ( ) Company name, address and phone number
- ( ) License number issued by the State Fire Marshal's office
- ( ) The name and certificate number of the person who last serviced the system
- ( ) No number stamp or date stamp is to be used, and the signature of the person signing the tag must be legible and signed and dated at the time of completion.
- ( ) The signature of the person completing the work along with their certificate of registration number has to remain on the tag and may not be wiped or washed off.
- ( ) 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

( ) If the system is found to be deficient and the licensee does not have the authority to correct the deficiency, the word "deficient" must be written across the face of the tag in big black bold letters. The licensed firm shall notify the owner and the authority having jurisdiction of the deficiency in writing next business day.

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

BY ORDER OF STATE FIRE MARSHAL

DO NOT REMOVE

2010 2011 2012 2013 2014 2015

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

STATE FIRE MARSHAL

Number Here

Signature

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

Installed  Maintenance  Inspected

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 3/4"

TAG MUST BE PUNCHED NOT MARKED

Scale size is an example and is not mandated

Per NAC 477.425, Tag must be at least 4" long by 2" wide

[St. Fire Marshal, part §§ 4.304 & 4.305, eff. 11-27-78]—(NAC A 1-19-84; 8-22-86, eff. 9-1-86)

**NAV 477.483 is hereby amended to read as follows:**

**NAC 477.483 Requirements for installation.** (NRS 477.030, 477.033)

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 ~~[while]~~ *directly supervising the system being installed*.
4. Except as otherwise provided in subsection 5, all workmanship must conform to the requirements of this chapter and N.F.P.A., Standard 13-D, *2010 edition and N.F.P.A., Standard 13-R, 2010 edition*.
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 N.F.P.A. Standard 13-D, *2010 edition NFPA Standard 13-R, 2010 edition* and 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.  
(Added to NAC by St. Fire Marshal, eff. 8-24-90)

**NAC 477.540 is hereby amended to read as follows:**

**NAC 477.540 Inspection and testing.** (NRS 477.030)

1. The authority having jurisdiction may inspect a fire sprinkler system at any time during its installation. The authority having jurisdiction may witness any tests of the system. The *licensed firm* shall contact the authority having jurisdiction and schedule witnessing of any required testing, including, without limitation, final acceptance tests. *A certificate of registration holder must be on site directly supervising the work.*
2. The owner of any fire sprinkler system installed in accordance with this chapter and N.F.P.A. Standard 13D *2007 edition* shall conduct or cause to be conducted an annual test of the system. The firm that installed the system shall provide the owner with written instructions on the method of testing it. These instructions must include the location of the inspector's test valve, which must drain to the exterior of the building, the location of the water flow alarm mechanism and the location of the riser assembly. The annual test of the system is the responsibility of the owner of the system.  
(Added to NAC by St. Fire Marshal, eff. 8-24-90; A by R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.562 is hereby amended to read as follows and is hereby amended by adding hereto the provisions set forth as sections 5 thru 10, inclusive, of this regulations:**

**NAC 477.562 General requirements.** (NRS 477.030) The following requirements apply to child care facilities that require inspection and a certificate of ~~occupancy~~ **compliance** to be issued by the authority having jurisdiction:

1. Plans for the construction of new facilities or the remodeling of existing facilities must be submitted to the authority having jurisdiction for approval before the construction or remodeling begins.

2. Each facility must be inspected for compliance with applicable fire and safety regulations by the authority having jurisdiction before a license to operate the facility is issued. The facility must be inspected annually thereafter and have a current certificate of ~~occupancy~~ **compliance** issued by the authority having jurisdiction.

3. Smoke detectors approved by the State Fire Marshal must be installed pursuant to the manufacturer's instructions. In newly constructed buildings, smoke detectors 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 detector powered by a battery is currently installed and it fails, the smoke detector must be replaced by a smoke detector which receives its primary power from the wiring of the building and has a battery as a backup source of power.

~~[4. The number of occupants permitted in a facility must be calculated pursuant to N.F.P.A. Standard 101, or chapters 449 and 477 of NRS, as appropriate.]~~

*( ) Occupancy and classification is based on following:*

*( ) Child care center as defined by NAC 432A.050 has an occupancy classification of I-4 or E (for more than 12)*

*( ) Child care facility as defined by NAC 432A.060 has an occupancy classification of I-4 for 2 1/2 years of age or less and R-4 for 2 1/2 years or older (day or night more than five and no more than 15)*

*( ) Child care institution as defined by NAC 432A.070 has an occupancy classification of I-4 or E (day or night more than 16)*

*( ) A day care located in a family home as defined by NAC 432A.100 has an occupancy of R-3 (at least five not more than six)*

*( ) A day care located in a family home as defined by NAC 432A.110 has an occupancy of I-4 for 2 1/2 years of age or less and R-4 for 2 1/2 years or older (no less than seven and no more than twelve)*

5. 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.

6. 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.

7. 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.

8. 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.

9. Portable fire extinguishers must have a minimum rating of 2A-10BC and must be mounted pursuant to the requirements of N.F.P.A. Standard 10, **2007 edition** or the authority having jurisdiction.



10. 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.

11. All heating equipment and hot water heaters must be enclosed in a manner which prevents children from coming into contact with them.

12. Child-resistant covers must be installed on all electrical outlets accessible to children.

13. 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.

14. 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.

15. 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, 2006 edition.

