

Plumbing Board
Product and Code Review Committee – Meeting Minutes
December 1, 2009 – 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
Karl Abrahamson
Jim Lungstrom, DLI Commissioner's Designee

Staff Present:

Mary Miller
Jim Peterson
Cathy Tran

Board Members Present:

Rebecca Ames
Ronald Thompson (MDH Commissioner's designee) Bob Nicol

Committee Members Absent:

Allen Lamm

Visitors:

Wendy Legge
Chuck Higgins
Luther Westman
Bill Bliss
Brian Soderholm
Shane Urness
Paul Dreher
Chuck Olson
Brad Erickson

Visitors via Teleconference:

Charlie Ismert
Silvano Ferrazo

I. Call To Order

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

II. Approval of Meeting Agenda

Justin proposed a revision to the agenda. Parizek made a motion, seconded by Abrahamson, to accept the revised Agenda. The vote was unanimous and the motion passed.

III. Regular Business

- A. September 22, 2009 Minutes – Abrahamson made a motion, seconded by Parizek, to accept the 9/22/09 Meeting Minutes. The vote was unanimous and the motion passed.
- B. Expense Reports – Parizek stated he had reviewed the expense reports and Per Diems, found them in order and declared them approved.
- C. Wendy Legge introduced Mary Miller who will be taking over General Counsel duties for the Plumbing Board. Thank You Wendy for all of your efforts and Welcome Mary.

IV. Special Business

- A. Chair requested General Counsel to review Statute and provide opinion on the intent for DLI assistance to the Board and all Board activities, including Committee meetings.

Legge noted that request may be outside of Committee Bylaw. DLI General Counsel staff has a conflict of interest and recommends the Board request General Counsel Assistance from the AG office.

Parizek made a motion, seconded by Lungstrom, to have this brought to the Executive Committee for comment and direction. The vote was unanimous and the motion passed.

- B. RFA's
 - 1. 4715.0810. Go Aerosol Spray Weld for PVC pipe. (File PB0042 submitted 6-22-09.
Presented by Bob Nicol.

The RFA did not request a code change due to the Presenter's belief that the product presently meets the Minnesota Plumbing Code. The Presenter wanted to make DLI and the industry aware of their product. The Presenter delivered a presentation and handout that showed the procedure of how to apply the product and described the product. The product is a one-step delivery system, not a one-step solvent cement. The product was noted to deliver a uniform process that ensures the PVC surface is first cleaned and primed before the pipe is chemically welded. It was noted that by using this product, the solvent does not evaporate prematurely. The product has all three steps in one product.

Presenter noted and submitted documentation that the product complies with the requirements of ASTM D2564-04e1, ASTM F656-96a and NSF/ANSI 61-2007a. The product is certified and listed by IAPMO with a "classified listing". The "classified listing" signifies a new product that meets the intent and purpose of the plumbing code and standard. The product was

noted to have lower VOC's than what is typically used. All testing of the product to standard was done at room temperature.

Question was asked if there were any other chemicals than what is listed in the handout. Mr. Nicols noted that the propellant is scrubbed propane with no odorant.

DLI presented their comments that were sent to Mr. Nicol on 11/12/09. The DLI interpretation is that it does not meet code section 4715.0810 Subp. 2 due to separate steps called for in the section. DLI prefers a separate standard be provided for the product, but one is not available so a mixture of standards will need to be considered. DLI noted that the Code section 4715.0810 may need to be revised to include this product in the "Exception" section since the product does not meet the body of the code.

There were no Public comments.

Committee members noted that further information is needed in order to fully consider the RFA, thus no Motion was made.

