

**Plumbing Board  
Meeting Minutes  
February 19, 2008  
Minnesota Room  
Department of Labor and Industry (DLI)  
443 Lafayette Road North, Saint Paul  
[DLI.CCLDBOARDS@State.MN.US](mailto:DLI.CCLDBOARDS@State.MN.US)**

**Members Present:**

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

**Members Absent:**

Steve Christenson

**Visitors:**

Mike Lipke  
Bob Heise  
Bob Wolf  
Gary Thaden  
Dale Blanchette  
Adam Dorley

**Staff Present:**

Wendy Legge  
Annette Trnka  
Jim Peterson  
Cathy Tran

**I. Call To Order**

The meeting was called to order by John Parizek at 9:33 a.m.

**II. Approval of Meeting Agenda**

The Chair asked if there was any objection to the Agenda and hearing none, declared that the Agenda is approved.

**III. Approval of Previous Meeting Minutes**

The Chair asked if there were any additions or changes to the Minutes for the January 10, 2008 Plumbing Board Meeting. Hearing none, the Chair declared the Minutes approved as presented.

#### **IV. Regular Business**

- A) The Chair declared the Per Diems approved as presented.

#### **V. Committee Reports**

- A) **Committee Reports**
- a. Product and Code Review Committee review. Next meeting February 27, 9:30 a.m.
  - b. Code Interpretation & Complaint Committee review. No anticipated meeting date. The name change proposed was mentioned, which will be discussed later in these meeting minutes. The Committee will not meet on a regular basis because of the time constraint of response within 30 days, so the Committee will call for meetings on an “as needed” basis.

#### **VI. Special Business**

- A) **E-Mail Communications**  
E-mail communications spoken of by Wendy Legge regarding Open Meeting Law. The recommendation is that no decisions can be made by e-mail. The Board members need to know that unless “attorney/client privileged” all e-mails are public record. All copies between Board members on Board business should copy Annette Trnka for official record keeping. Actions should not be taken by e-mail to avoid a discussion at a public meeting. Regarding copying members of the public, if one interested party is copied, all interested parties should be copied. The Board members will be provided a list of all interested parties’ e-mail addresses. Gander made a motion, seconded by Ellingboe to adopt the recommendations on e-mail procedures. The vote was unanimous and the motion passed.
- B) **Current Legislative Session**  
There were 3 Bills introduced by the House. These Bills should be made a part of the agenda for the next several board meetings. Ellingboe spoke on the three legislative items from the House that Legge made available. Representatives Mahoney and Peterson authored 2805 and 2913 respectively.
- C) **Bylaws**
- i. **Interpretation and Complaint Committee Amendment.** Correction of the name “Code Interpretation and Complaint Committee” to be changed to “Code Interpretation Committee.” Ellingboe made a motion, seconded by Gander to change the name of the Committee to the “Code Interpretation Committee.” The vote was unanimous and the motion passed.
  - ii. **Amendment of By-laws.** Lamm made a motion, seconded by Sullwold to approve the amended By-Laws. The vote was unanimous and the motion passed.

**D) Plumbing Code**

- i. Schedule for Rulemaking.** A target date of April has been decided for all current amendments to be completed by the Board. A new license and registration Request For Comments is to be drafted and signed by Chair, and staff will draft language for rule amendment on licensing and registration by the April Board meeting. The Board's rulemaking authority expires on December 31, 2008, so a new Request For Comments should be done as soon as possible.

Kittleson made a motion, seconded by Kammerer to move forward with finalized current rulemaking on Code Amendments of the Board by April, 2008. The vote was unanimous and the motion passed.

The Board broke at 10:32 for 10 minutes as called by Chair. Meeting reconvened at 10:45.

- ii. Code Revisions Referred to Board.** A separate rulemaking for restricted licenses and registration rule amendment draft language for discussion available by April Board meeting. A Request For Comments is to be signed by the Chair. Sullwold made a motion, seconded by Palmateer to have the Chair sign a new Request For Comments on licensing and registration. The vote was unanimous and the motion carried.

- iii. Products Referred to the Board. None.**

The Board then reviewed the "PCAC Approved code Amendments list" item by item and motions made to accept or otherwise were completed of all proposed changes.

The Board broke for lunch at 12:18 and reconvened at 1:18 p.m. The meeting had a break at 2:29 p.m., and reconvened at 2:41.

The proposed rule changes and votes are as follows:

**4715.0100, Subp. 61.**

**Individual sewage disposal system.** "Individual sewage disposal system" means a system for disposal of domestic sewage ~~by means of a septic tank, cesspool, or mechanical treatment,~~ designed for use apart from a public sewer ~~to serve a single establishment or building as~~ and regulated under Minnesota Rules administered by the Minnesota Pollution Control Agency.

SONAR: **4715.0100, subpart 61.** This amendment is intended to remove specific examples of approved sewage disposal methods for individual systems. Rules

governing on-site sewage disposal systems are subject to change. Cesspools are no longer an approved method of sewage disposal.

(See related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion was made by Gander and seconded by Ames to approve the above change. The vote was unanimous, and the motion passed.

**4715.0100, Subp. 71.**

**Main.** "Main" means the ~~principle~~ principal pipe artery to which branches may be connected.

SONAR: **4715.0100, Subp. 71. Main.** This section is amended to correct a spelling error. The word Aprinciple@ is changed to Aprincipal@.

(See related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_11\\_28\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_11_28_06.pdf))

A motion was made by Sullwold and seconded by Kittleson, to accept change. The vote was unanimous, and the motion passed.

**4715.0100, Subp. 117**

**Vent pipe.** "Vent pipe" means any pipe provided to ventilate a building drainage system and to prevent trap ~~siphonage~~ siphonage and back pressure.

SONAR: **4715.0100, Subp 117. Vent pipe.** This section is amended for spelling consistency within the rule. The spelling of the word Asiphonage@ is changed to Asiphonage@.

(See related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_11\\_28\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_11_28_06.pdf))

A motion was made by McGowan and seconded by Kittleson to accept change. The vote was unanimous, and the motion passed.

