



**Environmental Technology, Inc.
Online Information Network!**

**Newsletter/ETI Interface
January, 1996**

"Providing Our Customers and Prospects With Timely Information"

Market Commitment . . .

- Although Winter has only begun, much of North America has experienced early, heavy snows and severe cold, while both the Southeast and Pacific Northwest have been plagued with numerous incidents of freezing rain. Past experience has demonstrated that demand for our snow and ice melting products in the year subsequent to a severe Winter, will be extraordinary. Anticipating this increased market in 1996-97, we shall endeavor to build inventory of appropriate products.

Improved Communications . . .

- Included with this mailing are newly-revised Data Sheets 19036 (CIT-1), 19037 (GIT-1), 19038 (FWT-1), 1080 (LCD-3S), 18782 (EUR-5) and 19039 (GPT-2). If you require additional copies of any data sheets, we'd be pleased to accommodate your request.

Y'all Come . . .

- To everyone attending the 1996 ASHRAE / International Air-conditioning, Heating, Refrigerating Exposition at Atlanta's Georgia World Congress Center, February 19-21, we extend an invitation to visit us at Booth 5054. We've chosen this event to preview several new snow/ice melting products. Personnel will be available to demonstrate their specific capabilities and to assist your applications requirements.

Recommended Reading . . .

- Two recent trade press articles by Steve Griffin, President of Intelligent Home Technologies, Inc., provide a good overview of snow/ice melting: design, application, installation and both installed and operating costs. Heating and control products of various manufacturers are featured. Look for "Automated Snow/Ice Melting Systems," Jan./Feb., 1996 *H.A. Pro* (Vol. IV, No. 1, p. 30-34) and "I Wish I Didn't Have to Shovel

Snow All Winter," Feb., 1996 *Electronic House*, (Vol. 11, No. 1, p. 34-35). Both are published by E.H. Publishing, Inc. of Wayland, MA.

UL, CSA, NEC - Part III . . .

- The concluding narrative examines the purpose and function of the NEC and explores its unofficial - yet vital - relationship to standards development/testing organizations such as UL. If you missed an earlier segment, a complete reprint is available upon request.

UL, CSA, NEC Part I II III

UL, CSA, NEC Part III - Conclusion

The National Electrical Code (NEC), an American National Standard, is a document proscribing acceptable, safe practices for the installation of electrical equipment in all but a very few specific domains. Once an individual state has accepted all or part of the NEC as the statute for safe electrical installations, its various governmental subdivisions (i.e. cities, towns, counties, townships, etc.) may elect to codify the document with or without further modification, mandating its application in all electrical installations within the range of its jurisdiction.

Once legal adoption has occurred, Section 90-4 of the NEC assigns the tasks of interpreting rules, approval of equipment and materials, granting special permissions or variances, inspection and enforcement to the "authority having jurisdiction" (sic The Electrical Inspector). This individual may be an employee of the governmental body (i.e. building department, fire safety, code enforcement, etc.), a representative of the serving electric utility, an independent consultant or others qualified by experience and education to competently discharge this responsibility.

Since Section 110-2 states: "The conductors and equipment required or permitted by this *Code* shall be acceptable only if "approved," each individual authority having jurisdiction (AHJ) must evaluate products and equipment to the extent necessary to grant his/her approval. To assist the AHJ in this daunting task, the term "Listed" is defined in Section 100 as: "Equipment or materials included in a list published by an organization acceptable to the authority having jurisdiction and concerned with product evaluation, that maintains periodic inspection of production of listed equipment or materials, and whose listing states either that the equipment or material meets appropriate designated standards or has been tested and found suitable for use in a specified manner." If this sounds like the function of UL - or the several other standards development/testing organizations, it is; and it forms the basis of an unofficial - yet vital - relationship.

To the comfort of the AHJ, he/she may consult the published Listing and/or Certification documents as a resource in determining the acceptability of products and equipment proposed for installation under their jurisdiction. Although this resource is not the sole criterion, there is clear implication that Listed/Certified products and equipment may be favored (or, indeed, required) in preference to similar products of manufacturers not having attained this status. This convention relieves the individual AHJ of the responsibility to determine the equivalency of quality or merit among various manufacturers of similar products and, also, fosters assurance that products and equipment of which they approve are safe from the hazards of electric shock and fire when applied, installed and operated in accordance with the standards to which they were successfully tested.

If you have any questions, please e-mail: helpdesk@networketi.com

