

Plumbing Board
Product and Code Review Committee – Meeting Minutes
March 8, 2011 – 9:30 a.m.
Department of Labor and Industry
443 Lafayette Road No., Saint Paul, MN 55155-4344
DLI.CCLDBOARDS@State.MN.US

Committee Members Present:

John A. Parizek
Lawrence Justin
Jim Lungstrom
Allen Lamm

Staff Present:

Cathy Tran

Visitors via Teleconference:

Cole Perkins; Perma-Liner

Committee Members Absent:

Karl Abrahamson

Visitors:

Ron Thompson; MDH
Luther Westman
Jeff Keogh; City Of Chanhassen
Matt Marciniac; IAPMO

Board Members Present:

Ron Thompson

I. Call To Order

The meeting was called to order by Chair Justin at 9:30 a.m. Announcements were made and introductions were done.

II. Approval of Meeting Agenda

Allen Lamm made a motion, seconded by John Parizek, to accept the Agenda. The vote was unanimous and the motion passed.

III. Regular Business

- A. December 7, 2010 Minutes – John Parizek made a motion, seconded by Allen Lamm, to accept the 12/7/10 Meeting Minutes. The vote was Four (4) Ayes and the motion passed.
- B. Expense Reports – John Parizek stated that he has approved the expense reports and Per Diems that he has received.

IV. Special Business

A) RFA's

- 1. **Update on 4715.0420 Stainless Steel Pipe meeting ASTM A240 by Easyflex (File PB0041 submitted 5/26/09; reviewed at 9/22/09, 3/23/10, 6/15/10 and 9/21/10 PCRC meetings. Email request sent on 11/17/10 and 2/14/11).**

For Committee Review

Motion by Lawrence Justin, seconded by Jim Lungstrom:

As per the motion at the 12/7/10 PCRC Meeting, the Chair has not heard back from the Presenter, thus the RFA is closed.

Vote – 4 Aye, 0 Nays; unanimous approval of motion.

2. Perma-Liner Industries by Cole Perkins (File PB0059 submitted 12/20/10).

Cole Perkins presented via Teleconference.

Requesting product to be allowed under 4715.0330 for sewer only (have used on vents), not water use. Covered product history, certifications, standards and testing.

The following was covered by Mr. Perkins:

1. Level of effort done to pre-clean the piping does affect final result.
2. Epoxy mix curing time is based on ambient air temperature.
3. Perma-Liner has a 50 year warranty when installed by Certified installers in gravity sewer.
4. Failures resulted when installation and cure times did not meet manufacturer's requirements.
5. Does resin bond to pipe: Typically no (for Clay or Cast Iron, bonding will be based on roughness). Forms a tight seal to the existing pipe.
6. When there is water or other debris in the pipe, what is done? The bladder works like a squeegee and pushes it ahead.
7. Steam cleaning: High temperature limit on liner is 180-190 deg. F. with 200 deg. F. for limited time. Need to have labeling with warning about using excessive heat.
8. Perma-Liner requires mandatory Training and Certification and is provided by Perma-Liner.
9. Is this a system? Perma-liner products can be interchangeable with other manufacturer's products.
10. Are there limitations of multiple lining? Unlikely due to decrease of pipe size and reduced diameter would not match liner diameter.
11. Perma-liner and ASTM standard requires a pre and post video.
12. Is listed under ASTM F1216-2007.
13. IAPMO Listing is C (Classified-meets Standard but not approved in body of Code; alternative method): Will be making proposal to be in 2015 UPC; missed deadline for 2012.
14. DOH recommends for the standards be listed in 4715.0420.
15. City of Duluth submitted a letter outlining some failures to the system. Perma-liner is aware of the issues and is looking at it and testing samples. Failures were all from the same Contractor and batch.

Motion by Larry Justin, seconded by Allen Lamm:

Presenter to provide the following material for PCRC review:

1. Submit additional samples showing 22-45-90 fittings, end of and beginning of run, sanitary wyes, clean-out coordination, cut-outs.
2. Installation video.
3. Provide copy of Standard ASTM F1216-2009.
4. Provide ASTM F1216-2009 testing results.
5. Respond to City of Duluth failures. (**DLI to provide letter**)
6. **Matt Marciniac**, IAPMO, will provide clarifications of IAPMO's "C" listing.

Vote – 4 Aye, 0 Nays; unanimous approval of motion.

Information should be delivered to DLI by May 21, 2011.

