



american national standards institute, inc.

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MINUTES:

MEETINGS OF CAPACITOR AND TRANS-
FORMER WORKING GROUPS; OF THE
ANSI COMMITTEE, C107, ON USE AND
DISPOSAL OF ASKAREL AND ASKAREL-
SOAKED MATERIALS

PLACE OF MEETING:

O'HARE INN
DES PLAINES, ILL.

DATE AND TIME:

WEDNESDAY, DECEMBER 15, 1971

JOINT SESSIONS

10:15 A.M. - 11:30 A.M.
3:30 P.M. - 4:30 P.M.

SEPARATE SESSIONS OF THE
WORKING GROUPS

11:45 A.M. - 3:30 P.M.

MEMBERS PRESENT:

Capacitor Working Group

N. R. Clark
E. G. Hammer
J. F. Kuzela
R. D. McClain
E. M. Moore
A. Pozefsky (CHAIRMAN)

Transformer Working Group

W. S. Grogan
F. R. Lengefeld
E. L. Raab (CHAIRMAN)
W. C. Reinhardt

A. L. Rickley
T. K. Sloat

Universal Manufacturing Co.
McGraw-Edison Power Systems Div.
Sangamo Electric Company
Westinghouse Electric Corporation
Electrical Utilities Company
General Electric Company

Allis-Chalmers Corporation
Union Electric Co.
General Electric Company
Central Moloney Transformer Div.
Colt Industries
Doble Engineering Company
Westinghouse Electric Corporation

MEMBERS ABSENT:

Capacitor Working Group

NONE

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Transformer Working Group

D. M. Crabtree

Department of the Army

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OTHERS PRESENT:

*A. Barbaro
**P. G. Benignus
**W. P. Papageorge
A. M. Salazar

CDC International Inc.
Monsanto Company
Monsanto Company
NEMA Staff

PRESIDING OFFICER:

W. P. Papageorge, Chairman
ANSI C107 Committee

*Attended the Joint and Capacitor Working Group sessions only.

**Attendance shared between all three sessions.

I. APPROVAL OF PREVIOUS MINUTES

This being the first meeting of these Working Groups, no previous minutes were submitted for approval.

II. PURPOSES OF THIS MEETING

It was noted that the background leading to the appointment of these two Working Groups and the purpose of this meeting was given in the Secretary's letter of November 18, 1971 (EXHIBIT "A"). The two Chairmen's agenda for the Capacitor and Transformer Working Group meetings are attached as EXHIBITS "B" and "C", respectively.

It was also noted that a brief outline of the Environmental Protection Agency's (EPA) National Disposal Site (NDS) Study, was distributed prior to this meeting. A copy of the outline, which was prepared by Mr. Henry Johnson, Acting Project Manager, Hazardous Wastes Project, of the National Environmental Research Center, is attached as EXHIBIT "D".

JOINT SESSIONS

III. BRIEF REVIEW OF DEVELOPMENTS OF INTEREST, SINCE THE SEPTEMBER 14, 1971 MEETING OF THE FULL ANSI C107 COMMITTEE

Mr. W. P. Papageorge briefed the members on the subject. A copy of Monsanto's recent press release on production figures, which was referred to during this briefing, is attached as EXHIBIT "E".

Mr. Papageorge also conducted a general review of bases that should be used in developing proposals for the Capacitor and Transformer guidelines, for the members' information in proceeding with the separate Working Group meetings.

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Another joint session was held after adjournment of the separate Working Group meetings, to compare the progress made at each meeting and arrive at a time and place for the next meetings.

SEPARATE SESSIONS
OF THE WORKING GROUPS

IV. CAPACITOR WORKING GROUP
Dr. A. Pozefsky, Chairman

SECRETARY'S NOTE

The record of the results of the discussions at this meeting is recorded in Mr. R. D. McClain's letter of December 31, 1971, attached as EXHIBIT "F".

V. TRANSFORMER WORKING GROUP
E. L. Raab, Chairman

The record of the results of the discussions at this meeting were excerpted from the Chairman's notes, as follows:

1. Raab called attention to EEI Publication 6371 "A-C Network Operations, 1959-1961". Page 4 lists Failure rates for Area Surveyed.

2. Answers to five questions:

<u>No.</u>	<u>Raab</u>	<u>Reinhardt</u>
1	5000	3500
2	235 avg. (40-500) Range)	400
3	1 to 1.3%	1%
4	0.2%	Less than 0.5%
5	100,000	125,000 - 150,000

Allis-Chalmers (Grogan) & Westinghouse (Sloat) will check above figures with their records.

First units were built in 1932

3. Discussion held on disposal of solids and liquid scrap:

a. GE has done some study on vapor phase cleaning and results show 85-93% efficiency.

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b. Flushing method of cleaning has proved less efficient.

c. Firms identified for liquid and software disposal were Rollins Perle, Chem-Trol and Globe Metals.

E. Raab will take responsibility to write-up. This will include list of companies that handle waste plus a list of disposal methods, backed by efficiency of result. (Items 4 and 6 on agenda).

4. Transformer General, Manufacturing and Repair Guidelines, should cover both manufacturing plants and service facilities, from receipt of liquid to installation.

T. Sloat will be responsible for investigation and recommendations. Some items to be covered are:

- a. Mixture of fluid
 - b. Disposal of non-returnable drums
 - c. Treatment facilities employed in handling askarel.
 - d. Handling of spills.
 - e. Filling process
- (Item 2 of agenda)

5. Operating guidelines for transformer users will be proposed by W. Reinhardt. This will include such things as normal make-up, dealing with failures involving ruptured tank leaks, spills and inspection. Main concern is environment. Special recognition should be given to submersible type units in vaults. (Item 5 of agenda).

6. Control of water and vapor effluents including recommended limits for water effluents, as well as identification of analytical procedures.

To be reported on by W. S. Grogan (Items 3 and 7 of agenda).

7. Liquid and solid disposal services including identification of existing facilities and possible development of new facilities will be handled by A. Rickley (Item 8 of agenda)

8. Whether or not warning labels should be put on. Transformers and the wording will be investigated and recommended by F. Lengefeld. (Item 9 of agenda).

9. Comments should be mailed to the Chairman for distribution before next meeting, if possible.

10. Standardization of liquid not desirable for power transformers since the range of application is wide and what is best for one application is not necessarily the best for another.

11. The question of available substitutes will not be treated separately but should be covered in the "Fact Sheet".

VI. TIME AND PLACE OF THE NEXT MEETING

The Working Groups concurred that the next meeting should be at 8:30 A.M., on February 8-9, 1972, at the Marriott Motor Hotel, Chicago, Ill.

VII. ADJOURNMENT

There being no further business before the Working Groups, the meetings were adjourned at 4:30 P.M., having recessed for lunch between the hours of 12:00 P.M. - 1:00 P.M.

A. M. Salazar, Secretary
ANSI C107 Committee

AMS:dk

ATTS: EXHIBITS "A" - "F"