

This is an unofficial compilation prepared by the Division of Industrial Relations which incorporates the additions, amendments and repeal of regulations as of the adoption of the Emergency Regulation on June 16, 2020.

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

CHAPTER 455C - BOILERS, ELEVATORS AND PRESSURE VESSELS

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BOILERS AND PRESSURE VESSELS

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[Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support

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- arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.]
- 455C.460 Certificate: Application and prerequisites; issuance; expiration; restrictions. [Effective on the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.]
- 455C.462 Certificate: Renewal. [Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.]
- 455C.462 Certificate: Renewal. [Effective on the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.]

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- 455C.464 Certificate of competency: Application and prerequisites; issuance; expiration. [Effective on the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.]
- 455C.466 Certificate of competency: Renewal. [Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.]
- 455C.466 Certificate of competency: Renewal. [Effective on the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.]
- 455C.468 Work card: Application; issuance; expiration. [Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.]
- 455C.468 Work card: Application; issuance; expiration. [Effective on the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.]
- 455C.470 Work card: Renewal. [Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and

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- restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.]
- 455C.470 Work card: Renewal. [Effective on the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.]
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- 455C.634 Summary suspension of operating permit, certificate, certificate of competency, certificate of accreditation or work card: Notice of action; immediate cessation of operations.
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GENERAL PROVISIONS

NAC 455C.002 Definitions. (NRS 455C.110) As used in this chapter, unless the context otherwise requires, the words and terms defined in NAC 455C.004 to 455C.012, inclusive, have the meanings ascribed to them in those sections.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.004 “Administrator” defined. (NRS 455C.110) “Administrator” means the Administrator of the Division.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.006 “Chief” defined. (NRS 455C.110) “Chief” means the Chief Administrative Officer of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable].~~

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.008 “Division” defined. (NRS 455C.110) “Division” means the Division of Industrial Relations of the Department of Business and Industry.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

~~NAC 455C.010—[“Enforcement Section” defined. (NRS 455C.110)—“Enforcement Section” means the Occupational Safety and Health Administration of the Division.]~~

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; Repealed by Emergency Regulation. Eff. 6-___-2020)

NAC 455C.012 “Mechanical Compliance Section” defined. (NRS 455C.110) “Mechanical Compliance Section” means the Section which has been created within the Division as the regulatory authority with jurisdiction for the enforcement of the provisions of this chapter

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and chapter 455C of NRS governing the construction, installation, operation, testing, maintenance, alteration or repair of ~~[elevator equipment]~~ *a boiler, elevator or pressure vessel and related equipment.*

(Added to NAC by Div. of Industrial Relations by R077-14, eff. 1-16-2015; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.015 Regulatory authority and jurisdiction for enforcement of certain provisions. (NRS 455C.110) For the purposes of the publications adopted by reference in NAC 455C.500, the Mechanical Compliance Section is the regulatory authority and the authority having jurisdiction for the enforcement of this chapter, chapter 455C of NRS and the provisions of the publications.

(Added to NAC by Div. of Industrial Relations by R077-14, eff. 1-16-2015)

BOILERS AND PRESSURE VESSELS

General Provisions

If any publication adopted by reference in subsections 1 to 4, inclusive, 11, 12 or 13 of NAC 455C.108 is revised, the Division will review the revision to determine its suitability for this State. If the Division determines that the revision is not suitable for this State, the Division will hold a public hearing to review its determination within 6 months after the date of publication of the revision and give notice of that hearing. If, after the hearing, the Division does not revise its determination, the Division will give notice within 30 days after the hearing that the revision is not suitable for this State. If the Division does not give such notice, the revision becomes part of the publication adopted by reference in NAC 455C.108. (Added to NAC by Div. of Industrial Relations by Emergency Regulation, Sec. 2, eff. 6-16-2020)

NAC 455C.020 Definitions. (NRS 455C.110) As used in NAC 455C.020 to 455C.300, inclusive, unless the context otherwise requires, the words and terms defined in NAC 455C.022 to 455C.106, inclusive, have the meanings ascribed to them in those sections.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.022 “Alteration” defined. (NRS 455C.110) “Alteration” means a change in any item described in the data report from the original manufacturer for a boiler or pressure vessel which affects the capability of the boiler or pressure vessel to contain pressure, and includes:

1. Changes which do not physically alter the boiler or pressure vessel, including, without limitation, an increase in the maximum allowable internal or external working pressure in the boiler or pressure vessel or a change in the temperature at which a boiler or pressure vessel is designed to be operated; and
2. A reduction in the minimum temperature of a boiler or pressure vessel which requires additional mechanical tests.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

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NAC 455C.024 “Authorized inspection entity” defined. (NRS 455C.110)
”Authorized inspection entity” means:

1. The ~~[Enforcement]~~ *Mechanical Compliance* Section;
2. An insurance company that:
 - (a) Is licensed in this State to write insurance for a boiler or pressure vessel; and
 - (b) Employs or contracts with a special inspector who has been issued a certificate; or
3. An inspection organization that employs or contracts with a special inspector who has been issued a certificate.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.026 “Boiler” defined. (NRS 455C.110) “Boiler” has the meaning ascribed to it in NRS 455C.020.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.028 “Boiler inspector” defined. (NRS 455C.110) “Boiler inspector” means a person who:

1. Inspects boilers or pressure vessels;
2. Holds a commission; and
3. Is employed or retained as an independent contractor by an authorized inspection entity.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.030 “Certificate” defined. (NRS 455C.110) “Certificate” means a certificate to work as a special inspector that is issued by the ~~[Enforcement]~~ *Mechanical Compliance* Section pursuant to NAC 455C.130.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.032 “Code” defined. (NRS 455C.110) “Code” means:

1. Any provision of a code relating to the construction of boiler and pressure vessels that has been approved by the National Board; or
2. Any provision set forth in NAC 455C.020 to 455C.300, inclusive, including, without limitation, any provision set forth in a publication adopted by reference in NAC 455C.108.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.034 “Commission” defined. (NRS 455C.110) “Commission” means the commission issued by the National Board to a person who is authorized to make inspections of boilers or pressure vessels.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.036 “Contractor” defined. (NRS 455C.110) “Contractor” has the meaning ascribed to it in NRS 624.020.

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(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.038 “Electric boiler” defined. (NRS 455C.110) “Electric boiler” means a power boiler or heating boiler in which the source of heat is electricity.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.040 “Existing installation” defined. (NRS 455C.110) “Existing installation” means any boiler or pressure vessel constructed, installed, placed in operation or contracted for use in this State before December 15, 2004.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.042 “External inspection” defined. (NRS 455C.110) “External inspection” means an inspection which is made when a boiler or pressure vessel is operating.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.044 “Factor of safety” defined. (NRS 455C.110) “Factor of safety” means the figure arrived at by dividing the pressure which will burst a boiler or pressure vessel by the maximum allowable working pressure as determined by the formulas set forth in the code that was applicable when the boiler or pressure vessel was constructed.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.046 “Fired pressure vessel” defined. (NRS 455C.110) “Fired pressure vessel” means a vessel other than a boiler in which steam or vapor pressure is generated in excess of 15 pounds per square inch gauge by direct firing with a solid, liquid or gaseous fuel or by an electric heating element.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.048 “Heat exchanger” defined. (NRS 455C.110) “Heat exchanger” means a device for transferring energy in the form of heat from a warmer medium to a cooler medium. The term includes a radiator.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.050 “High-pressure, high-temperature water boiler” defined. (NRS 455C.110) “High-pressure, high-temperature water boiler” means a water boiler that operates at pressures in excess of 160 PSIG and at temperatures in excess of 250 degrees Fahrenheit.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.052 “Hot water heating boiler” defined. (NRS 455C.110) “Hot water heating boiler” means a boiler that is designed to heat water for circulation through an external system for space heating.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

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NAC 455C.054 “Hot water supply boiler” defined. (NRS 455C.110) “Hot water supply boiler” means a boiler that is used to heat water for purposes other than space heating.
(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.056 “Inspection for an operating permit” defined. (NRS 455C.110) “Inspection for an operating permit” means an inspection:

1. That is used by the ~~[Enforcement]~~ *Mechanical Compliance* Section as the basis for issuing, withholding or revoking an operating permit; and
 2. For which a report of inspection is required to be issued.
- (Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.058 “Inspection organization” defined. (NRS 455C.110) “Inspection organization” means an owner or user of boilers or pressure vessels who maintains an inspection program that includes inspection procedures which comply with the *National Board Inspection Code* and have been approved by the ~~[Enforcement]~~ *Mechanical Compliance* Section.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.060 “Inspector” defined. (NRS 455C.110) “Inspector” means a boiler inspector employed by the ~~[Enforcement]~~ *Mechanical Compliance* Section.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.062 “Internal inspection” defined. (NRS 455C.110) “Internal inspection” means as complete an examination as can reasonably be made of the internal and external surfaces of a boiler or pressure vessel while it is not operating and all plates for a manhole or handhole or other closures of openings used for an inspection are removed.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.064 “Potable water heater” defined. (NRS 455C.110) “~~[Lined-potable]~~ *Potable* water heater” means a fired heater for the storage of water which has a corrosion-resistant lining and is used to supply potable hot water.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.066 “Low-pressure heating boiler” defined. (NRS 455C.110) “Low-pressure heating boiler” means a:

1. Steam or vapor boiler that operates at pressures not exceeding 15 PSIG; or
2. Hot water boiler that:

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(a) Operates at pressures not exceeding 160 PSIG or temperatures of not more than 250 degrees Fahrenheit; and

(b) Is not used to heat potable water except through a heat exchanger.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.068 “National Board” defined. (NRS 455C.110) “National Board” means the National Board of Boiler and Pressure Vessel Inspectors.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.070 “National Board Inspection Code” defined. (NRS 455C.110) “*National Board Inspection Code*” means the manual for boiler and pressure vessel inspectors published by the National Board and adopted by reference in NAC 455C.108.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.072 “New boiler or pressure vessel” defined. (NRS 455C.110) “New boiler or pressure vessel” means a boiler or pressure vessel that is constructed, installed, placed into operation or contracted for use in this State on or after December 15, 2004.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.074 “Nonstandard boiler or pressure vessel” defined. (NRS 455C.110) “Nonstandard boiler or pressure vessel” means a boiler or pressure vessel that:

1. Does not bear a stamp of the American Society of Mechanical Engineers or of a standard of construction which is approved by the National Board; or

2. Is not registered with the National Board.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.076 “Operating permit” defined. (NRS 455C.110) “Operating permit” means a permit required by NRS 455C.100 and issued by the ~~[Enforcement]~~ *Mechanical Compliance* Section for the operation of a boiler or pressure vessel.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.078 “Person” defined. (NRS 455C.110) “Person” means a natural person, any form of business organization and any other legal entity, including, without limitation, a corporation, partnership, association, trust, unincorporated organization, government or governmental subdivision or instrumentality.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.080 “Portable boiler or pressure vessel” defined. (NRS 455C.110) “Portable boiler ~~[?] or pressure vessel~~” means a boiler *or pressure vessel* that is intended primarily for temporary use and has a construction that allows it to be moved readily from one location to another.

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(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.082 “Power boiler” defined. (NRS 455C.110) “Power boiler” means a boiler in which steam or other vapor is generated at a pressure of more than 15 PSIG. The term includes a high-pressure, high-temperature water boiler.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.084 “Pressure vessel” defined. (NRS 455C.110) “Pressure vessel” has the meaning ascribed to it in NRS 455C.080.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.086 “PSIG” defined. (NRS 455C.110) “PSIG” means pounds per square inch gauge.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.088 “Reinstalled boiler or pressure vessel” defined. (NRS 455C.110) “Reinstalled boiler or pressure vessel” means a boiler or pressure vessel removed from its original setting and reinstalled at the same location or at a new location with or without a change of ownership.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.090 “Relief valve” defined. (NRS 455C.110) “Relief valve” means an automatic pressure-relieving device as described in section I, IV or division 1 of section VIII of the *ASME Boiler and Pressure Vessel Code*, as adopted by reference in NAC 455C.108.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.092 “Repair” defined. (NRS 455C.110) “Repair” means the work necessary to restore a boiler, pressure vessel or relief valve to a safe and satisfactory operating condition, without deviation from the original design.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.094 “Safety relief valve” defined. (NRS 455C.110) “Safety relief valve” means a relieving device, which is:

1. Automatically pressure actuated; and
2. Suitable for use either as a safety valve or relief valve, depending on the application.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.096 “Safety valve” defined. (NRS 455C.110) “Safety valve” means an automatic pressure-relieving device, which:

1. Is actuated by the static pressure upstream of the valve; and
2. Has a full-opening, spring-pop type action that is used for gas or vapor service.

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(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.098 “Secondhand boiler or pressure vessel” defined. (NRS 455C.110) “Secondhand boiler or pressure vessel” means a boiler or pressure vessel which has changed ownership and has been moved since its original installation.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.100 “Special inspector” defined. (NRS 455C.110) “Special inspector” means a boiler inspector who holds a certificate and who is employed or retained as an independent contractor by:

1. An insurance company that is licensed in this State to write insurance for a boiler or pressure vessel; or
2. An inspection organization.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.102 “Standard boiler or pressure vessel” defined. (NRS 455C.110) “Standard boiler or pressure vessel” means a boiler or pressure vessel which:

1. Bears the stamp of the American Society of Mechanical Engineers or of a standard of construction that is approved by the National Board; and
2. Is registered with the National Board.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.104 “Structure” defined. (NRS 455C.110) “Structure” means a wall, column or any equipment located in the area of a boiler or pressure vessel that is being installed.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.106 “Unfired steam boiler” defined. (NRS 455C.110) “Unfired steam boiler” means an unfired pressure vessel or a system of unfired pressure vessels intended for operation at a pressure in excess of 15 PSIG to produce and control an output of thermal energy. The term includes boilers that heat water with waste heat.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.108 Adoption by reference of certain publications, codes and sections of codes. (NRS 455C.110) The Division hereby adopts by reference:

1. The following sections of the *ASME Boiler and Pressure Vessel Code*, ~~[2013]~~ **2019** edition and addenda, published by the American Society of Mechanical Engineers. Those sections of the publication and the addenda may be obtained from ASME ~~[International, 22 Law Drive, P.O. Box 2900, Fairfield, New Jersey 07007-2900]~~ **P.O. Box 36037, Newark, NJ 07188-6037**, for the price indicated:

- (a) Section I, Rules for Construction of Power Boilers..... \$ ~~[380]~~ **500**
- (b) Section II, Materials - Part D: Properties..... ~~[580]~~ **760**
- (c) Section IV, Rules for Construction of Heating Boilers..... ~~[385]~~ **510**

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- (d) Section V, Nondestructive Examination..... ~~[430]~~ **570**
 - (e) Section VI, Recommended Rules for the Care and Operation of Heating Boilers. ~~[230]~~ **300**
 - (f) Section VII, Recommended Guidelines for the Care of Power Boilers..... ~~[230]~~ **300**
 - (g) Section VIII, Rules for Construction of Pressure Vessels - Division 1..... ~~[585]~~ **775**
 - (h) Section IX, Welding, Brazing and Fusing Qualifications..... ~~[440]~~ **580**
2. *Controls and Safety Devices for Automatically Fired Boilers*, CSD-1, ~~[2012]~~ **2018** edition, published by the American Society of Mechanical Engineers. This publication applies to automatically fired boilers which are directly fired with gas, oil, a combination of gas and oil, or electricity, and may be obtained from ASME ~~[International, 22 Law Drive, P.O. Box 2900, Fairfield, New Jersey 07007-2900]~~ **P.O. Box 36037, Newark, NJ 07188-6037**, for the price of \$ ~~[93]~~ **103**.
 3. *Power Piping*, B31.1, ~~[2012]~~ **2018** edition and addenda, published by the American Society of Mechanical Engineers. This publication and its addenda may be obtained from ASME ~~[International, 22 Law Drive, P.O. Box 2900, Fairfield, New Jersey 07007-2900]~~ **P.O. Box 36037, Newark, NJ 07188-6037**, for the price of \$ ~~[216]~~ **335**.
 4. The *Standard for the Qualification and Certification of High Capacity Fossil Fuel Fired Plants*, QFO-1, 1998 edition, published by the American Society of Mechanical Engineers. This publication may be obtained from ASME ~~[International, 22 Law Drive, P.O. Box 2900, Fairfield, New Jersey 07007-2900]~~ **P.O. Box 36037, Newark, NJ 07188-6037**, for the price of \$ ~~[41]~~ **43**.
 5. The edition most recently adopted pursuant to NAC 590.610 of the *National Fuel Gas Code*, ANSI Z223.1/NFPA 54, published by the National Fire Protection Association.
 6. The edition most recently adopted in NAC 341.045 of the *National Electrical Code*, ANSI/NFPA 70, published by the National Fire Protection Association.
 7. The edition most recently adopted in NAC 477.281 of the *International Building Code*, published by the International Code Council.
 8. The edition most recently adopted in NAC 341.045 of the *Uniform Mechanical Code*, published by the International Association of Plumbing and Mechanical Officials.
 9. The edition most recently adopted in NAC 341.045 of the *Uniform Plumbing Code*, published by the International Association of Plumbing and Mechanical Officials.
 10. The edition most recently adopted in NAC 477.281 of the *International Fire Code*, published by the International Code Council.
 11. The *National Board Inspection Code*, ~~[2013]~~ **2019** edition and addenda, published by the National Board of Boiler and Pressure Vessel Inspectors. This publication and its addenda may be obtained from the National Board of Boiler and Pressure Vessel Inspectors ~~[, 1055 Crupper Avenue, Columbus, Ohio 43229]~~ **online orders only**, for the price of \$ ~~[295]~~ **325**.
 12. The *Standard for the Installation of Oil-Burning Equipment*, ANSI/NFPA 31, ~~[2011]~~ **2020** edition, published by the National Fire Protection Association. This publication may be obtained from the National Fire Protection Association, **11 Trave Drive, Avon, MA 02322**, free of charge at the Internet address **<http://www.nfpa.org/freeaccess>**.
 13. The *Safety Standard for Refrigeration Systems*, ANSI/ASHRAE 15, ~~[2013]~~ **2019** edition, published by the American Society of Heating, Refrigeration and Air-Conditioning Engineers.

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This publication may be obtained from ~~[Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado 80112]~~ *ASHRAE, 1791 Tullie Circle, Atlanta, GA 30329*, for the price of \$ ~~[107]~~ *149*.

14. The edition most recently adopted pursuant to NAC 590.600 of the *Liquefied Petroleum Gas Code*, ANSI/NFPA 58, published by the National Fire Protection Association.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.112 Prerequisites to operation of new boiler or pressure vessel. (NRS 455C.110) A new boiler or pressure vessel must not be operated in this State unless:

1. The owner of the boiler or pressure vessel has complied with the requirements for an operating permit set forth in NAC 455C.140; and
2. The boiler or pressure vessel is designed, constructed, inspected, stamped and installed in accordance with the code.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.114 Exemptions from provisions. (NRS 455C.110) The provisions of NAC 455C.020 to 455C.300, inclusive, do not apply to:

~~[1.]~~ *(a)* Boilers and pressure vessels governed by the provisions of chapter 512 of NRS and chapter 512 of NAC.

~~[2.]~~ *(b)* Boilers and pressure vessels installed or used in a single-family residence unless the boiler or pressure vessel is a:

~~[(a)]~~ *(1)* Hot water supply boiler;

~~[(b)]~~ *(2)* Hot water supply tank that has a storage capacity which exceeds 120 gallons;

~~[(c)]~~ *(3)* Low-pressure heating boiler;

~~[(d)]~~ *(4)* Power boiler; or

~~[(e)]~~ *(5)* Pressure vessel that:

~~[(1)]~~ *(I)* Operates at pressures that exceed 15 PSIG; or

~~[(2)]~~ *(II)* Has a storage capacity of 5 cubic feet or more by volume.

~~[3.]~~ *(c)* Boilers and pressure vessels under the control of the Federal Government.

~~[4.]~~ *(d)* Unfired pressure vessels meeting the requirements of the United States Department of Transportation for the shipment of liquids or gases under pressure.

~~[5.]~~ *(e)* Unfired pressure vessels having an inside diameter not exceeding 6 inches (152 millimeters).

~~[6.]~~ *(f)* Unfired pressure vessels containing cold water under pressure, including those containing air, the compression of which serves only as a cushion.

~~[7. Pressure vessels containing water heated by steam or by any other indirect means if none of the following limitations is exceeded]~~ *(g)* A fired storage water heater that is directly fired with oil, gas or electricity, or a pressure vessel containing water heated by steam or by any other indirect means, if none of the following limitations is exceeded :

~~[(a)]~~ *(1)* An input of heat of 199,999 British thermal units per hour (58,600 watts).

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~~[(b)]~~ (2) A water temperature of 210 degrees Fahrenheit (99 degrees Centigrade).

~~[(e)]~~ (3) A water capacity of 120 gallons (450 liters).

~~[(8)]~~ (h) Unfired pressure vessels that do not exceed 5 cubic feet in volume and 15 PSIG.

~~[(9)]~~ (i) An unfired pressure vessel that may be classified as a pressure container which is an integral part or component of a rotating or reciprocating mechanical device, including a pump, compressor, turbine, generator, engine and hydraulic or pneumatic cylinder where the primary considerations of stresses in the design, or both, are derived from the functional requirements of the device.

~~[(10)]~~ (j) Unfired pressure vessels used for the storage of compressed air only.

~~[(11)]~~ (k) A hot water heater constructed of continuous coils, which is used only to produce steam vapor to clean machinery, equipment and buildings, if:

~~[(a)]~~ (1) The tubing or pipe size does not exceed three-fourths of an inch in diameter and drums and headers are not attached;

~~[(b)]~~ (2) The nominal water containing capacity does not exceed 6 gallons;

~~[(e)]~~ (3) The water temperatures do not exceed 350 degrees Fahrenheit; and

~~[(d)]~~ (4) Steam is not generated within the coil,

↪ except that the provisions of NAC 455C.020 to 455C.300, inclusive, do apply to safety relief valves on a hot water heater constructed of continuous coils.

~~[(12)]~~ (l) Unfired pressure vessels and piping containing liquid petroleum gas and liquid natural gas.

~~[(13)]~~ (m) A boiler or heater for a pool, if:

~~[(a)]~~ (1) The supply or return line has no stop valves installed; and

~~[(b)]~~ (2) It is impossible for the unit to build pressure in excess of 15 pounds per square inch ~~[(1)]~~

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.116 Procedure to obtain exemption for certain conditions or practices; grant of certain exemptions by Chief. (NRS 455C.110)

1. An owner of a boiler or pressure vessel who wishes to obtain an exemption from a requirement set forth in NAC 455C.020 to 455C.300, inclusive, for a condition or practice that is not consistent with the requirement must submit an application for an exemption to the ~~[(Enforcement)]~~ *Mechanical Compliance* Section on a form prescribed by the ~~[(Enforcement)]~~ *Mechanical Compliance* Section.

