Monsanto

FROM (NAME & LOCATION) A. L. Rasmussen - WGK

DATE April 13, 1971

SUBJECT Pollution Monitoring
Aroclor Incinerator

REFERENCE

TO : C. F. Buckley (3)

cc: A. E. Leisy
P. E. Heisler
W. C. Engman
N. B. Wolk - GO
Q. E. Thompson - GO
B. Caraway
E. S. Tucker - So. 2nd St.
M. Foresman
R. L. Maclin

This memo is to confirm our discussion on pollution monitoring of the Aroclor Incinerator. Water batching is to begin May 10. All samplers should be installed and all arrangements completed by that date.

1. Scrubber Effluent

   a. This stream is expected to be ~120 gpm. It should contain 1.5 - 2% HCl and less than 20 ppb PCB.

   b. The Environmental Control Group (ECG) will install a sampler to take 8 hour composites.

   c. The department operators will collect 1 sample/shift during start-up and deliver to the lab.

   d. Caraway's group will analyze for PCB and total acid and report to both the department and the ECG.

   e. The department will use the analysis for optimization and control. The ECG will report from a stream pollution standpoint.

2. Settling Basin

   a. This will be a intermittent flow and is expected to average less than 2 gpm. Less than 100 ppb PCB is expected.

   b. The ECG will install a sampler to collect 24 hour composites.

   c. The department operators will collect one sample/day during start-up and deliver to the lab.

   d. Caraway's group will analyze for PCB and report to both the department and the ECG.

   e. The department will use the analysis for monitoring the settling basin operation. The ECG will report on PCB losses.

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3. Department Sewer

   a. This sewer should carry all the water leaving the Aroclor Incinerator Department.

   b. The ECG will install a sampler to collect 3 day sewer composites.

   c. During start-up the ECG will pick up the samples and deliver them to the lab.

   d. Caraway's group will analyze for PCB's and report to the ECG.

   e. The ECG will report #PCB/day loss from department.

4. Stack Sample

   a. This stream will be 6500 scfm at 160°F and about 50% water.

   b. The John Zink Co. performance warranty specifies:

      1) < 5# HCl/hr.
      2) < .05 grains particulate/scf
      3) < 20 micron particles
      4) < 50 ppm Cl_2
      5) < .0025# PCB/day

   c. The ECG has agreed to establish the sampling methods for determining these properties.

   d. During start-up, the ECG with sample the stack (nozzles provided) 1/day, 5 days/week and arrange for analyses.

   e. The ECG will report the results.

   f. If these specifications are not met, additional samples within the process may be required.

   g. Dept. personnel will also be taking stack samples for Orsat analysis to set the percent excess air.

If there are any points which are still unclear, please contact me.

A. L. Rasmussen
Mfg. Rep.

ap

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