12/21/72

1972 Accomplishments
Electrical Fluid

1) MCS 1043 process has been established and product has been shown to be a satisfactory capacitor dielectric impregnant with improved biodegradability but less fire resistance than Aroclor 1016

2) MCS 1238 a new non halogen containing capacitor dielectric impregnant has been developed and shown to give life test results in capacitors equivalent to Aroclor 1016 both in our own laboratory and by a customer

3) A capacitor dielectric impregnant containing only C, H and O has been developed and shown to give capacitor life test results equivalent to Aroclor 1016 in our laboratory

4) Developed new potential hi DK capacitor fluids.

5) A new type of shipping drum which causes less contamination and deterioration of electrical fluid properties has been defined and tested

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6) Particulate matter found floating in Aroclor obtained to SE was identified as polypropylene dissolved from filter cartridges which the fluid passed through and reprecipitated when the fluid cooled.

7) Did preliminary work on use of H230L as a cable fluid and demonstrated that this material could be upgraded to give the necessary electrical properties and that with a suitable inhibitor it can be kept from degrading due to oxidation.

8) Initiated work to see if a high impulse strength synthetic transformer fluid could be developed and found reason to hope that this can be done.

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1973 Threats

1) Potential competitive capacitor impregnants are being market tested by two of our customers.

2) Westinghouse seeks to set up a competitor to manufacture chlorinated

biphenyl and blends thereof for transformer use,

3) Film poly and/or metallized film capacitors may turn out to offer enough cost/performance benefit to displace our products from some part of the capacitor market,

1) Establish whether or not a fire resistant capacitor fluid has sufficient real advantage in terms of safety to life and property to justify the potential risk due to slower biodegradation,

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1973 Potential Projects

2) Evaluate our potential competitive position in the capacitor fluid market relative to other contenders by securing samples or competitive data, or if necessary, by test marketing one or more of our non PCB fluids.

3) Evaluate the real worth of hi DK fluids and see if any of the potential candidates we have developed can satisfy the need if it is real.

PKHn.

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