2. If a condition or practice for which the person requests an exemption does not affect the safe operation of a boiler, pressure vessel or related system, an inspector may approve the exemption from the requirement if:

- (a) Such an exemption is necessary to allow the operation of the boiler or pressure vessel; and
- (b) Compliance with the requirement is not practicable.

3. If an inspector approves the exemption:

- (a) The approval must be noted on the application for an exemption; and

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(b) The application for an exemption must be reviewed by a person designated by the Chief within 5 working days after the exemption is approved by the inspector.

4. If the person designated by the Chief grants the exemption, the person shall:

(a) Note that he or she has granted the exemption on the application for an exemption; and

(b) Forward the application for an exemption to the Chief within 15 days after granting the exemption.

5. If the person designated by the Chief denies the exemption and the person requesting the exemption contests the denial, the person designated by the Chief shall have the boiler or pressure vessel jointly inspected by any combination of two inspectors or special inspectors. Each inspector or special inspector shall prepare and submit a report of inspection to the person designated by the Chief. The person designated by the Chief shall reconsider the application for exemption and render a final decision based on the information contained in the reports of inspection submitted by the inspectors or special inspectors pursuant to this section.

6. In addition to an exemption that may be granted pursuant to subsections 1 to 5, inclusive, the Chief may grant an exemption from a requirement set forth in NAC 455C.020 to 455C.300, inclusive, for a boiler or pressure vessel in the case of an emergency or if the Chief determines that such an exemption is in the best interests of the general public. If the Chief grants an exemption pursuant to this subsection, he or she shall notify the Administrator of the exemption. If the exemption is granted because the Chief determined that the exemption is in the best interests of the general public, the notice to the Administrator must be in writing.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.118 Fees of Enforcement Section. (NRS 455C.110, 455C.120)

NAC 455C.118 1. Except as otherwise provided in subsections 3 and 4, the ~~[Enforcement]~~ *Mechanical Compliance* Section shall charge and collect the following fees:

Certificates	Fees
For the issuance of a certificate.....	\$100
For the renewal of a certificate.....	50
Power Boilers	Fees
If the power boiler has 250 square feet or less of heating surface:	
For the issuance of an initial operating permit, based on a preliminary and final inspection by an inspector.....	\$160
For the annual renewal of an operating permit, based on one internal inspection and one external inspection or two external inspections.....	110
If the power boiler has more than 250 square feet but not more than 750 square feet of heating surface:	

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Power Boilers	Fees
For the issuance of an initial operating permit, based on a preliminary and final inspection by an inspector.....	160
For the annual renewal of an operating permit, based on one internal inspection and one external inspection or two external inspections.....	120
<i>If the power boiler has more than 750 square feet of heating surface:</i>	
For the issuance of an initial operating permit, based on a preliminary and final inspection by an inspector.....	160
For the annual renewal of an operating permit, based on one internal inspection and one external inspection or two external inspections.....	140
 Low-Pressure Steam Heating Boilers	 Fees
<i>If the low-pressure steam heating boiler has less than 500 square feet of heating surface:</i>	
For the issuance of an initial operating permit, based on a preliminary and final inspection by an inspector.....	\$160
For the annual renewal of an operating permit, based on one internal inspection and one external inspection or two external inspections.....	60
<i>If the low-pressure steam heating boiler has 500 square feet or more of heating surface:</i>	
For the issuance of an initial operating permit, based on a preliminary and final inspection by an inspector.....	160
For the annual renewal of an operating permit, based on one internal inspection and one external inspection or two external inspections.....	65
 Low-Pressure Hot Water Heating Boilers	 Fees
<i>If the low-pressure hot water heating boiler has less than 500 square feet of heating surface:</i>	
For the issuance of an initial operating permit, based on a preliminary and final inspection by an inspector.....	\$160
For the biennial renewal of an operating permit, based on one internal inspection or one external inspection.....	60
<i>If the low-pressure hot water heating boiler has 500 square feet or more of heating surface:</i>	
For the issuance of an initial operating permit, based on a preliminary and final inspection by an inspector.....	160
For the biennial renewal of an operating permit, based on one internal inspection or one external inspection.....	65

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Hot Water Supply Boilers	Fees
For the issuance of an initial operating permit for a hot water supply boiler, based on a preliminary and final inspection by an inspector.....	\$110
For the biennial renewal of an operating permit for a hot water supply boiler, based on one internal inspection or one external inspection.....	50
Unfired Pressure Vessels	Fees
For the issuance of an initial operating permit for an unfired pressure vessel, based on a preliminary and final inspection by an inspector.....	\$90
For the renewal of an operating permit for an unfired pressure vessel, based on one internal inspection or one external inspection.....	40
Refrigeration Pressure Vessels	Fees
If the output capacity of the system of refrigeration is less than 100 tons:	
For the issuance of an initial operating permit for the refrigeration pressure vessel, based on a preliminary and final inspection by an inspector.....	\$80
For the renewal of an operating permit for the refrigeration pressure vessel, based on one internal inspection or one external inspection.....	50
If the output capacity of the system of refrigeration is 100 tons or more:	
For the issuance of an initial operating permit for the refrigeration pressure vessel, based on a preliminary and final inspection by an inspector.....	90
For the renewal of an operating permit for the refrigeration pressure vessel, based on one internal inspection or one external inspection.....	60
Boilers or Pressure Vessels Installed or Used in Single-Family Residences	Fees
For the preliminary and final inspections of a boiler or pressure vessel that is installed or used in a single-family residence that are required to be made at the time of installation pursuant to <u>NAC 455C.156</u>	\$80
For each subsequent inspection of the boiler or pressure vessel that is requested by the owner of the boiler or pressure vessel.....	40
Renewal of Operating Permits for Boilers or Pressure Vessels Inspected by Special Inspectors	Fees
For the renewal of an operating permit for a boiler or pressure vessel if the operating permit is renewed based on a report of an inspection made by a special inspector	\$20

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Special Services

Fees

For any services rendered by the ~~[Enforcement]~~ *Mechanical Compliance* Section to assist a person in complying with the provisions of this chapter, including, without limitation, an inspection other than an inspection required by NAC 455C.156 and the review of plans and specifications before those plans and specifications are submitted to the ~~[Enforcement]~~ *Mechanical Compliance* Section pursuant to NAC 455C.182:

Per hour charge for those services provided during the first 8 hours of a day.....	\$40
Per hour charge for those services provided after the first 8 hours of the day.....	\$60

2. In addition to paying the fees imposed by this section for services rendered by the ~~[Enforcement]~~ *Mechanical Compliance* Section to assist a person in complying with the provisions of this chapter, a person who requests that the ~~[Enforcement]~~ *Mechanical Compliance* Section perform such services must pay all necessary expenses incurred by the ~~[Enforcement]~~ *Mechanical Compliance* Section in fulfilling the request.

3. The fees imposed by this section for operating permits or inspections of boilers or pressure vessels do not apply to boilers or pressure vessels that are owned by the United States, the State of Nevada or any political subdivision of the State of Nevada, including, without limitation, any county, city, municipality, district or commission.

4. The fees imposed by this section for a request for services by the ~~[Enforcement]~~ *Mechanical Compliance* Section to assist a person in complying with the provisions of this chapter and any necessary expenses incurred by the ~~[Enforcement]~~ *Mechanical Compliance* Section in fulfilling the request will not be charged to the United States, the State of Nevada or any political subdivision of the State of Nevada, including, without limitation, any county, city, municipality, district or commission.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.120 Notification by insurance companies. (NRS 455C.110) An insurance company shall notify the ~~[Enforcement]~~ *Mechanical Compliance* Section within 30 days after the insurance company:

1. Commences the coverage of a boiler or pressure vessel; or
2. Cancels, refuses to renew or suspends the coverage of a boiler or pressure vessel.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

Certification of Special Inspectors

NAC 455C.130 Application for certificate; issuance and expiration of certificate and card for identification. (NRS 455C.110)

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

1. An applicant for a certificate to work as a special inspector must submit to the ~~[Enforcement]~~ *Mechanical Compliance* Section:

(a) An application on a form prescribed by the ~~[Enforcement]~~ *Mechanical Compliance* Section;

(b) The fee for issuance of a certificate set forth in NAC 455C.118; and

(c) Proof satisfactory to the ~~[Enforcement]~~ *Mechanical Compliance* Section that the applicant:

(1) Satisfies the requirements described in NAC 455C.132;

(2) Passed the examination described in NAC 455C.132; and

(3) Is employed or retained as an independent contractor by:

(I) An insurance company that is licensed in this State to write insurance for a boiler or pressure vessel; or

(II) An inspection organization as defined in NAC 455C.058 or 512.528.

2. If an applicant satisfies the requirements set forth in subsection 1, the ~~[Enforcement]~~ *Mechanical Compliance* Section may issue a certificate to the applicant.

3. The ~~[Enforcement]~~ *Mechanical Compliance* Section may issue a card for identification to the applicant after the applicant receives a commission.

4. A certificate and a card for identification issued pursuant to this section expire at midnight on March 1 next following the date of issuance, unless the certificate and the card for identification are renewed.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.132 Examination for certificate: Education and experience required; application; conduct; failure to pass. (NRS 455C.110)

1. An applicant for examination for a certificate must have the education and experience required by the code.

2. The application for examination must be:

(a) Submitted to the ~~[Enforcement]~~ *Mechanical Compliance* Section at least 45 days before the examination; and

(b) In writing on a form provided by the ~~[Enforcement]~~ *Mechanical Compliance* Section, stating the education of the applicant and listing his or her employers, the length of time employed by each employer and the position held with each employer.

3. An application that contains a false statement will be rejected.

4. The examination will be conducted in accordance with the code.

5. An applicant who fails to pass the examination may not take another written examination within 30 days after the examination.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.134 Annual renewal of certificate and card for identification. (NRS 455C.110) To renew a certificate and card for identification, a special inspector must ~~[on or~~

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~~before March 1,~~ *prior to expiration*, submit to the ~~[Enforcement]~~ *Mechanical Compliance* Section:

1. An application on a form prescribed by the ~~[Enforcement]~~ *Mechanical Compliance* Section; and

2. The fee for renewal of a certificate set forth in NAC 455C.118.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

Operating Permits

NAC 455C.140 Requirement; duration; location; operation before issuance. (NRS 455C.110)

1. The owner of a boiler or pressure vessel must obtain an operating permit before the boiler or pressure vessel may be operated in this State unless the boiler or pressure vessel is exempted from that requirement pursuant to NAC 455C.114.

2. An operating permit is valid until the earliest date of the following:

(a) Its date of expiration;

(b) The date the boiler or pressure vessel for which the permit is issued is removed from the location in which it was installed;

(c) A defect or condition affecting the safety of the boiler or pressure vessel is discovered;

(d) It is revoked by the ~~[Enforcement]~~ *Mechanical Compliance* Section for nonpayment of fees; or

(e) It is revoked by the ~~[Enforcement]~~ *Mechanical Compliance* Section for any other reason.

3. The operating permit must be retained on the premises where the boiler or pressure vessel is installed.

~~[4.—A report of inspection made pursuant to NAC 455C.154 shall be deemed to be an operating permit and authorizes the operation of a boiler or pressure vessel until the operating permit is issued, if:~~

~~—(a) The report of inspection recommends the issuance of an operating permit; and~~

~~—(b) The equipment complies with the requirements of NAC 455C.020 to 455C.300, inclusive.]~~

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

REVISER'S NOTE.

The regulation of the Division of Industrial Relations of the Department of Business and Industry filed with the Secretary of State on December 15, 2004 (LCB File No. R101-02), the source of this section, contains the following provision not included in NAC:

“An owner of a boiler, elevator or pressure vessel who, on December 15, 2004, holds an operating permit for a boiler, pressure vessel or elevator issued pursuant to chapter 618 of NAC, is not required to obtain an operating permit for the boiler, elevator or pressure vessel until the operating permit issued pursuant to chapter 618 of NAC expires.”

NAC 455C.142 Cancellation; issuance after reinstallation. (NRS 455C.110) The ~~[Enforcement]~~ *Mechanical Compliance* Section shall cancel an operating permit for a boiler or pressure vessel if it is moved from the site at which the boiler or pressure vessel was inspected. If

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the boiler or pressure vessel is reinstalled, it must be inspected, and a new permit will be issued by the ~~[Enforcement]~~ *Mechanical Compliance* Section.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

Inspections

The Administrator in carrying out his or her duties to inspect pursuant to NRS 512.170 and NRS 512.180 may authorize and use the inspection services of the Mechanical Compliance Section to conduct an inspection of equipment, machinery or apparatus, including but not limited to boilers, elevators or pressure vessels which would otherwise be subject to the jurisdiction of the Mechanical Compliance Section if such equipment, machinery or apparatus was not located at a mine as defined in NRS 512.006. In the event the Administrator uses the inspection services of the Mechanical Compliance Section, the Mechanical Compliance Section will invoice the Mine Safety and Training Section of the Division which shall reimburse or pay for the inspection services rendered. (Added to NAC by Div. of Industrial Relations by Emergency Regulation, Sec. 4, eff. 6-16-2020)

NAC 455C.150 Inspection for operating permit: Internal inspection. (NRS 455C.110)

An inspection for an operating permit must be an internal inspection if required by the ~~[Enforcement]~~ *Mechanical Compliance* Section. If the ~~[Enforcement]~~ *Mechanical Compliance* Section does not require an internal inspection, the inspection for an operating permit must comply with the requirements set forth in NAC 455C.154.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.152 Inspection for operating permit: Time and manner. (NRS 455C.110)

1. The inspection for an operating permit must be conducted before the expiration date of the operating permit at a time agreed upon by the inspector or special inspector and the owner of the boiler or pressure vessel or his or her agent.

2. An external inspection may be performed by the inspector or special inspector during reasonable hours without prior notification to the owner of the boiler or pressure vessel or his or her agent.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.154 Inspection for operating permit: General requirements; action on report of or refusal to allow inspection. (NRS 455C.110)

1. The ~~[Enforcement]~~ *Mechanical Compliance* Section shall issue, renew or revoke an operating permit based on the report of an inspection by an inspector or special inspector. Unless

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the type of inspection is specified in NAC 455C.156 and except as otherwise provided in subsections 2 and 3, an inspection must be:

- (a) Internal; or
 - (b) If the inspection is of a pressure vessel and the determined thickness is included in the report, made by ultrasonic testing.
2. If the design or construction of a boiler or pressure vessel is such that an internal inspection is not possible, an external inspection is acceptable.
 3. An internal inspection is not required to obtain an operating permit for a hot water heating boiler, hot water supply boiler or boiler made of cast iron.
 4. If a boiler or pressure vessel is found to be unsafe to operate, the inspector or special inspector shall notify the ~~[Enforcement]~~ *Mechanical Compliance* Section and the ~~[Enforcement]~~ *Mechanical Compliance* Section shall suspend the operating permit.
 5. If the owner of a boiler or pressure vessel which is required to be inspected or his or her agent refuses to allow an inspection to be made, the ~~[Enforcement]~~ *Mechanical Compliance* Section shall suspend the operating permit until the owner or the agent allows the inspection.
 6. The inspector or special inspector shall indicate in the report of inspection the type of inspection that was performed.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.156 Frequency and scope of inspections; authority to require preparation for inspection; authorization to change interval between inspections. (NRS 455C.110)

1. A power boiler or a high-pressure, high-temperature water boiler must be inspected upon installation and must have an internal inspection, if the construction and design of the boiler so allows, at least once each year thereafter, and an external inspection approximately 6 months after the date of the internal inspection. If an internal inspection is not possible, such a boiler must have an external inspection at least once every 6 months.
2. A low-pressure steam heating boiler must be inspected upon installation and at least once each year thereafter. The inspection must be:
 - (a) An internal inspection, if the construction and design of the boiler so allows and the inspector or special inspector so requests; or
 - (b) An external inspection that includes operational testing of all controls and safety devices.
3. Except as otherwise provided in subsection 4, a low-pressure hot water heating boiler and a hot water supply boiler must be inspected upon installation and at least once every 2 years thereafter. The inspection must be:
 - (a) An internal inspection, if the construction and design of the boiler so allows and the inspector or special inspector so requests; or
 - (b) An external inspection that includes operational testing of all controls and safety devices.
4. A ~~[lined]~~ potable water heater must have an external inspection at least once every 2 years. The external inspection must include operational testing of all controls and safety devices if the installation and construction of the ~~[lined]~~ potable water heater so allows.

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5. Any other fired pressure vessel for which a frequency of inspection is not specified in subsections 1 to 4, inclusive, must be inspected upon installation and at least once each year thereafter. The inspection must be:

- (a) An internal inspection, if the construction and design of the pressure vessel so allows;
- (b) An external inspection that includes operational testing of all controls and safety devices, if the installation and construction of the pressure vessel so allows; or
- (c) An external inspection that includes operational testing of each control and safety device that it is possible to test given the installation and construction of the pressure vessel.

6. An unfired pressure vessel must be inspected upon installation and at least once every 4 years thereafter. The inspection must be:

- (a) An internal inspection, if the construction and design of the pressure vessel so allows; or
- (b) An external inspection that includes operational testing of all controls and safety devices.

7. A refrigeration pressure vessel must be inspected upon installation and at least once every 4 years thereafter. The inspection must be:

- (a) An internal inspection, if the construction and design of the pressure vessel so allows; or
- (b) An external inspection that includes operational testing of all controls and safety devices.

8. A boiler or pressure vessel installed or used in a single-family residence must be inspected by an inspector upon installation. The inspection must include a preliminary and a final inspection and must be an internal inspection, if the construction and design of the boiler or pressure vessel so allows, or an external inspection that includes operational testing of all controls and safety devices. If the owner of the boiler or pressure vessel wishes to have an inspector perform any subsequent inspections of the boiler or pressure vessel, he or she must submit a written request for such an inspection to the ~~[Enforcement]~~ *Mechanical Compliance* Section.

9. An inspector or special inspector may require any boiler or pressure vessel to be prepared for inspection in the manner set forth in NAC 455C.158 if, in his or her opinion, an inspection is necessary to determine whether the boiler or pressure vessel is operating in a safe manner.

10. An inspection organization that has been authorized by the ~~[Enforcement]~~ *Mechanical Compliance* Section to inspect its boilers and pressure vessels may request approval from the ~~[Enforcement]~~ *Mechanical Compliance* Section to inspect its boilers and pressure vessels at a different interval.

11. Upon application from a petroleum company, chemical plant, public utility or other employer considered by the ~~[Enforcement]~~ *Mechanical Compliance* Section as having a program acceptable to the ~~[Enforcement]~~ *Mechanical Compliance* Section for preventive maintenance and examination, an operating permit that allows an extension of time between required internal inspections may be granted if the power boiler is inspected by external inspections at intervals of approximately 6 months. The application for the operating permit that allows an extension of time must be submitted in writing at least 45 days before the required internal inspection. The application must include the history of the power boiler or, if the power boiler is newly installed, of a similar boiler, substantiating that there is no significant deterioration from scaling, corrosion, erosion or overheating. Points of reference established by the owner of the power boiler or an authorized inspection entity at the time of the first inspection must be used to determine the

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thickness of the walls of the power boiler. If the application is approved after the internal inspection of each power boiler, a record showing the total corrosion and any other conditions that need correction must be submitted to the ~~[Enforcement]~~ *Mechanical Compliance* Section.

12. An operating permit issued pursuant to subsection 11 expires 1 year after the date of an internal inspection. Before the expiration of the permit, the boiler must be inspected by an external inspection conducted by an inspector or special inspector who will review the operation logs and records of water treatment. If the owner of the power boiler or his or her agent applies for an extension of an operating permit issued pursuant to subsection 11, the inspector or special inspector shall submit a report of inspection and recommendations to the ~~[Enforcement]~~ *Mechanical Compliance* Section. If the ~~[Enforcement]~~ *Mechanical Compliance* Section approves the application, it may extend the operating permit for a period not to exceed 6 months. Before the expiration date of the extension, the owner or his or her agent must apply again for an extension and the boiler must again be inspected by an external inspection conducted by an inspector or special inspector. A second extension may be issued for an additional period of 6 months after which the boiler must be inspected by an internal inspection.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.158 Preparation for inspection. (NRS 455C.110)

1. The owner of a boiler or pressure vessel or his or her agent shall prepare each boiler or pressure vessel for internal inspection and shall apply a hydrostatic or pressure test, whenever necessary, on the date specified by the inspector or special inspector. The date must not be less than 7 days after the date of notification by the authorized inspection entity that an inspection will be made.

2. The owner of a boiler or pressure vessel or his or her agent shall prepare the boiler or pressure vessel for internal inspection as follows:

- (a) Water must be drawn off and the boiler washed thoroughly.
- (b) Plates for a manhole or handhole, washout plugs and inspection plugs in the connections of the water column must be removed. The furnace and combustion chambers must be thoroughly cooled and cleaned.
- (c) All grates of internally fired boilers must be removed.
- (d) Brickwork or insulation must be removed as required by the inspector or special inspector to determine the condition of the boiler or pressure vessel, headers, furnace, supports or other parts.
- (e) The pressure gauge must be removed for testing.
- (f) Any leakage of steam or hot water into the boiler or pressure vessel must be prevented by disconnecting the pipe or valve at the most convenient point or by any method approved by the inspector or special inspector.
- (g) Before opening the cover for a manhole or handhole and entering any parts of the boiler or pressure vessel which connect to a common header with other boilers, the nonreturn valve, steam stop valves, blowoff valves and feed valves must be closed, tagged and padlocked, and the drain

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valves or cocks located between valves must be opened. Blowoff lines must be disconnected between pressure parts and valves where practicable. All drains and vent lines must be opened.

3. Pressure vessels must be prepared for inspection to the extent deemed necessary by the inspector or special inspector using the applicable procedures set forth in subsection 2.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.160 Improper preparation for inspection. (NRS 455C.110) If a boiler or pressure vessel has not been properly prepared for a required inspection, or if the owner of a boiler or pressure vessel or his or her agent fails to comply with the requirements for a hydrostatic or pressure test, the inspector or special inspector may decline to make the inspection or test and the operating permit will be withheld or revoked until the owner or his or her agent complies with the requirements.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.162 Removal of covering; inaccessible parts. (NRS 455C.110)

1. If a boiler or pressure vessel is covered so that the longitudinal seams of shells, drums or domes cannot be seen, sufficient covering, setting wall or other form of casing or housing must be removed to permit reasonable inspection of the seams, rivets and other areas necessary to determine the condition and safety of the boiler or pressure vessel if the information cannot be determined by other means.

