

Plumbing Board
Product and Code Review Committee – Meeting Minutes
December 7, 2010 – 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:

Alan Shulman; Next Level
Bill Klapproth; Next Level
David Weisz, P.E.; UV-System Inc.
Eric Strand; UV-System Inc.

Committee Members Absent:

Karl Abrahamson

Visitors:

Chuck Higgins
Jay Stenklyft
Joe Ross
Brian Soderholm
Laura Millberg
Matt Marciniac
Jeffrey Waterman
Jeff Tyler
Rick Specken
Craig Johnson
Bill Zukowski
Gary Thaden
Tom Pahkala
Luther Westman
Eric Van Den Heuvel

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

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

III. Regular Business

- A. September 21, 2010 Minutes – John Parizek made a motion, seconded by Jim Lungstrom, to accept the 9/21/10 Meeting Minutes. The vote was three (3) Ayes and one (1) abstention and the motion passed.
- B. Expense Reports – John Parizek stated that he has approved the expense reports and Per Diems that he has received.

Committee Approved 3/8/11

IV. Special Business

A) RFA's

- 1. 4715.1900 Prohibit water powered sump pumps by Bill Klaproth and Alan Shulman (Phone) and Joe Ross, Next Level (File PB0048 submitted 2/22/10; reviewed at 6/15/10 PCRC meeting).**

Presenter covered their RFA and supporting documentations.

Jeffrey Waterman, Liberty Pumps, covered their opposition to the prohibition of water powered sump pumps.

DLI staff did not have any comments.

Product and Code Review Committee comments: Noted locations in the Plumbing Code where product installation meets the intent of the code.

There were some public comments concerning national code language and green building concerns.

Motion by Allen Lamm, seconded by John Parizek:

Pass the RFA as written onto the Plumbing Board for discussion without recommendation from the PCRC.

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

- 2. 4715.2790 Siphonic Roof Drains (File PB0044 submitted 8/23/09; reviewed at 12/1/09 and 6/15/10 PCRC meeting).**

Presented by Jay Stenklyft of Tyler Pipe/Wade Drain and Chuck Higgins of RJ Higgins. Eric Strand and David Weisz UV-System Inc. participated by Teleconference.

Chair reviewed the 1/4/11 letter.

The Presenter provided a flash drive with supporting documentation.

DLI Comments: Met with Presenter to discuss language and agree with what is presented.

David Weitz noted that Third party certification agency may not be available; suggested to remove the last sentence of 2B. Presenter noted that their software is not certified as noted in the language.

After further extensive discussion, the following language was agreed upon:

4715.2790 SIPHONIC ROOF DRAINAGE SYSTEM

Subp. 1 General requirements. In lieu of sizing the storm drainage system from conventional methods as described part 4715.2710, the roof drainage may be designed as an engineered siphonic roof drainage system when approved by the administrative authority, including meeting all the conditions of Subps. 2 and 3.

Subp. 2 Design Criteria. The siphonic roof drainage system must be designed and certified by a professional engineer licensed in the State Minnesota.

- A. The system must be sized on the basis of a minimum rate of rainfall of four inches per hour;
- B. The drainage system must be designed in accordance with American Society of Plumbing Engineers (ASPE) Design Standard, Chapter 45, Siphonic Roof Drainage, and in accordance with the manufacturer's recommendations and requirements.
- C. Roof drains must meet ANSI/ASME A112.6.9, Siphonic Roof Drains;
- D. When designed for water accumulation, the roof must be designed for the maximum possible water accumulation in accordance with the Minnesota Building Code, Chapter 1305 and 4715.2780, subpart 1 C.
- E. Minimum pipe size must be 1 1/2 inches. All other pipe size and cleanouts in the drainage system must be designed and installed in accordance with ASPE 45.
- F. Horizontal pipe size must not reduce in the direction of flow.
- G. The plans and specifications for the drainage system shall indicate the siphonic roof drainage system as an engineered method used for the design.
- H. The installed drainage system must be permanently and continuously marked as a siphonic roof drainage system at approved intervals and clearly

at points where piping passes through walls and floors. Roof drains must be marked in compliance with ASME A112.6.9.

- I. The transition location from the siphonic roof drainage system to a gravity system must be determined by the design engineer at a location acceptable to the Administrative Authority. The design, sizing, and venting of the transition location must be in accordance with ASPE45. The velocity at the transition location to gravity shall be reduced to less than 3 ft/s. The gravity portion of the building storm sewer system receiving the siphonic roof drainage system must be sized for the design rate but no less than a rainfall rate of 4 inches per hour and in accordance with Minnesota Rules, part 4715.2710.
- J. All plans, specifications, and calculations must be submitted to the Administrative Authority, signed, and sealed by the designing engineer. The submitted calculations must include performance data for the drainage system for the required rainfall rate, including the minimum and maximum calculated operating pressures and velocities verifying that the design solution is within the operating parameters required by the design standard. All performance data must be reported as the extreme maximum and minimum calculations and shall not be presented with “averaged” data.

Subp. 3 Proof of Suitability Upon completion of the project, proper tests, inspections, and system certification must be performed as prescribed in A and B.

- A. Testing as per ASPE Standard 45.
- B. Prior to the final plumbing inspection, the design engineer must provide written certification to the administrative authority that the system has been visually inspected by the designing engineer and the installation has been properly implemented in accordance with the certified design, plans, calculations, and specification. The submitted written certification must include any field modification from the initial design involving dimensions, location or routing of the siphonic drainage system which must be re-approved and re-certified by the engineer and be accompanied by a final as-built design of the altered system and supported by calculated data to show that the overall system remains in accordance with ASPE 45.

Motion by Larry Justin, seconded by Allen Lamm:

Pass the revised RFA language on to the Plumbing Board with recommendation for approval with the understanding that Subp. 2B would be reviewed by Staff and report to Plumbing Board concerning the deletion of the last sentence.

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

- 3. 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; initial PCRC review).**

Brian Soderholm, Presenter, covered the RFA with a power-point presentation. Letters of support were also presented to the Committee.

DLI Comments: Licensing conflicts need to be addressed.

Extensive discussion followed.

Motion by Larry Justin, seconded by John Parizek:

Staff to meet with Presenter and IAPMO representative to review the Chapter 5 Language and report back to the March 8, 2011 PCRC on areas that are applicable (GPMCS 505 Non-Potable Rainwater taking precedence).

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

- 4. 4715.0420 Stainless Steel Pipe meeting ASTM A240 by EasyFlex (Tele-Conference) (File PB0041 submitted 5/26/09; reviewed at 9/22/09, 3/23/10 and 6/15/10 PCRC meetings).**

The Chair noted that he did not send a letter to Easy Flex after the 9/21/10 meeting. He did send an email with no response received. The Chair felt that since he did not complete send the letter as noted, that the Presenter should be allowed another chance to respond.

Motion by John Parizek, seconded by Allen Lamm:

Chair to notify EasyFlex on items the PCRC needs in order for RFA to proceed. If information is not received for the 3/8/11 PCRC, RFA is closed.

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:
March 8, 2011, 9:30 AM – Minnesota Room, DLI

XI. Adjournment

A motion was made by John Parizek, seconded by Jim Lungstrom to adjourn the meeting. The vote was unanimous and the motion passed. The meeting adjourned at 3:15 p.m.

Respectfully Submitted,

Lawrence Justin

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