(Added to NAC by St. Fire Marshal, eff. 3-9-89; A 8-24-90; 2-17-94; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.564 is hereby amended to read as follows:**

**NAC 477.564 Single-family residential occupancy interpreted.** (NRS 477.030)

1. For the purposes of this chapter, a child care facility that is being used as a foster home and which provides care for not more than ~~16~~ 15 children shall be deemed to be a single-family residential occupancy.

2. As used in this section, “foster home” has the meaning ascribed to it in NRS 424.014.

(Added to NAC by St. Fire Marshal, eff. 2-17-94)

**NAC 477.566 is hereby amended to read as follows:**

**NAC 477.566 Devices for detection of products of combustion.** (NRS 477.030) 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, 2009 edition and N.F.P.A. Standard 72, 2007 edition if so required by the authority having jurisdiction.

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A 8-22-86, eff. 9-1-86; 8-24-90; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.568 is hereby amended to read as follows:**

**NAC 477.568 Sprinkler system for certain child care facilities used after midnight.** (NRS 477.030) 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 a sprinkler system installed which conforms to N.F.P.A. Standard 13, 2007 edition, 13D, 2007 edition or 13R, 2007 edition, as applicable, and the requirements of the International Building Code, 2009 edition. The sprinkler system must be tied into the fire alarm system so that activation of any portion of the sprinkler system will activate the alarm system.

(Added to NAC by St. Fire Marshal, eff. 3-9-89; A by R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.611 is hereby amended to read as follows:**

**NAC 477.611 Application for license; categories, classifications and fees.** ([NRS 477.030, 477.033](#)) An applicant for a license for producing commercial displays of fireworks must:

1. Make written application on the forms provided.
2. Indicate on the application which category of license and classification he desires to obtain and pay the appropriate inspection and issuance fee, as follows:

General category:

Indoor stage.....	\$110
Outdoor aerial.....	110
Special effects.....	110
Show specific.....	110
<i>Propane.....</i>	<i>110</i>
<i>Natural gas.....</i>	<i>110</i>
<i>Solid fuels.....</i>	<i>110</i>
Limited event license (exempt).....	no fee

~~[Special classification: Propane, natural gas or solids]~~

3. Furnish the Division with the required certificate of insurance.
4. Sign the application as follows:
  - (a) If the applicant is a sole proprietorship, by the proprietor.
  - (b) If the applicant is a partnership, by each partner.
  - (c) If the applicant is a corporation, by an officer.
  - (d) Signatures must be notarized.*
5. Cooperate with the State Fire Marshal in the investigation of the applicant’s application.  
(Added to NAC by St. Fire Marshal, eff. 1-19-84; A 2-17-94; R207-99, 2-7-2000)

**NAC 477.616 is hereby amended to read as follows:**

**NAC 477.616 Categories of licenses; requirements for producing display.** ([NRS 477.030, 477.033](#))

1. Licenses will be issued to companies in one 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) Indoor stage;
    - (2) Outdoor aerial;
    - (3) Special effects; or
    - (4) Show specific.
  - A ~~[general]~~ license *is valid [until] from May 1 and expires on April 30* following its date of issue. *If the application and renewal fee are not received by the date and time specified, the licensee must start the entire process over.*
  - (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) *issued by the State Fire Marshal's Division with a description of the event to be held, specifying location and date of the event.* ~~[for a Fourth of July 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 *either a written test or they may work under the direct supervision of a certified pyrotechnic card holder.* ~~[the prescribed training program provided by the State Fire Marshal; 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 a licensee must:

- (a) Obtain any permit or permits required by local authority; and
- (b) Employ only pyrotechnic operators who are registered with the State Fire Marshal to conduct the display or discharge of the fireworks.

*( ) Proper safety attire must be worn at all times as out lined in N.F.P.A. 1123 8.1.3.4*

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A 2-17-94; R207-99, 2-7-2000; R062-04, 9-3-2004)

**NAC 477.618 is hereby amended to read as follows:**

**NAC 477.618 Insurance.** ([NRS 477.030](#), [477.033](#)) The ~~[applicant]~~ *licensed firm* must furnish the State Fire Marshal with a certificate of insurance from a company authorized to provide such insurance in this State which evidences the following:

1. Minimum coverage for bodily injury arising out of the conduct of commercial displays of fireworks of:

- (a) For each person, \$100,000; and
- (b) For each occurrence, \$1,000,000.

2. Minimum coverage for property damage arising out of the conduct of commercial displays of fireworks of \$1,000,000.

3. Fifteen days' written notice by the insurer to the State Fire Marshal of its intention to cancel the policy.

4. Inclusion of any pyrotechnic operator employed by the licensed firm, either as an employee or as an independent contractor, *and the State of Nevada* as an additional named insured.

5. Specific exclusion of the State from any responsibility for the payment of any premium or assessment required by the policy of insurance.

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A 2-17-94; R207-99, 2-7-2000)—  
(Substituted in revision for NAC 477.621)

**Chapter 477.620 of NAC is hereby amended by adding a new section to read as follows:**

**NAC 477.620 Magicians: Certificate required; qualifications; fee; authorized acts.**  
([NRS 477.030](#), [477.031](#))

1. Before a person may act as a magician, the person must obtain a certificate of registration as a magician from the State Fire Marshal. To receive a certificate of registration as a magician, a person must:

- (a) Be a natural person who is at least 21 years of age;
  - (b) Make a written *notarized* application for such a certificate of registration to the State Fire Marshal on a form provided by the State Fire Marshal; and
  - (c) Pay an initial fee of \$27.50.
2. A holder of a certificate of registration as a magician may handle and discharge flash paper, flash cotton, flash string, and solid and powder smoke composition that is either in solid or powdered form. The areas made hazardous by these devices must be within the immediate reach of the magician to whom the certificate of registration is issued, not to exceed a distance of 12 feet.