**4715.0200, D**

Every building with installed plumbing fixtures and intended for human habitation, occupancy, or use when located on premises where the authority having jurisdiction has determined that a public sewer is available, ~~within a reasonable distance~~ the building sewer shall be connected to the public sewer.

SONAR: **4715.0200, Item D.** This amendment is intended to clarify that a building sewer must connect to the public sewer whenever such a connection is feasible.

(See related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion was made by Gander and seconded by Kammerer to accept change as written. The vote was unanimous, and the motion passed.

#### **4715.0200, U**

If water closets or other plumbing fixtures are installed in a building where there is no public sewer within a reasonable distance available as determined by the authority having jurisdiction, suitable provision must be made for treatment of the building sewage by methods which meet the design criteria of the Minnesota Pollution Control Agency, as prescribed in chapter 7080. One family and two family dwellings must comply with applicable local ordinances.

SONAR: **4715.0200, Item U.** This item is amended to clarify the requirement that an individual sewage treatment system must be utilized when connection to a public sewer is not feasible. In addition, the specific reference to Chapter 7080 is removed due to changes in that rule and the creation of Chapter 7081. Chapter 7080 is currently under revision to include those systems discharging 2,500 gallons per day or less from three or fewer dwellings or other establishments. Chapter 7081 is being created to regulate those systems discharging more than 2,500 gallons per day, but less than 10,000 gallons per day.

(See related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion was made by Gander and seconded by Kammerer to accept proposed changes. The vote was unanimous, and the motion passed.

#### **4715.0420, Subp. 2 STANDARDS FOR PLUMBING MATERIALS.**

##### **Subp. 2. Abbreviations.**

Abbreviations in ~~subpart 3~~ this chapter refer to the following:

- A. ANSI, American National Standards Institute,  
10 East 40th Street, New York, New York 10016;
- B. ASTM, American Society for Testing and Materials,  
100 Barr Harbor Drive, West Conshohocken, PA 19428-2959;
- C. AWWA, American Water Works Association,

6666 West Quincy Ave; Denver, CO 80235-3098

- D. CSA, Canadian Standards Association, 178 Rexdale Boulevard, Rexdale (Toronto), Ontario, Canada M9W 1R3;
- E. CS, Commercial Standards available from:  
Commodity Standards Division, Office of Industry and Commerce,  
U. S. Department of Commerce, Washington, D. C. 20234;
- F. FS, Federal Specifications available from:  
Federal Supply Service, Standards Division, General Services Administration,  
Washington, D. C. 20406;
- G. NSF, NSF International, Ann Arbor, Michigan 48106;
- H. FHA, Federal Housing Authority, Architectural Standards Division, Washington, D. C.;
- I. AASHTO, American Association of State and Highway Transportation Officials, 444 North Capital Street Northwest, Suite 249, Washington, D. C. 20001- ;
- J. IAMPO, International Association of Plumbing and Mechanical Official, 5001 E. Philadelphia St., Ontario, California, 91761
- K. ASSE, American Society of Sanitary Engineering, 901 Canterbury Road, Suite A, Westlake, Ohio 44145-1480

SONAR: **4715.0420 Subp. 2** This proposed amendment would add new abbreviations of establishments that provides product and material standards, testing, and certification.

(see related minutes @ [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_03\\_28\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_03_28_07.pdf) and [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_11\\_28\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_11_28_06.pdf))

A motion was made by Kittleson and seconded by McGowan. The vote was unanimous, and the motion passed.

### **4715.0420, Subpart 3**

#### **Standards for plumbing materials.**

<u>DESCRIPTION</u>	<u>ANSI</u>	<u>ASTM</u>	<u>FS</u>	<u>OTHER</u>
<u>1M Ductile Iron Pipe</u> <u><del>Rubber Gasket Joints</del></u> <u>push-on joints.</u>	<u>A21.51</u>			<u>AWWA C151</u>

mechanical joints

SONAR: **4715.0420, Subpart 3, Subitem 1M.** This subitem is proposed to reflect the specific joints covered within scope of the standard. This is a clarification of existing language, and does not represent a substantial change.

(see minutes at [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_03\\_28\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_03_28_07.pdf) and [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_11\\_28\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_11_28_06.pdf) )

A motion was made by Lamm and seconded by Kammerer to accept change. The vote was unanimous, and the motion passed.

**4715.0420, Subpart 3**

**Standards for plumbing materials.**

<u>DESCRIPTION</u>	<u>ANSI/A</u> <u>SSE</u>	<u>ASTM</u>	<u>FS</u>	<u>OTHER</u>
<u>3R Removable and</u> <u>Non-Removable</u> <u>Push-Fit</u> <u>Fittings for</u> <u>Copper Pipe (3/8</u> <u>to 2 inches</u> <u>only)</u>	<u>1061-</u> <u>200</u> <u>6</u>			<u>NSF 61</u>

SONAR: **4715.0420, Subpart 3, Subitem 3R.** This proposed amendment is added to allow the use of removable and non-removable push type fittings for joining of copper pipe that complies with ASTM B88. The fittings must be manufactured to comply with ANSI/ASSE 1061-2006 and meet NSF 61 for potable water components. The proposed use of this fitting was reviewed by the Plumbing Code Advisory Committee for the Minnesota Department of Labor and Industry and recommended for inclusion in the rule. Adoption of this proposed subitem recognizes current technologies, materials, and methods, thereby increasing the number of safe and sanitary options available.

(See related minutes at [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_03\\_28\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_03_28_07.pdf) and [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_05\\_23\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_05_23_07.pdf))

A motion was made by Kammerer and seconded by Justin to accept proposed changes. The vote was unanimous, and the motion passed.

**4715.0420, Subpart 3**

**Standards for plumbing materials.**

<u>DESCRIPTION</u>	<u>ANSI</u>	<u>ASTM</u>	<u>FS</u>	<u>OTHER</u>
6I Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe (up to 1 inch only)		F1282		NSF 14 NSF 61

SONAR: **4715.0420, Subpart 3, Subitem 6I.** This proposed amendment would allow the use of polyethylene/aluminum/polyethylene composite pressure pipe for water service for up to 1 inch as requested in the application. The pipe must be manufactured to comply with ASTM Standard D1282 and meet NSF 14 and 61 for potable water. This use of PE-AL-PE piping was reviewed by the Plumbing Code Advisory Committee for the Minnesota Department of Labor and Industry and recommended for inclusion in the rule. Adoption of this proposed subitem recognizes current technologies, materials, and methods, thereby increasing the number of safe and sanitary options available.

