

TO MR R A PARK
POTTSTOWN

FROM P J ELDRETH
PERRYVILLE

DATE FEBRUARY 27, 1980

Firestone 
INTEROFFICE

REFERENCE

SUBJECT AMBIENT VINYL CHLORIDE CONCENTRATION - PERRYVILLE PLANT

Per our phone conversation of February 25, 1980 regarding the ambient vinyl chloride concentrations in air throughout the regulated areas of the plant, the following is offered. As I mentioned we do not maintain any records which would make this information readily available. Our fixed monitoring system is not programmed to provide average exposures for each area or point monitored and our personnel monitoring program is set up to determine personnel (T W A) exposures only.

Therefore, without going into a great deal of detail or summarizing several thousand print-out charts from the fixed monitoring system, I will try to address your question in rather general terms. Although the V/C levels are approximations, I do believe they are realistic and fairly accurate as far as the normal and routine V/C concentrations are in Polymerization I and II.

In Polymerization I a normal vinyl chloride level or background level will range from 1-5ppm in approximately 80% of the work areas. This does not include the reactor, inside exposure, during the cleaning operation. During a routine shift I would estimate that at least one monitoring point would be alarming at the 5-25ppm level, almost continuously. The 25ppm and above alarm is seldom activated, but two or three alarms during an eight-hour shift would not be unusual.

As for the Polymerization II operation, the normal vinyl chloride background level is much lower. I would suspect that 1-2ppm would be normal with an occasional excursion above 5ppm when the operator opens a filter pot for cleaning or while he is obtaining a resin sample from the reactor. On very rare occasions or during a system malfunction you may see the 25ppm and above alarm activated, but again, this would be rare and certainly not routine for the E-Resin operation.

I know this is rather vague and somewhat evasive, but as I mentioned earlier, it would require several days to summarize and analyze the numerous monitoring charts to gather the exact information you are seeking. I hope this will at least give you a pretty good idea as to what the area V/C levels are throughout the Perryville Plant. You should keep in mind that these ambient V/C levels are for areas only and do not reflect what the employee (T W A) exposure would be for that particular work area.

P J Eldreth
P J ELDRETH

PJE/sad

cc Mr P J Foley
51273A Mr L G Clouthier

OCC 014664

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