*( ) A magician's certificate of registration is valid from May 1 and expires on April 30 following its date of issue. If the application and renewal fee are not received by the specified date and time, the applicant must start over*

(Added to NAC by St. Fire Marshal by R207-99, eff. 2-7-2000)

**NAC 477.622 is hereby amended to read as follows and is hereby amended a new section to read as follows:**

**NAC 477.622 Assistant pyrotechnic operators: Certificate required; qualifications; fee; authorized acts. ([NRS 477.030](#), [477.031](#))**

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 a written *notarized* application for such a certificate of registration to the State Fire Marshal on a form provided by the State Fire Marshal;
- (c) Pass, ~~[with a score of at least 85 percent]~~, *a written test based on the content of applicable N.F.P.A. 1126, 2006 edition and N.F.P.A. 1124, 2006 edition and the regulations of the State Fire Marshal; and*
- (d) Pay an initial fee of \$27.50.

*( ) Letters of endorsement from two persons who hold certificates of registration as a pyrotechnic operator issued by the State Fire Marshal, a letter from the company they work for or the owner of the company stating that they have worked for the company for at least 90 days, or are licensed or certified as a pyrotechnic operator in good standing by another state recognized by the Nevada State Fire Marshal.*

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.

*( ) A certificate of registration is valid from May 1 and expires on April 30 following its date of issue. If the application and renewal fee are not received by the specified date and time, the applicant must start over.*

(Added to NAC by St. Fire Marshal by R207-99, eff. 2-7-2000)

**NAC 477.624 is hereby amended to read as follows and is hereby amended a new section to read as follows:**

**NAC 477.624 Pyrotechnic operators: Certificate required; qualifications; application and fee for certificate.** ([NRS 477.030](#), [477.031](#)) 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:

1. Be a natural person who is at least 21 years of age;
2. Make a written *notarized* 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;
3. 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;
4. If the applicant holds a certificate of registration as an assistant pyrotechnic operator pass with a score of at least **75** percent, a final examination that covers the design, construction, storage and use of fireworks; and
5. Submit to the State Fire Marshal:
  - (a) 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 applies for the certificate of registration as a pyrotechnic operator; and
  - (b) Letters of endorsement from ~~three~~ *two* persons who hold certificates of registration as a pyrotechnic operator issued by the State Fire Marshal, *a letter from the company they work for or the owner of the company stating that they have worked for the company for at least 90 days*, or are licensed or certified as a pyrotechnic operator in good standing by another state *recognized by the Nevada State Fire Marshal*.

*□□ A certification of registration is valid from May 1 and expires on April 30 following its date of issue. If the application and renewal fee are not received by the specific date and time, the applicant must start over*

(Added to NAC by St. Fire Marshal by R207-99, eff. 2-7-2000; A by R062-04, 9-3-2004)

**NAC 477.626 is hereby amended to read as follows and hereby amended by adding thereto a new section to read as follows:**

**NAC 477.626 Pyrotechnic operators: Certification required; supervision of assistant.** ([NRS 477.030](#)) No person may purchase pyrotechnics for the purposes of commercial display or prepare, handle, detonate, display or discharge fireworks or special effects without having first obtained a valid certificate of registration as a pyrotechnic operator for indoor stage, outdoor aerial, special effects or show specific. An assistant to a certified pyrotechnic operator must be under the *direct* supervision of the certified pyrotechnic operator. □

*□ A certificate of registration is valid from May 1 and expires on April 30 at following its date of issue. If the application and renewal fee are not received by the specified date and time, the applicant must start over*

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A 7-16-85, eff. 8-1-85; 3-9-89; 2-17-94; R207-99, 2-7-2000; R062-04, 9-3-2004)

**NAC 477.628 is hereby amended to read as follows and hereby amended by adding thereto a new section to read as follows:**

**NAC 477.628 Pyrotechnic operators on show specific: Certificate required; qualifications; fee.** (NRS 477.030, 477.031) Before a person may act as a pyrotechnic *assistant* or operator on a show specific, the person must obtain a certificate of registration for show specific from the State Fire Marshal. To receive a certificate of registration for show specific, an applicant must:

1. Be a natural person who is at least 21 years of age;
2. Make a written *notarized* 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]~~ *the prescribed fee*
3. Meet the minimum requirements for receiving a certificate of registration as an assistant pyrotechnic operator;
4. Submit to the State Fire Marshal a log that demonstrates that the applicant has worked on at least 50 performances of the show;
5. Have evidence that he has been employed with the show for at least 90 days; and
6. Have a letter of endorsement from:
  - (a) A holder of a certificate of registration as a pyrotechnic operator or certificate of registration for show specific; and
  - (b) A representative of the license holder for the show, including, without limitation, a representative of the hotel or property at which the show is performed or the producer of the show.

*A certificate of registration is valid from May 1 and expires on April 30 following its date of issue. If the application and renewal fee are not received by the specified date and time, the applicant must start over*

(Added to NAC by St. Fire Marshal by R207-99, eff. 2-7-2000)

**NAC 477.630 is hereby amended to read as follows and is hereby amended by adding thereto a new section to read as follows:**

**NAC 477.630 Fire performers: Certificate required; qualifications; application and fee for certificate.** (NRS 477.030, 477.031)

1. Before a person may act as a fire performer, the person must obtain a certificate of registration as a fire performer from the State Fire Marshal.
2. An applicant for a certificate of registration as a fire performer must:
  - (a) Be a natural person; *who is at least 21 years of age*
  - (b) Make a written *notarized* application for a certificate of registration to the State Fire Marshal on a form provided by the State Fire Marshal;
  - (c) Submit to the State Fire Marshal a resume of the experience of the applicant, *where the knowledge was acquired* and a description of all safety precautions used by the applicant; and
  - (d) Pay an application fee of \$27.50.