(see minutes at, [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_04\\_25\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_04_25_07.pdf) and [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_05\\_23\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_05_23_07.pdf) )

A motion was made by Lamm and seconded by Gander to accept proposed amendment. The vote was unanimous, and the motion passed.

### **4715.0420, Subpart 3**

#### **Standards for plumbing materials.**

<u>DESCRIPTION</u>	<u>ANSI</u>	<u>ASTM</u>	<u>FS</u>	<u>OTHER</u>
6H Chlorinated Polyvinyl Chloride (CPVC)		D2846 F441 F442 F439		NSF 14 NSF 61

SONAR: **4715.0420, Subpart 3, Subitem 6H.** This subitem is proposed to allow the use of chlorinated polyvinyl chloride (CPVC) piping for water service. This pipe and fittings must be manufactured to comply with ASTM Standard D2846, F441, F442, and F439. This use of CPVC piping was reviewed by the Plumbing Code Advisory Committee for the Minnesota Department of Labor and Industry and recommended for inclusion in the rule. Adoption of this proposed subitem recognizes the current technologies, materials, and methods, thereby increasing the number of safe and sanitary options available.

(see minutes @ [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_03\\_28\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_03_28_07.pdf) and [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_11\\_28\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_11_28_06.pdf) )

A motion was made by Gander and seconded by McGowan to accept proposed changes. The vote was unanimous, and the motion passed.

### 4715.0420, Subpart 3

#### Standards for plumbing materials.

<u>DESCRIPTION</u>	<u>ANSI</u>	<u>ASTM</u>	<u>FS</u>	<u>OTHER</u>
<u>6M Cross-linked Polyethylene (PEX) Systems Tubing</u>		<u>F876</u> <u>F877</u>		<u>NSF 14</u> <u>NSF 61</u>
<u>6N (1)Metal Insert Fittings Utilizing a Copper Crimp Ring for PEX</u>		<u>F1807</u>		<u>NSF 14</u> <u>NSF 61</u>
<u>6N(2)Cold Expansion Fittings with PEX Reinforcing Rings for Use with PEX Tubing</u>		<u>F1960</u>		<u>NSF 14</u> <u>NSF 61</u>
<u>6N(3) Cold Expansion Fittings with Metal Compressions Sleeves for Use with PEX Tubing</u>		<u>F2080</u>		<u>NSF 14</u> <u>NSF 61</u>
<u>6N(4) Stainless Steel Clamps for Securing PEX Tubing to Metal Insert Fittings</u>		<u>F2098-</u> <u>01</u>		<u>NSF 14</u> <u>NSF 61</u>
<u>6N(5) Plastic Insert Fittings Utilizing a Copper Crimp Ring for PEX Tubing</u>		<u>F2159</u>		<u>NSF 14</u> <u>NSF 61</u>
<u>6N(6) Crosslinked Polyethylene (PEX) Plastic Hot and Cold Water Distribution Systems</u>		<u>F877</u>		<u>NSF 14</u> <u>NSF 61</u>

SONAR: 4715.0420, Subpart 3

**Subitem 6M.** This proposed amendment is to separate ASTM Standard F876 and ASTM Standard F877 into independent subitems to allow other new joining methods available for PEX tubing. ASTM F876 establishes PEX tubing only and ASTM F877 is a complete PEX system with tubing and fittings which is now under a new subitem 6N(6).

**Subitem 6N (1).** This proposed amendment is to reformat and assign a new designation for the existing fitting to accommodate other new joining methods and does not represent a substantial change. Previous designation was 6N.

**Subitem 6N (2).** This proposed amendment is to reformat and assign a new designation for the existing fitting to accommodate other new joining methods and does not represent a substantial change. Previous designation was 6O.

**Subitem 6N (3).** This proposed amendment is added to allow an additional type of fitting that is acceptable for use with PEX tubing. Cold expansion fittings with metal compressions sleeves for use with PEX Tubing must be manufactured to meet ASTM Standard F2080, NSF Standard 14, and NSF Standard 61. This material was reviewed by the Plumbing Advisory Council and was recommended for inclusion in the rule. Adoption of this rule recognizes current materials and methods, thereby, increasing the number of safe and sanitary options available.

**Subitem 6N (4).** This proposed amendment is added to allow an additional type of fitting that is acceptable to use with PEX tubing. Stainless steel clamps for securing PEX Tubing to Metal Insert Fittings for use with PEX Tubing must be manufactured to meet ASTM Standard F2098-01, NSF Standard 14, and NSF Standard 61. This material was reviewed by the Plumbing Advisory Council and was recommended for inclusion in the rule. Adoption of this rule recognizes current materials and methods, thereby, increasing the number of safe and sanitary options available.

**Subitem 6N (5).** This proposed amendment is added to allow an additional type of fitting that is acceptable to use with PEX tubing. Plastic Insert Fittings for use with PEX Tubing must be manufactured to meet ASTM Standard F2159, NSF Standard 14, and NSF Standard 61. This material was reviewed by the Plumbing Advisory Council and was recommended for inclusion in the rule. Adoption of this rule recognizes current materials and methods, thereby, increasing the number of safe and sanitary options available.

**Subitem 6N (6).** This proposed amendment is added to allow a new designation for the PEX hot and cold water distribution systems previously listed under designation 6M. This proposed amendment is reasonable since this ASTM standard F877 establishes a PEX system which includes both tubing and fittings.

(see related minutes at  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_03\\_28\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_03_28_07.pdf))

A motion to accept was made by Justin and seconded by Sullwold to accept changes. The vote was unanimous, and the motion passed.

