Monsanto

FROM (NAME & LOCATION) G. W. Miller - Anniston, Alabama

DATE : November 25, 1969

SUBJECT : AROCLOR QUALITY

REFERENCE :

TO : W. A. Kuhn

CC: W. B. Papageorge
H. L. Williams
M. B. Mullally
R. A. Haydel
V. R. Haupt
J. C. Landwehr

Hill Williams requested that I review the analytical testing sequence used to assure quality on electrical grade Aroclors. To simplify the measurement-surveillance sequence, I have listed it below, step-by-step.

1. Three 1/2-gallon and one 5-pint sample of electrical grade Aroclors are collected by the operating department and delivered to the analytical laboratory. The operator is further responsible to log the samples into the lab sample log giving product, lot number, time, container number, and his initials.

2. The major portion of all Aroclor analyses is completed by two lab technicians who have been especially trained to carry out Aroclor analytical procedures with greatest precision.

3. Two of the 1/2-gallon sample bottles are used for routine testing to develop the specification test results which are reported to all customers upon request. Upon completion of the analyses, the technician in charge checks the results to see that the specification interrelations are in order and that the product results appear normal in all respects.

4. The technician then logs the data onto quality surveillance charts which provide visual description of trends and abnormal values.

5. The remaining 1/2-gallon sample bottle is given an additional seal and placed in storage in the reserve sample storage room. The 5-pint sample is saved in the sample shipping department until notice of lot shipment is received. If the car is shipped to a customer who demands a preshipment sample, this 5-pint sample is sent Air Mail one day after car shipment. Normal air service to New England customers is three days which usually provides a five day period for testing prior to receipt of the car.

6. At the end of each day, the lab supervisor carefully checks the analytical tickets and provides a copy to the shipping department for their records.

7. Analytical data is filed in the permanent records and logged in the product log book.

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8. Upon receipt of shipment notice, the secretary prepares a handwritten copy of the certificate of analyses, attaches the original analytical ticket and has this information reviewed by the lab supervisor for accuracy and correctness of the results and their transcription.

9. After receiving approval of the transcription, the analytical quality certificates are typed, then checked and signed by the Chief Chemist.

This procedure may on the surface seem rather involved and repetitive; however in the dielectric business with acutely quality sensitive customers, it is imperative that the testing and result reporting be accomplished with no error. In the five years of experience I have had with this system, only two problems have occurred.

I hope the above information is what you requested from Hill Williams.

G. W. Miller

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