P. G. Benignus - B2SH

July 19, 1971

Cable Oils

H. S. BERGEN - B2SA

T. L. Gossage - B2SL
R. H. Munch - 1760
W. R. Richard - T3A
J. R. Savage - B2NB
N. T. Johnson - B2SG
J. R. Fallon - B2SH
J. G. Bryant - 1650
P.J.A. Marsh - 5040

DATE: July 19, 1971

COMPANY: Weyerhaeuser
Fitchburg, Mass.

CONTACTED: Dick Coswell
Sam Doak

FOR MONSANTO: R. H. Munch, J. G. Bryant, P. G. Benignus

Weyerhaeuser is the sole domestic producer of cable paper. They compete with imports, mainly from Sweden.

Ref. book "Underground Power Transmission", Federal Power Commission, Washington, D.C., April, 1966.

1. Symposium on High Voltage Cable Insulation, ASTM Special Technical Publication No. 253 (1960) (Library of Congress Catalog Card No. 60-15016)

2. IEEE Transactions Paper No. 69TP-44-PWR, History & Design Parameters of High Pressure Pipe Type Cables in the Western Hemisphere Operating at 69 KV & above

3. IEEE Winter Power Meeting 1970, Technical Papers on the EEI Manufacturers 500/550 KV Cable Research Project, Paper No. 70C26-PWR

4. Ed Eick, Power Technology, Inc., P.O. Box 284, Millwood, New York, 10546, Phone (914) 941-8435 (World Consultant)

5. High-Voltage Cable Insulation, ASTM Publication No. 253, 1916 Race Street, Philadelphia 3, Pa.

In the U.S. mainly the pipe type cables are used. These are not buried in the ground. They are laid through underground net-works. These use the 800 SUS at 100°F oil and the volume of oil per foot is relatively high. Polybutene and blends of polybutene and dodecyl benzene and tridecylbenzene or high vis. mineral oils are used at 200 psi. These are high voltage 138 KV to 230 KV to 345 KV and high pressure cable.

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In Europe and Canada and So. America the self contained type Pirelli cables are used. These use the 100 SUS at 100°F vis. oil. They are low pressure, high voltage cables and the oil is low viscosity. Oil flow is low. It may be through a hollow core center and the outer section is filled with high viscosity polybutene or the cable may be entirely filled with the low viscosity oil.

The cable manufacturers are:

1. Anaconda Wire & Cable
   Hastings on Hudson, N.Y.
   John Engelhart (took place of Ed Eich)
   Dr. Bob Blodgett (New York office)

2. Phelps Dodge Cable & Wire
   Yonkers, N.Y. Foot of Point Street
   Dr. Geo. Bader

3. Okanite
   Ramsey, New Jersey
   Domonic Alia

4. General Cable Corp. (close to BICC)
   Bayonne, New Jersey
   Geo. Eager

5. Canada Wire and Cable
   Commercial Street
   Toronto, Ontario
   Shelia Hepferin

When Monsanto has learned how to correct the acidity and if possible the power factor-oxidation increases of our proposed alkylate fluid for cables - then Dr. Munch and the writer will wish to call on the cable manufacturers to determine the desireability for Monsanto to offer our alkylate for cables, in the USA market area.

P. G. Benignus

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