( ) As used in this section, “fire performer” means an entertainer or other performer who performs work for an audience using an open flame. *(this is not considered a flame effect as specified in NAC 477.631)*

( ) *A certificate of registration is valid from May 1 and expires on April 30 following its date of issue. If the application and renewal fee are not received by the specified date and time, the applicant must start over*

(Added to NAC by St. Fire Marshal by R062-04, eff. 9-3-2004)

**NAC 477.631 is hereby amended to read as follows and is hereby amended by adding thereto a new section to read as follows:**

**NAC 477.631 Flame effects assistant: Certificate required; qualifications; fee. (NRS 477.030, 477.031)**

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 flames effect assistant must:

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

(b) Make written *notarized* application on the form provided, including the application fee of \$27.50;

(c) Indicate on the application which category of certificate he wishes to obtain, such as natural gas, propane or solids, and include the appropriate fee for that category; and

(d) Successfully pass, with a score of at least ~~[85]~~ 75 percent, a preliminary written examination which includes questions concerning basic safety from N.F.P.A. 160 and this chapter.

*( ) Letters of endorsement from two persons who hold certificates of registration as a flame effect operator issued by the State Fire Marshal, a letter from the company they work for or the owner of the company stating that they have worked for the company for at least 90 days, or are licensed or certified as a flame effect operator in good standing by another state recognized by the Nevada State Fire Marshal.*

*A certificate of registration is valid from May 1 and expires on April 30 following its date of issue. If the application and renewal fee are not received by the specified date and time, the applicant must start over*

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A 8-24-90; 2-17-94; R207-99, 2-7-2000)

**NAC 477.633 is hereby amended to read as follows and is hereby amended by adding thereto a new section to read as follows:**

**NAC 477.633 Flame effects operator: Certificate required; qualifications; fee. (NRS 477.030, 477.031)**

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

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

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

(b) Make a written *notarized* application for such a certificate of registration to the State Fire Marshal on a form provided by the State Fire Marshal, including ~~[an application fee of \$55;]~~ *the prescribed fee*

(c) Indicate on the application the classification for which the applicant is applying, such as natural gas, propane or solids, and include the appropriate fee for that category;

(d) Hold a certificate of registration as a flame effects assistant issued by the State Fire Marshal or be licensed ~~[or certified in good standing by another state to provide flame effects before an audience, as approved by the State Fire Marshal];~~ *or certified in good standing as a flame effects operator by another state recognized by the Nevada State Fire Marshal*

(e) Submit to the State Fire Marshal a certificate of completion or other such documentation that demonstrates that the applicant has successfully completed a course approved by the State

Fire Marshal that pertains to the classification of certification, such as natural gas, propane or solids, sought by the applicant.

*A certificate of registration is valid from May 1 and expires on April 30 following its date of issue. If the application and renewal fee are not received by the specified date and time, the applicant must reapply*

(Added to NAC by St. Fire Marshal by R207-99, eff. 2-7-2000)

**NAC 477.635 is hereby amended to read as follows and is hereby amended by adding thereto a new section to read as follows:**

**NAC 477.635 Flame effects operator or flame effects assistant: Renewal of certification; fees.** ([NRS 477.030](#), [477.031](#)) A certificate of registration as a flame effects operator or flame effects assistant must be renewed annually. An applicant for the renewal of a certificate of registration as a flame effects operator or flame effects assistant, as appropriate, must submit to the State Fire Marshal:

1. A *notarized* application for the renewal of the certificate of registration and  ~~[a fee of \$55 for an operator or \$27.50 for an assistant; and]~~  *pay the prescribed fee*
2. A log which indicates the number of events or performances which the applicant had during the previous 12 months. *Performances do not need to be limited to Nevada only.* To get a certificate of registration renewed, the applicant must, for each classification sought to be renewed, have logged the following number of events or performances during the previous 12 months:

Events using propane.....	At least two performances
Events using natural gas.....	At least two performances
Events using solid fuel.....	At least one performance

*A certificate of registration is valid from May 1 and expires on April 30 following its date of issue. If the application and renewal fee are not received by the specified date and time, the applicant must reapply.*

(Added to NAC by St. Fire Marshal by R207-99, eff. 2-7-2000)

**NAC 477.636 is hereby amended to read as follows:**

**NAC 477.636 Certificates: Categories; authorized acts; duration.** ([NRS 477.030](#))

1. Certificates of registration for pyrotechnic operators will be issued to successful applicants. Such a certificate of registration permits the registrant to handle, supervise and discharge fireworks and special effects at events held for entertainment whether or not before a live audience. The certificate of registration will be issued for outdoor aerial display, indoor stage, special effects or show specific. Any person igniting fireworks must be at least 21 years of age.
2. A certificate of registration for indoor stage or special effects permits the registrant to handle, supervise and discharge special effects for the purpose of recording the result on film or videotape or for producing a sound effect where no audience is present other than incidental spectators. A registrant in this category may handle, supervise or discharge any class of fireworks if the production of a film or videotape requires their use.
3.  ~~[A certificate of registration issued pursuant to this section is valid until June 30 following its date of issue].~~



□ *A certificate of registration is valid from May 1 and expires on April 30 at following its date of issue. If the application and renewal fee are not received by the specified date and time, the applicant must start over*

