

**Plumbing Board
Minutes (Draft)
July 21, 2009
Minnesota Room
Department of Labor and Industry (DLI)
443 Lafayette Road No., Saint Paul, MN 55155-4344
DLI.CCLDBOARDS@State.MN.US**

Members Present:

Karl Abrahamson
Rebecca L. Ames
Steve Christenson
Jim Gander
Kenneth Kammerer
James Kittelson
Lawrence G. Justin
Allen J. Lamm
Michael McGowan
Rick Palmateer
John A. Parizek
Jim Peterson (DLI Commissioner's designee)
Paul Sullwold
Ronald Thompson (MDH Commissioner's designee)

Members Absent:

None

Staff Present:

Cathy Tran
Jim Lungstrom
Wendy Legge
Annette Trnka
Brad Jensen
Brad Erickson
Chuck Olson

Visitors:

Jeff Keogh
Luther Westman
Gary Ford
Matt Marciniak
Gary Thaden
Tom Hamel

I. Call To Order

The meeting was called to order by Parizek at 9:35 a.m. Announcements and introductions were made.

II. Approval of Agenda

Changes in the Agenda were announced. Abrahamson made a motion, seconded by Sullwold, to approve the meeting agenda as amended. The vote was unanimous and the motion carried.

III. Approval of Previous Meeting Minutes

- A. April 21, 2009 Minutes
 - i. Gander made a motion, seconded by Kittelson, to accept the previous Minutes. The vote was unanimous and the motion passed.

IV. Regular Business

- A. Approval of Expense Reports
 - i. Chair stated that he had reviewed the expense reports and Per Diems and found them in order and declared them approved.

V. Committee Reports

- A. Executive Committee – Parizek reviewed the Executive Committee meeting held at 8:00 a.m.
- B. Product and Code Review Committee – Justin updated the Board on the previous meeting which was held June 23, 2009. Parizek stated he had met with representatives of IAPMO the previous week who have stated they would allow the Board to use their language of the 2006 UPC dealing with grease interceptors, as long as notation is made that it is used with the permission of IAPMO with a copyright statement. The language can be revised, with the accompanying copyright language. Outstanding RFAs were then reviewed. The next PCRC meeting is scheduled for September 22, 2009.
- C. Code Interpretation Committee – Gander gave an update on the April 29, 2009 meeting for which there had been a request for Final Interpretation. The Final Interpretation was published in the *State Register* on May 18, 2009. The Final Interpretation signed by Chair Gander is also on the Plumbing Board's website. Committee members Gander, Ames, Sullwold, Kittelson, Parizek and Peterson are present. Sullwold made a motion, seconded by Ames, to approve the previous Minutes. The vote was unanimous and the motion passed.
- D. Licensing and Registration Committee – Gander stated this Committee has not met since the last Board meeting.
- E. Green Committee – Parizek stated the Green Committee has not met since the last Board meeting.
- F. Water Conditioning Committee – Abrahamson stated the Water Conditioning Committee has not met since the last Board meeting.
- G. Construction Codes Advisory Council – Kammerer stated that he would give the Board an update at the October Board meeting.

VI. Special Business

- A. Elections (Peterson)
 - i. Chair – Gander made a nomination, seconded by McGowan, for Parizek for Chair. There were no further nominations. The vote was unanimous and Parizek was re-elected as Chair.
 - ii. Vice Chair – Sullwold nominated Justin, seconded by Kittelson, for Vice-Chair. There were no further nominations. The vote was unanimous and Justin was re-elected as Vice-Chair.

- iii. Secretary – Justin nominated Gander, seconded by Lamm, for Secretary. There were no further nominations. The vote was unanimous and Gander was re-elected as Secretary.
- B. Minnesota Plumbing Code – Board Action
 - i. Requests For Action
 - 1. 4715.1415,4715.1430 – 4715.0100 Definitions – Nonwater Urinals. Submitted 7-3-08 by Falcon Waterfree Technologies. (File PB0034) - Danny Gleiberman joined by telephone conferencing. Tom Hamel appeared in person. The Department introduced proposed rule language, which was then discussed. The Meeting broke at 10:41 and reconvened at 11:03 a.m.

Tom Hamel distributed a document titled “How The Liquid Seal Works” and its content was reviewed.

Kammerer made a motion, seconded by Justin, to approve the general concept of waterless urinals. The vote was unanimous and the motion passed.

Gander made a motion, seconded by Peterson, to end debate. The vote was Parizek, Gander, Abrahamson, Lamm, Ames, Sullwold, McGowan, Christenson, Kittelson, Kammerer, Palmateer, and Peterson voted Aye. Justin voted Nay. The 2/3 majority ruled and the motion passed.

