Plumbing Board **Request for Action**

PRINT IN INK or TYPE

NAME OF SUBMITTER	PURPOSE OF REQUEST	(check all that apply): 🔲 New Code	
Joel S. Hoistad/NW Chapter of Building Officials	Code Amendment	Repeal of an existing Rule	
The Minnesota Plumbing Code (MN Rules, Chapter 4714) is available at www.dli.mn.gov/CCLD/PlumbingCode.asp			

Specify the purpose of the proposal: If recommendation for code change for appurtenance or method (check all that apply)

Appurtenance (e.g., water conditioning equipment)

Other (describe)

Test Method

Redunancy - Dishwasher listed air gap device

Does your submission contain a Trade Secret? Ves X No

If Yes, mark "TRADE SECRET" prominently on each page of your submission that you believe contains trade secret information. Minnesota Statutes, section 13.37, subdivision 1(b), defines "trade secret" as follows:

"Trade secret information" means government data, including a formula, pattern, compilation, program, device, method, technique or process (1) that was supplied by the affected individual or organization, (2) that is the subject of efforts by the individual or organization that are reasonable under the circumstances to maintain its secrecy, and (3) that derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by, other persons who can obtain economic value from its disclosure or use.

Note that, although "trade secret" information is generally not public, the Board and its committees may disclose "trade secret" information at a public meeting of the Board or committee if reasonably necessary for the Board or committee to conduct the business or agenda item before it (such as your request.) The record of the meeting will be public.

Describe the proposed change. The Minnesota Plumbing Code (Minnesota Rules Chapter 4714) is available via the World Wide Web at http://www.revisor.leg.state.mn.us/arule/4714/

NOTE:

- Please review the Minnesota Plumbing Code and include all parts of the Code that require revision to accomplish vour purpose.
- The proposed change, including suggested rule language, should be specific. If modifying existing rule language, underline new words and strike through deleted words. Please list all areas of the Minnesota Plumbing Code that would be affected.

4714.0414.3 Drainage Connection - Domestic dishwashing machines shall discharge indirectly through an airgap fitting in accordance with section 807.4 into a waste receptor, awye branch fitting or the tail piece of a kitchen sink, or dishwasher connection of a food waste grinder. Commercial dishwashing machines shall discharge indirectly through an air gap or direct connection in accordance with section 704.3 with floor drain protection.

4714.0807.4 Domestic Dishwashing Machine - No-domestic dishwashing machine shall be directly connected to a drainage system or food waste disposer without the use of an approved dishwasher air gap fitting on the discharge side of the dishwashingmaching. Listed air gaps shall be installed with the flood-level (FL) marking at or above the flood level of the sink or drainboard, whichever is higher ...

Office Use Only				
RFA File No. PB0099	Date Received by DLI	Dated Received by Committee	Date of Forwarded to Board	
Title of RFA	By:			
Committee Recommendation to the Board: Accept Reject Abstain				
Board approved as submitted: Yes No Board approved as modified: Yes No				
This material can be made available in different forms, such as large print, Braille or on a tape. To request, call 1-800-342-5354 (DIAL-DLI).				

Need and Reasons For the Change. Thoroughly explain the need and why you believe it is reasonable to make this change. During a rulemaking process, the need and reasonableness of all proposed rule changes must be justified; therefore, a detailed explanation is necessary to ensure the Board thoroughly considers all aspects of the proposal.

The need for this change is that the device in question has added cost to projects unneccisarily, has caused water damage when these devices fail, and were never justified with a need for them in the first place. We couldn't find record of even one instance where a backup in a kitchen sink was under enough pressure to force waste water back into a dishwasher causing illness. It would be reasonable to eliminate this code requirement, as we have qualified (MN Licensed) plumbers installing the majority of these dishwashers and they are being installed properly, virtually eliminating any possible back up of the sewer into dishwashing machines. Also, in the 2015 & 2018 National Standard Plumbing Code (which I have attached to this email), it is giving the consumer and the installer an option of the high loop under the countertop OR be connected to a deck-mounted dishwasher air gap fitting.

If your product/method standard(s) is not currently listed in both national codes, your Request For Action will not be considered by the Board or its committees, however, you are welcome to present at any Board meeting during the Open Forum section of the Agenda.