The Committee Chair will send a letter to the presenter with the following requests to be provided at the next PCRC meeting:

- A. Provide a sample and show the installation procedure in the next presentation.
- B. Provide confirmation that it meets NSF-14 (the product was noted to meet NSF-61 – but does it meet 14?)
- C. Provide documentation on which pipe diameters the product is listed for.
- D. Presenter is to submit two (2) copies to DLI of the most current copy of ASTM F656 (Standard Specification for Primers for use in Solvent Cement Joints of Poly Vinyl Chloride (PVC) Plastic Pipe and Fittings), ASTM D3138 (Solvent Cements for Transition Joints Between Acrylonitile-Butadiene-Styrene (ABS) & Poly Vinyl Chloride (PVC) Non-Pressure Piping Components) and ASTM D2564 (Standard Specification for Solvent Cements for Poly Vinyl Chloride (PVC) Plastic Piping Systems). Please be aware of the copyright on the standards.
- E. If the intent of the Presenter is for the product to be allowed for use on ABS, please submit two (2) copies to DLI of the most current copy of and ASTM 2235 (Standard Specification for Solvent Cement for Acrylonitile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings). Please be aware of the copyright on the standards.
- F. Confirm that ASTM F656-96a was the current standard when tested in 2008 (CTL Report #08310389COL).
- G. Present the RFA on the new form (refer to <http://www.dli.mn.gov/pb.asp>)

- H. Refer to Plumbing Code section 4715.0860 Subp. 6 - Transition couplings – a mechanical joint is called for in this section. If the Presenter's intent is to use transition cement in lieu of coupling; this section needs to be addressed.
 - I. It was noted to the Presenter that the Plumbing Board accepts standards, not products. Language needs to note such.
2. 4715.0420, Subp. 6C Polyethylene Pipe for Building Sewer. (File PB0045, submitted 6-18-09.)
Presented by Paul Dreher.

Presenter provided a 5 minute presentation describing the product and installation procedure. Presenter noted that piping is used for insertion in existing pipe (sliplining), directional boring as well as open trenching conditions.

DLI and Committee Comments and Questions:

- Installation method needs to be addressed. Section 4715.0530G calls for plastic piping to be laid on a continuous granular bedding and the RFA needs to address this issue.
- Presenter noted that the product can be used in sliplining. Committee needs either the Standard or supporting documentation for sliplining.
- Presenter noted that the product can be used in directional bore (ASTM F1962 - Standard Guide For Use of Maxi-Horizontal Directional Drilling for Placement of Polyethylene Pipe or Conduit Under Obstacles, Including River Crossings). The Committee needs either the Standard or supporting documentation.
- A question was asked concerning the gravity fittings. Presenter noted that they are typically made in the field. The concern was if the fittings meet a drainage pattern fittings standard. Submitted documents note that they meet applicable fitting standards ASTM D2683 and D3261.
- The butt welded fittings leave a relatively small "bump" at the weld. The Committee will need to further discuss this to determine if this is an issue.
- A concern was expressed regarding the reduction in size in direction of flow. The pipe sizing is based on outside diameter not interior diameter; so when used to replace a similar pipe size for joining reasons, the pipe interior diameter is reduced.
- Please submit two (2) copies to DLI of the most current copy of any pertinent Material and Installation Standards that the pipe meets.
- DLI prefers to add installation standard for the product.
- HDPE for water service (4715.0510) is not part of the RFA and a separate RFA should be submitted if water service approval is desired.

There were no Public comments.

Committee members noted that further information is needed in order to fully consider the RFA, thus no Motion was made.

The Committee Chair will send a letter to the Presenter with the following requests to be provided at the next PCRC meeting:

- A. Address the concern expressed on installation methods. Section 4715.0530G calls for plastic piping to be laid on a continuous granular bedding and the RFA needs to address this issue.
 - B. Submit either Standard and/or supporting documentation for sliplining.
 - C. Submit either Standard and/or supporting documentation for directional bore installation (ASTM F1962?).
 - D. Submit and report back to the Committee on the Manufacturer's recommendation on drainage fittings and if the fittings meet drainage pattern fittings standards. Submit Standard.
 - E. Submit any documentation concerning the issue of the "bead" at the butt weld and if this restricts/blocks gravity flow. Also, does the Manufacturer recommend to remove the bead for a smooth interior?
 - F. Address the concern expressed regarding the reduction in size in direction of flow when joining to other pipe materials.
 - G. Provide documentation on the pipe rating (SDR) and minimum level provided.
 - H. Address in 4715.0530 the use for pressurized sewers. A separate RFA may be needed.
 - I. Contact and coordinate with DLI staff regarding any Standard coordination. (Note: DLI staff prefers installation Standard for each method.)
 - J. If HDPE use for water service (4715.0510) is desired, submit a separate RFA. Also, a separate RFA should be submitted if water service approval is desired.
3. 4715.1115. Exterior Grease Interceptors by Schier Products in conjunction with Green Turtle (Proceptor). (File PB0037, submitted 1-15-09; reviewed on 1-28-09; 4-29-09; 6-23-09; and 9-22-09 PCRC meetings and 10-20-09 Plumbing Board meeting.)