Gander made a motion, seconded by Justin to approve the following language:

4715.0100 DEFINITIONS.

Subp. 38. Dead end. "Dead end" means a branch leading from a soil, waste, vent pipe, building drain, building sewer, **or water distribution branch,** and terminating at a developed length of two feet or more by means of a plug, cap, or other fitting.

The vote was unanimous and the motion passed.

Kammerer made a motion, seconded by Kittelson to exclude the following language:

Subp. XXX. Bell trap. “Bell trap” means a trap whose weir is located within and above the partition and whose vent would be below the weir of the trap.

The vote was Justin, Gander, Ames, Sullwold, McGowan, Christenson, Kittelson, Palmateer, Kammerer and Peterson voted Aye. Parizek, Abrahamson and Lamm voted Nay. The majority ruled and the motion passed.

Kammerer made a motion, seconded by Peterson to exclude the following language:

Subp. XXX. “S” trap. “S’ trap” means a trap with a shape similar to the letter “S” or “N” whose vent would be below the weir of the trap.

The vote was Justin, Gander, Ames, Sullwold, McGowan, Christenson, Kittelson, Palmateer, Kammerer and Peterson voted Aye. Parizek, Abrahamson, and Lamm voted Nay. The majority ruled and the motion passed.

Justin made a motion, seconded by Ames to accept the following language conditional of copyright permission from ASME for Standard A112.19.19 (2:006):

“Nonwater Urinal” means a plumbing fixture that is designed to receive and convey only liquid waste through a trap seal into the gravity drainage system without the use of water for such function.

The vote was unanimous and the motion passed.

Justin made a motion, seconded by Gander, to approve the following language:

4715.0200 BASIC PLUMBING PRINCIPLES.

S. Each fixture **other than a nonwater urinal** shall be provided with a separate, accessible, self-scouring, reliable water-seal trap placed as near to the fixture as possible.

The vote was Parizek, Justin, Gander, Lamm, Kittelson, Kammerer, and Peterson voted Aye. Abrahamson, Sullwold, McGowan, Christenson, and Palmateer voted Nay. Ames abstained. The majority did not rule and the motion failed.

Peterson made a motion, seconded by Ames to accept the following language:

4715.0910 TRAPS DESCRIBED.

Every fixture trap shall be self-cleaning. Traps for bathtubs, lavatories, sinks, showers, laundry tubs, urinals, drinking fountains, and similar fixtures, shall be of standard design and weight and shall be of lead, brass, cast iron, or other approved materials, and have a smooth and uniform interior waterway. **Metallic traps for nonwater urinals are prohibited.**

The vote was unanimous and the motion passed.

Justin made a motion, seconded by Gander to accept the following language:

4715.0920 TRAP PROTECTION.

All fixture traps, except as otherwise provided in this code, shall be protected against siphonage and back pressure by means of a properly installed vent pipe. The vent shall be so located that the developed length from the fixture trap to the vent shall not exceed the distance given in part 4715.2620, subpart 4.

The vent pipe opening from a soil or waste pipe, except for water closets and similar fixtures **and nonwater urinals**, shall not be below the weir of the trap. The trap arm direction may be changed by the use of not more than two 45 degrees or one 90 degrees long turn elbows.

The vote was Parizek, Justin, Gander, Lamm, Palmateer and Kammerer voted Aye. Abrahamson, Ames, Sullwold, McGowan, Christenson, Kittelson and Peterson voted Nay. The motion failed.

Justin made a motion, seconded by Gander, to accept the following language:

4715.0950 TRAP SEALS.

Fixture traps shall have a ~~water~~ **liquid** seal depth of not less than two inches and not more than four inches, except where, under special conditions, a trap with a deeper seal may be found necessary by the administrative authority.

The horizontal length of the seal of any fixture trap shall not exceed six inches where the waste pipe required is two inches or less in diameter.

Traps shall be set true and level with respect to their ~~water~~ **liquid** seals and where necessary shall be protected from freezing.

The vote was Parizek, Justin, Gander, Abrahamson, Lamm, Ames, Sullwold, McGowan, Kittelson, Palmateer, Kammerer, and Peterson voted Aye. Christenson voted Nay. The majority ruled and the motion passed.

Justin made a motion, seconded by Kammerer, to accept the following language:

4715.0960 TRAPS PROHIBITED.

No form of trap which depends for its seal upon the action of movable parts **or elastomeric membranes or concealed interior partitions** shall be used. **Fixture traps shall not have interior partitions, except where such traps are constructed of an approved material that is resistant to corrosion and degradation.**

The vote was Justin and Kammerer voted Aye. Parizek, Gander, Abrahamson, Lamm, Ames, Sullwold, McGowan, Christenson,

Kittelton, Palmateer, and Peterson voted Nay. The motion failed.

Gander made a motion, seconded by Abrahamson to accept the following language:

No form of trap which depends for its seal upon the action of movable parts, elastomeric membranes, or concealed interior partitions shall be used.

