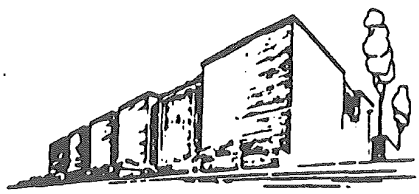
GENERAL ELECTRIC COMPANY
POWER DELIVERY GROUP
Group Technical Resources Operation
100 WOODLAWN AVE., PITTSFIELD, MASS. 01201 . . . TEL AREA CODE 413, 443-3511



PITTSFIELD
MATERIALS AND TECHNOLOGY
LABORATORY

SUBJECT:
ANSI C-107 WORKING GROUP ON TRANSFORMERS
INDUSTRY ESTIMATES FOR ASKAREL-FILLED TRANSFORMERS

March 29, 1972

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Gentlemen:

As promised at our last meeting, here's the results of our questionnaire on askarel transformers.

Question 1: For the industry in this country, about how many askarel-filled transformers are made in a year?

Answers: General Electric - 5000/year
Westinghouse - 3500/year
Allis-Chalmers - 4000/year
Central-Moloney - 3500/year

Question 2: For the industry in this country, what is the average gallons of askarel per unit?

Answers: General Electric - 235 gals./unit
Westinghouse - 300 gals./unit
Allis-Chalmers - 270 gals./unit
Central-Moloney - 400 gals./unit

Note: (a) Per unit gallons fill ranged from 40 to 500.

(b) Central-Moloney does not make small KVA sizes, hence the higher number.

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Question 3: For the transformer manufacturers, what is a good average failure rate during manufacturing and test, e.g., % per year of units manufactured?

Answers: General Electric - Less than 2.0%
Westinghouse - 2.0%
Allis-Chalmers - Less than 1.0%
Central-Moloney - 1.0%

Question 4: For the askarel transformer users, what is a best estimate of the failure rate per units in service, e.g., % failures per year of total askarel transformers in use today?

Answers: General Electric - Less than 0.3%
Westinghouse - 0.5%
Allis-Chalmers - Less than 0.5%
Central-Moloney - Less than 0.5%

Question 5: What is the best estimate (order of magnitude) of the total number of askarel transformers in use today?

Answers: General Electric - 100,000
Westinghouse - 90,000
Allis-Chalmers - 100,000
Central-Moloney - 125,000

Very truly yours,

E. L. Raab, Manager
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ELR/ps

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