3. Water Softener drain to Floor Drain in center of room (File PB0057 submitted 8/31/10).

The submitter of the RFA was not present and requested DLI staff to present. Cathy Tran, DLI Staff, presented the RFA. The RFA covered a concern on using a floor drain for the water softener drainage when floor drain is located in the center of the room. It can become a tripping hazard.

4715.5300 Equipment Drains notes that existing floor drains are acceptable fixtures for water softener drain.

Committee Chair read Mike McGowen's (Plumbing Board member) email response (recommend vented stand-pipe specifically for water conditioning).

Committee discussed issue and acknowledges this is an issue.

Motion by John A. Parizek, seconded by Allen Lamm:

Move to Water Conditioning Committee for language review and coordination regarding receptors. Refer to 4715.5300 for language.

Vote – 4 Aye, 0 Nays; unanimous approval of motion.

PCRC requested Staff to contact the submitter of the RFA update.

4. DLI Proposed amendments (File PB0060 submitted 1/3/11).

The Committee made the following recommendations (in red):

4715.1380 SHOWERS.

Subp. 5. **Anti-scald control devices.** A shower or combination shower-bath in a new or remodeled installation must be equipped with an individual ~~an anti-scald type~~ shower control valve that provides scald and thermal shock protection. The valve must be of the

thermostatic balancing, pressure-balancing, or combination of thermostatic and pressure-balancing in accordance with ~~ANSI/ASSE Standard 1016-96~~.

The temperature of mixed water to multiple showers must be controlled by either a master ~~anti-scald type~~ thermostatic blender that provides scald and thermal shock protection in accordance with ASSE 1069, or the showers must be individually equipped with control valves meeting ASSE Standard 1016 ~~with approved anti-scald type shower control valves~~.

4715.1590 RECEPTORS OR SUMPS.

Subpart 1. **Installment.** Except for clothes washers located in bathrooms of single-family dwellings or private use living units, ~~W~~waste receptors or sumps receiving the indirect waste shall not be installed in any toilet room, nor in an inaccessible or unventilated space; ~~such as a closet or storeroom~~.

4715.2100 BACKFLOW PREVENTERS.

A. Atmospheric vacuum breaker (AVB):

(4) no more than ~~eight~~ twelve hours of continuous line pressure permitted; and

C. Spill-proof vacuum breaker (SVB):

(1) must be installed at least ~~six~~ twelve inches above spill line;

G. Double-check valve assembly (DCVA):

(4) must be listed to ASSE Standard 1024; and ~~(Staff to confirm on a possible conflict with ASSE 1024).~~

4715.2300 LOAD ON DRAINAGE PIPING.

Subp. 3 (STRIKE OUT Trough Urinal)

Motion by Larry Justin, seconded by John A. Parizek:

~~Pass RFA with recommended revisions and understanding that staff will review 4715.2100 to the Plumbing with recommendation for approval.~~

Vote – 4 Aye, 0 Nays; unanimous approval of motion.

- 5. Update on State of MN adopt into its Plumbing Code Chapter 5 of the new 2010 IAPMO Green Plumbing & Mechanical Supplement. The title of this chapter is "Alternate Water Sources for Non-Potable Applications." (File PB0051 submitted 3/24/10; reviewed at 12/7/10 PCRC meetings).**

DLI Staff reported on progress:

Rainwater harvesting needs to be defined to be determined if part of plumbing system.

Define alternate water source and list rainwater harvesting as one source.

Licensing and permitting will need to be removed/clarified.

Minimum quality standards still needs to be worked out.

Will have an updated RFA in front of the PCRC for the 6/21/11 meeting.

6. PEX Standards by Bill Chapin/Cash Acme (File PB0053 submitted 5/12/10).

Bill Chapin presented via Teleconference.

Request is to eliminate the requirement of being installed "...by a factory trained installer...". This is not required when other piping material is used.

Request was also to omit "...ASTM..." from certification requirement. Not all standards are ASTM.

Motion by John A. Parizek, seconded by Allen Lamm:

Presenter shall provide installation manual and input from additional PEX manufacturers for presentation at the June 21, 2011 PCRC.

Vote – 4 Aye, 0 Nays; unanimous approval of motion.

V. Open Forum

There were no requests for Open Forum.

VI. Discussion

There were no further discussions.

VII. Announcements

A. Next Regularly Scheduled Meeting:
June 21, 2011, 9:30 AM – Minnesota Room, DLI

XI. Adjournment

The meeting was adjourned at 3:15 p.m.

Respectfully Submitted,

Lawrence Justin

Lawrence Justin