The proposal must be accompanied by copies of any published standards, the results of testing, and copies of any product listings, as documentation of the health, sanitation and safety performance of any materials, methods, fixtures, and/or appurtenances. If none are available, please explain:

See attached documents from the 2015 & 2018 National Standard Plumbing Code.

Please attach electronic scanned copies of any literature, standards and product approvals or listings. Printed or copyrighted materials, *along with written permission from the publisher to distribute the materials at meetings*, should be sent to the Plumbing Board, c/o Department of Labor and Industry, 443 Lafayette Road No., St. Paul, MN 55155-4344.

Please remember to attach all necessary explanations and supporting documentationPage 2 of 4

Primary reason for change: (check only one) Protect public, health, safety, welfare, or security Lower construction costs Encourage new methods and materials Change made at national level Other (describe)	 Mandated by legislature Provide uniform application Clarify provisions Situation unique to Minnesota 	
Anticipated benefits: (check all that apply) Save lives/reduce injuries Improve uniform application Improve health of indoor environment Provide more construction alternatives Reduce regulation	 Provide more affordable construction Provide building property Drinking water quality protection Decrease cost of enforcement 	
Economic impact: (explain all answers marked "yes") 1. Does the proposed change increase or decrease the cos	t of enforcement?	
countertops/sinks. The savings will start at the plumb consumer.	ill bear the cost increase or experience the cost decrease: compliance - less holes to cut into very costly er doing the work and will be passed along to the end	
3. Are there less costly or intrusive methods to achieve the The less costly or intrusive would be to eliminage the r		
methods were considered and why they were rejected.	No If no, why not? If yes, explain what alternative e to achieve the end result, and none that industry could ill offset the cost of the change. If there is no impact, mark	
"N/A." N/A	in onder the boar of the bhange. If there is no impact, many	
6. Provide a description of the classes of persons affected to benefit. There will be no cost - some savings of dollars this code change.	by a proposed change, who will bear the cost, and who will to end consumers who will also be the beneficiarie of	
7. Does the proposed rule affect farming operations? (Ag Code under Minnesota Statutes, Section 326B.121.) Yes	ricultural buildings are exempt from the Minnesota Building	
Are there any existing Federal Standards? Xes	No If yes, list:	
2015 & 2018 National Standard Plumbing Code		
	ence & explain why each difference is needed & reasonable. taller an option of a high loop under the countertop or a	
Minnesota Statutes, section 14.127, requires the Board to d in the first year after the changes take effect will exceed \$25 defined as a business (either for profit or nonprofit) with less city with less than ten full-time employees.	etermine if the cost of complying with proposed rule changes ,000 for any small business or small city. A small business is than 50 full-time employees and a small city is defined as a	
During the first year after the proposed changes go into effe small city of comply with the change? Yes No If y	ct, will it cost more than \$25,000 for any small business or es, identify by name the small business(es or small city(ies).	

Will this proposed plumbing code amendment require any local government to adopt or amend an ordinance or other regulation in order to comply with the proposed plumbing code amendment? Yes No, If yes, identify by name the government(s) and ordinances(s) that will need to be amended in order to comply with the proposed plumbing code amendment.

Additional supporting documentation may also be attached to this form. Are there any additional comments you feel the Committee/Board may need to consider? If so, please state them here:

Please concider the letter written by a local plumber as testimony and the 2015 & 2018 National Standard Plumbing Code.

Information regarding submitting this form:

- Submissions are received and heard by the Committee on an "as received" basis. Any missing documentation will
 delay the process, and your proposal will be listed as the date it was received "Complete."
- Submit any supporting documentation to be considered, such as manufacturer's literature, approvals by other states, and engineering data electronically to <u>DLI.CCLDBOARDS@state.mn.us</u>. Once your Request For Action form has been received, it will be assigned a file number. Please reference this file number on any correspondence and supplemental submissions.
- For copyrighted materials that must be purchased from publishers, such as published standards, product approvals or testing data, listings by agencies (IAPMO, ASSE, ASTM, etc.,) you may send just 2 copies, along with written permission from the publisher to distribute the materials at meetings, via U.S. Mail to: Plumbing Board, c/o Department of Labor and Industry, 443 Lafayette Road No., St. Paul, MN 55155-4344.
- For materials that must be submitted by U.S. Mail, please include a copy of your "Request For Action" form
 originally submitted and reference your assigned RFA file number.