The vote was Parizek, Gander, Abrahamson, Lamm, Sullwold, McGowan, Kittelson, Palmateer and Peterson voted Aye. Justin, Christenson, and Kammerer voted Nay. Ames abstained. The majority ruled and the motion passed.

The meeting broke at 12:25 for lunch and reconvened at 1:27 p.m.

Ames made a motion, seconded by Justin, to add to first sentence of 4715.0960 to have it read: “, except as provided in part 4715.1430.” The vote was Parizek, Justin, Gander, Lamm, Ames, McGowan, Kittelson, Palmateer, and Kammerer voted Aye. Abrahamson and Christenson voted Nay. Sullwold abstained. Peterson did not return after lunch. The 2/3 majority ruled and the motion passed.

Justin made a motion, seconded by Kittelson, to approve the following language:

4715.1320 FLUSHING DEVICES FOR WATER CLOSETS AND URINALS.

Except for nonwater urinals, each water closet, urinal, clinical sink, or similar fixture shall be provided with a flushometer valve, flush tank, or similar device designed and installed so as to supply water in sufficient quantity and rate of flow to flush to the sewer the contents of the fixture to which it is connected to cleanse the fixture and refill the fixture trap.

A flushing device shall serve only one fixture with the exception that a single flush tank may be used to flush more than one urinal provided that the flushing cycle is controlled automatically and that each urinal or section thereof is thoroughly flushed. Automatically controlled flushometer valves may be substituted for flush tanks.

The vote was unanimous and the motion passed.

Justin made a motion, seconded by Kammerer to accept the following language:

4715.1430 NONWATER URINALS.

Subp. 1. Standards. Nonwater urinals shall comply with ASME A112.19.19.2006.

Subp. 2. Dilution of Waste Stream from Nonwater Urinals. Where a nonwater urinal is installed, a water supplied fixture shall be installed upstream of the nonwater urinal at the end of that same drainage branch.

Subp. 3. Maintenance and Cleaning. The owner of each nonwater urinal must ensure that the urinal is cleaned and maintained in strict compliance with the manufacturer's requirements.

The vote was Parizek, Justin, Gander, Abrahamson, Lamm, Ames, Sullwold, Kittelson, Palmateer and Kammerer voted Aye. McGowan and Christenson abstained. The 2/3 majority ruled and the motion passed.

Justin made a motion, seconded by Ames, to approve the following language:

4715.1720 DESIGN OF BUILDING WATER DISTRIBUTION SYSTEM.

The design of the building hot and cold water distribution system shall conform to good engineering practice. Methods used to determine pipe sizes shall be acceptable to the administrative authority. **Where nonwater urinals are used, the water distribution system shall be designed to allow for fixture replacement with water supplied fixtures.**

Parizek made a friendly amendment to add at the end of the last sentence "**without dead ends.**" This amendment was acceptable to Justin and Ames. The vote was unanimous and the motion passed.

Gander made a motion, seconded by Kittelson, to accept the following language:

4715.2300 LOAD ON DRAINAGE PIPING.

Subp. 3. **Table of fixture unit values for various plumbing fixtures.**

| Type of Fixture | Fixture Unit Value | Minimum Fixture Trap and Drain size |
|---|--------------------|-------------------------------------|
| <u>Nonwater urinal 1 1/2 inch waste arm</u> | <u>2</u> | <u>1 1/2</u> |

The vote was unanimous and the motion passed.

Justin made a motion, seconded by Gander, to add to 4715.0960 – at the end of the 2nd sentence “, **except for nonwater urinals.**”

The vote was Justin, Gander, Lamm, Ames, Sullwold, McGowan, Kittelson, Palmateer, and Kammerer voted Aye. Parizek, Abrahamson, and Christenson voted Nay. The 2/3 majority ruled and the motion passed.

Gander made a motion to remove the words “water seal” from 4715.0200(S, seconded by Abrahamson. The vote was unanimous and the motion passed.

Kittelson made a motion, seconded by Kammerer, to accept the following language:

4715.0900 FIXTURE TRAP REQUIREMENTS.

Each plumbing fixture, except those having an integral trap **and nonwater urinals**, shall be separately trapped by a water seal trap, installed as close to the fixture as possible, and in such a manner as to be readily accessible for cleaning and repairing.

A single trap may serve a two or three compartment sink or laundry tray. The trap shall be located not more than 30 inches from each compartment outlet. The vertical distance between the fixture outlet and the trap weir shall be as short as possible, but in no case more than 24 inches in length.

No food waste disposal unit shall be installed in a set of restaurant, commercial, or industrial sinks, served by a single trap. Each such disposal unit shall be individually trapped and connected to a separate waste opening. Each trap

shall have the manufacturer's name or identification stamped legibly thereon and each tubing trap shall show the gauge of the tubing used in its manufacture.