2. If the inspector or special inspector, as the result of conditions disclosed at the time of inspection, requires the removal of the interior or exterior lining, covering or brickwork to expose parts of the boiler or pressure vessel not normally visible, the owner of the boiler or pressure vessel or his or her agent shall remove such material to permit a proper inspection to ascertain the thickness and condition of the covered areas.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.164 External evidence of leak or crack. (NRS 455C.110) If, upon an external inspection of a boiler or pressure vessel, there is evidence of a leak or crack, sufficient covering of the boiler or pressure vessel must be removed to allow the inspector or special inspector to determine satisfactorily the safety of the boiler or pressure vessel. If the covering cannot be removed at that time, the inspector or special inspector may order the operation of the boiler or pressure vessel discontinued until the covering can be removed and a proper examination can be made.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.166 Report of inspection by special inspector. (NRS 455C.110) A special inspector shall submit to the ~~[Enforcement]~~ *Mechanical Compliance* Section within 10 days after the inspection, on a form prescribed by the ~~[Enforcement]~~ *Mechanical Compliance* Section, a report of each inspection he or she is required to conduct.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

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NAC 455C.168 Procedure upon determination of violation of code. (NRS 455C.110) If an inspector or special inspector determines that there is a violation of the code, the inspector or special inspector shall notify the owner of the boiler or pressure vessel in writing and describe the nature of the violation, including a reference to the provision of the code that was violated. The ~~[Enforcement]~~ *Mechanical Compliance* Section shall take such action as it determines is appropriate pursuant to NAC 455C.616.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.170 Procedure upon determination of unsafe condition. (NRS 455C.110) If, as the result of an inspection, the inspector or special inspector determines that the continued operation of a boiler or pressure vessel constitutes an unsafe condition, the inspector or special inspector:

1. Shall immediately notify the owner of the boiler or pressure vessel in writing, stating the repairs or other corrective measures that are required to be made. Unless the owner or his or her agent makes the repairs or institutes other corrective measures promptly, the inspector or special inspector shall immediately notify the ~~[Enforcement]~~ *Mechanical Compliance* Section. Until the corrections have been made, the boiler or pressure vessel involved must not be operated and the operating permit shall be deemed to be revoked by the ~~[Enforcement]~~ *Mechanical Compliance* Section.

2. May require an internal inspection or a pressure test, or both, to evaluate the condition of the boiler or pressure vessel. The owner of the boiler or pressure vessel or his or her agent shall prepare the boiler or pressure vessel for the internal inspection or pressure test.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.172 Procedure following accident. (NRS 455C.110) If an accident occurs which renders a boiler or pressure vessel inoperative, the owner of the boiler or pressure vessel or his or her agent shall immediately notify the ~~[Enforcement]~~ *Mechanical Compliance* Section in writing and submit a detailed report of the accident. In the case of a serious accident, including an explosion, notice must be given to the ~~[Enforcement]~~ *Mechanical Compliance* Section immediately by the most expeditious means. The boiler or pressure vessel and any parts thereof must not be removed or disturbed before an inspection has been made by an inspector or special inspector unless human life is endangered or except to limit further damage.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.174 Condemned boilers or pressure vessels. (NRS 455C.110)

1. An inspector or special inspector shall stamp a boiler or pressure vessel that he or she has inspected and declared unsafe with the letters “XXX” on each side of the number that indicates

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the registration of the boiler or pressure vessel with the National Board or the number designated by the ~~[Enforcement]~~ *Mechanical Compliance* Section. Such a stamp indicates that the boiler or pressure vessel is condemned.

2. A person shall not use or offer for sale in this State a boiler or pressure vessel that has been stamped pursuant to subsection 1.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

Installations

NAC 455C.180 Acceptance of boiler or pressure vessel for installation in this State. (NRS 455C.110) A boiler or pressure vessel constructed in a manner which meets the standards of this State, having the standard stamping of another state that has adopted a standard of construction equivalent to the standard of this State, the American Society of Mechanical Engineers or the National Board, may be accepted for installation in this State by the ~~[Enforcement]~~ *Mechanical Compliance* Section if the contractor installing the boiler or pressure vessel applies to the ~~[Enforcement]~~ *Mechanical Compliance* Section for a permit for installation pursuant to NAC 455C.182 before the construction or installation begins.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.182 Requirements for installation or alteration. (NRS 455C.110)

1. Each boiler and pressure vessel must be installed and trimmed as required by the stamping of the original manufacturer of the boiler or pressure vessel and in accordance with the applicable provisions of the code.

2. Except as otherwise provided in subsection 6, a contractor must obtain a permit for installation before installing or altering a boiler or pressure vessel, including, without limitation, a refrigeration pressure vessel, in this State. If installation is begun before the permit is issued, installation must be suspended until the permit is issued.

3. A request for a permit for installation must be submitted by the contractor to the ~~[Enforcement]~~ *Mechanical Compliance* Section in writing not less than 10 days before the installation will begin and include:

(a) A data report from the manufacturer of the boiler or pressure vessel and, if the boiler or pressure vessel that is being installed was moved from another location, a copy of the original permit for installation and report of inspection;

(b) The plans and specifications of the boiler room in which the boiler or pressure vessel is being installed which designate the location of the boiler or pressure vessel and which comply with the requirements of NAC 455C.250 and 455C.254; and

(c) A copy of his or her contractor's license issued pursuant to chapter 624 of NRS which authorizes the contractor to install boilers or pressure vessels.

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4. Except for an existing installation or a reinstalled boiler or pressure vessel, a boiler or pressure vessel may not be installed in this State unless it has been registered with the National Board.

5. Before a secondhand boiler or pressure vessel, reinstalled boiler or pressure vessel, or portable boiler or pressure vessel may be installed or shipped for installation into this State, the owner of the boiler or pressure vessel or his or her agent or the contractor must apply to the ~~[Enforcement]~~ *Mechanical Compliance* Section for approval to install it. The request for a permit for installation must include, without limitation, a report of inspection. The report of inspection must be prepared by a person who holds a commission and who inspected the boiler or pressure vessel. The fittings and appurtenances of the boiler or pressure vessel must comply with the requirements for the installation of a new boiler or pressure vessel.

6. In the case of an emergency, a contractor may install or alter a boiler or pressure vessel, including a refrigeration pressure vessel, in this State without first obtaining a permit from the ~~[Enforcement]~~ *Mechanical Compliance* Section if the contractor:

(a) Notifies the ~~[Enforcement]~~ *Mechanical Compliance* Section ~~[as soon as practicable]~~ *the next business day* after the alteration or installation; and

(b) Obtains the permit required by subsection 2 at that time.

7. "Emergency" as used in this section means that if the boiler or pressure vessel used for occupant heat, occupant cooling or potable hot water supply is not altered or repaired immediately it will result in a threat to public safety and is limited to building occupancies in E, I or R under the International Building Code as adopted in NAC 455C.108.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.184 Requirements for reinstallation. (NRS 455C.110)

1. If a boiler or pressure vessel is removed from its original site and is to be reinstalled at the same location or reinstalled at a new location with or without a change of ownership, the contractor must apply to the ~~[Enforcement]~~ *Mechanical Compliance* Section for a permit for installation before reinstalling the boiler or pressure vessel. The fittings and appurtenances must comply with the requirements for the installation of a new boiler or pressure vessel.

2. If a standard boiler or pressure vessel is to be moved to another state for temporary use or repair, the owner of the boiler or pressure vessel or his or her agent must apply to the ~~[Enforcement]~~ *Mechanical Compliance* Section for approval to reinstall the boiler or pressure vessel within this State.

3. Each time a portable boiler or pressure vessel is to be moved for temporary use within this State, a contractor who is to install the portable boiler or pressure vessel must apply to the Mechanical Compliance Section for a permit for installation before installing the portable boiler or pressure vessel.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

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Stamping, Tagging and Numbering

NAC 455C.190 General requirements. (NRS 455C.110)

1. Upon completion of the installation or at the time of an inspection, each boiler or pressure vessel must be stamped, tagged or numbered as close as practicable to the nameplate or stamping of the manufacturer with a number of the State of Nevada only after the controls and safety devices required for the boiler or pressure vessel have been tested and approved by an inspector. The stamp, tag or number must consist of four digits at least 5/16 of an inch in height, preceded with the last two digits of the year in which the boiler or pressure vessel is stamped and followed by the letters “NV.”

2. The stamp, tag or number must be permanent in nature, must not be concealed by lagging or paint and must be exposed at all times unless a suitable record is kept of the location of the stamp, tag or number so that it may be readily uncovered at any time.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.192 Stamping and restamping: Compliance with code. (NRS 455C.110)

The stamping or restamping of a boiler or pressure vessel must comply with the applicable provisions of the code.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.194 Numbering of boiler or pressure vessel requiring manufacturer’s data report; signing and filing of copy of report. (NRS 455C.110) A boiler or pressure vessel for which a manufacturer’s data report is required pursuant to the code must bear a number beginning with “NB” as registered with the National Board. A copy of the manufacturer’s data report must be filed with the ~~[Enforcement]~~ *Mechanical Compliance* Section. The copy of the manufacturer’s data report that is filed with the ~~[Enforcement]~~ *Mechanical Compliance* Section must be signed by:

1. A representative of the manufacturer; and
2. A person who holds a commission and who inspected the boiler or pressure vessel during the manufacturing process.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

Safety Requirements

NAC 455C.200 Decrease in working pressure or temperature: Determination by inspector or special inspector; contest of decision. (NRS 455C.110)

1. An inspector or special inspector may require a decrease in the working pressure or temperature of a boiler or pressure vessel if he or she determines that the condition of the boiler or pressure vessel requires such a decrease. If the owner of the boiler or pressure vessel does not concur with the decision of the inspector or special inspector, the owner or his or her agent may

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contest the decision. The contest must be in writing, addressed to the ~~[Enforcement]~~ *Mechanical Compliance* Section and state with particularity the basis for the contest.

2. If contested, the person designated by the Chief to review the contest may require a joint inspection by any combination of two inspectors or special inspectors. Each inspector or special inspector shall prepare and submit a report to the person designated by the Chief. The person designated by the Chief shall render a final decision based upon the data contained in the reports submitted by the inspectors or special inspectors.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004;A by Emergency Regulation 6-16-2020)

NAC 455C.202 Removal or alteration of appliance for safety or device or valve for relief of pressure; removal of appliance for repair. (NRS 455C.110)

1. A person shall not attempt to remove or do any work on any required appliance for safety while a boiler or pressure vessel is subject to pressure.

2. If an appliance is removed for repair while a boiler or pressure vessel is out of service, it must be reinstalled and working properly before the boiler or pressure vessel is returned to service.

3. A person shall not alter any appliance for safety or any device or valve for the relief of pressure to maintain a working pressure in excess of that stated on the operating permit for the boiler or pressure vessel.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.204 Platforms and runways. (NRS 455C.110)

1. If valves and other appurtenances require frequent manipulation and are so located that they cannot be reached or operated from the floor, a platform or other safe means of operation must be provided. If a platform or runway is used, it must be at least 24 inches wide and be provided with standard handrails and toe boards and have at least 7 feet 6 inches of head room. All runways must have at least two means of exit remotely located from one another and connected to a permanent stairway or incline ladder leading to the floor.

2. When necessary for safety, a steel runway or platform of standard construction must be installed across the tops of adjacent boilers or pressure vessels or at some other convenient level to afford safe access. All runways must have at least two means of exit, remotely located from one another.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.206 Gas burners. (NRS 455C.110) For installations which are gas-fired, the burners used must conform to the applicable requirements of the *National Fuel Gas Code*, as adopted by reference in NAC 455C.108. *For installations which are gas-fired, an emergency shut-off valve shall be installed on the gas line feeding the installation upstream of all other valves. The shut-off valve shall interrupt all flow of gas to the installation upon actuating of the boiler emergency shut down switch.*

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(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.208 Supports. (NRS 455C.110) Each boiler and pressure vessel must be supported by masonry or structural supports of sufficient strength and rigidity to support safely the boiler or pressure vessel and its contents. There must not be an excessive vibration in the boiler, pressure vessel or its connecting piping.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.210 Connective pipes. (NRS 455C.110) All connective pipes that are subjected to pressure emanating from:

1. A heating boiler;
2. A hot water supply boiler;
3. A fired storage water heater;
4. A power or process boiler; or
5. An unfired pressure vessel,

↪ are part of the installation of the boiler or pressure vessel and must comply with the requirements for the boiler or pressure vessel. The inspection of the initial installation of such pipes must be performed by an inspector.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.212 Doors, latches and fastenings. (NRS 455C.110)

1. A watertube boiler must have firing doors which open inward, unless the doors are provided with substantial and effective latching or fastening devices or are so constructed as to prevent them from being blown open by pressure on the furnace side.

2. Latches or fastenings must be of the positive self-locking type. Friction contacts, latches or bolts actuated by springs must not be used. The requirements for latches or fastenings do not apply to coal openings of down-draft or similar furnaces.

3. All other doors except explosion doors not used in the firing of the boiler may be provided with bolts or fastenings in lieu of self-locking latching devices. Explosion doors, if used and if located in the setting walls within 7 feet of the firing floor or operating platform, must be provided with substantial deflectors to divert the blast.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.214 Backflow prevention devices. (NRS 455C.110) Except as otherwise provided in this section, the pipe that is used to feed water into a boiler or pressure vessel must not be installed or connected to any domestic water supply unless a backflow prevention device that is certified by the manufacturer as being approved pursuant to the code is installed to prevent contamination or pollution of the water supply. A backflow prevention device is not required to be installed on a hot water supply boiler that is used only for domestic water use. The certification

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for the backflow prevention device must be available to the inspector or special inspector, upon request, at the time of installation and annually thereafter.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.216 Repairs and alterations. (NRS 455C.110)

1. Repairs and alterations to all boilers and pressure vessels must conform to the applicable provisions of the code.

2. If a repair or alteration to a boiler or pressure vessel is necessary, an inspector or special inspector must be consulted about the appropriate method of making the repair or alteration. After the repair or alteration is made, the inspector or special inspector shall inspect the boiler or pressure vessel in the manner set forth in the code. The person who makes the repairs or alterations shall submit the “R” form, prescribed by the National Board, to the ~~[Enforcement]~~ *Mechanical Compliance* Section within 30 days after completion of the repair or alteration.

3. The person who makes repairs or alterations must be qualified pursuant to the applicable provisions of the code.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.218 Repair of safety valves. (NRS 455C.110) A person who is in the business of repairing safety valves must hold a certificate of authorization from the National Board for the use of a National Board Pressure Relief Valve Repair stamp, designated by the National Board as a “VR” stamp.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.220 Lap-seam crack. (NRS 455C.110)

1. The shell or drum of a boiler or pressure vessel with a lap-seam crack along a longitudinal riveted joint must be immediately discontinued from use. The crack may not be repaired.

2. As used in this section, “lap-seam crack” means a crack found in lap seams, extending parallel to the longitudinal joint and located between or adjacent to rivet holes.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.222 Automatically controlled boilers; repair or replacement of fittings or appliances. (NRS 455C.110)

1. Each automatically controlled boiler must be provided with a control for water level that automatically maintains the water level in the boiler within the range designated by the applicable provisions of the code.

2. Whenever repairs are made to fittings or appliances or it becomes necessary to replace them, the replacement or repairs must comply with the applicable provisions of the code.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

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NAC 455C.224 Repair or replacement of fitting or appliance. (NRS 455C.110) The replacement or repair of a fitting or appliance must be made in compliance with the requirements for the initial installation of a fitting or appliance.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.226 Capacity ratings of certain valves. (NRS 455C.110) The capacity rating of:

1. A safety valve that is designed primarily for use in steam or vapor service must be rated in pounds per hour.

2. A relief valve that is designed primarily for use in liquid service must be rated in British thermal units per hour.

3. A safety relief valve that is designed primarily for use in:

(a) Steam or vapor service must be rated in pounds per hour.

(b) Heated liquid service must be rated in British thermal units per hour.

4. A cold water relief valve may be rated in gallons per hour.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.228 Power boilers: Safety valves. (NRS 455C.110)

1. The use of weighted-lever safety valves or safety valves having the seat or disc of cast iron is prohibited. Valves of this type or construction must be replaced by direct spring-loaded, pop-type valves that conform to the requirements of section I of the *ASME Boiler and Pressure Vessel Code*, as adopted by reference in NAC 455C.108.

2. Each boiler must have at least one safety valve certified by the American Society of Mechanical Engineers or the National Board and, if it has more than 500 square feet of water-heating surface or an input of electric power of more than 1,100 kilowatts, it must have two or more such safety valves.

3. The valve must be connected to the boiler independent of any other connection and attached as close as possible to the boiler, without unnecessary intervening pipes or fittings.

4. A valve of any description must not be placed between the safety valve and the boiler, or on the discharge pipe between the safety valve discharge and the atmosphere. A discharge pipe must be at least the full size of the discharge of the safety valve and fitted with an open drain to prevent water from lodging in the upper part of the safety valve or discharge pipe. If an elbow is placed on a safety valve or discharge pipe, it must be located close to the outlet of the safety valve or discharge pipe and must be anchored and supported securely. All safety discharges must be so located or piped as to be carried clear of walkways or platforms.

5. The capacity of the safety valve of each boiler must be such that the safety valve will discharge all the steam which can be generated by the boiler without allowing the pressure to which any valve is set to rise more than 6 percent above the working pressure if the steam is discharged or 6 percent above the maximum allowable working pressure of the boiler, whichever is less.

6. One or more safety valves on every boiler must be set at or below the maximum allowable working pressure. The remaining valves may be set within a range of 3 percent above the

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maximum allowable working pressure, but the range of the setting of all the safety valves on a boiler may not exceed 10 percent of the highest pressure to which any valve is set.

7. If two or more boilers operating at different pressures and settings of the safety valve are interconnected, the lower pressure boilers or interconnected piping must be equipped with safety valves of sufficient capacity to prevent overpressure, considering the maximum generating capacity of all boilers.

8. In those cases where the boiler is supplied with feed water directly from water mains without the use of feeding apparatus other than return traps, a safety valve must not be set at a pressure greater than 94 percent of the lowest pressure obtained in the supply main that feeds the boiler.

9. The relieving capacity of the safety valves on any boiler must be checked by one of the following methods, and if found to be insufficient, additional valves must be provided:

(a) By making an accumulation test, which consists of shutting off all other steam discharge outlets from the boiler and forcing the fires to the maximum. The safety valve capacity must be sufficient to discharge all the steam that can be generated by the boiler without allowing the pressure to rise more than 6 percent above the highest pressure at which any valve is set and in no case to rise more than 6 percent above the maximum allowable working pressure of the boiler. This method must not be used on a boiler with a superheater or reheater or on a high-pressure, high-temperature water boiler.

(b) By measuring the maximum amount of fuel that can be burned and computing the corresponding capacity for evaporation or generation of steam upon the basis of the heating value of this fuel. These computations must be made as set forth in the appendix of section I of the *ASME Boiler and Pressure Vessel Code*, as adopted by reference in NAC 455C.108.

(c) By measuring the maximum amount of feed water that can be evaporated.

10. If either of the methods outlined in paragraph (b) or (c) of subsection 9 is employed, the sum of the safety valve capacities must be equal to or greater than the maximum evaporative capacity or the maximum steam generating capacity of the boiler.

11. The capacity rating of a:

(a) Safety valve must be expressed in pounds per hour.

(b) Relief valve must be expressed in British thermal units per hour.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.230 Steam heating boilers: Safety valves. (NRS 455C.110)

1. Each low-pressure steam boiler must have one or more safety valves certified by the American Society of Mechanical Engineers or the National Board which is of the spring-pop type, adjusted and sealed to discharge at a pressure not to exceed 15 PSIG. Seals must be attached in a manner to prevent the valve from being taken apart without breaking the seal. The safety valves must be arranged so that they cannot be reset to relieve at a higher pressure than the maximum allowable working pressure of the low-pressure steam boiler. A body drain that is below seat level must be provided by the manufacturer for all safety valves and safety relief valves and must not be plugged during or after field installation. For safety valves exceeding a 2 1/2-inch pipe size, the

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drain hole must be tapped not less than 3/8-inch pipe size. For safety valves which are equal to or less than 2 1/2-inch pipe size, the drain hole may not be less than one-quarter of an inch in diameter.

2. A safety valve for a low-pressure steam boiler must not be smaller than three-quarters of an inch. The safety valve must not be larger than 4 1/2 inches. The inlet opening must have an inside diameter equal to or greater than the seat diameter.

3. The minimum relieving capacity of the valve must be determined by the marking of the capacity on the boiler.

4. The minimum valve capacity in pounds per hour must be the greater figure determined:

(a) By dividing the maximum output in British thermal units at the boiler nozzle obtained by the firing of any fuel for which the unit is installed by 1,000; or

(b) On the basis of the pounds of steam generated per hour per square foot of heating surface as set forth in the following table:

Minimum Pounds of Steam Per Hour
Per Square Foot of Heating Surface

Boiler Heating Surface:	Firetube Boilers	Watertube Boilers
Hand fired.....	5	6
Stoker fired.....	7	8
Oil, gas or pulverized fuel fired.....	8	10
 Waterwall Heating Surface:		
Hand fired.....	8	8
Stoker fired.....	10	12
Oil, gas or pulverized fuel fired.....	14	16

5. For the purposes of the table set forth in subsection 4:

(a) If a boiler is fired only by a gas that gives a heat value not in excess of 200 British thermal units per cubic foot, the minimum safety valve or safety relief valve relieving capacity may be based on the value given for hand fired boilers in the table set forth in subsection 4.

(b) The minimum safety valve or safety relief valve relieving capacity for electric boilers must be 3 1/2 pounds per hour per kilowatt input.

6. The safety valve capacity for each steam boiler must be such that, if the fuel-burning equipment is installed and operated at maximum capacity, the pressure cannot rise more than 6 PSIG above the maximum allowable working pressure.

7. If operating conditions are changed or an additional boiler heating surface is installed, the valve capacity must be increased, if necessary, to meet the new conditions as set forth in the code. The additional valves required may be installed on the outlet piping if there is no intervening valve.

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8. If there is any doubt as to the capacity of the safety valve, an accumulation test must be run as provided in section IV of the *ASME Boiler and Pressure Vessel Code*, as adopted by reference in NAC 455C.108.

9. A valve of any description must not be placed between the safety valve and the boiler, or on the discharge pipe between the safety valve and the atmosphere. The discharge pipe must be at least full size and be fitted with an open drain to prevent water from lodging in the upper part of the safety valve or in the discharge pipe. If an elbow is placed on the outlet for the safety valve or the discharge pipe, it must be located close to the outlet or the discharge pipe and must be securely anchored and supported. All discharges from safety valves must be so located or piped as not to endanger any person in the area.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.232 Hot water boilers: Safety relief valves. (NRS 455C.110)

1. Each hot water heating boiler must have at least one safety relief valve, certified by the American Society of Mechanical Engineers or the National Board, set to relieve pressure at or below the maximum allowable working pressure of the boiler. Each hot water supply boiler must have at least one safety relief valve of the automatic reseating type, certified by the American Society of Mechanical Engineers or the National Board, set to relieve at or below the maximum allowable working pressure of the boiler. Safety relief valves must have a capacity certified by the American Society of Mechanical Engineers or the National Board and must have a spring-pop type action if tested by steam. If more than one safety relief valve is used on hot water heating or hot water supply boilers, the additional valve must be rated by the American Society of Mechanical Engineers or the National Board and set within a range not to exceed 6 PSIG above the maximum allowable working pressure of the boiler up to and including 60 PSIG and 10 percent if the maximum allowable working pressure exceeds 60 PSIG. Safety relief valves must be spring loaded. Safety relief valves must be arranged so that they cannot be reset at a higher pressure than the maximum permitted by this subsection.