Information for presentation to the Committee and/or Board:

- · Limit presentations to 5 minutes or less.
- Be prepared to answer questions regarding the proposal and any documentation.

Information regarding Committee and/or Board function:

• The Plumbing Board or designated Committee.

I understand that any	action is a recommendation to the Plur	mbing Board and is not to be considered final action.
NAME AND E MAIL A	DRESS	FIRM NAME

Joel S. Hoistad - jhoistad@breckenridgemn.net	NW Chapter of Building Officials
NAME, PHONE NUMBER AND E-MAIL ADDRESS OF PRESENT	ER TO THE COMMITTEE (if different):
SAME AS ADOVE	

ADDRESS		CITY		STAT E	ZIP CODE
420 Nebraska Ave	1	Breckenridge	2	MN	56520
PHONE	SIGNATURE (original/o	r electronic)	DATE		
(218)-643-1431 ext. 106	1/ G. H	-	6-19-18		

For Assistance or questions on completing this form, contact Cathy Tran, Department of Labor and Industry at 651-284-5898.

For Office/Committee Use Only	Proposal received completed?	Yes No	
Date Proposer notified of gaps:	Mode of notification (e.g., e-mail)	Date returned to Proposer:	Date materials re-received:



Figure 7.14.3

A COMMERCIAL FOOD WASTE DISPOSER INSTALLATION

7.14.4 Water Supply

An adequate supply of water shall be provided for proper operation of food waste disposers.

7.15 DISHWASHING MACHINES

7.15.1 Compliance

a. Domestic dishwashing machines shall comply with UL 749 and AHAM DW-1. The water supply to domestic dishwashing machines shall be protected from back siphonage by an integral air gap, an other internal means, or a vacuum breaker. Air gap fittings for drain discharge shall comply with ASSE 1021.

b. Commercial dishwashing machines shall comply with UL 921 and NSF 3. Backflow prevention shall comply with ASSE 1004.

7.15.2 Residential Sink and Dishwasher

The discharge from a residential kitchen sink and dishwasher may discharge through a single 1-1/2" trap. The discharge line from the dishwasher shall be not less than the size recommended by the dishwasher manufacturer. It shall either be looped up and securely fastened to the underside of the counter or be connected to a deck-mounted dishwasher air gap fitting. The discharge shall then be connected to a branch inlet wye fitting between the sink waste outlet and the trap inlet. The discharge may also drain indirectly into a trapped standpipe, or receptor. *See Figure 7.15.2*



Figure 7.15.2 A RESIDENTIAL KEICHEN SINK AND DISHWASHER

7.15.3 Residential Sink, Dishwasher, and Food Waste Disposer

The discharge from a residential kitchen sink, dishwasher, and food waste disposer may discharge through a single 1-1/2" trap. The discharge line from the dishwasher shall be not less than the size recommended by the dishwasher manufactured it shall either be looped up and securely fastened to the underside of the counter or be connected to a deck-mounted dishwasher air gap fitting. The discharge shall then be connected either to the chamber of the food waste disposer or to n branch inlet wye fitting between the food waste disposer outlet and the trap inlet. The discharge may also drain indirectly into a trapped standpipe or receptor. *See Figure 7.15.3*

2015 National Standard Plumbing Code - Illustrated

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PLUMBING FIXTURES, FIXTURE FITTINGS AND PLUMBING APPLIANCES



Figure 7.14.3 A COMMERICAL FOOD WASTE DISPOSER INSTALLATION

b. Commercial electric clothes washers shall comply with UL 1206 and include backflow prevention.

Comment: Automatic clothes washers that comply with the referenced appliance standards include an internal air gap in the water fill line and do not require the installation of an external backflow prevention device.

7.14 FOOD WASTE DISPOSERS

7.14.1 Compliance

Domestic food waste disposer units shall comply with UL 430 and either AHAM FWD-1 or ASSE 1008.

7.14.2 Domestic Units

Domestic food waste disposer units shall have not less than a 1-1/2" nominal waste connection to the drainage system. Such units may connect to a kitchen sink drain outlet, as permitted in Section 7.11.2.a.

