cc: J.F. Herber
C. Paton

MINUTES - DIELECTRIC REVIEW

(Numbers Refer to Attached Agenda)

I/II. 1974 sales developing satisfactorily with improvement in the Ex-US manufacturing profitability in April.

Communications on ROW shipments in UK need improvement to safeguard market position.

* (Action DW/PJAM)

IV. Reviewing forward RM position. Biphenyl does not seem to be a problem. Chlorine is short (up to 750 tons short in July 1974).

We need to monitor chlorine availability closely in relation to Monochlorobenzene startup.

* (Action JRS)

Aroclor has priority over Penta on Chlorine.

Jim Savage reported favorable results on Benzene with higher toluene content 25 ppm. Further work proceeding. Methyl Biphenyl does not seem to affect stability.

V/1. MCS 1489

Provides 10-11% saving of paper foil.

However, the increase in Aroclor prices which have moved faster than paper/foil has reduced the attractiveness of MCS 1489. (Current price 47¢/pound).

Major area of interest in Motor Run units not ballast or power capacitors.

Following on sample programme in July/August 1973 only place where full scale tert has developed in Electrical Utilities. Need product now for air conditioner capacitors. Delay will put back trial by a year.

Reported power factor problems on current Krummrich production batches.

* (Action JAB/JRS/PGB Review)

Jard comments DK too high on 1489 involving running two fluids in plant. Intermediate DK would assist wider use of 1489.

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Minutes - Dielectric Review, Continued

V/2. Effect of EPA Standard

June 26, give or take two weeks, is deadline for EPA standard on effluents.

Stanley Griffith is condensing material from May 26 hearings for EPA.

Need to Obtain condensed report.

* (Action WBP)

Need to review with legal department line of action after EPA standard issues.

Noted that Sangamo support local legal action.

WBP reported two consultant groups studying

a. Economic penalties of PCB action;
b. Cleaning up PCB's.

* (Action WBP - work with those consultants)

Attitudes on PCB in USA

Transparency copies cover situation in Japan, Australia, Taiwan, India.

PJAM reported four areas of significance in Europe.

a. Sweden - closest to possible ban - operate annually renewable license to supply and use.

b. East Europe - No overt concern.

c. EEC - relying on OECD to recommend action. Rules are tight, but practical.

d. Switzerland - While PCB is poison listed, it may still be used in transformers and capacitors.

PCB Removal From Effluents

Reviewed data on Demisters/Carbon absorption sand pit absorption.

Decided useful to get audit of which capacitor plants will be affected by EPA standard and effluent procedures.

* (Action PGB/JGB Review)

DSW 283630

Minutes - Dielectric Review, Continued

V/3. Non PCB Fluids

1475 sampled in August/September 1973 gave unsatisfactory results at all accounts.

1588 more promising, but there could be compatibility problems with seals, etc.

Agreed compatibility data should be developed.

* (Action JGB)

The remained difference of opinion on forward development policy on 1489 - 1475 - 1588. Practices need to be agreed.

* (Action CP)

Reviewed Sulphone TXS availability.

a. TSCl transfer price up to 40¢/pound.
b. Alternate process from TSA has yield and reaction rate problem.
c. Other alternatives are:

   1. TSCl ourselves from TSA
   2. TSCl from Toluene
   3. Alternative Sulphone

Non PCB Strategy Ex-USA

Monitor specific interest in non PCB's and only consider sampling if:

1. Ex US account decided to leave PCB.
2. This account is technically competent to test non-PCB taking into account longer communication lines.
3. Total volume is more than $50,000 per year.

* (Action DW - assess Plessey-Ducan against this criteria.)

V/4. Aroclor 1342

UK plant active July 1, 1974. DSW 283631

MESA plan to switch all capacitor customers except East European.

Cost 1-1.5¢/pound more than 1242.

MESA will supply representative production samples for GE special tests in St. Louis.

1254 is fully balanced in transformer fluid sales.

Minutes - Dielectric Review, Continued

V/5. Epoxides

MESA need epoxide in case Russians swing that way.

Taiwan 1M pounds per year need Epoxide.

Non PCB fluids will require Epoxide.

Need to identify Epoxide in Bayer and Prodelec fluids.

* (Action PJAM obtain samples)

V/6. Research - Define transformer fluid based on Aroclor 1248/TCB.

V/7. * JRS is re-evaluating self manufacture TCB in light of Hooker increases.

V/8. PJAM and Dr. Stephenson are reviewing availability of TCB streams from European Lindane manufacturers.

* (Action PJAM will report on this)

VI. New Opportunities

QET reported work on replacement Askarel for transformers. Work will continue.

Nuclear Fusian CP reviewed growth in capacitor demand and recommended joint work with Sangamo.

David Wood

/bi

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