



american national standards institute, inc.

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C107

December 3, 1973

Chairman of the Board of
Standards Review
American National Standards Institute
1430 Broadway
New York, N. Y. 10018

Dear Sir:

The National Electrical Manufacturers Association (NEMA), which serves as Administrative Secretariat for the American National Standards Committee, C107, on Use and Disposal of Askarel and Askarel-Soaked Materials, is pleased to submit, on behalf of the Committee, the following proposal for approval and publication as an American National Standard:

Proposed American National Standard Guidelines for Handling and Disposal of Capacitor- and Transformer-Grade Askarels Containing Polychlorinated Biphenyls, C107.1- () (NEMA Publication Numbers CP-P1-1973 and TP-P6-1973).

Copies of the proposal were submitted for concurrent review comments on the same date of issuance of the Committee letter ballot, namely, July 18, 1973.

The scope of the proposal includes recommendations for handling and disposal of askarel and askarel-soaked materials, summary of disposals services and analytical procedures.

The proposals for these recommendations were developed within the Committee, based on experience gained by manufacturers and users of transformers and capacitors and information developed by Monsanto, ASTM and IEEE. A summary of accumulated recommendations for the first revision of the standard is attached as EXHIBIT "A".

The letter ballot indicated that the Committee will begin immediately with the first revision, a process that will take some time to complete.

We believe that the C107 Committee has complied with all of the requirements of the Board of Standards Review, as listed in BSR 4.1.1. To the best of its ability, the C107 Committee has also complied with the ANSI procedures, under the Standards Committee method.

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The results of balloting are, as follows:

Members eligible to vote	22
Affirmative votes	19
Negative votes	0
Affirmative votes with comments	1
Negative votes with comments	0
No reply after followup	0
Not voting	2

The roster of membership of C107 is attached.

Sincerely yours,

A. M. Salazar
A. M. Salazar, Secretary

AMS:dk

Att:

CC: All members of C107 Comm.
C.K. Poarch EEI Staff
S. Sherr, IEEE Staff
Tvler Nourse, Electronics Inds. Assoc.
Managing Director, Certified Ballast Mfrs. Assoc.
J.J. Kark, NEMA Staff

SUMMARY OF RECOMMENDATIONS
FOR THE FIRST REVISION OF ANSI C107.1-()

NOTE

All recommendations were listed in the covering letter for the letter ballot except (C), which was submitted with an affirmative vote.

A. Proposed by Mr. C. C. Travis

"While it may not be practical at present to exercise meaningful control over the disposition of devices and equipment in which small capacitor units are used (see paragraph A2, page 8), we cannot conclude that meaningful control will not be practical in the future. Accordingly, in view of such a possibility, the devices and/or equipment should be labeled to the extent of showing that some components contain PCB's. A label will facilitate control over disposal at a later date if determined to be practical."

B. Proposed by Mr. W. B. Papageorge

"A recent incident in which askarel fluid in a transformer on its way to the customer was permitted to drain onto farmland dramatically highlights the need for specific instructions that can be made available to private and public carriers to instruct them in the proper handling of askarels during emergency conditions."

C. Proposed by L. E. Wagner

"Total disposal can be accomplished at 3000°F with only half second retention time. In actual operations we have proven that the factors involved in proper disposal of askarel are:

1. Retention time
2. Temperature
3. Concentration

In other words, we can and have, in fact, accomplished the proper destruction of askarels by limiting the concentration of askarels to 5% in the total liquid stream to be destroyed. We feel that this should be considered in the next revision."

D. Proposal Submitted by Mr. P. L. Derby (ATTACHED)

PROPOSAL

A system for handling, shipping and disposing of transformer grade, sample service askarel wastes to provide environmental safety.

Servicing of askarel-containing transformers requires the drawing of representative samples of the fluid. Generally, two to four quarts are obtained from the main drain valve and an additional quart from the sample bottle rinse. The procedure is repeated for a transformer top sample. The waste quantity will vary from one to two gallons per transformer, depending on service company procedure. Integrity of containers presents a problem, as does the possibility of accidental spills during handling. Such spills could result in sewer or ground contamination. In addition, prolonged storage and deterioration of the filled containers could cause leakage and further contamination. Another potential source of contamination is damage during shipping. Lack of a simple, efficient disposal system may be the reason for unauthorized disposal of the askarel wastes into rivers and streams.

Standardized containers and collection procedures, a means of solidifying the askarel wastes, and authorized disposal should help eliminate the environmental threat.

The system we propose is as follows:

Providing a fiberboard carton containing four one-gallon plastic cube containers with appropriate closures and a four-pack fiberboard pre-addressed package.

Each cube container will be loaded with a pre-determined quantity of Dow Imbiber Beads, a product that will solidify the waste askarels within minutes.

The outer package is pre-addressed for delivery to an authorized solid waste incinerator or supervised dry land fill site for disposal.

The advantages of the system we propose are:

- .. A standard container for disposal.
- .. A method for solidifying the askarel wastes to prevent leaks or other accidental contaminating spills.
- .. A method of environmentally sound containment when disposed of in dry land fill and assurance that such disposal will be accomplished by authorized personnel and procedures.
- .. A product and container that meets the requirements for environmentally sound high temperature incinerator disposal.