

CODE CHANGE PROPOSAL FORM

(Must be submitted electronically)

Author/requestor: Brian Stemwedel

Date: 7/15/2024

Email address: Bstemwedel@goldenvalleymn.gov
303

Model Code:

Telephone number: (612)275-1436

Code or Rule Section: 905.1

Firm/Association affiliation, if any: AMBO

Topic of the proposal:

Code or rule section to be changed: MN Mechanical Code Chapter 9 Section 905.1

Intended for Technical Advisory Group ("TAG"):

General Information

Yes No

- | | | |
|--|-------------------------------------|-------------------------------------|
| A. Is the proposed change unique to the State of Minnesota? | <input type="checkbox"/> | <input checked="" 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).
Chapter 15 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.

905.1 General. Fireplace stoves, solid-fuel-type room heaters, and fireplace inserts shall be listed and labeled in accordance with the requirements of table 905.1 and shall be installed in accordance with the ~~conditions of the listing and the manufacturer's instructions~~. ~~Fireplace stoves shall be tested in accordance with UL 737. Solid-fuel-type room heaters shall be tested in accordance with UL 1482. Fireplace inserts intended for installation in fireplaces shall be listed and labeled in accordance with the requirements of UL 1482 and shall be installed in accordance with the manufacturer's instructions.~~ New wood-burning residential hydronic heaters shall be EPA-certified.

Add new text as follows:

TABLE 905.1 FIREPLACE STOVES, FIREPLACE INSERTS, AND ROOM HEATER STANDARDS

Stove/Heater Type-	Standard
Fireplace stoves-	UL 737
Solid-fuel room heaters-	UL 1482
Solid-fuel fireplace inserts installed in masonry fireplaces-	UL 1390
Solid-fuel fireplace inserts installed in factory-built fireplaces-	UL 1391

-ALTERNATE (No Table)

905.1 General.

Fireplace stoves, ~~and~~ solid-fuel-type room heaters, and fireplace inserts shall be listed and labeled and shall be installed in accordance with the conditions of the listing and the manufacturer's instructions. Fireplace stoves shall be tested in accordance with UL 737. Solid-fuel-type room heaters shall be tested in accordance with UL 1482. Solid-fuel fireplace inserts intended for installation in fireplaces installed in masonry fireplaces shall be listed and labeled in accordance with the requirements of ~~UL 1482~~ UL 1390 and shall be installed in accordance with the ~~manufacturer's instructions~~. Solid-fuel fireplace inserts installed in factory-built fireplaces shall be listed and labeled in accordance with the requirements of UL 139. New wood-burning residential hydronic heaters shall be EPA-certified.

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.
Yes- Referenced standards

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 creates a table with the information formerly found in paragraph form. Additionally, since fireplace inserts are not in the scope of UL 1482 this proposal introduces two new UL standards which are the correct references for the requirements related to fireplace inserts. This proposal does not address gas-fired fireplace inserts which are covered by the IFGC
2. Why is the proposed code change a reasonable solution?
3. What other factors should the TAG consider?

Cost/Benefit Analysis

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

The change proposal is editorial in nature or a clarification and has no cost impact on the cost of construction.

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.
N/A
3. If there is a cost increase, who will bear the costs? This can include government units, businesses, and individuals.
N/A
4. Are there any enforcement or compliance cost increases or decreases with the proposed code change? Please explain.
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?
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?

Potential to not follow listing requirements, or verify the proper listing.

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.
N/A

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

CODE CHANGE PROPOSAL FORM

(Must be submitted electronically)

Author/requestor: Staff

Date: 7/26/2024

Email address: chris.rosival@state.mn.us

Model Code: 905

Telephone number: 651-284-5510

Code or Rule Section: 905.1

Firm/Association affiliation, if any:

Topic of the proposal:

Code or rule section to be changed: MN Mechanical Code Chapter 9 Section 905.1

Intended for Technical Advisory Group ("TAG"):

General Information

Yes No

- | | | |
|--|-------------------------------------|-------------------------------------|
| A. Is the proposed change unique to the State of Minnesota? | <input type="checkbox"/> | <input checked="" 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).
Chapter 15 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 ~~striethrough~~ words proposed for deletion. Include the entire code (sub) section or rule subpart that contains your proposed changes.