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A 3-9-89; R207-99, 2-7-2000; R062-04, 9-3-2004)

**NAC 477.641 is hereby amended to read as follows and is hereby amended by adding thereto the provisions set forth as sections A, B of this regulations:**

**NAC 477.641 Renewal of license or certificate: Requirements; fees. ([NRS 477.030](#), [477.031](#), [477.033](#))**

1. A ~~licensee~~ *licensed firm* or registrant who wishes to renew his license or certificate *of registration* must do so between ~~[April 1 and June 1]~~, *February 1 and April 30* inclusive *as certificates and licenses expire on April 30th of every year.*

*( ) Initial fees for new company licenses must be paid in full unless the fees are paid in the final quarter of the licensing year. Initial fees which are paid in the final quarter shall be reduced by 50 percent.*

*( ) If a fee for a licensed firm is not paid by the time it is due, a late charge of 12 percent per month shall be assessed as an administrative fee for processing and the company may not perform any work until the entire fee has been paid.. The charge must be assessed beginning at the end of the first working day after the fee is due*

2. Fees for the renewal of a certificate of registration are *per license class* as follows:

<i>Pyrotechnic operator indoor.....</i>	<i>\$55.00</i>
<i>Pyrotechnic operator outdoor.....</i>	<i>\$55.00</i>
<i>Pyrotechnic operator special effects.....</i>	<i>\$55.00</i>
<i>Pyrotechnic operator show specific.....</i>	<i>\$55.00</i>
<i>Pyrotechnic Assistant indoor.....</i>	<i>\$27.50</i>
<i>Pyrotechnic Assistant outdoor.....</i>	<i>\$27.50</i>
<i>Pyrotechnic Assistant special effects.....</i>	<i>\$27.50</i>
<i>Pyrotechnic Assistant show specific.....</i>	<i>\$27.50</i>
<del>Flame Effect Operator Propane</del>	<del>\$55.00</del>
<del>Flame Effect Operator Natural gas</del>	<del>\$55.00</del>
<del>Flame Effect Operator Solid</del>	<del>\$55.00</del>
<del>Flame Effect Assistant Propane</del>	<del>\$27.50</del>
<del>Flame Effect Assistant Natural Gas</del>	<del>\$27.50</del>
<del>Flame Effect Assistant Solid</del>	<del>\$27.50</del>
<del>[ Indoor stage.....</del>	<del>.....</del>
<del>[ Outdoor aerial.....</del>	<del>— 55.00</del>
<del>[ Special effects.....</del>	<del>— 55.00</del>
<del>[ Show specific.....</del>	<del>— 55.00]</del>
Magician.....	27.50
Fire Performer.....	27.50
Duplicate certificate of registration or change of address.....	11.00

3. To renew a certificate of registration, the holder of the certificate of registration must, for each classification sought to be renewed, have logged the following number of events or performances during the previous 12 months:

Outdoor aerial.....	At least one performance
Indoor stage.....	At least five performances
Special effects.....	At least <del>three</del> two performances
Show specific.....	At least 10 performances

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A by R207-99, 2-7-2000; R062-04, 9-3-2004)

**NAC 477.646 is hereby amended to read as follows and is hereby amended by adding thereto the provisions set forth as sections A to 4, inclusive, of this regulations:**

**NAC 477.646 Disciplinary action; reports of incidents; transfer of fireworks, special effects and pyrotechnic devices. ([NRS 477.030](#), [477.033](#))**

1. The State Fire Marshal may suspend, revoke or refuse to renew a license for ~~commercial~~ *pyrotechnic, flame effect* displays ~~of fireworks~~ or a certificate *of registration* ~~of a~~ *for pyrotechnics, flame effects, magicians, and fire performers* if the *licensed firm* or registrant has caused injuries or permitted a fire hazard at a location at which he:

- (a) Stores, handles or prepares fireworks, special effects or pyrotechnic devices; or
- (b) Produces or conducts a commercial display of fireworks or special effects.

*( ) If an injury or a fire results from an incident the licensed firm or registrant must notify the State Fire Marshal duty chief by contacting the Department of Public Safety Dispatch center in Carson City at (775) 687-0485 immediately, the following information must be given:*

*( ) Contact name and phone number*

*( ) Location of the incident*

*( ) Date and time of incident*

*( ) Type of incident*

*( ) Injury, number of injury*

*( ) Has anyone been transported to the hospital*

*( ) Fatalities, number of fatalities*

*( ) Fire, was the local fire department called and did they respond*

*( ) The licensed fire or registrant must submit a report to the State Fire Marshal office with in 5 working days explaining the incident.*

*( ) Failure to notify the State Fire Marshal duty chief, provide a report and cooperation with an investigation of the incident from the State Fire Marshal Division and or local AHJ is grounds for immediate revocation of license or certificate.*

~~*2. If an incident results from a fire hazard caused or permitted by a or registrant, he shall immediately submit to the State Fire Marshal a report explaining the incident. The failure to make this report is grounds for immediate revocation of the license or certificate, effects or pyrotechnic devices, were transferred.*~~

*( ) Obtained or attempted to obtain a license or certificate of registration by fraud, misrepresentation or falsifying information required on an application form.*