### **4715.0420, Subpart 3**

#### **Standards for plumbing materials.**

<u>DESCRIPTION</u>	<u>ANSI</u>	<u>ASTM</u>	<u>FS</u>	<u>OTHER</u>
6V <u>Chlorinated Polyvinyl Chloride (CPVC)</u>				<u>IAPMO IGC 210-2005a</u>

SONAR: **4715.0420, Subpart 3, Subitem 6V.** This proposed amendment would permit the use of chlorinated polyvinyl chloride (CPVC) for special (chemical) waste piping fabricated in accordance with the International Association of Plumbing and Mechanical Official (IAPMO) Guide Criteria 210-2005a. This use of CPVC was reviewed by the Plumbing Code Advisory Committee for the Minnesota Department of Labor and Industry, which recommended adoption of the proposed amendment. This proposed amendment recognizes the current technologies, materials, and methods, thereby, increasing the number of safe and sanitary options available.

(see minutes @ [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_11\\_28\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_11_28_06.pdf) )

A motion to accept was made by McGowan and seconded by Lamm. The vote was unanimous, and the motion passed.

### **4715.0510**

G. Plastic pipe 6D, 6E, 6F, ~~and 6G,~~ and 6H may be used for water service pipe only up to the water meter or pressure tank and provided there is no more than two feet of such piping exposed within the building. These materials shall be installed in accordance with ASTM D 2774-72. Particular care shall be taken to avoid sharp edges in contact with the pipe and to provide for expansion and contraction.

SONAR: **4715.0510, Item G.** This item is proposed to reflect the acceptance of additional pipes and fittings for chlorinated polyvinyl chloride (CPVC) piping for water service as added in the proposed 4715.0420, subpart 3, 6H.

(see related minutes @ [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_03\\_28\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_03_28_07.pdf) and [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_11\\_28\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_11_28_06.pdf) )

A motion was made by Gander and seconded by Lamm to accept changes. The vote was unanimous, and the motion passed.

### **4715.0510**

G. Plastic pipe 6D, 6E, 6F, ~~and 6G,~~ ~~and 6H,~~ and 6I may be used for water service pipe only up to the water meter or pressure tank and provided there is no more than two feet of such piping exposed within the building. These materials shall be installed in accordance with ASTM D 2774-72. Particular care shall be taken to avoid sharp edges in contact with the pipe and to provide for expansion and contraction. Plastic pipe 6I must be installed by a factory trained installer in accordance with the manufacturer's installation instructions.

SONAR: **4715.0510, Item G.** This amendment is needed for consistency with proposed part 4715.0420, subpart 3, 6I. Plumbing Code Advisory Committee for the Minnesota Department of Labor and Industry recommended for inclusion in the rule that the installer must be trained by the manufacturer prior to installing that manufacturer's pipe system.

(see related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_04\\_25\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_04_25_07.pdf) and  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_05\\_23\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_05_23_07.pdf) )

A motion to accept proposed change was made by Justin and seconded by Ames. Gander made an amended motion to strike "by a factory trained installer," and was seconded by Abrahamson. The vote on the amendment was unanimous, and the motion passed. Original motion – the vote was unanimous, and the motion passed.

#### **4715.0520**

L. Cross-linked polyethylene (PEX) tubing 6M with fittings ~~6N or 6O~~, 6N(1), 6N(2), 6N(3), 6N(4), 6N(5), or 6N(6) shall be certified by an independent third-party certifier. The water distribution system shall be installed by a factory-trained installer in accordance with the manufacturer's installation instructions. Tubing and fittings must be marked with the appropriate ASTM designations by the manufacturer.

SONAR: **4715.0520, Item L.** This proposed amendment is to reflect the acceptance of addition fittings for cross-linked polyethylene (PEX) tubing systems for water distribution installations as amended in 4715.0420, subpart 3, 6M, 6N(1), 6N(2), 6N(3), 6N(4) , 6N(5), and 6N(6).

(see related minutes  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_03\\_28\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_03_28_07.pdf))

A motion to accept was made by Gander and seconded by Abrahamson. The vote was unanimous, and the motion passed.

(Insert a new item J as follows:)

#### **4715.0530**

J. Ductile Iron 1L and 1M. Gravity installation must be from manhole to manhole or building to manhole with no change in direction, and must be in accordance with ASTM A746-03, the manufacturer's recommendation, and requirements.

SONAR: **4715.0530, Item J.** This item is proposed to reflect the acceptance of ductile iron pipe for exterior sanitary and storm sewer piping. The use of this material is restricted to manhole to manhole installations with no change in direction due to the lack of drainage pattern fittings for cleanouts and directional fittings. This proposed use of ductile iron pipe was reviewed by the Plumbing Code Advisory Council for the Minnesota Department of Labor and Industry and recommended the inclusion in the rule for the proposed use. Adoption of this proposed item recognizes the current technologies, materials, and methods, thereby, increasing the number of safe and sanitary options available.

(see related minutes @

[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_03\\_28\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_03_28_07.pdf) and

[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_11\\_28\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_11_28_06.pdf) )

A motion to accept was made by Gander and seconded by Kittleson. The vote was unanimous, and the motion passed.

#### **4715.0530**

The following materials may be used for building sewers:

G. Plastic 6A, 6B(1), 6B(3), 6B(4), 6C(1), 6C(2), and 6C(3) and corresponding fittings must be laid on a continuous granular bed. Installation must comply with ASTM D2321.

SONAR: **4715.0530 BUILDING SEWERS, Item G.** This item is being amended to include ASTM D2241 PVC as referenced in Minnesota Rules, part 4715.0420, subpart 3, VI, 6B(4). This material is currently listed in Minnesota Rules, part 4715.0550 through 4715.0600 as an approved material for sanitary drain, waste, and vent systems and storm drainage systems within a building, and is therefore recognized to be of such quality to be utilized for building sewers. As with other thermoplastic drainage materials, this material is required to be installed in accordance with ASTM D2321.

(See related minutes at,

[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept was made by McGowan and seconded by Lamm. The vote was unanimous, and the motion passed.

