**Monsanto** — **CALL REPORT – ORGANIC DIVISION**

DICTATE IN SEQUENCE:
1. HEADING INFORMATION
2. NAMES OF ADDRESSEES
3. NAMES OF CARBONEES
4. IMMEDIATE ACTION NEEDED
5. REPORT ON CALL

REPORT CAPTIONS:
1. OBJECTIVE
2. PERSONS CONTACTED
3. RESULTS
4. ACTION REQUIRED

| CUSTOMER NAME | | | | | | DATE OF CALL |
|---|---|---|---|---|---|---|
| ELECTRONIC COMPONENTS | | | | | | 1/26/70 |
| CITY AND STATE | | | | DATE RECEIVED | | DATE TYPED |
| BRIDGEPORT, CONN. | | | | | | |
| CUSTOMER MAILING LIST CHANGES – SERVICE CENTER USE ONLY | | | | | | |
| NAME AND TITLE | | PUT ON | TAKE OFF | MP | MAG. | CATEGORY CODES |
| | | | | | | |
| | | | | | | |
| REGION | SERVICE CENTER | SALESMAN | | | | |
| EASTERN | NEW YORK | R. GRAHAM | | | | |

TO P. G. Benignus - St. Louis CC D. A. Olson
R. H. Munch
Roy Ehrhardt-Mary Maginnis - New York

Personnel Contacted: Ray Clark, General Manager
Glenn Rayno, Capacitor Engineer
Mike Gionotti, Laboratory Technician
Ed Wickson, Purchasing Agent

For Monsanto: Dr. R. Munch and Walter Trump, Research
R. Graham, Sales

Purpose of Call:

For Dr. Munch and Walt Trump to discuss capacitor life tests. Clark and Rayno showed them life test equipment and discussed in detail. Additionally, they supplied Tecumseh specifications for "AC" motor run capacitors and G. E. specifications for same.

Ray Clark offered to supply Dr. Munch with unimpregnated capacitors for test purposes. He offered a 3 micro farad ballast for $0.35 (unimpregnated).

Misc. Information:

Film capacitor, to be competitive to paper/Aroclor, must operate at higher stress rate; from 1000 volts/mil to 1500 volts/mil.

Electronic Components run tests at 93-94° C. oven temperature which gives a case temperature of 100° C. and a second series of tests are run at 100° C. oven temperature using mercury vapor capacitors and obtaining a cover temperature of 105-110° C.

Electronic Components currently supplying Sylvania with mercury vapor lighting capacitors.

Tecumseh tests are an outgrowth of G.E. tests and Tecumseh buying 70% of their requirements from G. E.

5-337 (REV. 12/68)

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DSW 162143

STLCOPCB4040743

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| ELECTRONIC COMPONENTS - Page 2 | | |
| CITY AND STATE | DATE RECEIVED | DATE TYPED |

CUSTOMER MAILING LIST CHANGES – SERVICE CENTER USE ONLY

| NAME AND TITLE | PUT ON | TAKE OFF | MP | MAG. | CATEGORY CODES |
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| REGION | SERVICE CENTER | SALESMAN |
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TO CC

Clark reports that HCl additive eliminates tap failures. Here is where many failures occur due to concentration of current, mechnical stress, and heat.

In life testing, size of capacitor makes a lot of difference; however, for most purposes, can learn almost as much with small ballast as with larger capacitors (won't detect marginal failure of larger unit). KVA is a critical factor -- you never have enough capacity but, by using ballasts for testing, can keep this requirement at a reasonable level.

Film Capacitors:

Rayno reports that they are unable to obtain a plastic film ~~below 1/2 mil. At present, can only obtain 0.8 to 1.0 mil.~~

~~Glenn reports that when working at G. E. he never saw a good~~ film capacitor wound. There are many problems in ~~wi~~WINDING polypropylene ~~film (without paper). Some of these are: static electricity and,~~ therefore, dirt; either wound too tight or too loose with many ~~creases and folds; slipping and sliding is a severe problem and the ends of the~~ capacitor rolls are quite shoddy. This also applies to film and paper but, supposedly, G. E. has been able to work these problems out on their larger capacitors (power factor).

Rayno reports that, since polypropylene dissolves in Aroclor at 95° C., internal capacitor temperatures must be kept below 80° C. in film capacitor.

At present, Electronic Components have a preheating cycle for drying paper/Aroclor capacitors. They heat capacitors at 150° C. for 5 hrs. in oven. Formerly, capacitors were heated 24 hrs. in vacuum chamber. This power heat followed by vacuum drying for several hrs. prior to impregnation.

Rayno reports G. E. evaluated phenolic cases for capacitors around 1962. He considered these evaluations a failure even though theyware classified marginally successful at the time.

S-331 (REV. 12/68)

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Monsanto

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|---|---|---|
| ELECTRONIC COMPONENTS - Page 3 | | |
| CITY AND STATE | DATE RECEIVED | DATE TYPED |
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CUSTOMER MAILING LIST CHANGES – SERVICE CENTER USE ONLY

| NAME AND TITLE | PUT ON | TAKE OFF | MP | MAG. | CATEGORY CODES |
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| REGION | SERVICE CENTER | SALESMAN |
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TO _____ CC _____

Future Action:

R. Graham write letter to Glenn Rayno re Spring visit to W.G.K. plant. He would like for Mark Resko, Mike Gionotti, and himself to visit sometime in May. Must determine whether they want to have some training in analytical techniques, etc.

Additionally, send Mike Gionotti a copy of the HCl scavenging test for Askarel.

5-331 (REV. 12/68)

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