*( ) Been found guilty of malpractice or incompetence.*

- ( ) Failed to pay the annual fees for renewal of a license or certificate of registration.*
  - ( ) Violated any provision of this chapter three or more times within a 12-month period.*
  - ( ) Submitted payment for a license or certificate upon an account which has insufficient funds.*
  - ( ) Been convicted of a felony.*
  - ( ) Refused to cooperate with the State Fire Marshal in an investigation.*
  - ( ) It has been used by a person other than the person to whom it was issued.*
  - ( ) It has been used for a location other than that for which it was issued.*
3. A person whose license or certificate has been revoked must dispose of the fireworks, special effects or pyrotechnic devices in his possession *or in a manner prescribed by the Nevada State Fire Marshal.* ~~[within 10 days after receiving written notice to do so by the State Fire Marshal.]~~ In complying with this subsection, the licensee or registrant shall transfer the fireworks, special effects or pyrotechnic devices only to a person who is licensed to produce commercial displays of fireworks or who is otherwise permitted to lawfully purchase and possess fireworks or pyrotechnic devices. Upon the transfer of the fireworks, special effects or pyrotechnic devices, the licensee or registrant shall submit a written report to the State Fire Marshal which includes the name, license number, address and telephone number of the person to whom the fireworks, special
- ( ) All licenses and certificates of registration remain the property of the State Fire Marshal and may not be suspended or revoked by any other person or agency.*
- (Added to NAC by St. Fire Marshal, eff. 1-19-84; A 7-16-85, eff. 8-1-85; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.651 is hereby amended to read as follows:**

**NAC 477.651 Records; reports of disappearance; investigation. (NRS 477.030)**

1. Each licensee or registrant shall maintain a complete record of the construction, manufacture, import, export, sale or other disposition for all fireworks and pyrotechnic devices which come into his possession. The record must identify the materials by kind or class of fireworks or pyrotechnic composition.
2. Each licensee or registrant shall report the theft, loss or other disappearance of any fireworks, pyrotechnic devices or other pyrotechnic compositions. The report must include identification of the quantity, type, kind and class of the missing materials, the location of the loss or disappearance and the circumstances in which the loss or disappearance occurred.
3. The State Fire Marshal *and* the fire department or law enforcement agency in whose jurisdiction the loss of the fireworks or pyrotechnic devices occurred, will investigate the circumstances in which the loss or disappearance occurred and will attempt to recover the missing material.

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A by R220-99, 9-25-2000)

**NAC 477.666 is hereby amended to read as follows:**

**NAC 477.666 Seizure and disposal of fireworks. (NRS 477.030)**

1. Fireworks stored in violation of [NAC 477.571](#) to [477.666](#), inclusive, which have become chemically unstable or which are in the possession of a person who is not a licensee or registrant or whose license or certificate has been suspended ~~[or revoked]~~ are hereby declared to be fire hazards and may be seized and disposed of by the authority having jurisdiction. ~~[Except as otherwise provided in this subsection, the seizure may take place only after reasonable advance~~

~~written notice is given to the holder of the permit who stores the fireworks unless there exists an imminent threat of danger to life or property. If such a threat exists, those f~~Fireworks which create an imminent threat of danger to life or property may be seized without notice by the *State Fire Marshal Division and/or* authority having jurisdiction.

2. The officer seizing the fireworks must promptly report to the State Fire Marshal concerning:

- (a) The quantity and type of the fireworks seized;
- (b) The location where the seizure occurred;
- (c) The circumstances prompting the seizure; and

(d) The condition of the containers and fireworks seized. Fireworks that are found to be unstable or incompatible must be destroyed.

3. The authority having jurisdiction will take and retain possession of the seized fireworks during any judicial or administrative proceedings involving the fireworks 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 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. 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.

5. Fireworks transported in violation of any applicable federal or state law or regulation will be seized and impounded. The explosive load of any impounded firework must not be separated unless necessary to remove unstable or incompatible materials. Materials that are found to be unstable or incompatible will be destroyed at the expense of the owner or possessor, or both.

(Added to NAC by St. Fire Marshal, eff. 1-19-84; A 7-16-85, eff. 8-1-85; 3-9-89; R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.710 is hereby amended to read as follows and is hereby amended by adding a thereto a new sections to read as follow:**

**NAC 477.710 Certificate required; qualifications; exemptions; renewal of certificate; fees. ([NRS 477.030](#), [477.031](#), [477.033](#))**

1. Except as otherwise provided in subsection 3, no person may use explosives in blasting operations for commercial construction unless he has a certificate of registration for blasting issued by the State Fire Marshal or is under the direct supervision of a person holding such a certificate. An applicant for a certificate of registration for blasting must:

- (a) Meet the criteria outlined in section 3301.4 of the International Fire Code, 2006 edition;
- (b) Pass a background check;
- (c) Pass a written, ~~oral or other type of~~ examination, *a passing score is 75 percent*, as determined by the State Fire Marshal; and

(d) Pay ~~a fee of \$55~~ *the prescribed fee* at the time he submits his *notarized* application. *along with a fingerprint card, two (2) passport size color photographs (2 inch by 2 inch) resume and a letter from his employer and/or any other pertinent documentation including any other state licenses that have been approved by the Nevada State Fire Marshal,*

*( ) A copy of the blaster Employee Processor of Clearance or the Responsible Person of Clearance from the United States Alcohol, Tobacco and Fire Arms (US ATF), this must be the most current letter on record and must be maintained.*

2. The certificate of registration for blasting must be in the possession of the registrant while he is performing blasting operations. A registrant must pay a fee of ~~[\$11]~~ *the prescribed fee for an address change* or a duplicate of a certificate that has been lost or destroyed.