905.1 General. Fireplace stoves, solid-fuel-type room heaters, and solid fuel fireplace inserts shall be listed and labeled ~~and shall be installed in accordance with the conditions of the listing and the manufacturer's instructions.~~ Fireplace stoves shall be tested in accordance with UL 737. Solid-fuel-type room heaters shall be tested in accordance with UL 1482. Fireplace inserts intended for installation in fireplaces shall be listed and labeled in accordance with the requirements of UL 1482 and shall be installed in accordance with the manufacturer's instructions. New wood-burning residential hydronic heaters shall be EPA-certified. Fireplace stoves, room heaters and fireplace inserts shall comply with the following applicable standards:

a) <u>Fireplace stoves-</u>	<u>UL 737</u>
b) <u>Solid-fuel room heaters-</u>	<u>UL 1482</u>
c) <u>Solid-fuel fireplace inserts installed in masonry fireplaces-</u>	<u>UL 1390</u>
d) <u>Solid-fuel fireplace inserts installed in factory-built fireplaces-</u>	<u>UL 1391</u>

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.
Yes- Referenced standards

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 creates a list with the information formerly found in paragraph form. Additionally, since fireplace inserts are not in the scope of UL 1482 this proposal introduces two new UL standards which are the correct references for the requirements related to fireplace inserts.
2. Why is the proposed code change a reasonable solution?
3. What other factors should the TAG consider?

Cost/Benefit Analysis

1. Will the proposed code change increase or decrease costs? Please explain and provide estimates if possible.
The change proposal is editorial in nature or a clarification and has no cost impact on the cost of construction.
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.
N/A
3. If there is a cost increase, who will bear the costs? This can include government units, businesses, and individuals.
N/A
4. Are there any enforcement or compliance cost increases or decreases with the proposed code change? Please explain.

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?
HVAC installers and designers
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?
N/A
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.
N/A

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

CODE CHANGE PROPOSAL FORM

(Must be submitted electronically)

Author/requestor: Brian Stemwedel

Date: 7/15/2024

Email address: Bstemwedel@goldenvalleymn.gov
303

Model Code:

Telephone number: (612)275-1436

Code or Rule Section: 1002.1

Firm/Association affiliation, if any: AMBO

Topic of proposal:

Code or rule section to be changed: MN Mechanical Code 1002.1

Intended for Technical Advisory Group ("TAG"):

General Information

Yes No

- | | | |
|--|-------------------------------------|-------------------------------------|
| A. Is the proposed change unique to the State of Minnesota? | <input type="checkbox"/> | <input checked="" 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).
Chapter 10, MN Mechanical Code Section 1002.1

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.

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

1002.1 General.

Potable water heaters and hot water storage tanks shall be listed and labeled ~~and installed~~ in accordance with the standards in Table 1002.1, and installed in accordance with the listing, the manufacturer's instructions, the International Minnesota Plumbing Code, and this code. Gas-fired storage tank and tankless instantaneous water heaters shall be listed and labeled and installed in accordance with the International Minnesota Fuel Gas Code. Water heaters shall be capable of being removed without first removing a permanent portion of the building structure. The potable water connections and relief valves for all water heaters shall conform to the requirements of the International Minnesota Plumbing Code. ~~Domestic electric water heaters shall comply with UL 174 or UL 1453. Commercial electric water heaters shall comply with UL 1453. Oil-fired water heaters shall comply with UL 732. Solid-fuel-fired water heaters shall comply with UL 2523. Solar thermal water heating systems shall comply with Chapter 14 and ICC 900/SRCC 300.~~

TABLE 1002.1 WATER HEATER STANDARDS

<u>APPLIANCE/EQUIPMENT-</u>	<u>STANDARDS</u>
<u>Domestic storage tank electric water heaters-</u>	<u>UL 174</u>
<u>Commercial storage tank electric and commercial booster water heaters-</u>	<u>UL 1453</u>
<u>Heat pump water heaters-</u>	<u>UL 60335-2-40</u>
<u>Electric tankless instantaneous and booster water heaters-</u>	<u>UL 499</u>
<u>Oil-fired water heaters-</u>	<u>UL 732</u>
<u>Solid-fuel-fired water heaters-</u>	<u>UL 2523</u>
<u>Solar thermal water heating systems-</u>	<u>ICC 900/SRCC 300</u>

Alternate (No Table):