**4715.0610**  
**SPECIAL WASTES.**

For special wastes, the following materials may be used:

A. The following corrosion resistant materials are acceptable for chemical waste and vent systems: stainless steel

2C(b), chemically resistant glass pipe 5H, high silicon content cast iron 1G, and chemically resistant plastic pipe 6S, 6T, ~~or 6U, or 6V.~~

~~Use of any other materials must be approved by the administrative authority, who shall grant approval if the applicant can show that the material in question is as resistant to corrosion as are those listed above.~~ The installation shall be in accordance with manufacturer's installation recommendations. If 6S, 6T, 6U or, 6V is used, horizontal piping may not exceed 35 feet in total length; and stacks may not exceed 35 feet in total height unless an approved expansion and contraction joint is installed at intervals not to exceed 35 feet. Underground installation of chemically resistant plastic pipe shall comply with ASTM D2321.

SONAR: **4715.0610, Item A.** This amendment is proposed to denote acceptance of chlorinated polyvinyl chloride (CPVC) for special waste piping installations as described in proposed part 4715.0420, subpart 3, 6V.

This proposed amendment would also delete existing language allowing alternative special waste materials other than listed in this part. The deleted language is redundant to the review and approval of alternative material is currently covered in part 4715.0330.

Additional, the proposed amendment would require the underground installation of plastic chemical piping with ASTM D2321. This amendment is reasonable and consistent with the current requirement since this requirement is included in the current Plumbing Code for PVC and ABS drain and waste plastic piping as described in existing part 4715.0570.

(see related minutes @ [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_11\\_28\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_11_28_06.pdf) and [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_03\\_28\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_03_28_07.pdf))

A motion to accept made by Justin and was seconded by Abrahamson. The vote was unanimous, and the motion passed.

**4715.0805**

**Push-On Joints.**

Subpart 1. Water Service Joints. Push-on joints may be used in cast iron and ductile iron water service pipe located underground outside the building, and must comply with ANSI-A21.11-85. Lead-tipped gaskets are prohibited.

Subpart 2. Water Distribution Joints. Removable and non-removable push-fit fittings that comply with ANSI/ASSE 1061-2006 may be used in copper pipe water distribution for aboveground installation. The installer must be certified by the manufacturer to install that manufacturer's fitting.

SONAR: **4715.0805**. This proposed amendment is to reformat and add new subparts to accommodate additional joint proposed for water distribution as added in proposed 4715.0420, subpart 3, 3(R). Because manufacturers have different installation instructions, the Plumbing Code Advisory Committee for the Minnesota Department of Labor and Industry recommended for inclusion in the rule that the installer must be certified prior to installing that manufacturer's fitting.

(See related minutes at [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_03\\_28\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_03_28_07.pdf) and [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_05\\_23\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_05_23_07.pdf))

A motion to accept was made by Lamm and seconded by Ellingboe. The vote was unanimous, and the motion passed.

#### **4715.0850, Subpart 6**

**Copper water tube.** Joints in copper water tubing shall be made either by the appropriate use of approved brass or wrought copper water fittings properly soldered or brazed; by means of approved flared fittings as provided in part [4715.0770](#); or by means of press type copper and copper alloy fittings on aboveground water distribution copper tubing, sizes 1/2-inch to 4-inch, installed in accordance with IAPMO Standard PS 117-2002; or by means of push-fit fittings for aboveground water distribution, installed in accordance with ANSI/ASSE 1061-2006, which must not be embedded in concrete.

SONAR: **4715.0850, Subpart 6**. This proposed amendment is needed for consistency with proposed part 4715.0420, subpart 3, 3(R).

(See related minutes at [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_03\\_28\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_03_28_07.pdf) and [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_05\\_23\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_05_23_07.pdf))

A motion to accept was made by McGowan and seconded by Ellingboe. The vote was unanimous, and the motion passed.

#### **4715.0900**

A single trap may serve a two or three compartment sink or laundry tray. The trap shall be located not more than 30 inches horizontally 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.

**SONAR: 4715.0900 FIXTURE TRAP REQUIREMENTS.** This section is amended to clarify that the fixture trap may not be located further than 30 inches horizontally from each sink compartment outlet. The maximum allowable vertical distance between a fixture outlet and the trap is currently prescribed in this section.

(See related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept was made by Gander and seconded by Abrahamson. The vote was unanimous, and the motion passed.

#### **4715.1120**

Enclosed garages of over 1,000 square feet or housing more than four motor vehicles, repair garages, gasoline stations with grease racks, work or wash racks, auto washes, and all buildings where oily and/or flammable liquid wastes are produced shall have a separator installed into which all oil, grease, and sand bearing and/or flammable wastes shall be discharged before emptying into the building drainage system or other point of disposal, when floor drains or trench drains are provided. The separator shall be located inside the building.

**SONAR: 4715.1120 OIL AND FLAMMABLE LIQUIDS SEPARATOR.** This section is amended to clearly state that a flammable liquids separator must be installed inside the building. This section currently implies that the separator must be inside the building by allowing a water-supplied and trapped sink to be connected to the vent of the separator, and requiring the separator vent to extend separately to a point 12 inches above the roof. Locating the interceptor inside the building eliminates accessibility concerns such as removal of snow or ice above the interceptor during winter months.

(See related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept was made by Kittleson and seconded by Ellingboe. The vote was taken. Kammerer, Justin, and Gander voted Nay. Abrahamson, Ames, Kittelson, Lamm, McGowan, Palmateer, Parizek and Sullwold voted Aye. The majority ruled, and the motion passed.

#### **4715.1120**

##### **OIL AND FLAMMABLE LIQUIDS SEPARATOR.**

Enclosed garages of over 1,000 square feet or housing more than four motor vehicles, repair garages, gasoline stations with grease racks, work or wash racks, auto washes, and all buildings where oily and/or flammable liquid wastes are produced shall have a separator installed into which all oil, grease, and sand bearing and/or flammable wastes shall be discharged before emptying into the building drainage system or other point of disposal, when floor drains or trench drains are provided.

Exception: Private garages classified as Group U occupancies serving one- and two-family dwellings.

Each separator shall be of watertight construction and of not less than 35 cubic feet holding capacity, be provided with a water seal of not less than three inches on the inlet and not less than 18 inches on the outlet. The minimum depth below the invert of the discharge drain shall be three feet. The minimum size of the discharge drain shall be four inches. The separator may be constructed: (i) of monolithic poured reinforced concrete with a minimum floor and wall thickness of six inches; or (ii) of iron or steel of a minimum thickness of 3/16 inch, protected with an approved corrosion resistant coating on both the inside and the outside; or (iii) of fiberglass resins that comply with ASTM C-581 and meets IAPMO Material and Property Standard, PS 80-2003b, for clarifiers.