3. This section does not apply to the use of pyrotechnics governed by other provisions of this chapter or the use of explosives:

(a) By a person engaged in agriculture or ranching for occasional use on his property;

(b) By an employee of the State, a local government or the Federal Government who uses explosives for construction in the proper performance of his duties; or

(c) ~~[Hn gasoline]~~ *Flammable or combustible liquid*, in fertilizer and in tools or other devices which are actuated by a propellant.

5. *(Prior to January 1, 2012)* A certificate of registration for blasting must be renewed every 2 years. An applicant for renewal must ~~[pass a test prescribed by the State Fire Marshal and]~~ pay a fee of \$55 before his certificate of registration for blasting may be renewed.

5. *(Effective on and after January 1, 2012)* A certificate of registration for blasting must be renewed every ~~[2]~~ *1* years. An applicant for renewal must ~~[pass a test prescribed by the State Fire Marshal and]~~ pay a fee of \$55 before his certificate of registration for blasting may be renewed.

(Added to NAC by St. Fire Marshal, 7-16-85, eff. 8-1-85; A 2-17-94; R207-99, 2-7-2000; R062-04, 9-3-2004)

**NAC 477.770 is hereby amended to read as follows and is hereby amended by adding thereto the provisions as set forth as sections A to C, inclusive, of this regulations:**

**NAC 477.770 Licensing/*certificate of registration* requirements for servicing and cleaning. ([NRS 477.030](#))**

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. *To obtain a license to service and clean a Type I exhaust system the licensee must:*

*( ) Submit a complete notarized application,*

*( ) a sample of a tag following the State Fire Marshal's regulations*

*( ) pay the prescribed fee.*

2. To obtain a ~~[License]~~ *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, *passing score is 75 percent; submit a complete notarized application, pay the prescribed fee and submit a letter from his employer stating that he works for the company and has knowledge of hood and duct cleaning.*

(b) Establish that he has read and understands N.F.P.A. Standard 96 *2008 edition*, section 11.4, and is properly equipped to service and clean Type 1 exhaust system grease ducts *and the State Fire Marshal regulations.*

3. A *licensed firm* who 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.

4. Employees of the *licensed firm* who are not ~~[Licensed]~~ *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 *actively supervising the 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.

(Added to NAC by St. Fire Marshal, eff. 3-9-89; A by R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.780 is hereby amended to read as follows and is hereby amended by adding thereto the provisions set forth as sections 4 and 5 of these regulations:**

**NAC 477.780 Cleaning contracts and reports; reports of deficiencies; cleaning requirements. (NRS 477.030)**

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. ~~[Within 30 day a]~~ 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 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 96, **2008 edition**, section 11.4.

**( ) When a cleaning contract has expired or the owner no longer wishes service the company must send a letter stating such to the authority having jurisdiction by the close of the next business day.**

(Added to NAC by St. Fire Marshal, eff. 3-9-89; A by R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.790 is hereby amended to read as follows and hereby amended by adding thereto the provisions set forth as sections 6 thru 10, inclusive, of this regulations:**

**NAC 477.790 Attachment and contents of tag regarding servicing. (NRS 477.030)** A tag or stick-on label approved by the ~~[authority having jurisdiction]~~ **State Fire Marshal's Division** must be attached to the hood of a Type 1 exhaust system. The tag must **be printed by a printing company and** include:

- 1. A schedule of required service for the system;
  - 3. The date when the system was last serviced;
  - 4. The date when the next service is scheduled; and
  - 5. **Company name, address and phone number**
- ( ). License number issued by the State Fire Marshal's office**
- 4. The name and certificate number of the person who last serviced the system.

- ( ). No number stamp or date stamp is to be used, and the signature of the person signing the tag must be legible and signed and dated at the time of completion.
- ( ). The signature of the person completing the work along with their certificate of registration number has to remain on the tag and may not be wiped or washed off.
- ( ). 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.

**Hood & Duct Sticker**

TAG MUST BE PUNCHED NOT MARKED

DATE OF LAST SERVICE

<input type="checkbox"/> JAN	<input type="checkbox"/> APR	<input type="checkbox"/> JUL	<input type="checkbox"/> OCT	<input type="checkbox"/> 2010	<input type="checkbox"/> 2013	<input type="checkbox"/> 2016	<input type="checkbox"/> 2019
<input type="checkbox"/> FEB	<input type="checkbox"/> MAY	<input type="checkbox"/> AUG	<input type="checkbox"/> NOV	<input type="checkbox"/> 2011	<input type="checkbox"/> 2014	<input type="checkbox"/> 2017	<input type="checkbox"/> 2020
<input type="checkbox"/> MAR	<input type="checkbox"/> JUN	<input type="checkbox"/> SEP	<input type="checkbox"/> DEC	<input type="checkbox"/> 2012	<input type="checkbox"/> 2015	<input type="checkbox"/> 2018	<input type="checkbox"/> 2021

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

**Company Name**

Address

City, State ZIP

(Area Code) + Number

Next Scheduled Service

30 Days     120 Days

60 Days     180 Days

90 Days    Other \_\_\_\_\_

H – License Number Here

Serviced By: \_\_\_\_\_ CofR #: \_\_\_\_\_

5 1/2"

Scale size is an example and is not mandated

(Added to NAC by St. Fire Marshal, eff. 3-9-89)

**NAC 477.810 is hereby amended to read as follows:**

**NAC 477.810 Inspections and reports; hydrostatic tests; required tags; supervision of service required. ([NRS 477.030](#))**

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 the Fire Protection Systems Inspection, Test and Maintenance Manual as published by the N.F.P.A. **25, 2008 edition.**

2. A copy of the annual inspection report must be maintained on-site and sent to the owner. A report describing any deficiencies found during the annual inspection must be sent to the authority having jurisdiction if the owner fails to correct the deficiency within 10 days after the inspection.

