1. xc R Stenger
L Johnson
FYI.
2. file Dielec CE.

October 10, 1974

Dr. Robert Stenger
General Electric Company
Capacitor Products Department
John Street
Hudson Falls, New York 12839

Dear Dr. Stenger:

I am writing to give you some information on the samples of fluids we have sent to you recently. These are:

Sample	DK 100°C	tan δ 100° C 60 Hz	R_s ohm cm, 100°C
55 gal. MCS 1489	6.58	.030	1×10^{12}
10 gal. MCS 1717	6.47	.012	2×10^{12}
5 gal. MCS 1719	4.33	.042	1×10^{12}
5 gal. MCS 1633	5.15	.038	1×10^{12}

The MCS 1489 you will remember is our Aroclor 1016 base high dielectric constant fluid which you have been working with for some time. This sample is to permit you to continue your work.

The MCS 1717 is an analogous material made with MCS 1043, our most biodegradable chlorinated biphenyl fluid, as the base stock. It offers the advantage of high dielectric constant and at the same time has a much greater rate of biodegradation than Aroclor 1016 or mixtures using Aroclor 1016 as the base stock.

MCS 1719 is a hydrocarbon base fluid with a dielectric constant close to that of DOP. It contains no hydrolyzable components and should be comparatively easy to purify and use. The hydrocarbon base is the same as that used in MCS 1588.



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MCS 1633 is a new hydrocarbon base fluid designed to have a dielectric constant similar to that of Aroclor 1016. We think that it may offer a significant price advantage over MCS 1238 and MCS 1588, our other hydrocarbon base fluids, while retaining their other advantages.

All of these fluids should be used with an epoxide stabilizer.

Bill Solberg has asked for vapor pressure data on MCS 1588. You will find a curve attached to this letter which gives such data. We trust that it will give you the information you need. Please do not hesitate to ask if you need further data.

We are continuing our research to improve manufacturing processes to gain lower selling prices and better performance for these materials and look forward to worthwhile improvements.

Please keep us informed on the status of your tests on our materials so that we will be able to direct our efforts most effectively.

Sincerely,

Ralph H. Munch

js
cc: Mr. W. O. Solberg
G.E.
Hudson Falls

bcc: W. R. Richard
J. G. Bryant
D. Wood/C. Paton

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