Each nonwater urinal shall be separately trapped by a liquid seal, which is protected from odor escape or evaporation of the trap contents by a non petroleum lighter than water sealant

The vote was unanimous and the motion passed.

The meeting broke at 3:10 and reconvened at 3:19 p.m.

2. 4715.2430, 4715.2240 – Macerating Toilet Systems. Submitted 7/22/08 by Saniflo Inc. (File PB0035) – Bob Lechner joined by conference call. Justin gave a review of the discussions at the Product and Code Review Committee, which included a four to one vote to pass this RFA to the Board with a recommendation to approve.

Lamm made a motion, seconded by Ames, to accept the following language:

4715.2440 DESIGN OF SUMPS

Subp. 2. Discharge line. The discharge line from such pumping equipment shall be provided with an accessible backwater valve and gate or full port ball valve, and if the gravity drainage line to which such discharge line connects is horizontal, the method of connection shall be from the top through a wye branch fitting. The minimum size of any pump or discharge pipe from a sump having a water closet connected thereto shall not be less than two inches, except that the discharge line of a macerating toilet system shall not be less than ¾ inch.

Subp. 5. Single-family dwellings. In single-family dwellings the minimum capacity of a sump other than a macerating toilet system shall be 18 gallons.

Sup. XX. Macerating Toilet System. Macerating toilet systems shall comply with ASME A112.3.4 and shall be installed in accordance per the manufacturer's recommendations. Not more than one bathroom group consisting of a toilet lavatory, and a shower or bathtub may discharge into a macerating toilet system. A macerating toilet system may only be installed in one- or two-single family dwellings when gravity flow is not possible. Components of macerating toilet systems shall be accessible.

4715.0100 DEFINITIONS:

Subp. xxx. Macerating toilet system. “Macerating toilet system” means a system consisting of a toilet and a sump with a macerating pump. The system is intended to receive and break waste from a toilet, bathtub or shower and a lavatory, into pieces of fine slurry and pump to the building drainage.

The vote was Parizek, Justin, Gander, Lamm, Ames, Sullwold, McGowan, Christenson, Kittelson, Palmateer and Kammerer voted Aye. Abrahamson voted Nay. The majority ruled and the motion passed.

3. 4715.2110 I: Vista Clear Dental Units. Submitted 1-30-07 (File PB0012). Lamm made a motion, seconded by Justin, to table this RFA to the next meeting. The vote was unanimous and the motion passed.

- C. Department Updates/Comments –
 - i. Commissioner's Designee – in Peterson's absence, Legge gave an update regarding the Assistant to the Board's time and gave notification that the Minutes will no longer be done in transcript format, rather they will only give highlights.
 - ii. Legislative – Legge gave a legislative update.
- D. Committee Appointments (Chair)
 - i. Product and Code Review Committee – Chair Parizek appointed Peterson, Parizek, Abrahamson, Lamm, and Justin to the Committee. Justin is appointed Chair of the Committee.
 - ii. Code Interpretation Committee – The Chair appointed Peterson, Parizek, Sullwold, Kittelson and Gander to the Committee. Gander is appointed as Chair of the Committee.
 - iii. Licensing and Registration Committee – The Chair appointed Gander, Ames, Sullwold, Abrahamson, Peterson and Parizek to the Committee. Gander is appointed as Chair of the Committee.
 - iv. Green Committee – This Committee will be dissolved and any future issues will be referred to the Product and Code Review Committee.
 - v. Water Conditioning Committee – The Chair appointed Parizek, Abrahamson, Sullwold, Lamm and Peterson to the Committee. Abrahamson is appointed as Chair of the Committee.
 - vi. Construction Codes Advisory Council – Kammerer was confirmed as the Board's representative member on the Council. Kammerer's alternate is Gander.

VII. Complaints

There was one complaint submitted to the Board which was referred to the Department of Labor and Industry.

VIII. Open Forum

Legge gave an update on the rulemaking and also possibilities for the 2010 legislative session. She then stated that the Notice of Adoption for Chapter 4715 and 4716 was published in the *State Register* on June 15, 2009. Chapter 4715 became effective on June

22, 2009 and Chapter 4716 will become effective October 26, 2009. This information can be accessed on the Board's website at <http://www.dli.mn.gov/pb.asp>.

IX. Board Discussion

There was no further Board discussion.

X. Announcements

- A. Next Regularly Scheduled Meetings:
- i. Tuesday, October 20, 2009, 9:30 a.m. – Minnesota Room, DLI
 - ii. Tuesday, January 19, 2010, 9:30 a.m. – Minnesota Room, DLI

XI. Adjournment

Abrahamson made a motion, seconded by Lamm, to adjourn the meeting. The vote was unanimous, and the motion passed. The meeting adjourned at 4:05 p.m.

Respectfully Submitted,

Jim Gander

Jim Gander