**SONAR: 4715.1120.** This proposed amendment reflects the acceptance of fiberglass construction material proposed for use in oil and flammable liquids separator. This fiberglass material must comply with ASTM C-581 and must meet IAPMO Material and Property Standard, PS 80-2003b for clarifiers. This fiberglass material has been reviewed and approved for use on a case-by-case basis as an engineered and manufactured separator in accordance with 4715.1100. The proposed use of this new material was reviewed by the Plumbing Code Advisory Committee for the Minnesota Department of Labor and Industry and recommended for inclusion in the rule. Adoption of this proposed subitem recognizes current technologies, materials, and methods, thereby increasing the number of safe and sanitary options available.

(See related minutes at [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_03\\_28\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_03_28_07.pdf) and [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_05\\_23\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_05_23_07.pdf))

A motion to accept was made by Justin and seconded by McGowan. The vote was unanimous and the motion passed.

#### **4715.1210**

For all premises subject to the requirements of Minnesota Rules, Chapter 4715, plumbing fixtures shall be provided for the type of building occupancy and in the minimum number ~~shown as required~~ listed in chapter 1305, Minnesota Building Code.

**SONAR: 4715.1210 REQUIRED MINIMUM NUMBER OF FIXTURES.** This part is amended for clarification. Prior to the Chapter 4715 rule amendments adopted September 27, 1994, this section listed in detail the required minimum number and type of plumbing fixtures for all facilities subject to the requirements of the Minnesota Plumbing Code. The 1994 amendment to this part was intended to avoid duplication of the minimum fixture requirements listed in Chapter 1305, Minnesota Building Code. However, some facilities subject to the Minnesota

Plumbing Code are in locations where the Minnesota Building Code is not enforced. This amendment is intended to clarify that the minimum fixture requirements listed in the Minnesota Building Code are applicable to any facility subject to the requirements of the Minnesota Plumbing Code, regardless of whether the Minnesota Building Code as a whole is applicable to the facility.

(See related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept was made by Gander and seconded by Sullwold. The vote was unanimous, and the motion passed.

#### **4715.1300, Subp. 4.**

**Venting of floor drains.** Floor drain fixture branches ~~which~~ that are less than 25 feet in length and connect to a vented main or branch do not require an individual vent. The following shall be vented in accordance with parts 4715.2520, subparts 5 and 6, 4715.2550, subpart 3, and 4715.2620, subpart 4: floor drains receiving liquid waste flows that could siphon the trap seal; trench drains and floor sinks used as a receptor; and floor drains used for shower drains, recessed slop, or similar receptors.

SONAR: **4715.1300 FLOOR DRAINS, subpart 4.** This part is amended to clarify that individual vents installed within the trap arm distance prescribed by Minnesota Rules, part 4715.2620, subpart 4 are required for those floor drains that may receive amounts of liquid waste large enough to siphon the trap seal. Individual vents are also required for trench drains and floor sinks.

(See related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept was made by Abrahamson and seconded by Ellingboe. The vote was unanimous, and the motion passed. A motion was made by Sullwold, and seconded by Ames to amend the above language to include “trench drains and floor sinks used as a receptor.” The vote was unanimous, and the motion passed.

#### **4715.1380, Subp.2**

**Shower waste outlet.** Waste outlets, other than those in bathtubs, serving a single shower shall be at least 1-1/2 inches in diameter and have removable strainers not less than three inches in diameter having strainer openings not less than one-fourth inch in minimum dimension. Waste outlets shall be securely fastened to the waste pipe making a watertight connection thereto. Waste outlets serving showers, except single-head showers, must be at least two inches in diameter and must have removable strainers not less than three inches in diameter. Where each shower space is not provided with an individual waste outlet, the waste outlet must be located and the floor pitched so that the water from one shower does not flow over the floor area serving another shower. The floor and waste outlet design must not require a shower user to stand in or walk across the wastewater flowing from another shower space.

**SONAR: 4715.1380, Subp. 2. Shower waste outlet.** This section is amended to further clarify the 1994 revision to this section regarding construction of shower spaces serving multiple users. The intent of the 1994 revision and this revision is to preclude shower users from being required to stand in or walk through the wastewater flow from another shower space. The current rule requires that the floor slope and waste outlet locations preclude wastewater from one shower space from flowing into another shower space. Therefore, the current rule does not prohibit a floor and waste outlet design which would require a user to walk through the wastewater from one shower space to reach another shower space.

(See related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_11\\_28\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_11_28_06.pdf))

A motion to accept was made by Kittleson and seconded by Gander. The vote was unanimous, and the motion passed.

#### **4715.1700**

Only potable water shall be accessible to plumbing fixtures supplying water for drinking, bathing, culinary use, or the processing of food, medical, or pharmaceutical products. Only potable water shall be supplied to emergency showers and eyewashes.

**SONAR: 4715.1700 WATER REQUIRED.** This part is amended to require potable water to supply to emergency showers and eyewashes. Water supply connections to emergency fixtures from process water lines or other sources that may be of compromised water quality would be prohibited.

(See related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept was made by Lamm and seconded by Sullwold. The vote was unanimous, and the motion passed.

#### **4715.1710**

**Subpart 2. Separation of water service and building sewer,** Item D. Where the provisions of items A and B cannot be met, the sewer pipe shall be of cast iron or plastic 6A, 6B, 6C(2), or 6C(3) and the water pipe of copper, ductile or cast iron, or plastic 6D, 6E, 6F, ~~or 6G,~~ 6H, or 6I (part [4715.0420](#), subpart 3).

**SONAR: 4715.1710, Subpart 2, Item D.** This amendment is needed for consistency with proposed part 4715.0420, subpart 3, 6H and 6I.

(see related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_04\\_25\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_04_25_07.pdf) and  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_05\\_23\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_05_23_07.pdf) )

A motion to accept was made by Kammerer and seconded by Lamm. The vote was unanimous, and the motion passed.