2. Material that is likely to fail because of deterioration or vulcanization if it is subjected to a saturated steam temperature which corresponds to test pressure for capacity must not be used for any part of the safety relief valve.

3. A safety relief valve must not be smaller than three-quarters of an inch or larger than 4 1/2 inches in a standard pipe size, except that boilers having ~~[a]~~ *an* input of heat of not more than 15,000 British thermal units per hour may be equipped with a safety relief valve of one-half of an inch in diameter or its equivalent area. The opening for the inlet must have an inside diameter approximately equal to, or greater than, the diameter of the seat. The minimum opening through any part of the valve must not be less than one-fourth of an inch in diameter or an equivalent area.

4. The capacity of the safety relief valve for each boiler must be such that, with the fuel-burning equipment installed and operated at maximum capacity, the pressure cannot exceed ~~[6 PSIG above the maximum allowable working pressure of the boiler up to and including 60 PSIG and]~~ 10 percent ~~[if]~~ *above* the maximum allowable working pressure ~~[exceeds 60 PSIG]~~ *of the boiler* .

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5. If operating conditions are changed or additional boiler heating surface is installed, the capacity of the valve must be increased, if necessary, to meet the new conditions as set forth in the code and must be in accordance with subsection 4. The additional valves required because of changed conditions may be installed on the outlet piping if there is no intervening valve.

6. If there is any doubt as to the capacity of the safety relief valve, an accumulation test must be run as provided in section IV of the *ASME Boiler and Pressure Vessel Code*, as adopted by reference in NAC 455C.108.

7. A valve of any description must not be placed between the safety relief valve and the boiler, or on the discharge pipe between the safety relief valve and the atmosphere. The discharge pipe must be at least full size and fitted with an open drain to prevent water from lodging in the upper part of the safety relief valve or in the discharge pipe. If an elbow is placed on the discharge pipe, it must be located close to the safety relief valve outlet or the discharge pipe must be securely anchored and supported. All discharges from the safety relief valve must be so located or piped as not to endanger any person in the area.

8. A pressure and temperature relief valve must be installed on all water heaters and hot water supply boilers to which the provisions of NAC 455C.020 to 455C.300, inclusive, apply.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.234 Lined potable water heaters: Relief valves. (NRS 455C.110)

1. A ~~[lined]~~ potable water heater must have at least one pressure and temperature relief valve that is:

(a) Not smaller than three-fourths of an inch standard pipe size; and

(b) Marked with the symbol V or HV to ensure compliance with the construction and rating requirements of the code.

2. The pressure setting of the relief valve must be less than or equal to the maximum allowable working pressure of the ~~[lined]~~ potable water heater. The temperature setting of the relief valve must not exceed 210 degrees Fahrenheit. If any other components of the hot water supply system, such as a valve, pump, expansion or storage tank or piping, have a working pressure rating that is less than the ~~[lined]~~ potable water heater, the pressure setting for the relief valve must be based upon the component with the lowest maximum allowable working pressure rating. If there is more than one safety relief valve on a ~~[lined]~~ potable water heater, the pressure of the additional valve must not exceed the pressure of the first valve by more than 10 percent.

3. The relieving capacity for the safety relief valve of an electrically powered ~~[lined]~~ potable water heater must be greater than 3,500 British thermal units per hour per kilowatt of input. The required relieving capacity for the safety relief valve on any other ~~[lined]~~ potable water heater must be in British thermal units per hour and must not be less than the maximum allowable input.

4. A ~~[lined]~~ potable water heater must have a safety relief valve capacity such that when the fuel-burning equipment is installed and operated at maximum capacity, the pressure cannot rise more than 10 percent of maximum allowable working pressures.

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5. If operating conditions change or additional heating surface is installed, the capacity of the safety relief valve on a ~~[lined]~~ potable water heater must be increased to meet the requirements of this section. If any additional valves are required because of a change in operating conditions, the valves may be installed on the outlet piping if there is not an intervening valve.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.236 Discharge piping. (NRS 455C.110) The discharge of safety valves, blowoff pipes and other outlets of a boiler or pressure vessel must be full sized to the point of discharge and be piped to a safe point of discharge.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

Boilers

NAC 455C.240 Period of operation for nonstandard boiler. (NRS 455C.110)

1. A boiler having a longitudinal joint that is other than lap-riveted may be continued in operation beyond 30 years at the working pressure determined by the formula set forth in NAC 455C.242 if it is thoroughly inspected, by an internal inspection and an external inspection, and is given a hydrostatic pressure test of 1 1/2 times the maximum allowable working pressure and held for at least 30 minutes, during which no distress or leakage develops.

2. The maximum age at which any nonstandard boiler having longitudinal joints that are lap-riveted and operating at a pressure in excess of 50 PSIG may be operated is 20 years. If such a boiler is removed from its existing setting, it may not be reinstalled for a pressure that is in excess of 15 PSIG.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.242 Working pressure for nonstandard boiler. (NRS 455C.110)

1. Except as otherwise provided in this section, the maximum allowable working pressure of a nonstandard boiler is determined by the following formula:

$$\frac{TStE}{RFS} = \text{maximum allowable working pressure, in PSIG}$$

where:

TS = ultimate tensile strength of shell plate, in PSIG. If the tensile strength is not known, it shall be deemed to be 55,000 PSIG for steel and 45,000 PSIG for wrought iron.

t = minimum thickness of shell plate of weakest course, in inches.

E = efficiency of longitudinal joint:

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For tube ligaments, E is determined by the appropriate provisions of section I of the *ASME Boiler and Pressure Vessel Code*, as adopted by reference in NAC 455C.108.

For riveted construction, E is determined by the appropriate provisions of the *National Board Inspection Code*.

For seamless construction, E must be 100 percent.

R = inside radius of weakest course of shell, in inches.

FS = factor of safety permitted by this chapter.

2. The resistance of mild steel to crushing shall be deemed to be 95,000 PSIG.
3. If computing the ultimate strength of rivets in shear, the following values in pounds per square inch of the cross-sectioned area of the shank of the rivet must be used:

				PSIG
Iron	rivets	in	single	38,000
shear.....				
Iron rivets in double shear.....				76,000
Steel rivets in single shear.....				44,000
Steel	rivets	in	double	88,000
shear.....				

4. If the diameter of the rivet holes in the longitudinal joints of a boiler is not known, the diameter and cross-sectioned area of rivets, after driving, may be selected from the following table or ascertained by cutting out one rivet in the body of the joint.

Sizes of Rivets Based on Plate Thickness

Thickness of plate, in inches	1/4	9/32	5/16	11/32	3/8	13/32
Diameter of rivet after driving, in inches	11/16	11/16	3/4	3/4	13/16	13/16
Thickness of plate, in inches	7/16	15/32	1/2	9/16	5/8	
Diameter of rivet after driving, in inches	15/16	15/16	15/16	1-1/16	1-1/16	

5. A nonstandard boiler with welded seams may not be operated at pressures exceeding 15 PSIG for steam and 30 PSIG for water.

6. The maximum allowable working pressure may be decreased by the inspector or special inspector if the condition and safety of the boiler warrant it.

7. Except as otherwise provided in this subsection, the lowest factor of safety permissible on existing installations is 4.5 or as set forth in the edition of the code that was applicable at the time of construction. The lowest factor of safety permissible on existing installations is 8 for horizontal-

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return tubular boilers having continuous longitudinal lap seams more than 12 feet in length. If such a horizontal-return tubular boiler is removed from its existing setting, it must not be reinstalled for pressures in excess of 15 PSIG.

8. Reinstalled or secondhand boilers must have a minimum factor of safety of 6 if the longitudinal seams are of lap-riveted construction, and a minimum factor of safety of 5 if the longitudinal seams are of butt- and double-strap construction.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.244 Working pressure for boiler made of cast iron. (NRS 455C.110) The maximum allowable working pressure for any boiler made of cast iron, except a hot water boiler, is 15 PSIG.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.246 Working pressure for watertube boiler. (NRS 455C.110) The maximum allowable working pressure on a watertube boiler which has:

1. Tubes secured in headers made of cast iron or malleable iron; or
2. Mud drums made of cast iron,

↪ must not exceed 160 PSIG.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.248 Maximum age. (NRS 455C.110) The maximum age at which a standard boiler may be operated is the age determined pursuant to the code in effect when the boiler was constructed and stamped, if it is thoroughly inspected, by an internal inspection and an external inspection, and is given a hydrostatic pressure test of 1 1/2 times the maximum allowable working pressure with water that is at a temperature of at least 70 degrees Fahrenheit but not more than 120 degrees Fahrenheit.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.250 Clearance: Generally. (NRS 455C.110) Except as otherwise provided in NAC 455C.252 and 455C.254, if boilers are replaced or new boilers are installed in existing or new buildings, a minimum height of at least 3 feet must be provided between the top of the boiler, excluding appurtenances, and the ceiling and at least 3 feet between any side of the boiler and any adjacent wall or other structure. Boilers and pressure vessels having manholes must have a 5-foot clearance from the opening of the manhole to any wall, ceiling or piping that will prevent a person from entering the boiler or pressure vessel. All boilers and pressure vessels must be located so that adequate space will be provided for the proper operation of the boilers and pressure vessels and their appurtenances, for the inspection of all surfaces, tubes, waterwalls, economizers, piping, valves and other equipment, and for the necessary maintenance and repair and the replacement of tubes. If pressure vessels are installed or replaced, there must be an area of unobstructed clearance which is at least 18 inches wide and provides access for inspection, maintenance and repair. Clearance for repairs and cleaning may be provided through a door or access panel into another

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area if the door or access panel is large enough to allow the repairs and cleaning to be performed adequately.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.252 Clearance: Fired storage and fired coil water heater. (NRS 455C.110)
The clearance between a wall or other structure and a fired storage and fired coil water heater must be not less than the clearance specified by the manufacturer.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.254 Clearance and access: Copper watertube boilers. (NRS 455C.110)

1. A copper watertube boiler that is used for domestic hot water or comfort heating must have a clearance of not less than the clearance recommended by the manufacturer of the boiler between each side or end of the boiler from which maintenance, operation of the controls, or repairs may be required, and any wall, column, equipment or other structure.

2. Each side or end of a copper watertube boiler that is used for domestic hot water or comfort heating must have a clearance of not less than 6 inches or the clearance recommended by the manufacturer of the boiler, whichever is greater, between each side or end of the boiler from which maintenance, operation of the controls, or repairs will not be required, and any wall, column, equipment or other structure.

3. A copper watertube boiler must be installed in a manner that allows a person access to the boiler to maintain, repair or operate the boiler.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.256 Feeding. (NRS 455C.110)

1. Each boiler must have a supply of feed water that will allow it to be fed at any time while under pressure.

2. A boiler having more than 500 square feet of water heating surface must have at least two means of feeding water, one of which must be a feed pump. A source of feed directly from water mains at a pressure of 6 percent greater than the set pressure of the safety valve with the highest setting may be used as one of the means of feeding water. Boilers fired by gaseous, liquid or solid fuel in suspension may be equipped with a single means of feeding water if means are furnished for the shutoff of heat before the level of water reaches the lowest safe level.

3. The feed water must be introduced into the boiler in such a manner that it will not be discharged close to riveted joints of the shell or furnace sheets, directly against the surfaces exposed to products of combustion or to direct radiation from the fire. The feed piping to the boiler must be provided with a check valve near the boiler and a stop valve or cock between the check valve and the boiler. If two or more boilers are fed from a common source, there must also be a stop valve on the branch to each boiler between the check valve and source of supply. If a globe valve is used on feed piping, the inlet must be under the disc of the valve.

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4. In all cases where returns are fed back to the boiler by gravity, there must be a check valve and stop valve in each return line. The stop valve must be placed between the boiler and the check valve, and both must be located as close to the boiler as is practicable.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.258 Feed water connections. (NRS 455C.110)

1. Feed water, make-up water or water treatment must be introduced into a boiler through the return piping system or through an independent feed water connection which does not discharge against the parts of the boiler exposed to direct radiant heat from the fire. Feed water, make-up water or water treatment must not be introduced through openings or connections provided for inspection or cleaning, a safety valve, safety relief valve, surface blowoff, water column, water gauge glass, pressure gauge or temperature gauge.

2. The feed water pipe must be provided with a check valve near the boiler and a stop valve or cock between the check valve and the boiler or return pipe system.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.260 Return pipe loop connections. (NRS 455C.110) The return water connections to all low-pressure steam heating boilers supplying a gravity return heating system must be arranged to form what is known as the “return pipe loop connection,” so that the water cannot be forced out of the boiler below the safe water level. This connection is illustrated in section IV of the *ASME Boiler and Pressure Vessel Code*, as adopted by reference in NAC 455C.108.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.262 Steam gauges. (NRS 455C.110)

1. Each steam boiler must have a steam gauge connected to the steam space or to the steam connection to the water column. The steam gauge must have a dial range that is graduated to approximately double the pressure at which the safety valve is set, but in no case to less than 1 1/2 times this pressure. The steam gauge must be connected to a siphon or equivalent device of sufficient capacity to keep the gauge tube filled with water and arranged so that the gauge cannot be shut off from the boiler except by a cock placed near the gauge and provided with a tee or lever handle arranged to be parallel to the pipe in which it is located when the cock is open.

2. If a steam gauge connection which is longer than 8 feet is necessary, a shutoff valve may be used near the boiler if the valve is of the outside-screw-and-yoke type and is locked open. The line must be of ample size with provision for free blowing. Each boiler must be provided with a 1/4-inch nipple and globe valve connected to the steam space for the exclusive purpose of attaching a test gauge when the boiler is in service so that the accuracy of the boiler steam gauge may be determined.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.264 Stop valves and check valves. (NRS 455C.110)

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1. Each outlet for steam from a boiler, except connections for a safety valve and water column, must be fitted with a stop valve that is located as close as practicable to the boiler.

2. If a stop valve is so located that water can accumulate, ample drains must be provided. The drainage must be piped to a safe location and must not be discharged on the top of the boiler or its setting.

3. If boilers provided with manholes are connected to a common steam main, the connection for steam from each boiler must be fitted with two stop valves having an ample free-blow drain between them. The discharge of the drain must be visible to the operator while manipulating the valves and must be piped clear of the boiler setting. The stop valves must consist of one automatic nonreturn valve set next to the boiler and a second valve of the outside-screw-and-yoke type.

4. If any part of a heating system may be closed off from the remainder of the system by closing a steam stop valve, there must be a check valve in the condensate return line from that part of the system.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.266 Water level indicators. (NRS 455C.110)

1. Outlet connections, except for damper regulators, feed water regulators, low-water fuel cutouts, drains, steam gauges or such apparatus that does not permit the escape of an appreciable amount of steam or water therefrom, must not be placed on the piping that connects the water column to the boiler. The water column must be provided with a valved drain of at least 3/4-inch pipe size, the drain to be piped to a safe location.

2. A boiler is not required to be installed with a gauge cock.

3. For all installations where the water gauge glass or glasses are more than 30 feet above the boiler operating floor, remote water level indicating or recording gauges must be installed at eye level above the operating floor.

4. Each steam boiler must have one or more water gauge glasses attached to the water column or boiler by means of valved fittings. The lower fitting must be provided with a drain valve of the straightway type with an opening not less than 1/4-inch diameter to facilitate cleaning. The replacement of the gauge glass must be possible while the boiler is under pressure.

5. Transparent materials other than glass may be used for the water gauge if the material has proved suitable for the pressure, temperature and corrosive conditions encountered in service.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.268 Qualifications of attendant. (NRS 455C.110) A person is qualified to attend a power boiler or a high-pressure, high-temperature water boiler, where such attendance is required pursuant to NAC 455C.274, if the person has:

1. The technical training, experience and knowledge necessary to start, operate and shut down the boiler; and

2. A high school diploma or the equivalent and at least the following number of days or equivalent hours of documented experience in the operation of boilers for the size of the boiler being operated:

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- (a) For up to 299 boiler horsepower, 182 days.
 - (b) For 300 to 499, inclusive, boiler horsepower, 365 days.
 - (c) For 500 to 1,000, inclusive, boiler horsepower, 547 days.
 - (d) For more than 1,000 boiler horsepower, 1,095 days.
- (Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.270 Air and ventilation. (NRS 455C.110)

1. A permanent source of outside air must be provided for the room in which the boiler is located to allow satisfactory combustion of the fuel as well as proper ventilation of the room under normal operating conditions. Air used for combustion must not be taken from a room that contains equipment for refrigeration.

2. The total input of British thermal units of the burners for all fired pressure vessels in the room for the boiler must be used to determine the size of the louver, whether the boilers are fired by coal, oil or gas in compliance with the applicable provisions of *Controls and Safety Devices for Automatically Fired Boilers*, as adopted by reference in NAC 455C.108.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.272 Exits. (NRS 455C.110) Any room for a boiler exceeding 500 square feet in floor area and containing one or more boilers having a capacity to burn fuel of 1,000,000 British thermal units per hour, or the equivalent electrical input of heat, must have at least two means of exit, remotely located from one another. If such a room has more than one elevation, each elevation must have two means of exit, remotely located from one another.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.274 Supervision. (NRS 455C.110)

1. Except as otherwise provided in subsection 4, a high-pressure, high-temperature water boiler and a power boiler must be attended by an operator who meets the qualifications set forth in NAC 455C.268.

2. The operator shall personally check the operation of the boiler, the necessary auxiliaries and the level of water in the boiler at intervals necessary to ensure the boiler's safe operation. The boiler and its auxiliaries must be checked at least once every 60 minutes and must not be left unattended for periods in excess of the time required to evaporate the water from the normal operating level to the lowest water level permissible if the feed water is shut off or the boiler is forced to its maximum capacity. A log noting the time of all checks and observations must be kept in the boiler room.

3. If the attendance of the boiler is required pursuant to this section, a clock to start or stop automatically the operation of the boiler must not be used, unless the timing mechanism is a device or system which has been approved by the ~~[Enforcement]~~ *Mechanical Compliance* Section.

4. High-pressure, high-temperature water boilers and power boilers are not required to be attended, if the boiler is equipped with the following functioning protective devices, as required

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by the applicable provisions of *Controls and Safety Devices for Automatically Fired Boilers*, CSD-1, ~~[2012]~~, as adopted by reference in NAC 455C.108:

(a) If the boiler is operated at less than supercritical pressure:

- (1) A low water fuel cutoff;
- (2) An automatic feed regulator;
- (3) Fireside regulators and controls;
- (4) An audible alarm to indicate low water;
- (5) A pressure control; and
- (6) A programmed flame safeguard system with an audible alarm on burners equipped with spark ignition.

(b) If the boiler is operated at supercritical pressure, it must include all the devices described in paragraph (a) and:

- (1) A cutoff device for high temperature or fuel; and
- (2) An audible alarm to indicate high temperature.

5. As used in this section, “supercritical pressure” means 3,206 pounds of pressure per square inch at 705 degrees Fahrenheit.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.276 Hot water heating boilers: Pressure or altitude gauge. (NRS 455C.110)

1. Each hot water heating boiler must have a pressure or altitude gauge connected to it or to its flow connection in such a manner that it cannot be shut off from the boiler except by a cock with a tee or lever handle, placed on the pipe near the gauge. The handle of the cock must be parallel to the pipe in which it is located when the cock is open.

2. The scale on the dial of the pressure or altitude gauge must be graduated to not less than 1/2 or more than 3 times the pressure at which the safety valve is set.

3. Piping or tubing for pressure or altitude gauge connections must be made of nonferrous metal if the size of the piping or tubing is smaller than 1 inch.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.278 Hot water boilers: Thermometer; operating control and secondary high limit control; stop valve. (NRS 455C.110)

1. Each hot water boiler must have a thermometer so located and connected that it is easily readable when observing the burner of the boiler. The thermometer must be so located and connected that it will at all times indicate, in degrees Fahrenheit, the temperature of the water in the boiler at or near the outlet.

2. In addition to satisfying the requirements set forth in subsection 1, each hot water boiler must be equipped with:

(a) An operating control and a secondary high limit control that automatically interrupts the fuel supply to the boiler if the boiler reaches its designed maximum operating temperature; and

(b) A stop valve *and drain valve* that ~~[has]~~ *have* been installed in accordance with:

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(1) The applicable construction code, if any; or

(2) *Controls and Safety Devices for Automatically Fired Boilers*, CSD-1, ~~{2012}~~, as adopted by reference in NAC 455C.108.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.280 Device for feeding water; automatic cutoff for fuel. (NRS 455C.110)

1. Except as otherwise provided in subsections 4 and 5, each automatically fired steam, vapor system or hot water heating boiler with an input of fuel in excess of 199,999 British thermal units per hour must be equipped with an automatic cutoff for fuel if water is low that is located in such a manner as to cut off automatically the supply of fuel when the surface of the water falls to the lowest safe water line. If a device for feeding water is installed, it must be so constructed that the inlet valve for water cannot feed water into the boiler through the float chamber and so located as to supply requisite water for feeding. For steam boilers, the lowest safe water line must be not lower than the lowest visible part of the water glass.

2. A device for controlling the feeding of water or fuel may be attached directly to a boiler or for low-pressure steam and hot water boilers, to the tapped opening provided for attaching a water glass directly to the boiler. The water glass must be attached as close as possible to the boiler. The ends of the nipples must be reamed to full-size diameter. The connection from the boiler must be a nonferrous “T” or “Y” joint at least 1/2-inch pipe size between the boiler and the water glass. The straightway tapping of the “T” or “Y” must take the fittings for the water glass. The side outlet of the “T” or “Y” must take the fittings for the fuel cutoff or device for feeding water.

3. Designs embodying a float and float bowl must have a vertical drain pipe and adequate valving for the straightway valve at the lowest point in the water-equalizing pipe connections by which the bowl and the equalizing pipe can be flushed and the device tested. The straightway valve must be at least 3/4-inch national pipe size.

4. The cutoff for fuel, if water is low on a hot water heating boiler, may be located anywhere above the lowest safe permissible water level established by the manufacturer of the boiler.

