



Pat Quinn, Governor
Damon T. Arnold, M.D., M.P.H., Director

525-535 West Jefferson Street • Springfield, Illinois 62761-0001 • www.idph.state.il.us

MEMORANDUM

SUBJECT: Minutes of the Meeting of the Plumbing Code Advisory Council

DATE: June 28, 2010

PREPARED BY: Frank Shimkus, Plumbing Program Manager

On June 28, 2010, a meeting of the Plumbing Code Advisory Council (PCAC) was held at the Illinois Department of Public Health, 535 W. Jefferson St., Springfield, IL.

The meeting was called to allow Manufacturers of plumbing products/materials to present their products and be considered for Department approval for use in Illinois. The following were in attendance:

Frank Shimkus, Plumbing Program Manager
Mark Kuechler, Champaign Regional Supervisor, Registered Engineer

Plumbing Code Advisory Council Members:

Beverly Potts, Licensed Plumber
Gerald Tienstra, Licensed Plumber
Gary Hinderliter, Licensed Plumber
David Menzel, Architect
Lincoln Cochran, Licensed Professional Engineer

Presenters:

Skip Newton, Associated Equipment Company, Inc., Sales Engineer and President of PVF Solutions
John Hards, Associated Equipment Company, Inc. (Contract Consultant for Aqua Therm
Jim Pascal, Aqua Therm Engineer
Julius A. Ballanco, President of JB Engineering and Code Consulting, PC
Marcus Elmer, StreamTech Specialist for Mueller Industries
Jeff Nehring, Regional Sales Manager for John Guest Speedfit of John Guest USA, Inc.
Rod Olson, Director-Technical Support AcornVac Vacuum Plumbing Systems
Laura Marshall, AcornVac Vacuum Plumbing Systems
Paul Smith, Director FMS Technical Services, Fresenius Medical care
Mark Rolston, Corporate Director of Water Systems & Technical Initiatives, Fresenius Medical Services
Paul Schindlbeck, Project Manager, Fesenius Medical Services
Timon Cooney District Sales Manager, Midwest Region, Process Systems, Fluid Systems, Saint-Gobain Performance Plastics Corporation
Steve Lackey, Regional Sales Manager, Tyco Thermal Controls

Aqua Therm representatives demonstrated the Aqua Therm polypropylene pipe and fittings for water distribution and water service which are only produced in Germany, but has been produced for 35 years in 80 countries. The product meets ASTM standard 2389, IAPMO listing CSA standard in addition to a military standard, as well as NSF 14/61 standard for direct food contact and potable water. The Council asked questions about chemical resistance, availability in rigid and flexible piping, metric sizing, the installation tools which need to be heated first, ultra violet protection, stop valve materials compatibility and connection methods, as well as extended use and flow reduction of the fittings. The Council voted and approved by unanimous decision.

JB Engineering and Code Consultin, Inc and Stream Tech representatives presented fitting and lip seal structural adhesive manufactured by Mueller Industries. They explained the adhesive is used by the airline industry for construction fastening. The Council's concerns included the temperature range for thermo cycling, chemical effects, effects of chlorine EPDM material, inter-changeability of the press fitting (not recommended). Mr. Cochran asked if it was approved and accepted for use by modern codes and it was not. Frank Shimkus asked how long the product has been in development and whether there were installations and the performance of the product. Mr. Ballanco's answer was "10 years" and discussed an installation located in Memphis. Potts noted there was no B16 copper fitting standard as required. Cochran also questioned the standard and listing criteria for the listed approved testing agency. Kuechler and Menzel agreed it needed to have a current approved standard. Shimkus asked for a vote and all agreed not to grant approval.

Hinderliter discussed the proper standard for Push to Connect fittings as Jeff Nehring, of John Guest USA, Inc. introduced their product and pointed out that it has a twist and lock feature and is ASSE 1061 standard accepted. Potts mentioned the F877 standard for Pex materials. Menzel asked about high chlorine concentrations. Tienstra asked about use for glycol installations and insert sleeve for heating system use. Potts noted the approval by CSA standard for pipe fittings and Kuechler stated the code listed standard may be incorrect and this was further discussed by the Council and decided to approve for use, but check for proper marked standard. The Council voted unanimously to approve.

Rod Olson and Laura Marshall presented AcornVac Vacuum Plumbing Systems outdoors in a mobile unit. Shimkus noted the clear water waste indirect waste connection. Hinderliter asked if the system was for use for new or remodel installs and Menzel noted only licensed plumbers should install the systems. Kuechler proposed acceptance of Vac Systems for clear water waste only and all members approved.

Timon Cooney provided information to the Council on pure water distribution PSA Teflon tubing. The Council noted the standards required by Code were missing. Hinderliter indicated these medical piping systems need to be installed by licensed plumbers only. Potts discussed the need for pressure rating to be listed on the materials as required by Code. Shimkus called for a vote and the Council did not approve for use due to the lack of proper labeling.

Tyco Thermal Controls representative, Steve Lackey, presented H-Watt Hot Water Maintenance System heating cable for hot water recirculation piping/ water supply. Hinderliter was worried about plasticizers causing piping damage. Cochran discussed listing installation in Illinois as a substitute for a recirculation system. Menzel started a discussion about freeze protection. Lackey added a future concern for the Department in relation to a greasy waste heat cable on grease interceptors. Concerns for temperature regulation for recirculation systems were discussed. The heat trace cable has a UL listing and was approved by the Council by unanimous decision.