At the October Plumbing Board Meeting DLI staff was directed to review and revise the Presenter's language to meet Minnesota code language.

Charlie Ismert (Schier) and Silvano Ferrazzo (Green Turtle) participated via teleconference (Presenters).

DLI presented their language and the Presenters recommended revised language in a titled "11/23/09 DLI Draft". Both DLI and Presenters explained their reasoning. General Counsel noted that they have not had a chance to fully review. The Committee discussed the presented languages.

There were no Public comments.

Committee Motions:

1. Subp 3: DLI recommended to add the UPC Table 10-2 and the Presenters recommend to keep the "Hydromechanical Interceptor(s) Using Fixture Capacity" example for sizing. Although there was no official motion, the Committee agreed to include both Table 10-2 and Example for Sizing.
2. Subp 3: Motion by Justin, seconded by Parizek: Recommend Presenter revise language to accommodate two (2) design options – Part A on pipe size (Table 10-2) and Part B (Example for Sizing) fixture capacity design based on 1 minute drainage period. DLI Staff to revise language in the third paragraph to accommodate both designs. The vote was Parizek, Justin and Lungstrom voted Aye. Abrahamson abstained. The majority ruled and the motion passed.
3. Subp. 4: Motion by Parizek, seconded by Abrahamson, to remove note 2 from the "Gravity Interceptor Sizing Using Fixture Capacity" table. Renumber table and notes accordingly. The vote was unanimous and the motion passed.
4. Subp. 5: Presenters recommended revising DLI's language as follows:

Subp. 5. Protective Treatments. Grease interceptors constructed of metal, concrete, or other materials subject to corrosion shall have protective treatment in accordance with the following: ~~manufacturer's requirements.~~

A1. – Steel grease interceptors must be coated externally and internally with a 1.5 to 2.0 mil thick epoxy or equivalent (CSA B481 (2007), paragraph 2).

A2. – Concrete grease interceptors must have protective treatment of entire internal compartment per the PCA (Portland Cement Association) Publication titled "Effects of Substances on Concrete & Guide to Protective Treatments" outlined in the "Protective Treatments" section, for corrosion protection against substances commonly found in commercial Food Service Establishments. Substances include but are not limited to fats, oils, grease, fatty acids, cleaners and degreasers, vinegar, sugars, salts, Hydrogen Sulfide and its associated compounds.

Justin made a motion, seconded by Parizek, to have DLI Staff review Presenter recommended language for A1 steel grease interceptor

concerning the 1.5-2 mil thick epoxy coating or list standard and report back to Committee. The vote was unanimous and the motion passed.

The Committee Chair will send a letter to both the Presenter and DLI with the following requests to be provided at the next PCRC meeting:

A. **DLI's General Counsel shall review the proposed language and provide comment.**

B. Subp. 1: May need to be revised to meet Reviser language. Has been reviewed and written by General Counsel and will wait for IAPMO approval.

DLI's General Counsel shall review and provide comment.

C. Subp. 3: Presenters are recommended to revise “shall comply with” in the first sentence to "shall be certified to" in order to match the Standards language. DLI Staff noted that “shall comply with” is consistent with current code; but may need rewording to meet the Standard's language.

Presenters and DLI staff shall both provide written reason for their recommended language.

D. Subp 3:
DLI shall revise language to include both UPC Table 10-2 and the "Example of Sizing Hydromechanical Interceptor(s) Using Fixture Capacity" and provide revised language to Presenter and PCRC for review.