5. A coil-type or a watertube boiler for hot water which requires forced circulation of water to prevent overheating of the coils or tubes must have a device to sense the flow of water installed in the outlet pipes in place of the cutoff for fuel if water is low. The device must automatically cut off the supply of fuel if the circulating flow of water is interrupted.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.282 Pressure-reducing valves. (NRS 455C.110)

1. Where pressure-reducing valves are used, at least one relief or safety valve must be provided on the low-pressure side of the reducing valve if the piping or equipment on the low-pressure side does not meet the requirements for the full initial pressure. The relief or safety valve must be located downstream and as close as possible to the reducing valve. Proper protection must be provided to prevent injury or damage caused by any fluid escaping from the discharge or relief or safety valve if vented to the atmosphere. The combined discharged capacity of the relief or

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safety valve must be such that the pressure rating of the lower pressure piping or equipment is not exceeded if the reducing valve fails when it is in the open position.

2. Hand-controlled bypasses around reducing valves may be used. If a bypass is used around the reducing valve, the safety valve on the low-pressure side must be of sufficient capacity to relieve all the fluid that can pass through the bypass without overpressuring the low-pressure side. A pressure gauge must be installed on the low-pressure side of a reducing valve downstream of the safety relief valve.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.284 Blowoff piping and fittings. (NRS 455C.110)

1. The construction of the setting around each blowoff pipe must allow free expansion and contraction. The openings for the setting must be sealed without restricting the movement of the blowoff piping.

2. All blowoff piping, when exposed to heat from a furnace, must be protected by firebrick or other heat-resisting material so constructed that the piping may be inspected readily. Each boiler must have a blowoff pipe, fitted with a valve or cock, in direct connection with the lowest water space. Cocks must be of the gland or guard type and suitable for the pressure allowed. The use of globe valves must meet the requirements established by the American Society of Mechanical Engineers. If the maximum allowable working pressure exceeds 100 PSIG:

(a) Each blowoff pipe must be provided with two valves or a valve and cock, and the valves and cocks must be made of extra-heavy steel, or bronze when listed as acceptable in table 126.1 of *Power Piping*, as adopted by reference in NAC 455C.108, and must not be galvanized; and

(b) The blowoff piping must be at least extra-heavy steel from the boiler to each valve and must be run full size without reducers or bushings.

3. All fittings between the boiler and blowoff valve must be made of steel. In case of the renewal of the blowoff pipe or fittings, they must be installed in accordance with the requirements for new installations set forth in *Power Piping*, as adopted by reference in NAC 455C.108.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.286 Blowoff equipment. (NRS 455C.110)

1. A blowdown from a boiler that enters a sanitary sewer system or a blowdown which is considered by an inspector or special inspector to be a hazard to life or property must pass through blowoff equipment that will reduce pressure and temperature.

2. The temperature of the water leaving the blowoff equipment must not exceed 140 degrees Fahrenheit.

3. The pressure of the blowdown leaving any type of blowoff equipment must not exceed 5 PSIG.

4. The blowoff piping and fittings between the boiler and the blowoff tank must comply with the applicable provisions of the code.

5. All blowoff equipment must be fitted with openings to facilitate cleaning and inspection.

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6. Blowoff equipment must conform to the applicable provisions of the code.
 7. A blowoff tank, when required pursuant to the code, must:
 - (a) Be constructed in accordance with division 1 of section VIII of the *ASME Boiler and Pressure Vessel Code*, as adopted by reference in NAC 455C.108; and
 - (b) Have a minimum design pressure of 50 pounds per square inch or the maximum allowable working pressure of the boiler, whichever is greater.
- (Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

Pressure Vessels

NAC 455C.290 Working pressure for formed heads and nonstandard pressure vessels. (NRS 455C.110) The maximum allowable working pressure allowed for:

1. Formed heads and their tensile strength and factors of safety; and
2. Nonstandard pressure vessels subjected to external pressure,

↪ must be determined by the applicable provisions set forth in division 1 of section VIII of the *ASME Boiler and Pressure Vessel Code*, as adopted by reference in NAC 455C.108.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.292 Working pressure for nonstamped pressure vessels. (NRS 455C.110) If a pressure vessel is not stamped with a symbol of the American Society of Mechanical Engineers but the pressure vessel satisfies the requirements of the code, the maximum allowable working pressure of the pressure vessel is the maximum allowable working pressure as determined by the designer of the pressure vessel and stamped on the pressure vessel.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.294 Maximum allowable working pressure and minimum factor of safety. (NRS 455C.110)

1. The maximum allowable working pressure for standard pressure vessels must be determined in accordance with the applicable provisions of the edition of the code under which they were constructed and stamped.
2. The maximum allowable working pressure on the shell of a nonstandard pressure vessel must be determined by the following formula:

$$\frac{TStE}{RFS} = \text{maximum allowable working pressure, in PSIG}$$

where:

TS = ultimate tensile strength of shell plate, in PSIG. If the tensile strength of a carbon steel plate is not known, it shall be deemed to be 55,000 PSIG for temperatures not exceeding 650 degrees Fahrenheit. For all other materials, the lowest stress values for that material designated in

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division 1 of section VIII of the *ASME Boiler and Pressure Vessel Code*, as adopted by reference in [NAC 455C.108](#), must be used.

t = minimum thickness of shell plate of weakest course, in inches.

E = efficiency of longitudinal joint, depending upon construction. The following values must be used:

For riveted joints, calculated riveted efficiency.

For fusion-welded and brazed joints:

Single lap weld	40 percent
Double lap weld	50 percent
Single butt weld	60 percent
Double butt weld	70 percent
Forge weld	70 percent
Brazed steel	80 percent

R = inside radius of weakest course of shell, in inches, if the thickness does not exceed 10 percent of the radius. If the thickness is more than 10 percent of the radius, the outer radius must be used.

FS = factor of safety.

3. The maximum allowable working pressure for nonstandard pressure vessels subjected to external pressure will be determined by the applicable provisions in division 1 of section VIII of the *ASME Boiler and Pressure Vessel Code*, as adopted by reference in [NAC 455C.108](#).

4. The minimum factor of safety may not be less than the factor set forth in the edition of the code that was applicable at the time of construction. The maximum allowable working pressure may be decreased if deemed necessary by the inspector or special inspector to ensure the operation of the vessel within safe limits. The inspector or special inspector shall consider the condition of the vessel and the particular service to which it is subjected.

5. The maximum allowable working pressure permitted for formed heads under pressure will be determined by using the appropriate formulas set forth in:

(a) Division 1 of section VIII of the *ASME Boiler and Pressure Vessel Code*, as adopted by reference in [NAC 455C.108](#); and

(b) Subsections 3 and 4.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.296 Safety and relief valves and indicating and controlling devices. (NRS 455C.110) Each pressure vessel must be protected by safety or relief valves and indicating and controlling devices which will ensure its safe operation. These valves and devices must be so constructed, located and installed that they cannot readily be rendered inoperative. The relieving capacity of safety valves must be sufficient to prevent a rise of pressure in the vessel of more than 10 percent above the highest pressure to which any device to relieve pressure is set but in no case

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more than 6 percent above the maximum allowable working pressure. The opening pressure of the device to relieve pressure must not be greater than the maximum allowable working pressure of the vessel.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.298 Hydrostatic tests for pressure; use of other testing media. (NRS 455C.110)

1. A hydrostatic pressure test, when applied to pressure vessels, must not exceed 1 1/2 times the maximum allowable working pressure. The pressure must be under proper control so that the required test pressure will not be exceeded by more than 2 percent.

2. During a hydrostatic test, the safety valve must be removed or each valve disc must be held to its seat by means of a testing clamp or plugging device and not by screwing down the compression screw upon the spring.

3. The temperature of the water used to apply a hydrostatic test must be not less than 70 degrees Fahrenheit or more than 120 degrees Fahrenheit.

4. When a hydrostatic test is applied, the pressure must be equal to:

(a) The normal operating pressure of the pressure vessel but need not exceed the release pressure of the safety valve having the lowest release setting if tightness is in question.

(b) One and one-half times the maximum allowable working pressure if safety is in question.

5. If the contents of the vessel prohibit contamination by any other medium or if a hydrostatic test is not possible, other testing media may be used if the requirements of the applicable sections of the code are satisfied.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

Miscellaneous Provisions

NAC 455C.300 Contractor's license required for certain activities; exemption from requirement. (NRS 455C.110)

1. Except as otherwise provided in subsections 2 and 3, a person shall not undertake to, or offer to undertake to, install, construct, add to, subtract from, improve or move any boiler or pressure vessel unless the person holds a contractor's license issued pursuant to chapter 624 of NRS which authorizes him or her to install boilers or pressure vessels.

2. A person who performs an act described in subsection 1 as the employee of another is not required to hold a contractor's license that meets the requirements of subsection 1 if:

(a) The person's only compensation for the act is wages paid by his or her employer; and

(b) The person's employer holds a license that meets the requirements of subsection 1.

3. The provisions of this section do not apply to a person who merely furnishes materials or supplies without fabricating them into, or using them in the performance of work on, a boiler or pressure vessel.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

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ELEVATORS

General Provisions

NAC 455C.400 Definitions. (NRS 455C.110) As used in NAC 455C.400 to 455C.530, inclusive, unless the context otherwise requires, the words and terms defined in NAC 455C.402 to 455C.444, inclusive, have the meanings ascribed to them in those sections.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.402 “Alteration” defined. (NRS 455C.110) “Alteration” means any change, other than maintenance, repair or replacement to the equipment of an elevator, including its parts, components and subsystems.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.403 “Authorized inspection agency” defined. (NRS 455C.110) “Authorized inspection agency” means a person who holds a certificate of accreditation as an authorized inspection agency issued by the Mechanical Compliance Section pursuant to NAC 455C.480.

(Added to NAC by Div. of Industrial Relations by R077-14, eff. 1-16-2015)

NAC 455C.404 “Certificate” defined. (NRS 455C.110) “Certificate” means a certificate to work as an elevator mechanic that is issued by the Mechanical Compliance Section pursuant to NAC 455C.460.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.406 “Certificate of competency” defined. (NRS 455C.110) “Certificate of competency” means a certificate of competency as a special inspector issued by the Mechanical Compliance Section pursuant to NAC 455C.464.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.408 “Contractor” defined. (NRS 455C.110) “Contractor” has the meaning ascribed to it in NRS 624.020.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.410 “Elevator” defined. (NRS 455C.110)

1. “Elevator” includes, without limitation, an elevator, dumbwaiter, escalator, moving walk, platform lift, *material lift* and related equipment. The term also includes the hoistway and hoistway enclosure of the elevator, dumbwaiter, escalator, moving walk, platform lift, *material lift* and related equipment, and all the machinery and equipment necessary for the operation of the elevator, dumbwaiter, escalator, moving walk, platform lift, *material lift* and related equipment.

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2. As used in this section, “hoistway enclosure” means a fixed structure, consisting of vertical walls or partitions, that isolates the hoistway from all other areas or from an adjacent hoistway and in which entrances are installed.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.412 “Elevator mechanic” defined. (NRS 455C.110) “Elevator mechanic” has the meaning ascribed to it in NRS 455C.070.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.414 “Elevator mechanic apprentice” defined. (NRS 455C.110) “Elevator mechanic apprentice” means a person who holds a work card that authorizes him or her to work as an elevator mechanic apprentice under the supervision of an elevator mechanic.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.416 “Elevator mechanic helper” defined. (NRS 455C.110) “Elevator mechanic helper” means a person who holds a work card that authorizes him or her to work as an elevator mechanic helper under the supervision of an elevator mechanic.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.418 “Existing installation” defined. (NRS 455C.110) “Existing installation” means an elevator that was installed before December 15, 2004.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.420 “Hoistway” defined. (NRS 455C.110)

1. “Hoistway” means an opening through a building or structure for the travel of an elevator, dumbwaiter or manlift that extends from the floor of the pit to the roof or floor above.

2. As used in this section, “pit” means:

(a) With regard to an elevator, the portion of a hoistway extending from the sill level of the bottom terminal landing to the floor at the bottom of the hoistway; and

(b) With regard to a dumbwaiter or manlift, the portion of a hoistway extending from the floor level of the bottom terminal landing to the floor at the bottom of the hoistway.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.422 “Inspector” defined. (NRS 455C.110) “Inspector” means an elevator inspector employed by the Mechanical Compliance Section.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.423 “Licensed elevator contractor” defined. (NRS 455C.110) “Licensed elevator contractor” means a person properly licensed pursuant to chapter 624 of NRS by the State Contractors’ Board to install, maintain, repair or alter an elevator.

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(Added to NAC by Div. of Industrial Relations by R077-14, eff. 1-16-2015)

NAC 455C.424 “Maintenance” defined. (NRS 455C.110) “Maintenance” means a process of routine examination, lubrication, cleaning and adjustment of parts, components and subsystems of an elevator to ensure that the elevator satisfies the requirements set forth in NAC 455C.400 to 455C.530, inclusive.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.426 “New elevator” defined. (NRS 455C.110) “New elevator” means an elevator for which the application for installing or relocating the elevator is filed with the Mechanical Compliance Section on or after December 15, 2004.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.428 “Operating permit” defined. (NRS 455C.110) “Operating permit” means a permit required by NRS 455C.100 and issued by the Mechanical Compliance Section for the operation of an elevator.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.430 “Person” defined. (NRS 455C.110) “Person” means a natural person, any form of business organization and any other legal entity, including, without limitation, a corporation, partnership, association, trust or unincorporated organization, government or governmental subdivision or instrumentality.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.431 “Platform lift” defined. (NRS 455C.110) “Platform lift” includes a wheelchair lift, stairway lift and chair lift.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015) — (Substituted in revision for NAC 455C.442)

NAC 455C.432 “Private residence elevator” defined. (NRS 455C.110) “Private residence elevator” means an elevator that is installed in a private residence ~~[or in a multiple-family dwelling or apartment complex]~~ as a means of access to a private residence, *or any portion of the residence, and is not accessible to the general public.*

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.434 “Related equipment” defined. (NRS 455C.110) “Related equipment” means a manlift, personnel hoist, *vertical reciprocating conveyor, shopping cart conveyor* or any other related equipment designated by the Mechanical Compliance Section.

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(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.436 “Repair” defined. (NRS 455C.110) “Repair” means the reconditioning of a part, component or subsystem of an elevator which is necessary to ensure that the equipment of the elevator satisfies the requirements set forth in NAC 455C.400 to 455C.530, inclusive.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.438 “Replacement” defined. (NRS 455C.110) “Replacement” means the substitution of a device, component or subsystem of an elevator, in its entirety, with another device, component or subsystem that is substantially the same as the original device, component or subsystem to ensure that the elevator satisfies the requirements set forth in NAC 455C.400 to 455C.530, inclusive.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.440 “Special inspector” defined. (NRS 455C.110) “Special inspector” means an elevator inspector who holds a current Qualified Elevator Inspector (QEI) certification issued by an organization that holds a QEI Certificate of Accreditation and a certificate of competency and who, on or after July 1, 2015, is employed by or affiliated with an authorized inspection agency to inspect elevators in this State. The term does not include an inspector as defined in NAC 455C.422.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R160-08, 12-17-2008; R077-14, 1-16-2015)

NAC 455C.444 “Work card” defined. (NRS 455C.110) “Work card” means a card to work as an elevator mechanic apprentice or an elevator mechanic helper that is issued by the Mechanical Compliance Section pursuant to NAC 455C.468.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.446 Scope and applicability. (NRS 455C.110)

1. The requirements of NAC 455C.400 to 455C.530, inclusive, apply to the installation, relocation, use, maintenance, alteration or repair of an elevator as specified in this section.

2. All new elevators must be designed and installed in accordance with the requirements of NAC 455C.400 to 455C.530, inclusive.

3. All relocations of elevators made on or after December 15, 2004, must satisfy the requirements of NAC 455C.400 to 455C.530, inclusive.

4. An existing installation may be used without being reconstructed to comply with the requirements of NAC 455C.400 to 455C.530, inclusive, except for those sections which specifically refer to such existing installations. Every existing installation must be maintained in a safe operating condition and must comply with the applicable provisions of the edition of each publication adopted by reference in NAC 455C.500 that was in effect at the time the elevator was

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installed and the *Safety Code for Existing Elevators and Escalators*, A17.3, as adopted by reference in NAC 455C.500.

5. Except as otherwise provided in this subsection, an alteration or repair to an existing installation must satisfy the requirements set forth in NAC 455C.400 to 455C.530, inclusive. If the Mechanical Compliance Section determines that it is not practicable to satisfy any of those requirements, the alteration or repair must satisfy the requirements of the applicable provisions of the edition of each publication adopted by reference in NAC 455C.500 that was in effect at the time the elevator was installed.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.448 Procedure to obtain exemption for certain conditions or practices; grant of certain exemptions by Chief. (NRS 455C.110)

1. A person responsible for the operation of an elevator pursuant to NAC 455C.504, *or that person's agent*, who wishes to obtain an exemption from a requirement set forth in NAC 455C.400 to 455C.530, inclusive, for a condition or practice that is not consistent with the requirement must submit an application for an exemption to the Mechanical Compliance Section on a form prescribed by the Mechanical Compliance Section.

2. If a condition or practice for which the person requests an exemption does not affect the safe operation of an elevator or related system, the Mechanical Compliance Section may approve the exemption from the requirement if the exemption is in the best interests of the general public and:

- (a) Such an exemption is necessary to allow the operation of the elevator or related system and compliance with the requirement is not practicable; or
- (b) The elevator or related system complies with the codes or standards adopted by the local jurisdiction within which the elevator or related system is located.

3. If a person designated by the Chief recommends approval of the exemption:

- (a) The recommendation for approval must be noted on the application for an exemption; and
- (b) The Chief must review and determine whether to accept or reject the application for an exemption within 5 business days after the application is submitted to the Mechanical Compliance Section.

4. If the Chief grants the exemption, the Chief shall:

- (a) Note that he or she has granted the exemption on the application for an exemption; and
- (b) Forward the application for an exemption to the Administrator within 15 calendar days after granting the exemption.

5. If the Chief or his or her designee denies the exemption and the person requesting the exemption contests the denial, the Chief or his or her designee shall have the elevator jointly inspected by any combination of two inspectors or special inspectors. Each inspector or special inspector shall prepare and submit a report of inspection to the Chief or his or her designee. The Administrator or his or her designee shall reconsider the application for exemption and render a final decision based on the information contained in the reports of inspection submitted by the

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inspectors or special inspectors pursuant to this section. The decision of the Administrator or his or her designee is a final decision for the purpose of judicial review.

6. In addition to an exemption that may be granted pursuant to subsections 1 to 5, inclusive, the Chief may grant an exemption from a requirement set forth in NAC 455C.400 to 455C.530, inclusive, for an elevator in the case of an emergency or if he or she determines that such an exemption is in the best interests of the general public. If the Chief grants an exemption pursuant to this subsection, the Chief shall notify the Administrator of the exemption. If the exemption is granted because the Chief determined that the exemption is in the best interests of the general public, the notice to the Administrator must be in writing.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; A by Emergency Regulation, eff. 6-16-2020)

NAC 455C.450 Fees and charges of Mechanical Compliance Section. (NRS 455C.110, 455C.120)

1. The Mechanical Compliance Section shall charge and collect the following fees:

Certificates to work as an Elevator Mechanic	Fees
For the issuance of a certificate.....	\$150
For the renewal of a certificate.....	75
Certificates of Accreditation as an Authorized Inspection Agency	Fees
For the issuance of a certificate of accreditation.....	\$300
For the renewal of a certificate of accreditation.....	150
Certificates of Competency for Special Inspectors	Fees
For the issuance of a certificate of competency.....	\$—150
For the renewal of a certificate of competency.....	75
Work Cards for Elevator Mechanic Apprentices and Helpers	Fees
For the issuance of a work card.....	\$150
For the renewal of a work card.....	75
Passenger Elevators	Fees
For the issuance of an initial operating permit based on an acceptance inspection, if the passenger elevator has:	
At least 1 but not more than 10 landings.....	\$500

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Passenger Elevators	Fees
At least 11 but not more than 30 landings.....	750
More than 30 landings.....	1,000
Freight Elevators <i>and Vertical Reciprocating Conveyors</i>	Fees
For the issuance of an initial operating permit based on an acceptance inspection, if the freight elevator <i>or vertical reciprocating conveyor</i> has a capacity of:	
10,000 pounds or less.....	\$500
More than 10,000 pounds.....	750
Dumbwaiters	Fees
For the issuance of an operating permit for a dumbwaiter, based on an acceptance inspection.....	\$250
Escalators, <i>Shopping Cart Conveyors</i> , Moving Walks and Manlifts	Fees
For the issuance of an operating permit for an escalator, <i>shopping cart conveyor</i> , moving walk or manlift, based on an acceptance inspection.....	\$750
Elevators and Personnel Hoists Used During Construction	Fees
For the issuance of a limited operating permit for an elevator that is used during construction, based on an acceptance inspection.....	\$300
For the issuance of a limited operating permit for a personnel hoist that is used during construction, based on an acceptance inspection.....	500
Platform Lifts	Fees
For the issuance of an operating permit for a platform lift, based on an acceptance inspection.....	\$250
Private Residence Elevators	Fees
For the preliminary and final inspections of a private residence elevator by an inspector that are required to be made at the time of installation pursuant to NAC 455C.516.....	\$400

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Private Residence Elevators	Fees
For each subsequent inspection of a private residence elevator by a special inspector that is requested by the owner of the private residence elevator.....	100
Renewal of Operating Permits for Elevators Inspected by Special Inspectors	Fees
For the renewal of an operating permit for an elevator if the operating permit is renewed based on a report of inspection made by [a] <i>an inspector or</i> special inspector.....	\$200
Special Services	Fees
For any services rendered by the Mechanical Compliance Section to assist a person in complying with the provisions of this chapter, including, without limitation, an inspection other than an inspection required by NAC 455C.516 and the review of plans, drawings and specifications before those plans, drawings and specifications are submitted to the Mechanical Compliance Section pursuant to NAC 455C.506:	
Per hour charge for those services provided during the first 8 hours of a day.....	\$60
Per hour charge for those services provided after the first 8 hours of the day.....	100

2. In addition to paying the fees imposed by this section for services rendered by the Mechanical Compliance Section to assist a person in complying with the provisions of this chapter, a person who requests that the Mechanical Compliance Section perform such services must pay all necessary expenses incurred by the Mechanical Compliance Section in fulfilling the request, including, without limitation:

- (a) The payment of a mileage charge before the issuance of any permit at a rate equal to the mileage allowance for state officers and employees who use their personal vehicles for the convenience of this State for all travel to and from an inspection conducted at a location which is more than 50 miles from the closest office of the Mechanical Compliance Section;
- (b) A charge of \$20 for the filing of a maintenance control program for an elevator; ~~[and]~~
- (c) A charge of \$250 for any inspection that is cancelled less than one full business day before the scheduled inspection ;
- (d) A processing fee of up to \$25 for each renewal of an operating permit issued by the Mechanical Compliance Section; and*
- (e) Alterations to elevators shall be assessed on a per hour basis not to exceed the cost for an initial operating permit of an elevator of the same type.*

3. Each fee owed to the Mechanical Compliance Section must be paid in advance. The Mechanical Compliance Section will not process and will return to the sender any documents

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submitted to the Mechanical Compliance Section which do not include the correct fee, are incomplete or are not sent to the Mechanical Compliance Section office which maintains the record for that object. An amended submission for any submission returned pursuant to this subsection may be resubmitted to the Mechanical Compliance Section within 10 business days after the original submission was returned to the sender and must be accompanied by an additional fee of \$50.