1002.1 General.

Potable water heaters and hot water storage tanks shall be listed and labeled and installed in accordance with the manufacturer's instructions, the ~~International~~ Minnesota Plumbing Code, and this Code. Water heaters shall be capable of being removed without first removing a permanent portion of the building structure. The potable water connections and relief valves for all water heaters shall conform to the requirements of the ~~International~~ Minnesota Plumbing Code. Domestic storage tank electric water heaters shall comply with UL 174 or UL 1453. Commercial electric storage tank electric and commercial booster water heaters shall comply with UL 1453. Heat pump water heaters shall comply with UL 60335-2-40. Electric tankless instantaneous and booster water heaters shall comply with UL 499. Oil-fired water heaters shall comply with UL 732. Solid-fuel-fired water heaters shall comply with UL 2523. Solar thermal water heating systems shall comply with Chapter 14 and ICC 900/SRCC 300.

- 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.

Add Referenced Standards

Need and Reason

- 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.)
For clarity, this proposal restructures the current requirements into a table format, which includes new UL Standards for commercial electric booster water heaters, electric tankless water heaters, and heat pump water heaters.
- Why is the proposed code change a reasonable solution?

3. What other factors should the TAG consider?

Cost/Benefit Analysis

1. Will the proposed code change increase or decrease costs? Please explain and provide estimates if possible.
No
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.
N/A
3. If there is a cost increase, who will bear the costs? This can include government units, businesses, and individuals.
N/A
4. Are there any enforcement or compliance cost increases or decreases with the proposed code change? Please explain.
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?
Code officials, designers, contractors
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.
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No

N/A

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CODE CHANGE PROPOSAL FORM

(Must be submitted electronically)

Author/requestor: Staff

Date: 7/26/2024

Email address: chris.rosival@state.mn.us

Model Code: 1002

Telephone number: 651-284-5510

Code or Rule Section: 1002.1

Firm/Association affiliation, if any: DLI

Topic of proposal:

Code or rule section to be changed: MN Mechanical Code 1002.1

Intended for Technical Advisory Group ("TAG"):

General Information

Yes No

- | | | |
|--|-------------------------------------|-------------------------------------|
| A. Is the proposed change unique to the State of Minnesota? | <input type="checkbox"/> | <input checked="" 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

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 - change language contained in the model code book? If so, list section(s).
Chapter 10, MN Mechanical Code Section 1002.1
 - 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.

- 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.

1002.1 General.

Potable water heaters and hot water storage tanks shall be listed, labeled and installed in accordance with the manufacturer's instructions, the ~~International~~ Minnesota Plumbing Code, and this code. Water heaters shall be capable of being removed without first removing a permanent portion of the building structure. The potable water connections and relief valves for all water heaters shall conform to the requirements of the ~~International~~ Minnesota Plumbing Code. ~~Domestic electric water heaters shall comply with UL 174 or UL 1453. Commercial electric water heaters shall comply with UL 1453. Oil-fired water heaters shall comply with UL 732. Solid-fuel-fired water heaters shall comply with UL 2523. Solar thermal water heating systems shall comply with Chapter 14 and ICC 900/SRCC 300.~~ Water heaters shall comply with the following applicable standards:

a) <u>Domestic electric water heaters</u>	<u>UL 174</u>
b) <u>Commercial electric water heaters</u>	<u>UL 1453</u>
c) <u>Heat pump water heaters</u>	<u>UL/CSA 60335-2-40</u>
d) <u>Electric tankless instantaneous and booster water heaters</u>	<u>UL 499</u>
e) <u>Oil-fired water heaters</u>	<u>UL 732</u>
f) <u>Solid-fuel-fired water heaters</u>	<u>UL 2523</u>
g) <u>Solar thermal water heating systems</u>	<u>ICC 900/SRCC 300</u>

- 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.

Add Referenced Standards

Need and Reason

- 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.)
For clarity, this proposal restructures the current requirements into a list, which includes new UL Standards for commercial electric booster water heaters, electric tankless water heaters, and heat pump water heaters. MSPC Table 501.1(1) has listings for electric water heaters that should be referenced in the IMC
- Why is the proposed code change a reasonable solution?
- What other factors should the TAG consider?

Cost/Benefit Analysis

- Will the proposed code change increase or decrease costs? Please explain and provide estimates if possible.
No
- 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.
N/A
- If there is a cost increase, who will bear the costs? This can include government units, businesses, and individuals.
N/A

4. Are there any enforcement or compliance cost increases or decreases with the proposed code change? Please explain.
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?
[Code officials, designers, contractors](#)
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.

[N/A](#)
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[N/A](#)

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