P. G. Benignus - St. Louis

August 13, 1970 H. S. Bergen - HBERG

Thermal Stability of the Power Factor
Aroclor 1242

J. DURLAND - TOKYO - MMK

Dear John:

Please regard this as a private communication between yourself, Howard Bergen and myself. As both Dr. Munch and Dr. Richard are away on vacation I don't have a chance to get their wishes about transmitting the data reported by Dr. Richard in his July monthly summary. In any event Howard and I share your concern for insight as promptly as possible on this problem that has you bottle necked at the market place.

Certainly the attached gives you insight and it also indicates an expedient to handle the problem by means of an additive. Of the various additives mentioned, it would appear that Unox 221 would be the most feasible.

Regards incorporating an additive, indeed the point is well taken that one would have to know how bad the level of power factor instability is for a given batch to know how much additive should be incorporated for that given quality material.

The final samples were just now received. I know that Dr. Munch has not had a chance to explore them. Also he has not had opportunity to get a desired broader insight of the variation of our normal USA production. I do know that he has found considerable variation extending all the way from good to "bad". Therefore, he seeks broader insight to get a feel for the magnitude of this problem both on our material and yours.

This, then, is directed at exploring whether certain basic steps might be incorporated into the manufacturing process to correct the problem. At this time I realize that Ralph does not know how long it will take him to study this. Until such study has been made we have very little insight about the feasibility of possible process changes.

We do agree that if the process could be changed to reconcile this matter and if it were not too costly to do so, this then would be the ideal and fundamental solution.

Relative to this it is very interesting to note that when Kaneclor 300 was refined by porocel treatment this caused Kaneclor 300 to fail the test. Yet on testing we cannot find

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an additive. However, our work also shows that a very small level of additive appears effective. We would have difficulty ourselves in determining such a small amount of additive in Aroclor.

Both Howard and I feel justified in passing this interim report from research to you. Suggest that you avoid acknowledgment, as we hope that in the not distant future you will get a more complete report from our research people.

Best regards,

P. G. Benignus

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