E. Subp 3: As per Motion noted above, DLI Staff to revise language in the third paragraph to accommodate two (2) design options – Part A on pipe size (Table 10-2) and Part B (Example for Sizing) fixture capacity design based on 1 minute drainage period.

DLI staff shall provide revised language to Presenter and PCRC for review.

F. Subp. 4: Presenters are recommended to revise “shall comply with” in the first sentence to "shall be certified to" in order to match the Standards language. Staff noted that “shall comply with” is consistent with current code, but may need rewording to meet the Standard's language.

Presenters and DLI staff shall both provide written reason for their recommended language.

- G. Subp. 4: As per Motion noted above, remove note 2 from the "Gravity Interceptor Sizing Using Fixture Capacity" table. Renumber table and notes accordingly.

DLI staff shall provide revised language to Presenter and PCRC for review.

- H. Subp.5: As per Motion noted above, DLI Staff to review Presenter recommended language (see below) for A1 steel grease interceptor concerning the 1.5-2 mil thick epoxy coating or list standard and report back to Committee.

Subp. 5. Protective Treatments. Grease interceptors constructed of metal, concrete, or other materials subject to corrosion shall have protective treatment in accordance with the following: manufacturer's requirements.

A1. – Steel grease interceptors must be coated externally and internally with a 1.5 to 2.0 mil thick epoxy or equivalent (CSA B481 (2007), paragraph 2).

A2. – Concrete grease interceptors must have protective treatment of entire internal compartment per the PCA (Portland Cement Association) Publication titled "Effects of Substances on Concrete & Guide to Protective Treatments" outlined in the "Protective Treatments" section, for corrosion protection against substances commonly found in commercial Food Service Establishments. Substances include but are not limited to fats, oils, grease, fatty acids, cleaners and degreasers, vinegar, sugars, salts, Hydrogen Sulfide and its associated compounds.

DLI staff shall provide written response as noted above. Presenters shall provide the date of the PCA Publication. Presenters shall submit two (2) copies to DLI of the most current copy of CSA B481.

4. 4715.2790 (New section) Siphonic Roof Drains (File PB0044, submitted 8-23-09.)

Presented by Jay Stenklyft of Tyler Pipe/Wade Drain. Mr. Stenklyft provided a 5 minute PowerPoint presentation – described product and installation procedure. Members can refer to www.Hydromax.com, the FAQ tab for answers to frequently asked questions on Siphonic roof drain systems.

Committee question:

Which Standard does the system meet?

Answer: ASPE 45 for system and ASME A112.6.9-2005 for Siphonic Roof Drains. Both have been included in submitted materials.

DLI Comments:

Subp. 1A: Concern on overflow with Siphonic. Need to confirm Minnesota Building Code.

Is manufacturer training available?

Answer: Yes, it is available and assistance is available.

Water depth before Siphonic occurs (ponding)?

Answer: 3.4"

Is the software certified?

Answer: Not required by standards and each individual manufacturer has their own.

What about expanding the system if an addition occurs?

Answer: Can connect to, but will need to redo the design.

There were no Public comments.

Motion:

Justin made a motion, seconded by Parizek, to have Presenter language passed onto DLI staff for review and coordination of language and with other Minnesota code sections. Review concerning plan review and inspection procedures. Review concerning building code (1305) coordination. Present at the next PCRC meeting. The vote was unanimous and the motion passed.

V. Open Forum

There were no requests for Open Forum.

VI. Discussion

- A. New Request For Action items.
 - i. DLI is to provide an updated list of RFA's for Committee to schedule review date. (Tabled.)

VII. Announcements

A. Next Regularly Scheduled Meeting:

- i. March 23, 2010 – 9:30 a.m. – Minnesota Room, DLI

XI. Adjournment

A motion was made by Parizek, seconded by Abrahamson to adjourn the meeting. The vote was unanimous and the motion passed. The meeting adjourned at 3:46 p.m.

Respectfully Submitted,

Lawrence Justin

Lawrence Justin