

Monsanto

FROM (NAME & LOCATION)

W. B. Papageorge

B2SK

DATE

November 4, 1974

cc

SUBJECT

PCB SAMPLING - CAPACITOR PLANTS

REFERENCE

file under Pollution
H. S. Bergen
W. C. Engman - 1740
T. L. Gossage
C. Paton
E. E. Stewart - 1740

TO

: ~~Mr.~~ R. Savages

Attached are copies of Cliff Tuttle's proposed schedule and Questionnaires. Will you please review and forward comments to Cliff.

W. B. Papageorge
W. B. Papageorge

/pw

MONS 096089

1974

740 Belleville Ave.
New Bedford, Mass. 02741
617-994-9661

November 1, 1974

Mr. William B. Papageorge
Manager, Product Acceptability
Monsanto Industrial Chemicals Co.
800 N. Lindburgh Blvd.
St. Louis, Missouri 63166

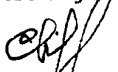
Dear Bill:

Enclosed is a brief set of minutes of the meeting held in Boston on October 30. Accompanying these are two questionnaires... one on each individual discharge and a second summarizing all discharges for single facilities. I also enclose a proposed set of instructions to users on how to complete the questionnaires.

As soon as possible, I would appreciate comments from you on either the questionnaires or the instructions; we propose to send these in the mail on November 7. You will also note in the minutes that we feel we should cover the entire industry and have thought of five other companies that did not attend the meeting in Washington. This leads me to raise two questions to you...

1. is Monsanto willing to also sample and test for these five other companies?
2. have we omitted anyone who is a customer of yours that uses Aroclor 1016 or Aroclor 1242 in the manufacture of capacitors?

Best regards,



Clifford H. Tuttle
President

CHT/eb
Enclosures

P.S. Capacitor Specialties has already asked to be included; Wayne White is the contact man; phone number 714 743-9130. As this facility is so far away from the rest, I suggest

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you schedule it separately. Harold Dubilier of York would also like to be included; phone number 212 387 7110. I suggest we either reschedule everyone down one day the week of November 11 to let York be first or have your man wind up by doing York on November 15 after finishing in New Bedford.

Jessie Butner from Sangomo in Pickens, South Carolina wants to participate in the questionnaire. He feels sample taking is not necessary as they have just finished a go around under Monsanto's guidance. We are still trying to convince Westinghouse and High Energy to participate. The former suggests sample taking will not be required.

MINUTES OF PCB AD HOC COMMITTEE
October 30, 1974
Hilton at Logan, Boston, Massachusetts

Chairman Clifford H. Tuttle called the meeting to order at 9:30 a.m.; registration was by roster. Most of the meeting was spent revising the draft of a Capacitor Grade Aroclor User Questionnaire, a copy of which is hereto attached. When this was completed, Mr. Tuttle reported Monsanto was ready to start taking samples. The Committee therefore established the following schedule for sample taking:

Universal - Totowa, New Jersey	November 11
Universal - Bridgeport, CT	November 12
Cornell Dubilier - New Bedford, MA	November 13
Aerovox - New Bedford, MA	November 14
General Electric - Hudson Falls, NY	November 18
General Electric - Fort Edwards, NY	November 19
Jard - Bennington, VT	November 20
Sprague - North Adams, MA	November 21
Electrical Utilities Co.-Lasalle, IL	November 25
Mallory - Waynesboro, Tennessee	November 26 and perhaps November 27

Dr. Wilson questioned whether there were not other users of capacitor grade Aroclor who had not been invited to the initial meeting by Wayne Peterson. The consensus was that the following five companies had been omitted and perhaps should be considered in this sampling program:

Capacitor Specialties
York
Sangamo
Westinghouse-Bloomington
High Energy

Mr. Rollins agreed to contact all five to see if they are interested in participating. Mr. Tuttle will query Dr. Papageorge

MINUTES

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to determine if there are other capacitor users of Aroclor and to confirm Monsanto's willingness to add these additional companies to the sampling and testing program.

Mr. Tuttle agreed to submit the revised questionnaires and the letter of instruction to the Committee for comments by November 4. The target date is to send the questionnaires and instructions to all participants by Thursday, November 7.

Mr. Tuttle reported that Dr. Papageorge had arranged to have Mr. Stewart of Monsanto provide some information on sampling method, testing techniques, etc. Mr. Stewart has promised to provide Mr. Tuttle 15 copies of each of the following within two weeks.

- 1) A brochure describing a Monsanto developed constant monitoring system.
- 2) A digest of various articles on sampling, monitoring, testing, etc.

Mr. Tuttle will see these are sent to all eight participating companies.

It was agreed that the next meeting will probably be held in Washington early in January assuming EIA has recorded and tabulated the data by then. At that time, the information will be reviewed to determine its worth, the extent of the PCB problem and decide on what action should follow.

