Mr. O'Neal 2/15/40

CC Mr. Weaver
Mr. Clegorn

AROCLOR TESTING

For the testing of Aroclor 1254, we now have at least emergency equipment for the testing of the following items:

Viscosity
Sp. Gr.
Pour Point
Color
Acidity
Evaporation
Distilling Range
Resistivity
Aging Characteristics
Free Chlorides

We have not ordered equipment for:

Burn Point
Dielectric Constant
Dielectric Strength
Power Factor

The Burn Point was never found outside of specification and can only occur thru contamination. Many of the other tests will detect contamination although I would not say that they will always do so. The Burn Point equipment is inexpensive. If much 1254 is made here, purchase of equipment may be advisable.

Dielectric Strength test was never made at Anniston. For control work, it seems altogether unnecessary. For research on dilectrics this equipment would be of value and I understand St. Louis has such equipment.

Dielectric Constant is a characteristic of Aroclor of a given composition and is otherwise not subject to control.

While G. E. would doubtless object to high power factor, this item is not included in any specifications I have seen. Our former practice was to determine power factor but (by request) to withhold the value on reports going to G.E. With high resistivities, low power factors were usually found.

As you know, resistivity is the only electrical test for which we have made preparation. As a matter of information, I have written General Radio Company for their recommendations on Power Factor equipment, but no purchase is contemplated unless you feel that this is justified.

P A. B. Gerber

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