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March 8, 2005

CERTIFICATION BULLETIN 2005 - 4

To: Members of the Advisory Council of the Underwriters' Laboratories of Canada
Others Interested

Subject: First Draft, Proposed First Edition, ULC/ORD-C971-2005,
Nonmetallic Underground Piping for Flammable Liquids

Dear Members:

This is the First Edition of the Nonmetallic Underground Piping For Flammable Liquids, ULC/ORD-C971-2005.

This Other Recognized Document (ORD) will replace ULC/ORD-C107.4, Ducted Flexible Underground Piping Systems for Flammable and Combustible Liquids; ULC/ORD-C107.7, Glass-Fibre Reinforced Plastic Pipe and Fittings for Flammable and Combustible Liquids; ULC/ORD-C107.14, Nonmetallic Underground Piping Systems for Flammable and Combustible Liquids; and ULC/ORD-C107.19, Secondary Containment of Underground Piping for Flammable and Combustible Liquids.

There have been reports of several field problems concerning the use of nonmetallic underground piping for flammable liquids. The potential causes of most of these problems are identified as follows:

- A number of reported problems were attributed to improper installation of piping systems. Included were mismatched combinations of pipe and fittings, over torque, over bend, improper equipment settings and other problems suggesting the manufacturer's installation instructions were not being followed.
- Lack of maintenance of installed piping systems, such as failure to install or use leak-detection devices, perform recommended system leak tests, or inspect sump areas on a regular bases.
- Operation under conditions for which the products were not designed.
- The need for a system rather than component evaluations

Based on these identified problems, new and revised requirements were developed as part of this ORD to enhance the safety performance of these products. Some of these requirements are as follows:

- Evaluation of piping as a complete system instead of tests on individual materials or components.
- Evaluation of piping for intended use – the scope clearly identify that the piping systems are evaluated for underground applications.
- Evaluation of piping for abnormal use such as physical tests to better simulate abnormal abuses expected during assembly and installation (over torque, over bend conditions drops, impacts pull, crush and puncture).
- Long term exposure requirements.

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A copy of the First Draft, proposed First Edition, is enclosed for your review together with a Letter Ballot.

We would appreciate your completion and prompt return of the attached Ballot **by April 8, 2005**. Please return your completed Ballot to Monique.Grabowski@ca.ul.com.

Thank you for your consideration and we look forward to your response.

UNDERWRITERS' LABORATORIES OF CANADA

Normand Breton
Director Electrical Operations and Chief Engineer - Canada