4715.1710, subpart 3

Subp. 3. **Water service near sources of pollution.** Potable water service pipes must not be located in, under, or above cesspools, septic tanks, septic tank drainage fields, seepage pits, soil treatment systems, sewer manholes, catch basins, buried tanks containing chemicals or petroleum products, or any other source of pollution that in the judgment of the administrative authority might contaminate the potable water supply. A horizontal separation of ten feet must be maintained between the outer edge of the water service pipe and the outer edge of the contamination source.

SONAR: **4715.1710 WATER SERVICE, subpart 3.** This part is amended to provide additional detail regarding examples of contamination sources which may affect the potable water supply. A 10-foot horizontal separation between water service pipes and sewer manholes or catch basins has been previously enforced. In addition, clarity was added to the 10-foot horizontal separation requirement to be measured from the outer edges of the pipes/contamination source. For example, designers and/or installers sometimes measure between the center of a sewer manhole and the center of a water service pipe, which does not meet the intent of the 10-foot horizontal separation.

(See related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept was made by Kittleson and seconded by Sullwold. The vote was unanimous, and the motion passed.

**4715.1730, subpart 2**

Subp. 2. **Table of minimum sizes of fixture water branch lines.** Hose ~~bibs~~ bibbs

SONAR: **4715.1730 SIZE OF FIXTURE BRANCH, Subpart 2.** This item is amended to correct a spelling error from “hose bibs” to “hose bibbs”.

(See related minutes at,  
[http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept proposed change was made by Kittleson and seconded by Gander. The vote was unanimous, and the motion passed.

#### **4715.1740**

Whenever water pressure from the street main or other source of supply is insufficient to provide flow pressure at fixture outlets as required under part 4715.1770, a booster pump and pressure tank or other approved means shall be installed on the building water supply system. See part 4715.1810, ~~subpart 3~~ for installation.

SONAR: **4715.1740 WATER PRESSURE.** This part is amended to correct an incorrect reference. Minnesota Rules, part 4715.1810, as a whole, addresses water pressure booster system design. Minnesota Rules, part 4715.1740 currently references 4715.1810, subpart 3 only, which addresses water supply tank covers.

(See minutes at, [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept proposed change was made by McGowan and seconded by Kittleson. The vote was voted Nay by Lamm, with Abrahamson, Ames, Gander, Justin, Kammerer, Kittelson, McGowan, Palmateer, Parizek and Sullwold voting Aye. The majority ruled and the motion passed.

#### **4715.1770, subpart 2**

~~Stilleoek.~~ Sillcock.

SONAR: **4715.1770 MINIMUM PRESSURES REQUIRED IN WATER DISTRIBUTION SYSTEM, subpart 2.** This item is being amended to correct a typographical error. The word “Stillcock” was inadvertently printed rather than “Sillcock” for the fixture referenced under this subpart.

(See minutes at, [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

This was withdrawn as the Revisor has already corrected.

#### **4715.1800, Subpart.1**

**Stop and waste valves prohibited.** Combination stop and waste valves or cocks ~~should~~ shall not be installed underground in water service piping unless ~~they may be installed only if~~ approved by the administrative authority and ~~when~~ located at least two feet above the water table and at least ten feet from any sewer. ~~Freeze resistant sanitary yard hydrants must comply with ASSE 1057.~~

SONAR: **4715.1800, Subpart. 1. Stop and waste valves prohibited.** This proposed amendment is to add a new standard for freeze resistant sanitary yard hydrants. This standard establishes performance requirements of such devices to address freezing and to prevent backflow concerns. This standard was previous reviewed at several meetings of Plumbing Advisory at the Minnesota Department of Health and was recommended for code adoption.

(see [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_03\\_28\\_07.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_03_28_07.pdf))

A motion to accept amended changes was made by Lamm and seconded by Justin. The vote was unanimous and the motion passed. A motion was made by Lamm and seconded by Ames to remove Freeze resistant sanitary yard hydrants must comply with ASSE 1057 and make a Subpart 12. The vote was unanimous, and the motion passed.

#### **4715.2120**

The access area must provide enough space for testing and maintenance of the device. A backflow preventer must not be installed in a pit or other confined area subject to ~~recurrent~~ flooding.

**SONAR: 4715.2120 LOCATION OF BACKFLOW PREVENTERS.** This item is amended to clarify that no location subject to flooding is an acceptable location for a backflow prevention device. Submerging a backflow preventer may cause contaminated liquids to be drawn into the water supply system.

(See minutes at, [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion was made by Gander and seconded by Kittleson to accept proposed change. A vote was unanimous and the motion passed.

#### **4715.2310 Subpart 2**

\*\*\*\*\*No building sewer draining by gravity shall be less than 4 inches in diameter.

**SONAR: 4715.2310 SELECTING SIZE OF DRAINAGE PIPING.** This item is amended to clarify that a building sewer which discharges by gravity must be at least four inches in diameter. As site conditions on some premises do not permit the installation of gravity sewers, and as part 4715.2400 requires a pipe velocity of two feet per second to provide sufficient scouring of the waste pipe, pump sizes for 4-inch pressurized sewers become impractical. This amendment would allow pressure sewers to be less than four inches in size.

(See minutes at, [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept proposed change was made by Gander and seconded by Kittleson. Motion withdrawn by Gander and Kittleson. A motion was made to table by Gander and seconded by Justin. The vote was unanimous and the motion passed.

#### **4715.2420 Subpart 1.**

**General prohibitions.** No fittings having a hub in the direction opposite to flow, or straight tee branch shall be used as a drainage fitting. No fitting or connection which has an enlargement chamber or recess with a ledge or shoulder, or reduction in pipe area shall be used. No manhole may be used to join drainage piping within a building.

No drainage or vent piping shall be drilled, tapped, or welded unless otherwise permitted by the administrative authority. Fittings used for back-to-back, wall outlet, blowout type water closet bowls shall have a baffle plate or other device to prevent the waste water from one water closet from entering the opposite water closet. No fixture connection shall be made to a closet bend. No running threads, bands, or saddles shall be used. The short pattern fitting in a horizontal position is prohibited in underground work.

