

CODE CHANGE PROPOSAL FORM

(Must be submitted electronically)

Author/requestor: Staff

Date: 7/26/2024 revised 9/13/2024

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Model Code:

Telephone number: 651-284-5510

Code or Rule Section: 1346.5101,
1346. 5301.1, 1346.5401.2

Firm/Association affiliation, if any:

Topic of the proposal: Administration

Code or rule section to be changed: MN Mechanical Code 1346.5101 Administration

Intended for Technical Advisory Group ("TAG"):

General Information

Yes **No**

- | | | |
|--|-------------------------------------|-------------------------------------|
| A. Is the proposed change unique to the State of Minnesota? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| B. Is the proposed change required due to climatic conditions of Minnesota? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| C. Will the proposed change encourage more uniform enforcement? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| D. Will the proposed change remedy a problem? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| E. Does the proposal delete a current Minnesota Rule, chapter amendment? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| F. Would this proposed change be appropriate through the ICC code development process? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Proposed Language

1. The proposed code change is meant to:

change language contained in the model code book? If so, list section(s).
Administration Chapter MN Mechanical Code

change language contained in an existing amendment in Minnesota Rule? If so, list Rule part(s).

delete language contained in the model code book? If so, list section(s).

delete language contained in an existing amendment in Minnesota Rule? If so, list Rule part(s).

add new language that is not found in the model code book or in Minnesota Rule.

2. Is this proposed code change required by Minnesota Statute? If so, please provide the citation.

3. Provide *specific* language you would like to see changed. Indicate proposed new words with underlining and ~~strike through~~ words proposed for deletion. Include the entire code (sub) section or rule subpart that contains your proposed changes.

Subp. 5. Systems, appliances, and equipment outside the scope.

This code shall not apply to the following:

1. Portable LP and natural gas appliances and equipment of all types that ~~is~~ are not connected to a fixed fuel piping system s and LP gas containers with a capacity of 100 pounds or less.
2. Installation of farm appliances and equipment such as brooders, dehydrators, dryers, and irrigation equipment.
3. Raw material (feedstock) applications except for piping to special atmosphere generators.
4. Oxygen-fuel gas cutting and welding systems.
5. Industrial gas applications using gases such as acetylene and acetylenic compounds, hydrogen, ammonia, carbon monoxide, oxygen, and nitrogen.
6. Petroleum refineries, pipeline compressor or pumping stations, loading terminals, compounding plants, refinery tank farms, and natural gas processing plants.
7. Integrated chemical plants or portions of such plants where flammable or combustible liquids or gases are produced by, or used in, chemical reactions.
8. LP-gas installations at utility gas plants.
9. Liquefied natural gas (LNG) installations.
10. Fuel gas piping in power and atomic energy plants.
11. Proprietary items of equipment, apparatus, or instruments such as gas-generating sets, compressors, and calorimeters.
12. LP-gas equipment for vaporization, gas mixing, and gas manufacturing.
13. ~~Temporary LP-gas piping for buildings under construction or renovation that is not to become part of the permanent piping system.~~
14. ~~13.~~ Installation of LP-gas systems for railroad switch heating.
15. ~~14.~~ Installation of hydrogen gas, LP-gas, and compressed natural gas (CNG) systems on vehicles.
16. ~~15.~~ Except as provided in IFGC Section 401.1.1, gas piping, meters, gas pressure regulators, and other appurtenances used by the serving gas supplier in the distribution of gas, other than undiluted LP-gas.
17. ~~16.~~ Building design and construction, except as specified in this rule.
18. ~~17.~~ Piping systems for mixtures of gas and air within the flammable range with an operating pressure greater than 10 psig (69 kPa gauge).
19. ~~18.~~ Portable fuel cell appliances that are neither connected to a fixed piping system nor interconnected to a power grid.

1346.5301.1 Scope.

This chapter shall govern the approval and installation of all *equipment* and appliances that comprise parts of the installations regulated by this code in accordance with ~~Section 101.2.~~ MR 1346.5101. Temporary LP appliances and equipment connected to a LP gas container with a capacity greater than 100 pounds shall comply with MR 1346.5401.2. Temporary natural gas appliances shall be connected to a natural gas piping system. All temporary LP or natural gas appliances must be listed and labeled, be installed in accordance the terms of the listing, and have combustion air provided from the outdoors sized with a minimum free area of 1 square inch per 3,000 Btu per hour input.

1346.5401.2 Liquefied petroleum gas storage.

The storage system for liquefied petroleum gas shall be designed and installed in accordance with the *International Fire Code* and NFPA 58. For the purposes of 1346.5301.1, LP gas containers shall not be connected to a common manifold when the temporary LP gas appliances and equipment are connected to LP gas containers with a capacity greater than 100 pounds. When multiple appliances

and equipment used for temporary heat are connected to multiple LP gas containers in any occupancy, the combined capacity of the LP gas containers must not exceed 100 pounds.

4. Will this proposed code change impact other sections of a model code book or an amendment in Minnesota Rule? If so, please list the affected sections or rule parts.

No

Need and Reason

1. Why is the proposed code change needed? Please provide a general explanation as well as a specific explanation for any changes to numerical values (heights, area, etc.)

This proposal will provide a safer work environment. Temporary LP gas should not be exempt from meeting code requirements. Worker safety is a very important. A non-code compliant temporary LP gas line and unlisted appliance could create hazardous situations.

2. Why is the proposed code change a reasonable solution?

This change is as easy way to verify temporary LP gas piping is installed safely.

3. What other factors should the TAG consider?

A previous incident could have been avoided if temporary LP gas piping system, and listed gas appliances, were required to be installed per code and inspected.

Cost/Benefit Analysis

1. Will the proposed code change increase or decrease costs? Please explain and provide estimates if possible.

The change proposal will have cost increases to contractors, jurisdictions and builders because of the requirements the piping be approved.

2. If there is an increased cost, will this cost be offset by a safety or other benefit? Please explain. If the benefit is quantifiable (for example energy savings), provide an estimate if possible.

The increased cost will be offset by worker safety. One accident will cost way more than the increased fees needed code compliant temporary LP gas installation

3. If there is a cost increase, who will bear the costs? This can include government units, businesses, and individuals.

The building owners will bear the cost for this increase.

4. Are there any enforcement or compliance cost increases or decreases with the proposed code change? Please explain.

Enforcement costs could be offset by permit fees.

5. Will the cost of complying with the proposed code change in the first year after the rule takes effect exceed \$25,000 for any one small business or small city ([Minn. Stat. § 14.127](#))? A small business is any business that has less than 50 full-time employees. A small city is any statutory or home rule charter city that has less than ten full-time employees. Please explain.

N/A

Regulatory Analysis

1. What parties or segments of the industry are affected by this proposed code change?

Building owners, HVAC installers and jurisdictions.

2. Can you think of other means or methods to achieve the purpose of the proposed code change? What might someone opposed to this code change suggest instead? Please explain what the alternatives are and why your proposed change is the preferred method or means to achieve the desired result.

3. What are the probable costs or consequences of not adopting the code change, including those costs or consequences borne by identifiable categories of affected parties, such as separate classes of government units, businesses, or individuals?

Loss of life and catastrophic building damage from a gas leak.

4. Are you aware of any federal or state regulation or requirement related to this proposed code change? If so, please list the federal or state regulation or requirement and your assessment of any differences between the proposed code change and the federal regulation or requirement.

Fire code and OSHA requirements

***Note: Incomplete forms may be returned to the submitter with instructions to complete the form. Only completed forms can considered by the TAG.