PROGRESS REPORT

TECHNICAL SERVICES DEPT. - W. G. KRUMMRICH PLANT

JOB NO.	REPORT NO.	DATE
91370:4119	3	12, 4, 70

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TO RECEIVE DETAIL SECTION:

TITLE: AROCLOR POLLUTION - AIR POLLUTION REDUCTION PROGRAM

PERSONNEL: W. A. Krull (W. C. Engman)

PROBLEM: Determine levels and define problem areas.

SUMMARY

As part of the overal PCB pollution control, a study was initiated to measure the Aroclor air pollution levels and develop a program for reduction. A tentative goal of two pounds/day was set at this time.

The present level as measured and/or calculated from the manufacturing department is about 5-7 pounds/day. Most of this is due to the sparging of Aroclor blends with nitrogen in the mix tanks.

To reduce the losses to 2 pounds/day or less the following should be done.

1. Blanket the mix tanks instead of sparging with nitrogen. EDC 3/1/70.

2. Route the relief lines on the batch chlorinators to the concrete pad. EDC 4/1/70.

Wayne A Krull
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Technical Services Dept.

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FORM WGK 860 REV-2/66

BACKGROUND

As part of the overall PCB pollution control, a program was initiated to define and reduce the level of Aroclor air pollution from the W. G. Krummrich Plant. This progress report describes the results of this program relative to the Aroclor Production Department.

PROBLEM AREAS

A survey of the department and consequent sampling and calculations defined these problem areas.

Sources	Measured Loss #/Day	Calculated Loss #/Day
1. Mix tanks (while sparging with nitrogen)	Not sampled but visible loss exists.	5.70
2. Tanks and loading areas (assuming 55 M #/yr production)	0.70	0.10
3. Scrubber stack	0.001	0.04
4. Fume removal stack	0.05	0.01
5. Vacuum jets	Not sampled. None observed and condenser should remove most of Aroclor.	No calculations.
6. Therminol Furnace	Not sampled. No visible fumes or odors.	No calculations.
Estimated Totals	- About 7.0 #/day.	

The relief lines on four batch chlorinators relieve into the air creating a potential loss.

REDUCTION PROGRAM

To reduce the loss to two pounds per day, a blanketing system should be applied to the mix tanks. The rupture discs on the batch chlorinators should be routed to the concrete pad to eliminate a possible large loss.

W. A. Krull
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