american national standards institute, inc.

Address Secretary at:
National Electrical Manufacturers Association
155 East 44th St., New York, N. Y. 10017
Telephone: 212-682-1500

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 TR-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 accummulated 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.

Cont'd- - -

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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, Secretary

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

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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 totel liquid stream to be destroyed. We feel that this should be considered in the next revision."

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

EXHIBIT "A"

DSW 324017

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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.

DSW 324018

EXHIBIT "A"

STLCOPCB4075366

PERSONNEL OF ANSI COMMITTEE, C107
ON USE AND DISPOSAL OF ASKAREL
AND ASKAREL-SOAKED MATERIALS

SCOPE: Procedures and guides for the safe use, maintenance and disposal of askarel and askarel-soaked materials used in electrical equipment.

CO-SECRETARIATS: MONSANTO-NEMA

CHAIRMAN: W. P. Papageorge
Monsanto Company
800 N. Lindbergh Blvd.
St. Louis, Mo. 63166
(314-694-1000)

SECRETARY: A. M. SALAZAR, NEMA

ORGANIZATION REPRESENTED:	NAME AND BUSINESS AFFILIATION	CLASSIFICATION (SEE SUMMARY)
NATIONAL		
Certified Ballast Manufacturers Assoc. (CBMA)	N. R. Clark Universal Manufacturing Company 902 Crescent Ave. Bridgeport, Conn. 06607 (203-336-0161)	M
	Dr. A. Pozefsky General Electric Company Industrial & Power Capacitor Products Dept. John Street Hudson Falls, N. Y. 12839	M
Electric Light & Power (ELP)	F. R. Lengefeld Union Electric Co. Box 149 St. Louis, Mo. 63166 (314-621-3222)	U
	H. A. Onishi Commonwelath Edison Co. 1319 So. First Ave. Maywood, Ill. 60153 (312-294-4321)	U
	Alternate J. J. Cawley Edison Electric Institute 90 Park Ave. New York, N. Y. 10016 (212-986-4100)	DSW 324019

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ORGANIZATION REPRESENTED	NAME AND BUSINESS AFFILIATION	CLASSIFICATION (SEE SUMMARY)
Electronic Industries Association (EIA)	Arnold S. Doty Technical Services Laboratory P. R. Mallory & Co. Inc. P.O. Box 706 Indianapolis, Ind. 46206 (317-261-1621)	M
Institute of Electrical & Electronic Engrs. Inc. (IEEE)	E. L. Raab General Electric Company Power Distribution Division 100 Woodlawn Ave. Pittsfield, Mass. 01201	S
National Electrical Mfrs. Assn. (NEMA)	Dr. K. C. Chang Central Moloney Transformer Division Colt Industries P.O. Box 101 St. Louis, Mo. 63166	M
	W. S. Grogan Power Distribution Division Allis-Chalmers Corporation Columbus & Preble Aves. Pittsburgh, Pa. 15233 (412-322-4400)	M
	R. D. McClain Westinghouse Electric Corporation P.O. Box 341 Bloomington, Ind. 47402 (812-332-4421)	M
	H. R. Rowe McGraw-Edison Power Systems Division 1520 Emerald Rd. Greenwood, So. Carolina 29646 (803-223-2311) Alternate: Ken McGee Sangamo Electric Company P.O. Box 359 Springfield, Ill. 62705 (217-544-6411)	M
GOVERNMENT		
Department of the Army	D. M. Crabtree Facilities Engg. Division Office of the Chief of Engineers Department of the Army Washington, D. C. 20314 (202-693-6577)	G

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ORGANIZATION REPRESENTED	NAME AND BUSINESS AFFILIATION	CLASSIFICATION (SEE SUMMARY)
GOVERNMENT (CONT'D)		
Environmental Protection Agency	Dr. Kenneth J. Hood Environmental Protection Agency Measurements & Instrumentation Branch Washington, D. C. 20460 (202-522-1653)	G
General Services Administration	Charles C. Travis Federal Supply Service, Room 511 General Services Administration Washington, D. C. 20406	G
National Bureau of Standards	Dr. Stanley P. Wasik National Bureau of Standards Room A145 Chemistry Building Washington, D. C. 20234	G
Rural Electrification Administration	Dr. John Leutritz, Jr. Timber Products Specialist Distribution Engineering Branch Power Supply, Manager and Engg. Standards Division Rural Electrification Administration Department of Agriculture Washington, D. C. 20250	G
Tennessee Valley Authority	William R. Nicholas Division of Environmental Research and Development Office of Health and Environmental Science Tennessee Valley Authority Chattanooga, Tenn. 37401	G
INDIVIDUALS		
Rollins-Purle Inc.	H. A. Alsentzer Rollins-Purle Inc. P.O. Box 2349 Wilmington, Delaware 19899 (302-658-8541)	S
Electrical Utilities Company	A. O. Hauser Electrical Utilities Company 2427 St. Vincent Ave. La Salle, Ill. 61301 (815-223-1732) Alternate: Dr. E. M. Moore	M

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ORGANIZATION REPRESENTED	NAME AND BUSINESS AFFILIATION	CLASSIFICATION (SEE SUMMARY)
INDIVIDUALS (CONT'D)		
Gilbert Associates Inc.	R. J. Schatz Gilbert Associates Inc. 525 Lancaster Ave. Reading, Pa. 19603 (215-376-3873)	S
Monsanto Company	W. P. Papageorge Monsanto Company 800 N. Lindbergh Blvd. St. Louis, Mo. 63166 (314-694-1000) Alternate: P. G. Benignus	M
Doble Engg. Company	A. L. Rickley Doble Engineering Company 32 Locust Street Belmont, Mass. (617-489-2830)	S
Chem-Trol Pollution Services Inc.	Louis E. Wagner Chem-Trol Pollution Services Inc. P.O. Box 200 Model City, N. Y. 14107 (716-754-8231)	S

SUMMARY

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