4. Fees for annual renewal of operating permits shall be, at the discretion of the Administrator, collected by the Authorized Inspection Agencies on behalf of the Division.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; R077-14, 1-16-2015, eff. 1-16-2017; R077-14, 1-16-2015, eff. 1-16-2018; Emergency Regulation, eff. 6-16-2020)

Certification of Elevator Mechanics

NAC 455C.460 Certificate: Application and prerequisites; issuance; expiration; restrictions. [Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110)

1. An applicant for a certificate to work as an elevator mechanic must submit to the Mechanical Compliance Section:

- (a) An application on a form prescribed by the Mechanical Compliance Section;
- (b) The fee for the issuance of a certificate set forth in NAC 455C.450;
- (c) The statement required by NAC 455C.474; and
- (d) Proof satisfactory to the Mechanical Compliance Section that the applicant:

(1) Has successfully completed a formal educational program or an apprenticeship, recognized by a state or federal apprenticeship program, in the construction, installation, alteration and repair of elevators;

(2) Has at least 12,000 hours of working experience in the construction, installation, alteration and repair of elevators;

(3) Has at least 10,000 hours of working experience in the construction, installation, alteration and repair of elevators and holds a current Qualified Elevator Inspector (QEI) certification issued by an organization that holds a QEI Certificate of Accreditation;

(4) Has at least 8,000 hours of working experience in the construction, installation, alteration and repair of elevators, has successfully completed at least 60 semester hours or 90 quarter hours of course work from an accredited college or university in an engineering field relating to the construction, installation, alteration and repair of elevators and holds a current Qualified Elevator Inspector (QEI) certification issued by an organization that holds a QEI Certificate of Accreditation; or

(5) Has ~~[, on December 15, 2004,]~~ at least 6,000 hours of working experience in the construction, installation, alteration and repair of private residence elevators.

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2. If the Mechanical Compliance Section has reason to believe that the conduct of an applicant for a certificate has raised a reasonable question as to the applicant's competence to practice as an elevator mechanic with reasonable skill and safety, the Mechanical Compliance Section may require an examination of the applicant to determine his or her fitness to practice as an elevator mechanic. If such action is taken, the reasons for the action must be documented and must be available to the applicant being examined.

3. A certificate issued pursuant to this section expires at midnight ~~[on September 1 next following]~~ *one year after* the date of issuance, unless the certificate is renewed.

4. Except as otherwise provided in subsections 5 and 6, if an applicant satisfies the requirements set forth in this section, the Mechanical Compliance Section shall issue a certificate to the applicant.

5. If the working experience of the applicant is limited to private residence elevators, the certificate issued pursuant to this section must only authorize the holder of the certificate to construct, install, alter or repair a private residence elevator.

6. If the working experience of the applicant is limited to personnel hoists and employee elevators on construction or demolition sites, the certificate issued pursuant to this section must only authorize the holder of the certificate to construct, install, alter or repair a personnel hoist or employee elevator on a construction or demolition site.

7. If the working experience of the applicant is limited to vertical reciprocating conveyors, the certificate issued pursuant to this section must only authorize the holder of the certificate to construct, install, alter or repair a vertical reciprocating conveyor.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.460 Certificate: Application and prerequisites; issuance; expiration; restrictions. [Effective on the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110)

1. An applicant for a certificate to work as an elevator mechanic must submit to the Mechanical Compliance Section:

- (a) An application on a form prescribed by the Mechanical Compliance Section;
- (b) The fee for the issuance of a certificate set forth in NAC 455C.450; and
- (c) Proof satisfactory to the Mechanical Compliance Section that the applicant:

(1) Has successfully completed a formal educational program or an apprenticeship, recognized by a state or federal apprenticeship program, in the construction, installation, alteration and repair of elevators;

(2) Has at least 12,000 hours of working experience in the construction, installation, alteration and repair of elevators;

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(3) Has at least 10,000 hours of working experience in the construction, installation, alteration and repair of elevators and holds a current Qualified Elevator Inspector (QEI) certification issued by an organization that holds a QEI Certificate of Accreditation;

(4) Has at least 8,000 hours of working experience in the construction, installation, alteration and repair of elevators, has successfully completed at least 60 semester hours or 90 quarter hours of course work from an accredited college or university in an engineering field relating to the construction, installation, alteration and repair of elevators and holds a current Qualified Elevator Inspector (QEI) certification issued by an organization that holds a QEI Certificate of Accreditation; or

(5) Has ~~[, on December 15, 2004,]~~ at least 6,000 hours of working experience in the construction, installation, alteration and repair of private residence elevators.

2. If the Mechanical Compliance Section has reason to believe that the conduct of an applicant for a certificate has raised a reasonable question as to the applicant's competence to practice as an elevator mechanic with reasonable skill and safety, the Mechanical Compliance Section may require an examination of the applicant to determine his or her fitness to practice as an elevator mechanic. If such action is taken, the reasons for the action must be documented and must be available to the applicant being examined.

3. A certificate issued pursuant to this section expires at midnight ~~[on September 1 next following]~~ *one year after* the date of issuance, unless the certificate is renewed.

4. Except as otherwise provided in subsections 5 and 6, if an applicant satisfies the requirements set forth in this section, the Mechanical Compliance Section shall issue a certificate to the applicant.

5. If the working experience of the applicant is limited to private residence elevators, the certificate issued pursuant to this section must only authorize the holder of the certificate to construct, install, alter or repair a private residence elevator.

6. If the working experience of the applicant is limited to personnel hoists and employee elevators on construction or demolition sites, the certificate issued pursuant to this section must only authorize the holder of the certificate to construct, install, alter or repair a personnel hoist or employee elevator on a construction or demolition site.

7. If the working experience of the applicant is limited to vertical reciprocating conveyors, the certificate issued pursuant to this section must only authorize the holder of the certificate to construct, install, alter or repair a vertical reciprocating conveyor.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020, eff. upon the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings)

NAC 455C.462 Certificate: Renewal. [Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for

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noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110) To renew a certificate, an elevator mechanic must ~~[, on or before September 1,]~~, *prior to expiration*, submit to the Mechanical Compliance Section:

1. An application on a form prescribed by the Mechanical Compliance Section;
2. The fee for the renewal of a certificate set forth in NAC 455C.450; and
3. The statement required by NAC 455C.474.

4. A certificate issued pursuant to this section expires at midnight one year after the date of issuance.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.462 Certificate: Renewal. [Effective on the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110) To renew a certificate, an elevator mechanic must ~~[, on or before September 1,]~~, *prior to expiration*, submit to the Mechanical Compliance Section:

1. An application on a form prescribed by the Mechanical Compliance Section; and
2. The fee for the renewal of a certificate set forth in NAC 455C.450.

3. A certificate issued pursuant to this section expires at midnight one year after the date of issuance.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020, eff. upon the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings)

Certificates of Competency and Work Cards

NAC 455C.464 Certificate of competency: Application and prerequisites; issuance; expiration. [Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110)

1. An applicant for a certificate of competency as a special inspector must:
 - (a) Submit to the Mechanical Compliance Section:
 - (1) An application on a form prescribed by the Mechanical Compliance Section;
 - (2) The fee for the issuance of a certificate of competency set forth in NAC 455C.450; and
 - (3) The statement required by NAC 455C.474; and
 - (b) Hold a current Qualified Elevator Inspector (QEI) certification issued by an organization that holds a QEI Certificate of Accreditation.

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2. A certificate of competency issued pursuant to this section expires at midnight ~~[on September 1 next following]~~ *one year after* the date of issuance, unless the certificate of competency is renewed.

3. If an applicant satisfies the requirements set forth in this section, the Mechanical Compliance Section shall issue a certificate of competency to the applicant.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.464 Certificate of competency: Application and prerequisites; issuance; expiration. [Effective on the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110)

1. An applicant for a certificate of competency as a special inspector must:

(a) Submit to the Mechanical Compliance Section:

(1) An application on a form prescribed by the Mechanical Compliance Section; and

(2) The fee for the issuance of a certificate of competency set forth in NAC 455C.450; and

(b) Hold a current Qualified Elevator Inspector (QEI) certification issued by an organization that holds a QEI Certificate of Accreditation.

2. A certificate of competency issued pursuant to this section expires at midnight ~~[on September 1 next following]~~ *one year after* the date of issuance, unless the certificate of competency is renewed.

3. If an applicant satisfies the requirements set forth in this section, the Mechanical Compliance Section shall issue a certificate of competency to the applicant.

(Added to NAC by Div. of Industrial Relations by R101-02, 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020, eff. upon the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings)

NAC 455C.466 Certificate of competency: Renewal. [Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110) To renew a certificate of competency, a special inspector must, ~~[on or before September 1]~~ *prior to expiration*, submit to the Mechanical Compliance Section:

1. An application on a form prescribed by the Mechanical Compliance Section;

2. The fee for the renewal of a certificate of competency set forth in NAC 455C.450; and

3. The statement required by NAC 455C.474.

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4. A certificate of competency issued pursuant to this section expires at midnight one year after the date of issuance.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.466 Certificate of competency: Renewal. [Effective on the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110) To renew a certificate of competency, a special inspector must, ~~[on or before September 1]~~ *prior to expiration*, submit to the Mechanical Compliance Section:

1. An application on a form prescribed by the Mechanical Compliance Section; and
2. The fee for the renewal of a certificate of competency set forth in NAC 455C.450.

3. A certificate of competency issued pursuant to this section expires at midnight one year after the date of issuance.

(Added to NAC by Div. of Industrial Relations by R101-02, 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020, eff. upon the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings)

NAC 455C.468 Work card: Application; issuance; expiration. [Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110)

1. An applicant for a work card must submit to the Mechanical Compliance Section:
(a) A letter certifying that the applicant is currently employed by or under contract with a licensed elevator contractor;

(b) The fee for issuance of a work card set forth in NAC 455C.450; and

(c) The statement required by NAC 455C.474.

2. A work card issued pursuant to this section expires at midnight ~~[on September 1 next following]~~ *one year after* the date of issuance, unless the work card is renewed.

3. If an applicant satisfies the requirements set forth in this section, the Mechanical Compliance Section shall issue a work card to the applicant.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.468 Work card: Application; issuance; expiration. [Effective on the date of the repeal of the federal law requiring each state to establish procedures for withholding,

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suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110)

1. An applicant for a work card must submit to the Mechanical Compliance Section:

(a) A letter certifying that the applicant is currently employed by or under contract with a licensed elevator contractor; and

(b) The fee for issuance of a work card set forth in NAC 455C.450.

2. A work card issued pursuant to this section expires at midnight ~~on September 1 next following]~~ *one year after* the date of issuance, unless the work card is renewed.

3. If an applicant satisfies the requirements set forth in this section, the Mechanical Compliance Section shall issue a work card to the applicant.

(Added to NAC by Div. of Industrial Relations by R101-02, 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020, eff. upon the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings)

NAC 455C.470 Work card: Renewal. [Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110) To renew a work card, an elevator mechanic apprentice or elevator mechanic helper must, ~~on or before September 1]~~ *prior to expiration* , submit to the Mechanical Compliance Section:

1. A letter certifying that he or she is currently employed by or under contract with a licensed elevator contractor;

2. The fee for the renewal of a work card set forth in NAC 455C.450; and

3. The statement required by NAC 455C.474.

4. A work card issued pursuant to this section expires at midnight one year after the date of issuance.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.470 Work card: Renewal. [Effective on the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110) To renew a work card, an elevator mechanic apprentice or elevator mechanic helper must, ~~on or before September 1]~~ *prior to expiration* , submit to the Mechanical Compliance Section:

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1. A letter certifying that he or she is currently employed by or under contract with a licensed elevator contractor; and
2. The fee for the renewal of a work card set forth in NAC 455C.450.
3. *A work card issued pursuant to this section expires at midnight one year after the date of issuance.*

(Added to NAC by Div. of Industrial Relations by R101-02, 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020, eff. upon the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings)

NAC 455C.472 Applications: Inclusion of social security number. [Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110) An application for the issuance of a certificate of competency or work card must include the social security number of the applicant.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.474 Payment of child support: Required statement; grounds for denial of certificate, certificate of competency or work card; duty of Mechanical Compliance Section. [Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110)

1. An applicant for the issuance or renewal of a certificate, certificate of competency or work card must submit to the Mechanical Compliance Section the statement prescribed by the Division of Welfare and Supportive Services of the Department of Health and Human Services pursuant to NRS 425.520. The statement must be completed and signed by the applicant.

2. The Mechanical Compliance Section shall include the statement required pursuant to subsection 1 in:

(a) The application or any other forms that must be submitted for the issuance or renewal of the certificate, certificate of competency or work card; or

(b) A separate form prescribed by the Mechanical Compliance Section.

3. A certificate, certificate of competency or work card may not be issued or renewed by the Mechanical Compliance Section if the applicant:

(a) Fails to submit the statement required pursuant to subsection 1; or

(b) Indicates on the statement submitted pursuant to subsection 1 that the applicant is subject to a court order for the support of a child and is not in compliance with the order or a plan approved

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by the district attorney or other public agency enforcing the order for the repayment of the amount owed pursuant to the order.

4. If an applicant indicates on the statement submitted pursuant to subsection 1 that he or she is subject to a court order for the support of a child and is not in compliance with the order or a plan approved by the district attorney or other public agency enforcing the order for the repayment of the amount owed pursuant to the order, the Mechanical Compliance Section shall advise the applicant to contact the district attorney or other public agency enforcing the order to determine the actions that the applicant may take to satisfy the arrearage.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.476 Suspension of certificate, certificate of competency or work card for failure to pay child support or comply with certain subpoenas or warrants; reinstatement. [Effective until the date of the repeal of the federal law requiring each state to establish procedures for withholding, suspending and restricting the professional, occupational and recreational licenses for child support arrearages and for noncompliance with certain processes relating to paternity or child support proceedings.] (NRS 455C.110)

1. If the Mechanical Compliance Section receives a copy of a court order issued pursuant to NRS 425.540 that provides for the suspension of all professional, occupational and recreational licenses, certificates and permits issued to the holder of a certificate, the Mechanical Compliance Section shall deem the certificate, certificate of competency or work card issued to that person to be suspended at the end of the 30th day after the date on which the court order was issued unless the Mechanical Compliance Section receives a letter issued to the holder of the certificate, certificate of competency or work card by the district attorney or other public agency pursuant to NRS 425.550 stating that the holder of the certificate, certificate of competency or work card has complied with the subpoena or warrant or has satisfied the arrearage pursuant to NRS 425.560.

2. The Mechanical Compliance Section shall reinstate a certificate, certificate of competency or work card that has been suspended by a district court pursuant to NRS 425.540 if the Mechanical Compliance Section receives a letter issued by the district attorney or other public agency pursuant to NRS 425.550 to the person whose certificate, certificate of competency or work card was suspended stating that the person whose certificate, certificate of competency or work card was suspended has complied with the subpoena or warrant or has satisfied the arrearage pursuant to NRS 425.560.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

Certification of Authorized Inspection Agencies

NAC 455C.480 Certificate of accreditation: Application and prerequisites; issuance; expiration. (NRS 455C.110)

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1. On or after July 1, 2015, a person shall not employ or be affiliated with a special inspector to inspect elevators in this State unless the person holds a certificate of accreditation as an authorized inspection agency issued by the Mechanical Compliance Section.

2. An applicant for a certificate of accreditation as an authorized inspection agency must:

(a) Submit to the Mechanical Compliance Section:

(1) An application on a form prescribed by the Mechanical Compliance Section; and

(2) The fee for the issuance of a certificate of accreditation set forth in NAC 455C.450;

(b) Provide proof that the applicant maintains adequate insurance coverage against liabilities resulting from claims incurred in the course of operation, including, without limitation:

(1) Workers' compensation insurance pursuant to chapters 616A to 617, inclusive, of NRS for its employees;

(2) Insurance for professional errors and omissions covering its inspection activities in this State in an amount of not less than \$4,000,000; and

(3) Commercial general liability insurance in an amount of not less than \$4,000,000; and

(c) Certify that the applicant maintains a library of each publication adopted by reference pursuant to NAC 455C.500 and copies of all Mechanical Compliance Section inspector checklists.

3. The application submitted pursuant to subsection 2 must include, without limitation:

(a) The physical address of the location where inspection records will be maintained;

(b) The state business license number assigned by the Secretary of State upon compliance with the provisions of chapter 76 of NRS;

(c) The name, business address and contact information for the person or persons designated to be the primary contact for the Mechanical Compliance Section; and

(d) The name of each special inspector who will be employed by the applicant to conduct elevator inspections.

4. An authorized inspection agency shall not have common ownership with a licensed elevator contractor or an elevator maintenance company.

5. If an applicant satisfies the requirements set forth in this section, the Mechanical Compliance Section shall issue a certificate of accreditation as an authorized inspection agency to the applicant.

6. A certificate of accreditation as an authorized inspection agency issued pursuant to this section expires 3 years after the date of issuance unless the certificate is renewed.

(Added to NAC by Div. of Industrial Relations by R077-14, eff. 1-16-2015)

NAC 455C.484 Certificate of accreditation: Renewal. (NRS 455C.110) To renew a certificate of accreditation as an authorized inspection agency, an authorized inspection agency must, not more than 45 calendar days before the expiration of the certificate, submit to the Mechanical Compliance Section:

1. A renewal application on a form prescribed by the Mechanical Compliance Section;

2. The fee for the renewal of a certificate of accreditation set forth in NAC 455C.450; and

3. All the information required to be submitted for the issuance of a certificate of accreditation pursuant to NAC 455C.480.

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(Added to NAC by Div. of Industrial Relations by R077-14, eff. 1-16-2015)

NAC 455C.488 Certificate of accreditation: Additional prerequisites to apply for issuance or renewal. (NRS 455C.110) Before applying for the issuance or renewal of a certificate of accreditation as an authorized inspection agency, an authorized inspection agency shall develop and implement:

1. An operations manual setting forth specific instructions that each special inspector employed by or affiliated with the authorized inspection agency must follow while completing each inspection;
2. A written policy for the continuing education of special inspectors, including, without limitation, a system for tracking the continuing education completed by each special inspector employed by or affiliated with the authorized inspection agency;
3. A written program for quality assurance that describes the authorized inspection agency's organization, programs, document routing and control procedures, recordkeeping and corrective action for any failure to comply with any element of the program for quality assurance; and
4. A program for internal audits which documents compliance with the operations manual, policy for the continuing education of special inspectors and program for quality assurance.

(Added to NAC by Div. of Industrial Relations by R077-14, 1-16-2015, eff. 7-1-2016)

NAC 455C.492 Mechanical Compliance Section authorized to request authorized inspection agency to provide certain information for audit purposes; authorized inspection agency required to provide certain information upon request; penalties for certain violations by authorized inspection agency or special inspector; appeal. (NRS 455C.110)

1. The Mechanical Compliance Section may request that an authorized inspection agency provide the following information for audit purposes:
 - (a) Proof of the availability of code books and Mechanical Compliance Section checklists for each special inspector employed by or affiliated with the authorized inspection agency;
 - (b) Forms used for inspection checklists;
 - (c) Forms for reporting notices of violations;
 - (d) A log of activity for each special inspector; and
 - (e) Proof that the authorized inspection agency maintains the insurance required by NAC 455C.480.
2. An authorized inspection agency shall, within 5 business days after receipt of a request pursuant to subsection 1, provide the requested documents to the Mechanical Compliance Section in writing or, at the discretion of the Mechanical Compliance Section, by allowing immediate access to such documents to the Mechanical Compliance Section at the office of the authorized inspection agency.
3. If an authorized inspection agency or a special inspector violates any provision of this chapter, chapter 455C of NRS or any publication adopted by reference pursuant to NAC 455C.500, the Mechanical Compliance Section shall impose a penalty for violations occurring within the 3-year period immediately preceding the most recent offense according to the following schedule:

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- (a) For the first offense, issue a letter of warning describing the violation.
 - (b) For the second offense, suspend the certificate of accreditation issued to the authorized inspection agency or the certificate of competency issued to the special inspector for 30 days.
 - (c) For the third offense, suspend the certificate of accreditation issued to the authorized inspection agency or the certificate of competency issued to the special inspector for 180 days.
 - (d) For the fourth or subsequent offense, revoke the certificate of accreditation issued to the authorized inspection agency or the certificate of competency issued to the special inspector.
4. An appeal of any action taken by the Mechanical Compliance Section pursuant to subsection 3 must be made in accordance with the provisions of NAC 455C.620 and 455C.622.
(Added to NAC by Div. of Industrial Relations by R077-14, eff. 1-16-2015)

Requirements, Standards and Procedures

Sec. 5. *An elevator machine room, hoistway, pit, control space, or any related area may only be accessed by authorized personnel who carry a certificate as an elevator mechanic, a work card as an elevator mechanic apprentice, a work card as an elevator mechanic helper, a certificate of competency as a special inspector, or an inspector and any other person who has reason to be in such area if accompanied by authorized personnel.* (Added to NAC by Div. of Industrial Relations by Emergency Regulation, Sec. 5, eff. 6-16-2020)

NAC 455C.500 Adoption by reference of certain codes, manuals and standards. (NRS 455C.110)

1. The following codes, manuals and standards are hereby adopted by reference by the Division and may be obtained for the price listed:

(a) *Safety Code for Elevators and Escalators*, A17.1, ~~[2013]~~ **2019** edition and all appendices, published by the American Society of Mechanical Engineers, for the price of \$ ~~[335]~~ **390**.

(b) ~~[2013]~~ **2016** *Handbook on Safety Code for Elevators and Escalators*, A17.1/CSA B44, published by the American Society of Mechanical Engineers, for the price of \$ ~~[240]~~ **245**.

(c) *Guide for Inspection of Elevators, Escalators, and Moving Walks*, A17.2, ~~[2012]~~ **2017** edition and all appendices, published by the American Society of Mechanical Engineers, for the price of \$ ~~[180]~~ **195**.

(d) *Safety Requirements for Personnel Hoists on Construction and Demolition Sites*, A10.4, ~~[2007]~~ **2016** edition, published by the American National Standards Institute, for the price of \$ ~~[77]~~ **110**.

(e) *Safety Standard for Belt Manlifts*, A90.1, ~~[2009]~~ **2015** edition, published by the American Society of Mechanical Engineers, for the price of \$59.

(f) *Safety Code for Existing Elevators and Escalators*, A17.3, ~~[2011]~~ **2017** edition and all appendices, published by the American Society of Mechanical Engineers, for the price of \$ ~~[130]~~ **195**.