Respectfully submitted,



Clifford H. Tuttle
Chairman

COMPANY NAME _____

EPA REGION _____

EIA CODE # _____

INDIVIDUAL DISCHARGE QUESTIONNAIRE*

- 1) This flow is discharged to

Municipal

Navigable Stream

Other

- 2) Daily volume of flow in liters (average over work week) _____

- 3) PCB average concentration in micrograms per liter _____

- a) Peak PCB concentration in micrograms
per liter _____

- 4) Total daily discharge of PCB by weight in kilograms
(average concentration x average flow) _____

- 5) Is this flow treated for PCB reduction before point
of sampling? YES NO

- 6) Is this flow combined with other flows and then treated
for PCB reduction before final discharge? YES NO

- 7) What process steps or spillage points form the inputs to this
discharge? _____

* One of these must be completed for each discharge of a plant

COMPANY NAME _____

EPA REGION _____

EIA CODE # _____

SUMMARY QUESTIONNAIRE FOR USERS OF CAPACITOR GRADE AROCLOR*

1) Please provide the following information on your input water:

a) Source - Municipal

1) Daily volume of flow in liters
(average over work week) _____

2) PCB concentration in micrograms
per liter _____

3) Do you treat this incoming water?

YES NO

If yes, how? _____

b) Source - Well

1) Daily volume of flow in liters
(average over work week) _____

2) PCB concentration in micrograms
per liter _____

3) Do you treat this incoming water?

YES NO

If yes, how? _____

**c) Total daily volume of input water
(a-1 plus b-1) _____**

*** One of these must be completed for each plant location**

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2) Please provide the following information on your plant discharge
(This questionnaire combines information provided on Individual
Discharge Questionnaires)

a) Municipal Sewer System

- 1) Total daily weight of PCB's discharged
in kilograms _____
- 2) Average daily flow in liters _____
- 3) Average concentration in micrograms
per liter _____

b) Navigable Stream

- 1) Total daily weight of PCB's discharged
in kilograms _____
- 2) Average weekly flow in liters _____
- 3) Average concentration in micrograms
per liter _____

c) Other (identify)

- 1) Total daily weight of PCB's discharged
in kilograms _____
- 2) Average daily flow in liters _____
- 3) Average concentration in micrograms
per liter _____

- d) How many days per week does impregnation
normally operate at this plant? _____

3) Is the municipal treatment plant classified as

Primary

Secondary

Tertiary

- a) Does it treat for toxic chemicals

YES

NO

- 4) What is the PCB concentration in the navigable stream
(background PCB levels) in micrograms per liter? _____
- a) What is the "low flow level" of this stream
(Low flow level means the probable low rate of
flow occurring during a period of seven consecutive
days, once in 10 years. Flow should be indicated
in cubic meters per second.)
- 5) What is the total daily weight in kilograms of PCB's
discharged (2a1 plus 2b1 plus 2c1) by this plant? _____
- 6) What is the total average daily consumption of PCB
(Aroclor) in kilograms at this plant (the week samples
were taken)? _____
- 7) What is this plant's daily "efficiency factor" (PCB
discharge divided by PCB usage)? _____
- 8) What has been your total usage of PCB (Aroclor) during
the past twelve months in kilograms? _____
- 9) What has been the total water usage in liters over this
same twelve month period? _____
- 10) How long has this plant been used in the manufacture of
capacitors using PCB? _____

The following information has been supplied by:

Name _____

Company _____

Address _____

Telephone _____

Company Confidential - For EIA use only

INSTRUCTIONS FOR THE COMPLETION OF
QUESTIONNAIRES BY USERS OF CAPACITOR GRADE AROCLOR

A representative of Monsanto will spend approximately one day per facility taking samples of all discharges containing PCB as well as the applicable navigable stream, if any. The initial schedule calls for these visits to be made between November 11 and November 27, with a possibility that additional plants, not on the initial listing, will be visited during the first two weeks of December.

If a plant has more than one discharge, a sample will be taken from each and tagged by the location from which it was taken. These samples will go to St. Louis for testing by Monsanto. The results, in micrograms per liter, by sample, will be sent to the company's representative personally.

Using the information from Monsanto, the company representative on the Committee is to complete the two types of questionnaires, which are attached. The first, on a single sheet, is entitled "Individual Discharge Questionnaire". One of these must be filled out for each discharge point at the plant involved. The second entitled "Summary Questionnaire for Users of Capacitor Grade Aroclor" must be completed for each plant which that company operates. Please attach the appropriate individual questionnaires to their respective summary plant questionnaire and submit a separate package for each facility. Forward all information on your plant or plants to...

Mr. Tyler Nourse
Staff Vice President
Parts Division
Electronic Industries Association
2001 Eye Street, N.W.
Washington, D.C. 20006

Please rest assured that only EIA will be aware of what is submitted by a company. When the information is tabulated and made available to the Committee, a separate code will conceal each manufacturer's identity.

Note that following the EPA format all terms are in the metric system. This may give some minor problem, but translation from gallons to liters or pounds to kilograms should not overly complicate calculations.

The Committee urges the submission of these questionnaires to EIA as soon as possible after you have received the test information from Monsanto.