



**DEPARTMENT OF BUSINESS AND INDUSTRY
DIVISION OF INDUSTRIAL RELATIONS**

November 19, 2024

**Small Business Impact Statement Questionnaire
Temporary Regulation Brazed Plate Heat Exchangers**

This proposed Temporary Regulation would exempt certain brazed plate heat exchangers from regulation under NAC 455C due to their low safety risk. Objects that would be exempt from regulation include brazed plate heat exchangers which are installed in any chiller, heat pump, or refrigeration equipment that is located within an outdoor installation, regardless of size, volume of refrigerant in the unit or rated pressure. It also exempts brazed plate heat exchangers that are installed within autoclave assemblies, regardless of size or rated pressure; or which are A1 refrigerants that are installed in any chiller, heat pump, or refrigeration equipment that is located within an indoor installation, and that do not exceed 50 pounds in volume of refrigerant per circuit; and do not exceed a tonnage of 50 tons cooling capacity per circuit.

The following questions pertain to how the changes in the Nevada Administrative Code (NAC) presented in the enclosure may affect your business. If it is determined that the proposed regulation is likely to impose a direct and significant economic burden upon a small business, or directly restrict the formation, operation, or expansion of a small business, then the agency will take any or all of the following actions:

1. Insofar as practicable, consult with owners and officers of affected small businesses;
2. Consider methods to reduce the impact of the proposed regulation; and
3. Prepare a small business impact statement and make copies of the statement available to the public at the public workshop hearing to be held pursuant to NRS 233B.061.

To review the proposed regulations, please see the attached document.

Please answer each of the following questions that apply and add any qualifying remarks that may help us to understand your position. **Please mail or email your completed form on or prior to November 26, 2024 to the following:**

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**PROPOSED TEMPORARY REGULATION OF THE DEPARTMENT OF BUSINESS &
INDUSTRY, DIVISION OF INDUSTRIAL RELATIONS FOR THE
AMENDMENT OF NAC CHAPTER 455C**

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

AUTHORITY: NRS 455C.110; NRS 233B.040.

A REGULATION relating to public safety; creating and revising certain exemptions to the provisions governing boilers and pressure vessels; and providing other matters properly relating thereto.

Section 1. NAC 445C.114 is hereby amended to read as follows:

NAC 455C.114 Exemptions from provisions. ([NRS 455C.110](#), [455C.112](#)) The provisions of [NAC 455C.020](#) to [455C.300](#), inclusive, do not apply to:

1. Boilers and pressure vessels governed by the provisions of [chapter 512](#) of NRS and except as otherwise provided in section 8 of R026-23, [chapter 512](#) of NAC.
2. Boilers and pressure vessels installed or used in a single-family residence unless the boiler or pressure vessel is a:
 - (a) Hot water supply boiler;
 - (b) Hot water supply tank that has a storage capacity which exceeds 120 gallons;
 - (c) Low-pressure heating boiler;
 - (d) Power boiler; or
 - (e) Pressure vessel that:
 - (1) Operates at pressures that exceed 15 PSIG; or
 - (2) Has a storage capacity of 5 cubic feet or more by volume.
3. Boilers and pressure vessels under the control of the Federal Government.
4. Unfired pressure vessels meeting the requirements of the United States Department of Transportation for the shipment of liquids or gases under pressure.
5. Unfired pressure vessels having an inside diameter not exceeding 6 inches (152 millimeters).
6. Unfired pressure vessels containing cold water under pressure, including those containing air, the compression of which serves only as a cushion.
7. A water heater or a pressure vessel containing water heated by steam or by any other indirect means, if none of the following limitations is exceeded:
 - (a) An input of heat of 199,999 British thermal units per hour (58,600 watts).
 - (b) A water temperature of 210 degrees Fahrenheit (99 degrees Centigrade).
 - (c) A water capacity of 120 gallons (450 liters).
8. Unfired pressure vessels that do not exceed 5 cubic feet in volume and 15 PSIG.

9. 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. Unfired pressure vessels used for the storage of compressed air only.

11. A hot water heater constructed of continuous coils, which is used only to produce steam vapor to clean machinery, equipment and buildings, if:

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

(b) The nominal water containing capacity does not exceed 6 gallons;

(c) The water temperatures do not exceed 350 degrees Fahrenheit; and

(d) 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. Unfired pressure vessels and piping containing liquid petroleum gas and liquid natural gas.

13. All brazed plate heat exchangers:

(a) Which are installed in any chiller, heat pump, or refrigeration equipment that is located within an outdoor installation, regardless of size, volume of refrigerant in the unit or rated pressure;

(b) Installed within autoclave assemblies, regardless of size or rated pressure; or

(c) Which are A1 refrigerants that are installed in any chiller, heat pump, or refrigeration equipment that is located within an indoor installation, and that:

(1) Do not exceed 50 pounds in volume of refrigerant per circuit;
and

(2) Do not exceed a tonnage of 50 tons cooling capacity per circuit.

SMALL BUSINESS IMPACT STATEMENT QUESTIONNAIRE
Temporary Regulation on Brazed Plate Heat Exchangers

Name: _____ Date: _____

Organization: _____

NRS 233B.0382 “Small Business defined.” “Small business means a business conducted for profit, which employs fewer than 150 full-time or part-time employees.

1. How many employees are currently employed by your business?

Less than 150 employees

150 employees or more

If you have more than 150 employees, you will not need to answer the rest of the questions. Please mail or email your questionnaire to the above address. If less than 150 employees, please continue with the remaining questions.

2. Will a specific proposed regulatory provision have an **adverse economic effect** upon your business? If so, please indicate the estimated dollar amount(s) you believe the adopted regulations will cost you over one calendar year with a brief explanation as to how the dollar amount was calculated.

Yes, the regulation will have an adverse economic effect on my business.

No, the regulation will not have an adverse economic effect on my business.

Explanation: _____

3. Will the regulation have any **beneficial economic effect** upon your business? If so, please indicate any beneficial effects or cost savings you believe the adopted regulations will save you over one calendar year with an estimated dollar amount.

Yes, the regulation will have a beneficial effect on my business.

No, the regulation will not have a beneficial effect on my business.

Explanation: _____

4. Do you anticipate any **indirect adverse effects** upon your business?

Yes, the regulation will have an indirect adverse effect on my business.

No, the regulation will not have an indirect adverse effect on my business.

Explanation: _____

5. Do you anticipate any **indirect beneficial effects** upon your business?

Yes, the regulation will have an indirect beneficial effect on my business.

No, the regulation will not have an indirect beneficial effect on my business.

Explanation: _____

Signature

Title