(g) *Accessible and Usable Buildings and Facilities*, A117.1, sections 4.07 and 4.08, ~~[2009]~~ **2017** edition, published by the American National Standards Institute, for the price of \$ ~~[46]~~ **48**.

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(h) *Guide for Emergency Personnel*, A17.4, ~~[1999]~~ **2015** edition, published by the American Society of Mechanical Engineers, for the price of \$35.

(i) *Safety Standard for Platform Lifts and Stairway Chairlifts*, A18.1, ~~[2011]~~ **2017** edition, published by the American Society of Mechanical Engineers, for the price of \$ ~~[90]~~ **98**.

(j) *Standard for the Qualification of Elevator Inspectors*, QEI-1, ~~[2013]~~ **2018** edition, published by the American Society of Mechanical Engineers, for the price of \$ ~~[70]~~ **74**.

(k) *Elevator and Escalator Electrical Equipment*, A17.5, ~~[2011]~~ **2019** edition, published by the American Society of Mechanical Engineers, for the price of \$ ~~[130]~~ **145**.

(l) *Standard for Elevator Suspension, Compensation, and Governor Systems*, A17.6, ~~[2010]~~ **2017** edition, published by the American Society of Mechanical Engineers, for the price of \$90.

(m) *Performance-Based Safety Code for Elevators and Escalators*, A17.7, 2007 edition, published by the American Society of Mechanical Engineers, for the price of \$155.

(n) The edition most recently adopted in NAC 477.281 of the *International Building Code*, published by the International Code Council.

(o) Safety Standard for Conveyors and Related Equipment, B20.1, sections 6.17, 6.18, 6.21, and Mandatory Appendix I, 2018 edition, published by the American Society of Mechanical Engineers, for the price of \$58.

2. The codes, manuals and standards set forth in subsection 1 which are published by the American Society of Mechanical Engineers may be obtained from the ASME ~~[International, 22 Law Drive, P.O. Box 2900, Fairfield, New Jersey 07007-2900]~~ **P.O. Box 36037, Newark, NJ 07188-6037**.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R160-08, 12-17-2008; R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

If any publication adopted by reference in subsections 1(a) through 1(m), inclusive, and 1(o) of NAC 455C.500, as amended in section 63 of this regulation, is revised, the Division will review the revision to determine its suitability for this State. If the Division determines that the revision is not suitable for this State, the Division will hold a public hearing to review its determination within 6 months after the date of publication of the revision and give notice of that hearing. If, after the hearing, the Division does not revise its determination, the Division will give notice within 30 days after the hearing that the revision is not suitable for this State. If the Division does not give such notice, the revision becomes part of the publication adopted by reference in NAC 455C.500. (Added to NAC by Div. of Industrial Relations by Emergency Regulation, Sec. 3, eff. 6-16-2020)

NAC 455C.502 Compliance with publications adopted by reference. (NRS 455C.110) Except as otherwise provided in NAC 455C.446, an elevator in this State must be designed, constructed, installed, operated, inspected, tested, maintained, altered and repaired in a manner that satisfies the requirements set forth in the publications adopted by reference in NAC 455C.500.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

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NAC 455C.503 Elevator with 55 feet or less of travel not required to have Phase II Emergency In-Car Operation installed; exception. (NRS 455C.110)

1. An elevator with 55 feet or less of travel is not required to have Phase II Emergency In-Car Operation installed unless installation is required by local ordinance. If Phase II Emergency In-Car Operation is installed, it must be maintained and tested monthly.

2. As used in this section, “Phase II Emergency In-Car Operation” has the meaning ascribed to it in section 1.3 of the *Safety Code for Elevators and Escalators*, A17.1, as adopted by reference in NAC 455C.500.

(Added to NAC by Div. of Industrial Relations by R077-14, eff. 1-16-2015)

NAC 455C.504 Responsibilities of licensed elevator contractor and owner or owner’s agent; written maintenance control program required to be filed with Mechanical Compliance Section and kept at certain locations; availability and retention of maintenance records. (NRS 455C.110)

1. The licensed elevator contractor is responsible for ensuring that the operation, maintenance and testing of the elevator comply with the requirements of NAC 455C.400 to 455C.530, inclusive, until an initial operating permit has been issued.

2. The owner of an elevator is responsible for ensuring the safe operation and proper maintenance of the elevator after the initial operating permit has been issued.

3. The owner of an elevator is responsible for ensuring that the maintenance control program and written maintenance records required by the *Safety Code for Elevators and Escalators*, A17.1, as adopted by reference in NAC 455C.500, are available at the location of the elevator for review by elevator personnel, inspectors and special inspectors at the time of inspection. The maintenance control program and all maintenance records for each piece of equipment are the property of the owner of the elevator.

4. The owner of an elevator shall keep the written maintenance control program required by the *Safety Code for Elevators and Escalators*, A17.1, as adopted by reference in NAC 455C.500, in the building or structure where the elevator is located or at a central location in a complex of buildings which is owned or operated by one entity.

5. The owner of an elevator or his or her agent must file a copy of the maintenance control program for the elevator with the Mechanical Compliance Section before an operating permit may be issued pursuant to NAC 455C.510.

6. The owner of an elevator shall keep the maintenance records required by the *Safety Code for Elevators and Escalators*, A17.1, as adopted by reference in NAC 455C.500, in the building or structure where the elevator is located or at a central location in a complex of buildings which is owned or operated by one entity. The maintenance records may be kept electronically and must be made immediately available upon request to elevator personnel, inspectors or special inspectors. If the maintenance records are kept electronically, the maintenance records must be complete and current and allow for appropriate entries to be made by an inspector or special inspector. The owner of an elevator shall retain the maintenance records for at least 5 years.

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(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.506 Permit for construction, installation or alteration; administrative fine; performance of work by or under supervision of certified elevator mechanic. (NRS 455C.110)

1. Except as otherwise provided in subsection 3, a licensed elevator contractor must obtain a permit from the Mechanical Compliance Section for construction, installation or alteration of an elevator before such work is begun. Only one active permit may exist at any time for each elevator.

2. A contractor who is required to obtain a permit pursuant to subsection 1 must submit to the Mechanical Compliance Section not less than 10 business days before commencing the construction, installation or alteration a request for the permit that is accompanied by plans, drawings, a maintenance control program and specifications in the form prescribed by the Mechanical Compliance Section. Except as otherwise provided in subsection 3, if the plans, drawings and specifications indicate the construction, installation or alteration will comply with the provisions of NAC 455C.400 to 455C.530, inclusive, *and the contractor does not owe any outstanding debt to the Mechanical Compliance Section*, the Mechanical Compliance Section shall issue a permit to the contractor.

3. A permit is not required for repairs and replacement that are necessary for the maintenance of an elevator if parts of equivalent materials, strength and design as that used in the original construction are used.

4. *A permit may not be required for the installation of cosmetic wraps on elevator hoistway doors, car doors, and on car interior panels provided the installation shall not exceed 90 days; do not obscure any required markings, controls, lights, key switches or access points; do not cover car operating panels; use materials that comply with adopted codes; and are not installed on escalators.*

5. An elevator for which a permit for construction, installation or alteration is required must not be constructed, installed or altered unless a permit has been issued. If any such work is started before the permit is obtained, the work must be suspended until a permit is issued and the Mechanical Compliance Section may impose an administrative fine of not more than \$5,000 on the licensed elevator contractor or, if a licensed elevator contractor is not performing the work, on the owner of the elevator. Each 30-calendar-day period during which a violation of this section continues constitutes a separate violation.

~~{5.}~~ 6. Except as otherwise provided in subsection 3 of NAC 455C.510, an operating permit is ~~{void}~~ *suspended* upon the issuance of a permit for ~~{construction, installation or}~~ alteration of an elevator *until the alteration is complete and a satisfactory inspection has been performed by the Mechanical Compliance Section*. A permit for construction, installation or alteration of an elevator does not authorize the operation of an elevator for which an operating permit is required.

~~{6.}~~ 7. Except as otherwise provided in subsection 7, as required by NRS 455C.160, a person who constructs, installs, alters or repairs a new elevator or existing installation must be certified as an elevator mechanic pursuant to NRS 455C.110 and NAC 455C.460.

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~~[7.]~~ **8.** An elevator mechanic may be assisted in the construction, installation, alteration or repair of a new elevator or existing installation by an elevator mechanic apprentice or an elevator mechanic helper if the work performed by the elevator mechanic apprentice or elevator mechanic helper is performed under the supervision of the elevator mechanic.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.508 Installation, relocation or alteration: Notification of Mechanical Compliance Section; testing and inspection of new, altered or relocated elevators. (NRS 455C.110)

1. A licensed elevator contractor who installs, relocates or alters an elevator shall notify the Mechanical Compliance Section, in writing, at least 3 business days before completion of the work, and an elevator mechanic shall test the new, moved or altered portions of the elevator as required by NAC 455C.400 to 455C.530, inclusive.

2. All new, altered or relocated elevators must be inspected for compliance with the requirements of NAC 455C.400 to 455C.530, inclusive, by an inspector. Except as otherwise provided in NAC 455C.512, the inspector shall witness the tests required by NAC 455C.400 to 455C.530, inclusive.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.510 Operating permits: Requirements for issuance; location; limited permit; denial, suspension or revocation; operation before issuance. (NRS 455C.110)

1. The Mechanical Compliance Section shall issue an operating permit to the owner of an elevator within the period set forth in subsection 2 if the written report of inspection indicates the elevator is in compliance with NAC 455C.400 to 455C.530, inclusive. The operating permit must set forth the number assigned by the Mechanical Compliance Section and the serial number assigned by the manufacturer of the elevator. The operating permit must be ~~[kept at the same location as the elevator]~~ *retained on the premises where the elevator is installed*. *The owner shall post information in each elevator regarding the operating permit when required by the Mechanical Compliance Section.*

2. The Mechanical Compliance Section shall issue an operating permit within:

- (a) Thirty calendar days for existing installations; and
- (b) Fifteen calendar days for new elevators,

↪ after the date of the inspection, unless the time is extended by the Mechanical Compliance Section. An elevator for which a permit is required must not be operated unless the operating permit has been issued.

3. The Mechanical Compliance Section may issue a limited operating permit to allow an elevator to be used during construction.

4. The Mechanical Compliance Section shall not issue an operating permit for a period that exceeds:

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- (a) One year for elevators, dumbwaiters, ~~[and]~~ platform lifts *and material lifts*.
- (b) Six months for escalators or moving walks.
- (c) The period designated by the Mechanical Compliance Section for related equipment.
- (d) Ninety calendar days if the operating permit is a limited operating permit issued to allow an elevator to be used during construction.

5. If the written report of an inspection of an elevator indicates a violation of NAC 455C.400 to 455C.530, inclusive, or of the detailed plans and specifications approved by the Mechanical Compliance Section pursuant to NAC 455C.506, the Mechanical Compliance Section shall give notice to the owner of the elevator and may give notice to any other appropriate person of the changes necessary for compliance. If the owner makes the changes required by the Mechanical Compliance Section, the Mechanical Compliance Section shall issue an operating permit to the owner within:

- (a) Thirty calendar days for existing installations; and
 - (b) Fifteen calendar days for new elevators,
- ↪ after the date the changes were completed, unless the time is extended by the Mechanical Compliance Section.

6. If the written report of an inspection of an elevator indicates that the elevator is unsafe and that its continued operation may be dangerous, the Mechanical Compliance Section shall refuse to issue, or shall suspend or revoke, the operating permit and shall require the owner of the elevator to ensure that the elevator will not be used until the elevator has been made safe and is in compliance with the requirements of NAC 455C.400 to 455C.530, inclusive.

~~{7.—A written report of inspection shall be deemed to be an operating permit and authorizes the operation of an elevator until the operating permit is issued, if:~~

- ~~—(a) The report of inspection recommends the issuance of an operating permit; and~~
- ~~—(b) The elevator complies with the requirements of NAC 455C.400 to 455C.530, inclusive.]~~

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

REVISER'S NOTE.

The regulation of the Division of Industrial Relations of the Department of Business and Industry filed with the Secretary of State on December 15, 2004 (LCB File No. R101-02), the source of this section, contains the following provision not included in NAC:

“An owner of a boiler, elevator or pressure vessel who, on December 15, 2004, holds an operating permit for a boiler, pressure vessel or elevator issued pursuant to chapter 618 of NAC, is not required to obtain an operating permit for the boiler, elevator or pressure vessel until the operating permit issued pursuant to chapter 618 of NAC expires.”

NAC 455C.512 Periodic tests: Notification of Mechanical Compliance Section; performance; witness of test by special inspector. (NRS 455C.110)

1. A licensed elevator contractor who performs periodic tests on an elevator shall notify the Mechanical Compliance Section, in writing, at least 3 business days before commencing any periodic tests on the elevator.

2. Except as otherwise provided in subsection 3, any periodic tests performed on an elevator must comply with the requirements of NAC 455C.400 to 455C.530, inclusive.

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3. ~~[A]~~ *An inspector or* special inspector must witness any periodic tests performed on an elevator.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.514 Escalators and moving walks: Tests relating to step and skirt performance index. (NRS 455C.110)

1. For an escalator or moving walk for which the application for installing or relocating the escalator or moving walk is filed with the Mechanical Compliance Section on or after December 15, 2004:

(a) As required by the *Safety Code for Elevators and Escalators*, as adopted by reference in NAC 455C.500, the tests relating to the step and skirt performance index as set forth in rule 8.11.4.2.19 of that code must be performed at the time of manufacture or installation of the escalator or moving walk; and

(b) Subsequent tests relating to the step and skirt performance index as set forth in rule 8.11.4.2.19 of the *Safety Code for Elevators and Escalators*, as adopted by reference in NAC 455C.500, must be performed on those escalators or moving walks when an inspector or special inspector requires the tests to be performed.

2. For escalators or moving walks that are existing installations, tests relating to the step and skirt performance index as set forth in rule 8.11.4.2.19 of the *Safety Code for Elevators and Escalators*, as adopted by reference in NAC 455C.500, must be performed when an inspector or special inspector requires the tests to be performed.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.516 Inspections: Initial and periodic; private residence elevator; initial inspection for new operating permit after certain emergency orders. (NRS 455C.110)

1. An elevator located in this State must be inspected in accordance with the codes, manuals and standards adopted by reference in NAC 455C.500:

(a) Upon construction, installation or alteration by an inspector and annually thereafter by ~~[a]~~ *an inspector or* special inspector for a:

- (1) Passenger elevator;
- (2) Freight elevator;
- (3) Dumbwaiter; or
- (4) Platform lift, other than a platform lift installed in a private residence.

(b) Upon construction, installation or alteration by an inspector and every 6 months thereafter by ~~[a]~~ *an inspector or* special inspector for an escalator, moving walk or manlift.

(c) Upon construction, installation or alteration by an inspector and every 3 months thereafter by an inspector for an elevator or personnel hoist that is used during construction.

(d) Upon construction, installation or alteration by an inspector, and the inspection must include a preliminary and a final inspection for a private residence elevator. *All cab materials in*

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their end-use configuration shall conform to the following requirements, based on tests conducted in accordance with the requirements of ASTM E84, ANSI/UL 723 or CAN/ULC-S102A, indicating:

- (1) A flame spread rating of 0 to 75;*
- (2) A smoke development of 0 to 450; and*
- (3) Floor covering, underlayment and its adhesive shall have a critical radiant flux of not less than 0.45 W/cm², as measured by ASTM E648.*

A private residence elevator must be inspected by ~~[a]~~ *an inspector or* special inspector before any transfer of title for a property on which a private residence elevator is located to a new owner. Any subsequent inspection of a private residence elevator must be performed by ~~[a]~~ *an inspector or* special inspector.

2. The initial inspection for a new operating permit after an emergency order has been issued pursuant to NAC 455C.530 must be conducted by an inspector.

3. ~~[Except as otherwise provided in this subsection, all other periodic inspections in this State must be conducted by a special inspector.]~~ If a building is located more than ~~[100]~~ *25* miles from an office of the Mechanical Compliance Section and the owner of the building provides written documentation that a special inspector has declined to conduct the inspection, the owner may submit to the Mechanical Compliance Section a written request for an inspector to perform the inspection.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.518 Inspections to determine safety of equipment. (NRS 455C.110)

1. In addition to those inspections of an elevator that are required to be made pursuant to NAC 455C.516, an inspector or a special inspector may require an inspection to be made of any elevator if, in his or her opinion, an inspection is necessary to determine the safety of the elevator. If an inspector or special inspector determines that the operating permit for an elevator should be suspended, modified or revoked pursuant to NAC 455C.530, 455C.616, 455C.624 or 455C.632 due to an unsafe condition, he or she shall notify the Mechanical Compliance Section immediately.

2. All inspection duties set forth in the *Safety Code for Elevators and Escalators*, A17.1, the *Guide for Inspection of Elevators, Escalators, and Moving Walks*, A17.2, and the *Standard for the Qualification of Elevator Inspectors*, QEI-1, as adopted by reference in NAC 455C.500, must be performed by an inspector or a special inspector. An inspector or special inspector shall only perform the inspection duties described by those publications, including, without limitation, as applicable, the observation of periodic tests performed by an elevator mechanic and the inspection of the machine room, elevator car top, hoistway, inside of the cab of an elevator and elevator pit area.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

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NAC 455C.519 Inspections: List of elevators and related equipment which require inspection; qualifications of special inspector; duties and responsibilities of special inspector; equipment found to pose imminent danger; follow-up inspection. (NRS 455C.110)

1. The Mechanical Compliance Section shall establish and maintain a listing of all elevators and related equipment in this State which require inspection.

2. A special inspector is responsible for billing and collecting the payment for any inspection service he or she performs *from the owner of the object* .

3. Before performing any duty as a special inspector, a special inspector must:

(a) Receive training from the Mechanical Compliance Section on the requirements of this chapter and the policies and procedures of the Mechanical Compliance Section relating to the inspection of elevators; and

(b) Demonstrate competency in the duties of a special inspector through an evaluation performed by the Mechanical Compliance Section.

4. A special inspector shall comply with all policies and procedures of the Mechanical Compliance Section for conducting inspections. A special inspector who fails to comply with this subsection may have his or her certificate of competency suspended or revoked pursuant to NAC 455C.492 or 455C.626.

5. A special inspector shall immediately notify the Mechanical Compliance Section of unsafe equipment in a condition which poses an imminent danger. A condition will be considered to pose an imminent danger if the existing condition of the equipment without being corrected could reasonably be expected to result in death or serious physical harm to a user of the equipment or a member of the general public. The Mechanical Compliance Section shall consider whether the equipment which is the subject of such a notification requires an emergency order to be issued pursuant to NAC 455C.530 and, if so, issue such an emergency order.

6. After a special inspector performs an inspection, the Mechanical Compliance Section may perform a follow-up inspection to ensure the quality and consistency of the inspection without prior notification or cost to the owner of the equipment that was inspected.

(Added to NAC by Div. of Industrial Relations by R077-14, eff. 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.520 Restrictions on authority of special inspector to inspect elevator. (NRS 455C.110) A special inspector who inspects an elevator as required by NAC 455C.400 to 455C.530, inclusive, must not be employed by the contractor who was required to obtain a permit for the elevator in accordance with NAC 455C.506, be employed by the licensed elevator contractor who performed the work to be inspected, or be the same person as the elevator mechanic who performed, or the elevator mechanic apprentice or the elevator mechanic helper who assisted in, the construction, installation, maintenance, relocation, alteration or repair of the elevator or the replacement of a device, component or subsystem of the elevator that necessitated the inspection.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

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NAC 455C.521 Persons prohibited from inspecting elevator. (NRS 455C.110) A person shall not inspect an elevator in this State or perform any other duties for which a certificate of competency is required unless the person is:

1. An inspector employed by the Mechanical Compliance Section; or
2. A special inspector employed by or affiliated with an authorized inspection agency.

~~{3. An elevator machine room, hoistway, pit control space, or any related area may only be accessed by authorized personnel who carry a certificate as an elevator mechanic, a work card as an elevator mechanic apprentice, a work card as an elevator mechanic helper, a certificate of competency as a special inspector, or an inspector.}~~

(Added to NAC by Div. of Industrial Relations by R077-14, 1-16-2015, eff. 7-1-2015; Emergency regulation, eff. 6-16-2020)

NAC 455C.522 Written reports of inspections and periodic tests; performance of periodic tests by elevator mechanic; notification of special inspector and Mechanical Compliance Section by licensed elevator contractor; witnessing of tests. (NRS 455C.110)

1. A written report of every required inspection or periodic test must be filed at the Mechanical Compliance Section office which maintains the record for the object which was inspected or tested by the inspector or special inspector conducting the inspection or witnessing the periodic test, on a form prescribed by the Mechanical Compliance Section, within 10 business days after the inspection or periodic test has been completed. The report must describe the nature of any violation including a reference to any provision of NAC 455C.400 to 455C.530, inclusive, or set forth in a publication adopted by reference in NAC 455C.500 that was violated.

2. Each periodic test required by NAC 455C.400 to 455C.530, inclusive, must be performed by a person who is certified as an elevator mechanic pursuant to NAC 455C.460. The licensed elevator contractor who will perform a periodic test required by NAC 455C.400 to 455C.530, inclusive, shall notify the special inspector retained by the owner of the building and the Mechanical Compliance Section at least 3 business days before the date that the test will take place of the date, time and location that the test will take place. A special inspector or the Mechanical Compliance Section, if the Mechanical Compliance Section determines it is appropriate, shall witness each test, including, without limitation, the category 1, 3 and 5 periodic tests required by the *Safety Code for Elevators and Escalators*, A17.1, as adopted by reference in NAC 455C.500.

3. A special inspector who fails to file a written report of an inspection or periodic test within 10 business days after the date that the inspection or periodic test was completed shall pay a late filing fee of \$50 to the Mechanical Compliance Section.

4. The Mechanical Compliance Section will reject a written report of an inspection or periodic test if it is submitted more than 20 business days after the completion of the inspection or periodic test. The results of an inspection or periodic test rejected pursuant to this subsection shall be deemed invalid and the inspection or periodic test must be performed again.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

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NAC 455C.523 Written log of incidents required in each machine room; required information; accessibility. (NRS 455C.110) In addition to any requirement for written records contained in the *Safety Code for Elevators and Escalators*, A17.1, as adopted by reference in NAC 455C.500, each machine room shall contain a written log where each elevator mechanic must enter information concerning each incident to which he or she responds. The information entered by the elevator mechanic must include, without limitation, a description of the reported trouble, date, time and any corrective action taken. The written log must be maintained in the machine room and immediately accessible to all elevator mechanics.

