

Subject 2732

January 30, 2012

SUMMARY OF TOPICS

This Proposed First DRAFT of the Standard for Safety for Evaluating Compatibility of Products with CPVC Piping, UL 1821B, is being proposed for preliminary review and comment only.

1. For Preliminary Review Only: This Proposed First DRAFT of the Standard for Safety for Evaluating Compatibility of Products with CPVC Piping, UL 1821B, covers the testing of ancillary products to determine chemical compatibility with Chlorinated Polyvinyl Chloride (CPVC) and Crosslinked Polyethylene (PEX) pipe conforming to the requirements in the Standard for Safety for Thermoplastic Sprinkler Pipe and Fittings for Fire Protection Service, UL 1821. Note that the subject number "UL 2732" will be used to identify CSDS proposals for UL 1821B until the first edition of the Standard is published.

COMMENTS DUE: March 15, 2012

This proposal is for review and comment only (no ballot at this time). Please note that comments on a preliminary review document will not receive a response from the proposal author through CSDS. Instead, the proposal author will be asked to review the comments and adjust the proposals and/or supporting rationale as the author determines to be appropriate. The preliminary review process is an informal mechanism that provides authors with the opportunity to refine their proposals before they advance to the next stage in UL's standards development process.

In some cases, the author of the proposals may choose to discontinue them. In this case, the author need not do anything after preliminary review has ended. Normally, the next step in the process is the more formal STP ballot and stakeholder review process. Only comments posted during the STP ballot and stakeholder review process will be provided with a response in CSDS.

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RATIONALE

Proposal submitted by Underwriters Laboratories Inc. on behalf of and with input from the STP 1821B Task Groups 1, 2, 3, and 4.

As a result of the fire sprinkler industry's interest in having an independent third party investigate the compatibility of CPVC and Cross-linked Polyethylene (PEX) piping with ancillary products used in fire sprinkler systems when installed in the "built environment", UL was approached to develop requirements for such a program.

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The attached initial draft of the requirements is a result of input from four task groups assigned during an initial meeting of those interested in participating in the development of requirements for this program. It was anticipated that the development of the requirements would use the ANSI process.

The task groups were assigned to address:

- 1) The scope;
- 2) Define test methods details, acceptance requirements and exposure procedure methods;
- 3) Determine representative material characteristics for CPVC and PEX;
- 4) Determine representative CPVC and PEX materials to be used in the compatibility evaluations;
- 5) Determine additional performance requirements for materials and minimum characteristics when exposed to materials causing stress cracking of the material under specific loads; and
- 6) Marking requirements for compatible products.

The initial draft is a compilation of the input from each of the task groups. The draft is not complete. It is being posted to permit members of the Standards Technical Panel to view the progress and to determine if the development concept of the proposal is in the proper direction. In addition, the draft will serve as a platform to insert information as it is being developed. Our intention is to hold an STP meeting, having the comments received during this preliminary round as the agenda items. Therefore, please use this opportunity to express your ideas for the direction of the standard.

(Please note that via a future proposal request the requirements contained in the Section on the Representative Materials Stress Test will eventually be proposed for UL 1821 as a minimum product requirement.)

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