7.14.3 Commercial Units

Commercial food waste disposer units shall be connected to the drainage system and be separately trapped from any sink compartment or other fixture. The waste pipe size for such fixtures shall be of sufficient size to serve the fixture but shall be not less than 2-inch nominal size. *See Figure 7.14.3*

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7.15.3 Residential Sink, Dishwasher, and Food Waste Disposer

The discharge from a residential kitchen sink, dishwasher, and food waste disposer may discharge through a single 1-1/2" trap. The discharge line from the dishwasher shall be not less than the size recommended by the dishwasher manufacturer. It shall either be looped up and securely fastened to the underside of the counter or be connected to a deck-mounted dish-

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PLUMBING FIXTURES, FIXTURE FITTINGS AND PLUMBING APPLIANCES



Figure 7.15.2 A RESIDENTIAL KITCHEN SINK AND DISHWASHER

washer air gap fitting. The discharge shall then be connected either to the chamber of the food waste disposer or to a branch inlet wye fitting between the food waste disposer outlet and the trap inlet. The discharge may also drain indirectly into a trapped standpipe or receptor. See Figure 7.15.3

7.15.4 Commercial Dishwashing Machine

a. Commercial dishwashing machines shall be indirectly connected to the drainage system through either an air gap or an air break. When the machine is within 5 feet developed length of a trapped and vented floor drain, an indirect waste pipe from the dishwasher may be connected to the inlet side of the floor drain trap. *See Figure 7.15.4*

b. Commercial dishwashers shall be permitted to discharge through a grease interceptor in accordance with Section 6.2.6.a.

7.16 FLOOR DRAINS, AREA DRAINS, AND TRENCH DRAINS

7.16.1 Compliance

Floor drains, area drains, and trench drains shall comply with ASMB A112.6.3 or, if stainless steel, ASME A112.3.1.

7.16.2 Grate Free Area and Strainer or Sediment Bucket

a. The free area of the top grate or strainer grate for floor drains, area drains, and trench drains shall comply with ASMB A112.6.3 based on their outlet connection size. Where floor drains and area drains receive other than clear water waste, they shall include an internal secondary outlet strainer or re-

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movable metal sediment bucket to retain solids.

b. The trap scal for floor drains shall be not less than 2 inches deep.

c. Where infrequently used floor drains are subject to evaporation of their trap seals, they shall either 1) be provided with a 4-inch deep trap seal and have an accessible means to replenish, or 2) be fed from an automatic trap seal priming device complying with ASSE 1018 or ASSE 1044, or 3) be fitted with a barrier type floor drain trap seal protection device complying with ASSE 1072.

d. Where traps are automatically primed, the priming connection shall be above the weir of the trap. See Figures 7.16.2-A through -C

7.16.3 Size of Floor Drains

Floor drains shall be not less than 2" pipe size and he sized on the drain pipe size required for the floor drain application.

7.16.4 Required Locations for Floor Drains

a. Floor drains shall be provided in the following areas:

 Toilet noms containing either one water closet and one wall hung urinal, two or more water closets, or two or more wall hung urinals, except in a dwelling unit.

2. Commercial kitchens.

3. Common Laundry Rooms

7.16.5 Walk-in Coolers and Freezers

Floor drains located in walk-in coolers and walk-in freezers where food or other products for human consumption are

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6-5-18

City of Breckenridge

Joel Hoistad Building Official

Good Morning Joel

I just want to take a minute of your time to discuss dishwasher air gaps that are now being enforced. I've had many sometimes heated discussions with home owners as far as why we had to drill a hole and install an above counter air gap in there beautiful and expensive counter top. Also there has been issues with some people as far as the noise emitting from the air gap. Being in the plumbing service business, we have seen many instances of the customer disconnecting them when they have gone bad and leaked on the counter. I just wanted to touch base with you to see if there are others that are experiencing the same issues, it seem to be a shame to have to have something like that protruding through the counter top. I've been a plumber for over 40 years and I understand that we are protecting the health of our customers but I have not had an issue with mounting them to the bottom of the counter top. The UPC allows this in many states. I have talked to many plumbers who are feeling the same as I and am wondering if this issue could possibly be brought to the table for some consideration. We would appreciate any help you could give us on this issue. Thank you for your time.

Sincerely Tim Schmidt Mn PM059367

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