(Added to NAC by Div. of Industrial Relations by R077-14, eff. 1-16-2015)

NAC 455C.524 Numbering of equipment. (NRS 455C.110) All new elevators and existing installations must be assigned a jurisdictional number by the Mechanical Compliance Section. The number must be painted on or attached *or applied via durable adhesive label* to the crosshead and machine controller of the elevator car or to the balustrade of an escalator or moving walk and its controller, in plain view. The number must be shown on all required permits. The format of the number must consist of the letters “NV” followed by four digits at least 5/16 of an inch in height, followed by the last two digits of the year in which the elevator, escalator, moving walk or related equipment was installed. ~~[If the equipment has been altered, an alteration designation must follow the year in the format of an “A” followed by the number of the alteration.]~~

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.526 Accidents: Notification of Mechanical Compliance Section; investigation; inspection and report; subsequent use or removal of equipment. (NRS 455C.110)

1. Before an initial operating permit has been issued for an elevator, the licensed elevator contractor who installed, relocated or altered the elevator shall ~~[promptly]~~ notify the Mechanical Compliance Section of every accident involving the elevator *within 8 hours in the case of bodily injury, or otherwise by noon the next business day.*

2. After an operating permit has been issued for an elevator, the owner of the elevator or his or her agent shall ~~[promptly]~~ notify the Mechanical Compliance Section of every accident involving the elevator *within 8 hours in the case of bodily injury, or otherwise by noon the next business day.*

3. The elevator mechanic, licensed elevator contractor or owner of the elevator or his or her agent shall provide any assistance required by the Mechanical Compliance Section for the investigation of an accident or for any inspection relating to an accident.

4. The Mechanical Compliance Section shall, as soon as practicable after receiving notification of an accident, make an inspection and keep in its files a complete report of its findings, including a detailed list of all material facts and information available and the cause, as far as it can be determined, for the accident.

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5. If an accident may have been caused by the failure, malfunction or destruction of any part of an elevator, the elevator must be shut down immediately, *must be barricaded* and cannot be restored to service until:

- (a) The Mechanical Compliance Section has been notified;
- (b) The elevator has been made safe;
- (c) The elevator has been inspected by the Mechanical Compliance Section and, if necessary, tested by an elevator mechanic; and
- (d) Any repairs, changes or alterations have been approved by the Mechanical Compliance Section.

6. If an accident involves the failure of an elevator, no part of the elevator may be removed ~~[from the premises]~~ *or disturbed on the elevator car, machine room or hoistway* until the Mechanical Compliance Section authorizes that removal *unless human life is endangered or except to limit further damage*.

7. As used in this section, “accident” means an event resulting from the operation of an elevator that:

- (a) Causes serious bodily injury; ~~[or]~~
- (b) *Causes a person or persons to be evacuated from the elevator; or*
- (c) Requires an alteration, repair or replacement of the elevator.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.528 Violations: Report to responsible person; action by Mechanical Compliance Section; determination and report of whether violation abated. (NRS 455C.110)

1. If, at the time of an inspection or periodic test of any elevator, the inspector or special inspector determines that a violation of a requirement of NAC 455C.400 to 455C.530, inclusive, exists, he or she shall provide a written report to the person responsible for the operation of the elevator pursuant to NAC 455C.504. The report must describe the nature of the violation, including a reference to any provision of NAC 455C.400 to 455C.530, inclusive, or set forth in a publication adopted by reference in NAC 455C.500 that was violated. The inspector or special inspector shall submit a copy of the report to the office of the Mechanical Compliance Section that maintains records for the elevator within 10 business days after the inspection or periodic test was performed. The Mechanical Compliance Section shall:

- (a) Fix a reasonable time to abate the violation *not to exceed 30 days*; and
- (b) Take any action authorized by NAC 455C.616 that it determines is appropriate.

2. An inspector or special inspector who submits a report to the Mechanical Compliance Section pursuant to subsection 1 shall:

(a) Not later than 5 business days after the time fixed to abate the violation, determine whether the violation has been abated;

(b) Record any actions taken to abate the violation which have not been completed or that no action to abate the violation has occurred; and

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(c) Report his or her findings to the office of the Mechanical Compliance Section that maintains records for the elevator within 5 business days after the determination was made.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.530 Emergency order by Chief of Mechanical Compliance Section to restrain certain conditions or practices; effective date of emergency order; contest of order; judicial review; inspection to return elevator to service. (NRS 455C.110)

1. The Chief of the Mechanical ~~[Enforcement]~~ *Compliance* Section or his or her designee may issue an emergency order to restrain any conditions or practices relating to an elevator, *boiler or pressure vessel* which are such that a danger exists which could reasonably be expected to cause death or serious physical harm immediately or before the imminence of the danger can be eliminated through the other enforcement procedures provided by this chapter. An order issued pursuant to this section may require such steps to be taken as are necessary to avoid, correct or remove the imminent danger and may prohibit the employment or presence of any person in locations or under conditions where the imminent danger exists, except persons whose presence is necessary to avoid, correct or remove the imminent danger or to maintain the capacity of a continuous process operation to resume normal operations without a complete cessation of operations or, where a cessation of operations is necessary, to allow the cessation to be accomplished in a safe and orderly manner.

2. An emergency order issued pursuant to subsection 1 becomes effective upon delivery to the owner of the elevator, *boiler or pressure vessel* or his or her agent where the danger exists. If, within 15 calendar days after the effective date of the order, the owner of the elevator, *boiler or pressure vessel* fails to notify the Administrator that the owner wishes to contest the order, the order shall be deemed a final order. If the owner of the elevator, *boiler or pressure vessel* contests the order within 15 days after the effective date of the order and the Administrator does not rescind or modify the order as requested, the owner may petition the district court for relief. Upon the filing of such a petition, the district court may grant injunctive relief or a temporary restraining order pending the outcome of an enforcement proceeding pursuant to this chapter.

3. Whenever and as soon as an inspector or a special inspector concludes that a condition or practice described in subsection 1 exists regarding an elevator, *boiler or pressure vessel*, the inspector or special inspector shall inform the owner of the elevator, *boiler or pressure vessel* or his or her agent and the general public of the danger and that he or she is recommending to the Chief of the Mechanical ~~[Enforcement]~~ *Compliance* Section that an emergency order be issued.

4. If an emergency order has been issued pursuant to subsection 1, an inspection to return the elevator, *boiler or pressure vessel* to service may be performed only by an inspector.

(Added to NAC by Div. of Industrial Relations by R077-14, eff. 1-16-2015; A by Emergency Regulation, eff. 6-16-2020)

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ENFORCEMENT

NAC 455C.600 Definitions. (NRS 455C.110) As used in NAC 455C.600 to 455C.644, inclusive, unless the context otherwise requires, the words and terms defined in NAC 455C.602 to 455C.614, inclusive, have the meanings ascribed to them in those sections.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.602 “Boiler” defined. (NRS 455C.110) “Boiler” has the meaning ascribed to it in NRS 455C.020.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.604 “Certificate” defined. (NRS 455C.110) “Certificate” means a certificate to work as a special inspector as defined in NAC 455C.100 or as an elevator mechanic that is issued by the ~~[Enforcement Section or the]~~ Mechanical Compliance Section pursuant to NAC 455C.130 or 455C.460 ~~[, as applicable]~~.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.606 “Certificate of competency” defined. (NRS 455C.110) “Certificate of competency” means a certificate of competency as a special inspector as defined in NAC 455C.440 that is issued by the Mechanical Compliance Section pursuant to NAC 455C.464.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015)

NAC 455C.608 “Elevator” defined. (NRS 455C.110) “Elevator” has the meaning ascribed to it in NAC 455C.410.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.610 “Operating permit” defined. (NRS 455C.110) “Operating permit” means a permit required by NRS 455C.100 and issued by the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ for the operation of a boiler, elevator or pressure vessel.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.612 “Pressure vessel” defined. (NRS 455C.110) “Pressure vessel” has the meaning ascribed to it in NRS 455C.080.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.614 “Work card” defined. (NRS 455C.110) “Work card” has the meaning ascribed to it in NAC 455C.444.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

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NAC 455C.616 Authority of Mechanical Compliance Section. (NRS 455C.110)

1. The ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ may take any action described in subsection 2 if it determines that:

(a) A holder of an operating permit for a boiler or pressure vessel has violated any of the provisions set forth in NAC 455C.020 to 455C.300, inclusive;

(b) A holder of an operating permit for an elevator has violated any of the provisions set forth in NAC 455C.400 to 455C.530, inclusive;

(c) A holder of a certificate to work as a special inspector has violated any of the provisions set forth in NAC 455C.020 to 455C.300, inclusive, or 512.500 to 512.594, inclusive;

(d) A holder of a certificate to work as an elevator mechanic has violated any of the provisions set forth in NAC 455C.400 to 455C.530, inclusive;

(e) A holder of a certificate of competency or a certificate of accreditation as an authorized inspection agency has violated any of the provisions set forth in NAC 455C.400 to 455C.530, inclusive; ~~[or]~~

(f) A holder of a work card as an elevator mechanic apprentice or elevator mechanic helper has violated any of the provisions set forth in NAC 455C.400 to 455C.530, inclusive ; *or*

(g) A licensed contractor or licensed elevator contractor has violated any of the provisions set forth in NAC 455C.020 to 455C.300, inclusive, or NAC 455C.400 to 455C.530, inclusive .

2. After determining a violation described in subsection 1 has occurred, the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ may:

(a) Issue a notice of violation which requires the holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card to correct the violation;

(b) Impose an administrative fine of not more than \$5,000 and revoke the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card, as applicable; ~~[or]~~

(c) For a second ~~[or subsequent]~~ violation *within a 24 month period* :

(1) Impose an administrative fine of not more than \$10,000;

(2) Revoke the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card, as applicable; and

(3) Require the holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card to fulfill certain training or educational requirements ~~[.]~~ ;

(d) For a third violation within a 24 month period :

(1) Impose an administrative fine of not more than \$25,000;

(2) Revoke the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card, as applicable; and

(3) Require the holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card to fulfill certain training or educational requirements; or

(e) For a fourth or subsequent violation within a 24 month period :

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(1) Impose an administrative fine of not more than \$50,000;

(2) Revoke the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card, as applicable; and

(3) Require the holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card to fulfill certain training or educational requirements.

3. In determining the amount of the administrative fine imposed under section 2 of this regulation, there shall be a reduction based on the number of Nevada employees of the party being assessed. If the party being assessed has 25 or fewer employees, the administrative fine shall be reduced to 20% of the maximum allowable fine; for 26 through 100 employees, reduced to 40%; for 101 through 250 employees, reduced to 70%; and for 250 or more employees, there shall be no reduction.

4. There shall be no reductions in the amount of an administrative fine under section 3 of this regulation if the violation resulted in an accident causing bodily injury or party being assessed has 3 or more similar violations within a 24 month period. In calculating the number of violations within a 24 month period, the Mechanical Compliance Section shall use the date prior violations became final and no longer appealable.

5. Each 30-calendar-day period during which a violation of subsection 1 continues constitutes a separate violation for which the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ may impose an additional administrative fine of not more than \$5,000.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.618 Imposition of administrative fine or penalty: Notice of action. (NRS 455C.110) If the ~~[Enforcement Section or the]~~ Mechanical Compliance Section intends to impose an administrative fine pursuant to NAC 455C.506 or 455C.616, a penalty pursuant to NAC 455C.492 or a penalty pursuant to NAC 455C.616 against the holder of a certificate of accreditation as an authorized inspection agency, the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ shall notify the holder of an operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card of its intention by:

1. Delivering a notice of violation to the *licensed contractor, the* licensed elevator contractor or the holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card by certified mail;

2. Enclosing with the notice of violation:

(a) A statement indicating the legal authority and jurisdiction of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ to issue the administrative fine or penalty; and

(b) A statement of the reasons for the proposed action, including a citation of the applicable regulations supporting the action and the proposed administrative fine or penalty; and

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3. Stating the effective date of the imposition of the proposed administrative fine or penalty upon failure to contest, the procedures for bringing a contest and the procedures for an appeal.
(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.620 Imposition of administrative fine or penalty: Contest of action. (NRS 455C.110)

1. A person who receives a notice of violation pursuant to NAC 455C.618 may appeal the imposition of an administrative fine or penalty by filing a contest with the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ within 30 calendar days after the receipt of the notice of violation.

2. Any contest filed pursuant to this section stays the imposition of the administrative fine or penalty.

3. A contest filed pursuant to this section must be made in writing and describe in particular the matters to be contested. The contest must be accompanied by:

- (a) Any documents applicable to the contest;
- (b) The names of any witnesses who may be called at the hearing; and
- (c) The expected time needed to present the contest.

↪ If any person alleges that the Division does not have the jurisdiction or legal authority to act with regard to the imposition of an administrative fine or penalty, it must be indicated in the contest documents.

4. The Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ *or his designee* shall set a date for hearing within 30 calendar days after the receipt of any written contest. The person filing the contest may request that the hearing be held on an earlier date by submitting a written request to the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~. The request must show that the person filing the contest will suffer a substantial hardship if the date of the hearing is not changed and offer a proposed date for the hearing. The person filing the contest has the burden of establishing a substantial hardship.

5. The Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ *or his designee* shall hear all contests made pursuant to this section and give all parties thereto notice of the hearing and a fair opportunity to participate at the hearing. The Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ *or his designee* shall issue his or her decision within a reasonable time after the conclusion of the hearing.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.622 Imposition of administrative fine or penalty: Appeal to Administrator. (NRS 455C.110)

1. Any decision of the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~, rendered pursuant to NAC 455C.620 may be appealed to the

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Administrator within 30 calendar days after the issuance of the decision. If a decision is not appealed to the Administrator within 30 calendar days, it becomes final.

2. Any review of a decision rendered pursuant to NAC 455C.620 must be summary in nature, limited to the record and without hearing, unless a request for a hearing is granted by the Administrator or his or her designee. If the Administrator or his or her designee grants a request for a hearing, the hearing must be confined to the issues raised and facts asserted during the hearing before the Chief who issued the decision. A hearing may be granted only to consider new evidence.

3. The Administrator or his or her designee may affirm, reverse or modify the decision of the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ or remand the matter to the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ for further consideration.

4. The decision of the Administrator or his or her designee is a final decision for the purposes of judicial review.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.624 Suspension, modification or revocation of operating permit, certificate, certificate of competency, certificate of accreditation or work card: Grounds. (NRS 455C.110)

1. The ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ may suspend, modify or revoke an operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card issued pursuant to this chapter if it finds that for any reason the protection of the general public requires such action.

2. For the purposes of this section, a violation of any provision of this chapter, or if the inspector or special inspector is inspecting a boiler or pressure vessel governed by the provisions of chapter 512 of NRS and chapter 512 of NAC, a violation of any provision set forth in NAC 512.500 to 512.594, inclusive, may constitute a danger to the general public requiring immediate action if so determined by the ~~[Enforcement Section or the]~~ Mechanical Compliance Section.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.626 Suspension, modification or revocation of operating permit, certificate, certificate of competency, certificate of accreditation or work card: Notice of action. (NRS 455C.110) If the ~~[Enforcement Section or the]~~ Mechanical Compliance Section intends to suspend, modify or revoke an operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card issued pursuant to the provisions of this chapter, the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ shall notify the holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card of the suspension, modification or revocation by:

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1. Delivering a notice of suspension, modification or revocation to the holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card by certified mail;

2. Enclosing with the notice of suspension, modification or revocation:

(a) A statement indicating the legal authority and jurisdiction of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ to issue the suspension, modification or revocation; and

(b) A statement of the reasons for the proposed action, including a citation of the applicable regulations supporting the action; and

3. Stating the effective date of the suspension, modification or revocation, the procedures for bringing a contest and the procedures for an appeal.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.628 Suspension, modification or revocation of operating permit, certificate, certificate of competency, certificate of accreditation or work card: Contest of action. (NRS 455C.110)

1. A holder of an operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card may appeal the suspension, modification or revocation of his or her operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card by filing a contest with the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ within 15 calendar days after the effective date of the suspension, modification or revocation.

2. Any contest filed pursuant to this section does not stay the suspension, modification or revocation. A stay may be requested from the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ but will not be granted if the holder of the certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card or the boiler, elevator or pressure vessel for which the operating permit was obtained, constitutes an immediate threat to the health or safety of the general public. The holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card has the burden of showing that there is not a threat to the health or safety of the general public if a stay is granted.

3. A contest filed pursuant to this section must be made in writing and describe in particular the matters to be contested. The contest must be accompanied by:

(a) Any documents applicable to the contest;

(b) The names of any witnesses who may be called at the hearing; and

(c) The expected time needed to present the contest.

↪ If any person alleges that the Division does not have the jurisdiction or legal authority to act with regard to any suspension, modification or revocation, it must be indicated in the contest documents.

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4. The Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ shall set a date for hearing within 30 days after the receipt of any written contest. A holder of an operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card may request that the hearing be held on an earlier date by submitting a written request to the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~. The request must show that the holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card will suffer a substantial hardship if the date of the hearing is not changed and offer a proposed date for hearing. The holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card has the burden of establishing a substantial hardship.

5. The Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ shall hear all contests filed pursuant to this section and give all parties thereto notice of the hearing and a fair opportunity to participate at the hearing. The Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ shall issue his or her decision within a reasonable time after the conclusion of the hearing.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.630 Suspension, modification or revocation of operating permit, certificate, certificate of competency, certificate of accreditation or work card: Appeal to Administrator.
(NRS 455C.110)

1. Any decision of the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ rendered pursuant to NAC 455C.628 may be appealed to the Administrator within 30 calendar days after the issuance of the decision. If a decision is not appealed to the Administrator within 30 calendar days, it becomes final.

2. Any review of a decision rendered pursuant to NAC 455C.628 must be summary in nature, limited to the record and without hearing, unless a request for a hearing is granted by the Administrator or his or her designee. If the Administrator or his or her designee grants a request for a hearing, the hearing must be confined to the issues raised and facts asserted during the hearing before the Chief who rendered the decision. A hearing may be granted only to consider new evidence.

3. The Administrator or his or her designee may affirm, reverse or modify the decision of the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ or remand the matter to the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ for further consideration.

4. The decision of the Administrator or his or her designee is a final decision for the purposes of judicial review.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

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NAC 455C.632 Summary suspension of operating permit, certificate, certificate of competency, certificate of accreditation or work card: Grounds. (NRS 455C.110)

1. The ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ may suspend summarily an operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card issued pursuant to the provisions of this chapter if it finds that for any reason the protection of the general public requires such action.

2. For the purposes of this section, a violation of any provision of this chapter, or if the inspector or special inspector is inspecting a boiler or pressure vessel governed by the provisions of chapter 512 of NRS and chapter 512 of NAC, a violation of any provision set forth in NAC 512.500 to 512.594, inclusive, may constitute a danger to the general public requiring immediate action if so determined by the ~~[Enforcement Section or the]~~ Mechanical Compliance Section.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.634 Summary suspension of operating permit, certificate, certificate of competency, certificate of accreditation or work card: Notice of action; immediate cessation of operations. (NRS 455C.110)

1. If the ~~[Enforcement Section or the]~~ Mechanical Compliance Section intends to suspend summarily an operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card issued pursuant to this chapter, the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ shall notify the holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card of the summary suspension by:

(a) Delivering a notice of the summary suspension to the holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card by certified mail; and

(b) Enclosing with the notice of summary suspension:

(1) A statement indicating the legal authority and jurisdiction of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ to issue the summary suspension; and

(2) A statement of the reasons for the proposed action, including a citation of the applicable regulations supporting the action or the effect on the general public necessitating the action, or both.

2. The notice of the summary suspension must:

(a) State the effective date of the summary suspension;

(b) Inform the holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card that he or she is entitled to contest the summary suspension; and

(c) State that the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable]~~ will hold a hearing within 10 business days after the receipt of any contest.

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3. Upon the receipt of a notice of summary suspension, the holder of the operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card shall immediately cease all operations that are the subject of the suspension.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.636 Summary suspension of operating permit, certificate, certificate of competency, certificate of accreditation or work card: Contest of action. (NRS 455C.110)

1. A holder of an operating permit, certificate, certificate of competency, certificate of accreditation as an authorized inspection agency or work card may appeal a summary suspension by filing a contest with the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ within 15 calendar days after the issuance of the summary suspension.

2. Any contest filed pursuant to this section does not stay the summary suspension.

3. A contest filed pursuant to this section must be made in writing and describe in particular the matters to be contested. The contest must be accompanied by:

(a) Any documents applicable to the contest;

(b) The names of any witnesses who may be called at the hearing; and

(c) The expected time needed to present the contest.

↪ If any person alleges that the ~~[Enforcement Section or the]~~ Mechanical Compliance Section does not have the jurisdiction or legal authority to act with regard to any summary suspension, it must be indicated in the contest documents.

4. The Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ shall set a date for hearing within 10 business days after the receipt of any written contest.

5. The Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ shall hear all contests filed pursuant to this section and issue his or her decision within 10 business days after the conclusion of the hearing.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.638 Summary suspension of operating permit, certificate, certificate of competency, certificate of accreditation or work card: Appeal to Administrator. (NRS 455C.110)

1. Any decision of the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ rendered pursuant to NAC 455C.636 may be appealed to the Administrator within 30 calendar days after the issuance of the decision.

2. Any review of a decision rendered pursuant to NAC 455C.636 must be summary in nature, limited to the record and without hearing, unless a request for a hearing is granted by the Administrator or his or her designee. If the Administrator or his or her designee grants a request for a hearing, the hearing must be confined to the issues raised and facts asserted during the hearing

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before the Chief who rendered the decision. A hearing may be granted only to consider new evidence.

3. The Administrator or his or her designee may affirm, reverse or modify the decision of the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ or remand the matter to the Chief of the ~~[Enforcement Section or the]~~ Mechanical Compliance Section ~~[, as applicable,]~~ for further consideration. If the matter is remanded, the Chief shall set a date for a new hearing within 10 business days.

4. The decision of the Administrator or his or her designee is a final decision for the purposes of judicial review.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004; A by R077-14, 1-16-2015; Emergency Regulation, eff. 6-16-2020)

NAC 455C.640 Summary suspension of operating permit, certificate, certificate of competency or work card: Permanency of suspension. (NRS 455C.110) A summary suspension becomes a permanent suspension if the holder of an operating permit, certificate, certificate of competency or work card:

1. Does not contest the summary suspension; or
2. Fails to appeal the decision of the Chief or the Administrator pursuant to the provisions of this chapter.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.642 Summary suspension of operating permit, certificate, certificate of competency or work card: Modification or revocation. (NRS 455C.110) A summary suspension may be modified or revoked upon written notice to the holder of the operating permit, certificate, certificate of competency or work card given pursuant to the provisions of NAC 455C.618.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)

NAC 455C.644 Summary suspension of operating permit, certificate, certificate of competency or work card: Withdrawal. (NRS 455C.110) The Chief or the Administrator may withdraw a summary suspension upon giving written notice to the holder of the operating permit, certificate, certificate of competency or work card.

(Added to NAC by Div. of Industrial Relations by R101-02, eff. 12-15-2004)