3. 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.

4. 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.

5. 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.

(Added to NAC by St. Fire Marshal, eff. 3-9-89; A by R220-99, 9-25-2000; R062-04, 9-3-2004)

**NAC 477.850 is hereby amended to read as follows:**

**NAC 477.850 Tag for recording installation, maintenance and inspection; notice of deficiency. (NRS 477.030)**

1. A tag for recording the installation, maintenance and inspection of fire standpipe systems must be at least 4 inches long, 2 inches wide and conform to the requirements of [NAC 477.470](#).

2. The tag must serve as a seal for the riser control valve and must be attached in such a manner that the valve cannot be closed without removing the tag.

3. The holder of a certificate of registration who is supervising the work on a system must be present *and actively supervising* at all times that work is being done on the system and must sign, date and punch the tag and attach it to the system immediately at the conclusion of testing or completion of the installation. If the system ~~remains~~ is found to be deficient and the licensee does not have the authority to correct the deficiency, the word “deficient” must be written across the *face of the tag in big black bold letters* ~~[bottom of the tag]~~. The *licensed firm* shall notify the owner and the authority having jurisdiction of the deficiency in writing ~~[within 5 days]~~ *next business day.. [after completing the work]*.

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

BY ORDER OF STATE FIRE MARSHAL

DO NOT REMOVE

STATE FIRE MARSHAL

Number Here

Company Address

City, State, ZIP

Signature

Installed

Maintenance

Inspected

2010 2011 2012 2013 2014 2015

Jan Feb Mar Apr 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 3/4"

TAG MUST BE PUNCHED NOT MARKED

Scale size is an example and is not mandated

Per NAC 477.425, Tag must be at least 4" long by 2" wide

(Added to NAC by St. Fire Marshal, eff. 3-9-89; A by R220-99, 9-25-2000; R062-04, 9-3-2004)



**NAC 477.915 is hereby amended to read as follows:**

**477.915 1. Every existing building owned by the State of Nevada must:**

- (a) Comply with the provisions of NRS 477.100 to 477.170, inclusive;
- (b) Meet the requirements of the building code in effect when the building was constructed;
- (c) If the building:
  - (1) Is designated as a B occupancy;
  - (2) Regardless of occupancy designation, has a floor area which exceeds 12,000 square feet on any floor or 24,000 square feet on all floors, including any mezzanines; or
  - (3) Is an R-1 or R-2 *or R-4* occupancy,  
→ be scheduled for installation of an automatic fire suppression system during the next remodeling of or addition to the building;
- (d) Meet the requirements for fire flows contained in this chapter and the International Fire Code, ~~[2006]~~ 2006 edition; and

**Chapter 477 of NAC is hereby amended by adding thereto a new section to read as follows:**  
*The State Fire Marshal Division will administer the Fire Safe Cigarettes program as outlined in the Nevada Revised Statute 477.172 thru 477.214*

**Chapter 477 of NAC is hereby amended by adding thereto a new section to read as follows:**  
(this was a section that was in the 2001 NAC and was removed, would like to add back in)

*NAC 477.432 Servicing and repairs; Required equipment, tools and materials. (NRS 477.030)*

*1. The following equipment must be located in a shop and or vehicle to service fire extinguishers and fixed fire extinguishing systems:*

- (A) A dry compressor with a moisture monitor and pressurizing station or a dry nitrogen supply and pressurizing station*
- (B) A carbon dioxide supply fill station; or a letter of agreement from a licensed fill station*
- (C) A clean agent supply and fill station, or a letter of agreement from a licensed fill station*
  - (1) Work benches*
  - (2) Cylinder racks, as appropriate*
  - (3) A dry chemical fill station with an approved closed recovery system*
  - (4) A shop vacuum*
  - (5) 100 hundred and 500 hundred pound beam scales which must be calibrated annually*
  - (6) Low pressure hydro-static test equipment, or a letter from a company that provides hydro-static test service*
  - (7) Test cages, as appropriate*
  - (8) A cylinder vise and bench*
  - (9) Regulators*
  - (10) Gauges which must be calibrated annually*
  - (11) A system for keeping records which must be available for inspection*
  - (12) Power drills and bench grinders*
  - (13) Approved service tags and internal tags*
  - (14) Approved seals*

- (15) A measuring tape*
- (16) A penlight*
- (17) Extension mirrors*
- (18) An internal inspection light*
- (19) A scale which is able to measure weights up to 50 pounds and which is calibrated annually*
- (20) A 4-pound by 1-ounce cartridge scale*
- (21) Assorted recharge adapters*
- (22) Taps and dies*
- (23) Pipe and screw extractors*
- (24) Wire and nylon bristle brushes*
- (25) Hammers and mallets*
- (26) Drift pins, punches, reamers and rivets*
- (27) Pliers, wrenches and screwdrivers*
- (28) Knives, files and hacksaws*
- (29) An approved closed recovery collection system*
- (30) Lubricants*
- (31) Sealing compounds*
- (32) A quantity of mixed extinguishing agents necessary for servicing equipment*
- (33) Assorted discharge nozzles*
- (34) Assorted discharge hoses*
- (35) Assorted "O" rings*
- (36) Assorted pressure gauges*
- (37) Assorted valve springs*
- (38) Assorted valve stems*
- (39) Assorted siphon tubes*
- (40) Assorted pull pins*
- (41) Brackets and wall hangers*
- (42) A chain hoist and trolley, as appropriate*