Monsanto

CONFIDENTIAL

FROM (NAME & LOCATION): E. E. Stewart, W. G. Krummrich Plant

DATE: January 3, 1973

SUBJECT: STATUS - PCB POLLUTION CONTROL PROGRAM

REFERENCE:

TO: Mr. J. R. Savage
General Offices
B2SL

cc: G. L. Bratsch
C. F. Buckley
W. C. Engman
P. E. Heisler
G. A. Hippe
P. B. Hodges - G.O. (E1SF)
A. E. Leisy/R. M. McCutchan
W. R. Richard - G.O. (T3A)

This is the January 1, 1973 status of PCB pollution control program.

I. PCB LEVEL IN SEWERS

December losses at 1.8 #/day from the operating department and the incinerator area are about 40% of the November losses. The Waste Treatment Influent and Effluent losses of 5 and 4 #/day are slightly lower than last month. These numbers indicate about a 3 #/day background. Do not expect significant major improvement beyond these values unless specific projects are provided to eliminate known small losses. (1 #/day is equivalent to about 0.001 ppb in the Mississippi River.)

Aroclor sewer loss control data are attached.

A. Aroclor Department - PCB losses from the department decreased from 4.36 #/day to 1.63 #/day during the month. The November value reflected a 75 lb one-time loss. There were no major losses in December. Additional reductions are possible by eliminating air blowing in the continuous aeration process step. A premise has been prepared to eliminate this step in the process.

B. Incinerator - Measured losses decreased to 0.17 #/day. This is a significant reduction when compared with last months 0.65 #/day. Efforts will be directed during 1st quarter to attain the desired goal of 0.05 #/day. Incinerator on-stream about 91% of the time.

MONS 029751

IN - 10 REV. 1/72

I. PCB LEVEL IN SEWERS (cont'd)

C. Total Plant - Influent losses at 5 #/day are the same as last month. During the month record lows of 4 #/day were seen. A comparison with losses from the manufacturing and incinerator areas would indicate a background of about 3 #/day from the entire plant and Sauget village system.

D. Treatment Plant Effluent - Measured losses of 4 #/day slightly lower than 5 # experienced last month. 4 #/day is equivalent to about 0.004 ppb in the Mississippi River.

II. PROJECT STATUS

Project 3972 - "Reroute North Basin Sewer" - To reroute effluent from department North Settling Basin such that all sewer flow from the department will flow from one point. Project about 90% complete. Electrical supply to pump remains to be completed early in January.

Project 3956 - "Alterations to HCl Distribution System" to eliminate possibility of sewering Dept. 246 HCl off-gas. EDC 5/1/73. This will be reviewed to determine how to expedite. Objective to prevent sewering off-gas will be realized, but water savings will not be possible until smaller jet be installed to handle reduced air blowing and related tank vents. Premise prepared to meet total objective.

III. PROGRAM STATUS Re Engman/Bratsch 4/24/72

1. HCl Off-Gas

A. Aroclor - Continuing to coordinate production with chlorosulfonic acid production to prevent sewering off-gas at Dept. 246.

B. Beginning design on project "Install PCB Off-Gas Scrubber" $73,000 capital, $4,000 expense.

2. Blow Tank Off-Gas

Premise prepared to permit elimination of air blowing and provide means for removing water vapor from intermediate storage tanks vapor space. This is part of water reduction project. About $6000 capital and $6500 expense. Required for water reduction as related to chemical treatment of plant waste stream at Sauget village treatment plant.

III. PROGRAM STATUS (cont'd)

3. Aroclor Department Catch Basin

   Project 3972 about 90% complete. Completion expected in January.

4. Incinerator Scrubber

   No work planned.

5. Incinerator Catch Basin

   No activity to reduce losses in December.

6. Rip Track Washer

   No activity to reduce losses in December. Loss data at the WTP Influent does not indicate major losses from the Rip Track Area.

WGK STRATEGY

Continuing in-plant program to reduce to lowest technical achievable level. River samples being analyzed to get profile data with regard to PCB content. Inquiry made by Federal EPA via Jack Hume concerning PCB's. Hume/Bratsch, 12/19/72 memo "Meeting 12/14 with Federal EPA."

Edward E. Stewart
Technical Services Department

/tm
att.