**SONAR: 4715.2420, Subpart 1. General prohibitions.** This section is amended to prohibit the use of manholes to join drainage piping inside a building. The rule currently prohibits an enlargement chamber and reduction in pipe area. This amendment is consistent with that requirement.

(See minutes at, [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_11\\_28\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_11_28_06.pdf))

A motion to accept proposed change was made by Lamm and seconded by Sullwold. The vote was unanimous and the motion passed.

#### **4715.2430**

**BUILDING DRAINS BELOW BUILDING SEWER.** ~~Building~~ Only drains which cannot be discharged to the sewer by gravity flow shall discharge into an approved watertight, gas-tight vented sump or receiving tank, so located as to receive the sewage or wastes by gravity. From such sump or receiving tank the sewage or other liquid wastes shall be lifted and discharged into the building gravity drain by approved automatic pumping equipment. The system or drainage piping entering such sump shall be installed and vented as required in this section for a gravity system.

**SONAR: 4715.2430 BUILDING DRAINS BELOW BUILDING SEWER.** This section is amended in title and text to clarify that only drains that cannot discharge to the sewer by gravity may discharge to a sump. The word ~~Abuilding@~~ is removed, changing the reference to ~~Adrain@~~ in the definitions section of the code, which includes any pipe carrying waste water or waterborne waste in the drainage system. For those drains where a gravity connection to the sewer is possible but impractical, a pumped system may be acceptable under Minnesota Rules, part 4715.0320, subpart 3.

(See minutes at, [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_11\\_28\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_11_28_06.pdf))

A motion to accept change was made by Gander and seconded by Abrahamson. The vote was unanimous and motion passed.

#### **4715.2520, subpart 1**

**Vent stack required.** ~~Every~~ For each sanitary building sewer, in which plumbing is installed shall have at least one three-inch vent stack (or stack vent) carried full size through the roof shall be installed as provided in part 4715.2330. A vent stack or

main vent shall be installed with a soil or waste stack whenever individual vents, relief vents, or branch vents are required for stacks of three or more branch intervals.

**SONAR: 4715.2520 VENT STACKS AND STACK VENTS, Subpart 1.** This amendment is added to clarify that a 3-inch vent stack or stack vent is required for each sanitary sewer service if a building is provided with more than one sanitary sewer service. The amended language was previously reviewed and approved by the Plumbing Code Advisory Council at the November 26, 2003 and July 19, 2004 meetings.

(See minutes at, [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept proposed changes was made by Gander and seconded by Kittleson. The vote was unanimous and the motion passed.

#### **4715.2610**

Two fixtures set back-to-back, within the distance allowed between a trap and its vent, may be served with one continuous soil or waste-vent pipe, provided that each fixture wastes separately into an approved double fitting, having inlet openings at the same level. (See Minnesota Rules, part 4715.2580, ~~subpart 2~~ subpart 1).

**SONAR: 4715.2610 FIXTURES BACK-TO-BACK.** This item is amended to correct an incorrect reference. Minnesota Rules, part 4715.2580, subpart 2 lists venting requirements for fixtures connecting to a vertical drain at different levels. The correct reference is Minnesota Rules, part 4715.2580, subpart 1, which addresses venting requirements for fixtures connecting to a vertical drain at the same level.

(See minutes at, [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept proposed correction was made by McGowan and seconded by Abrahamson. The vote was unanimous and the motion passed.

#### **4715.2620, subpart 3**

**Crown venting limitation.** No vent shall be installed within two drain pipe diameters of the trap weir.

**SONAR: 4715.2620 FIXTURE VENTS, Subpart 3.** This item is amended to clarify that a fixture vent pipe may not be installed within two drain pipe diameters of the trap weir. The current section may be interpreted such that a vent pipe must be installed at least two vent pipe diameters from the trap weir. As fixture vents are required to be one-half the diameter of the waste pipe at minimum, there is a direct effect on the required minimum distance between the trap and the vent.

(See minutes at, [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept was made by Kittleson and seconded by Gander. The vote was unanimous, and the motion passed.

**4715.2710, subpart 6**

**Values for continuous flow.** If there is a continuous or semicontinuous discharge into the building storm drain or building storm sewer, as from a pump, ejector, ~~air-conditioning plant~~, or similar device, each gallon per minute of the discharge must be computed as being equivalent to 24 square feet of roof area, based upon a four-inch rainfall.

SONAR: **4715.2710 SIZE OF BUILDING STORM DRAINS AND LEADERS, Subpart 6.** This item is amended to remove air conditioning plants from the list of discharge examples. This section implies that the storm sewer system is an approved point of disposal for air conditioning plant discharges, which may be in conflict with other state rules and federal regulations.

(See minutes at, [http://www.doli.state.mn.us/pdf/pe\\_pcac\\_minutes\\_10\\_25\\_06.pdf](http://www.doli.state.mn.us/pdf/pe_pcac_minutes_10_25_06.pdf))

A motion to accept was made by Kammerer and seconded by Ellingboe. The vote was unanimous, and the motion passed.

**VII. Complaints - None**

**VIII. Open Forum**

Participation by teleconference information was given by Legge.

**IX. Board Discussion**

Chair indicates the outstanding issues for Committee work include Section 4715.0420, Subpart 1 needs clarification regarding materials approved if they need to meet more than one standard. Another item is what defines “factory trained installer” and what would be considered “factory trained,” and creating a definition for “catch basin.” The final item is section 1810 with the booster pumps. A motion was made by Lamm and seconded by Ames to have the Executive Committee assign the preceding items to a Committee. The vote was unanimous and the motion carried.

**X. Announcements**

**A) Next Regularly Scheduled Meetings:**

- i. Tuesday, March 18, 2008, 9:30 a.m. – Minnesota Room, DLI
- ii. Tuesday, April 15, 2008, 9:30 a.m. – Minnesota Room, DLI

## **XI. Adjournment**

A motion to adjourn was made by Gander and seconded by Abrahamson. Meeting adjourned at 3:58 p.m.

Respectfully Submitted,

*Jim Gander*  
Jim Gander