bcc: H. S. Bergen
D. A. Olson
R. H. Munch
W. R. Richard
P. S. Park
G. R. Graham
J. G. Bryant

February 23, 1970

Mr. Wm. Mutchler
ITE Circuit Breaker Company
601 East Erie Street
Philadelphia, Pennsylvania

Subject: Arc-Formed Gas From Aroclor 1242

Dear Mr. Mutchler:

Dr. Munch, Randall Graham and I appreciated opportunity to visit you and Henry Meyers to present results of Dr. Munch's recent laboratory studies showing that the gas mixtures formed by arcing Aroclor 1242 and certain blends of Aroclor 1242 with chlorobenzenes are flammable over a limited range when mixed with air. We felt obligated to appraise you of this because the arc formed gasses from transformer askarels commonly used in the past, which have a chlorine to hydrogen ratio of one (or higher), were found non-combustible when tested under similar conditions in the laboratory.

As the scope of our laboratory studies is limited, and as Monsanto is not equipped to build prototype transformers and study the characteristics of the arc-formed gasses under more practical operating conditions, we feel that you will want to carry out such studies to your satisfaction before deciding whether or not to adopt the use of Aroclor 1242 in askarel transformers.

Very truly yours,

P. G. Benignus
Market Manager
Dielectric Fluids

/dn
cc: Mr. Henry Meyers
ITE Circuit Breaker Co.
601 East Erie Street
Philadelphia, Pennsylvania

DSW 200453