Mr. O'Neal

4/25/41

AROCLOR TESTING

For the determination of dielectric constant of Aroclors as recently requested by General Electric, an oscillator, capacitance bridge, and null detector will be required. These items, recommended by General Radio and checked by Mr. Alexander, come to $815 list according to catalogue. It is believed these are sufficient though it is possible a condenser at $38 may later be found desirable.

Although General Electric does not require it, power factor measurements are important in checking the quality of Aroclors. This was previously determined here. It requires the items mentioned above for dielectric constant and in addition would require a test cell at about $120 and probably a guard circuit at $190. It is barely possible that these items are not required. At any rate, trials can be made without them.

At present then the indicated outlay is about $815 with a possible additional $350 later. No installation is involved except perhaps for a copper lined box, made locally, to house and shield the equipment.

General Electric also asked for refractive index. We obtained transfer of a refractometer from Research and refractive index values will be shown henceforth. We have also obtained APH color standards and their use has just been started.

P Gerber

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