

ABERDEEN CHEMICAL PLANT
INDUSTRIAL HYGIENE MONTHLY REPORT

Month: April, 1985
Date of Report: May 21, 1985

I. ROUTINE CHEMICAL DOSIMETRY

All Sample Results

<u>CHEMICAL</u>	<u>PEL</u>		<u>PEL (OVEREXPOSURES)</u>	
	<u>NO.</u>	<u>%</u>	<u>NO.</u>	<u>%</u>
VCM	80	94.4	5	5.6
Lead	7	100.0	0	0.0
Total Particulates	2	100.0	0	0.0

Overexposures

<u>JOB CLASS</u>	<u>EXPOSURE</u>	<u>SOURCE</u>
General Helper	1.8 ^{**} ppm, VCM	Employee overexposed while covering a vinyl reactor area sewer found producing high VCM levels during fire-watch duty.
General Helper	1.1 ^{**} ppm, VCM	Employee spent shift bagging PVC resin. The specific cause of his overexposure has not yet been determined.
General Mechanic	2.9 [*] ppm, VCM	Employee overexposed while blanking out D700 reactor.
Maint. Supervisor	2.5 ^{**} ppm, VCM	Employee worked in all VCM areas. The specific cause of his overexposure has not yet been determined.
General Mechanic	2.1 ^{**} ppm, VCM	Employee worked in the maintenance shop and in the plasticizer tank farm while repairing a pump. The specific cause of his overexposure has not yet been determined.

* Respiratory protection was worn.

** Respiratory protection was not worn.

II. OSHA HAZARD COMMUNICATION RULE

A proposal for compliance with the labeling requirements of the OSHA Hazard Communication Rule was prepared and given to department heads for review.

III. GILMONT PRECISION FLOWTUBE

The calibration of the Gilmont flowtube used with Bendix air pumps during lead and total particulates dosimetry work was checked. No significant drift was seen.

IV. BLEND TANK TOP AREA VCM SAMPLES

Four blend tank top area VCM samples were taken using REAL "Minimoni-tor" badges to determine the need for respiratory protection in the vicinity of the tops of the small V-11 blend tanks during slurry transfer from reactors.

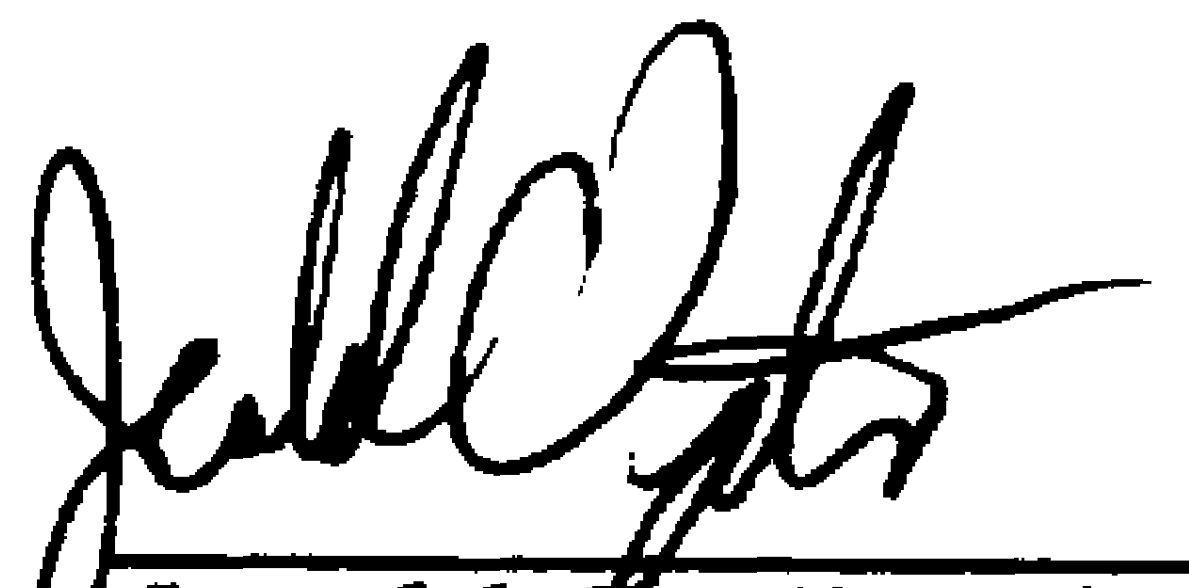
The two samples taken on 4/15/85 were during the transfer of 5265 slurry from 745 reactor into the 650 and 651 blend tanks. Wind at the time was from north to south at 1-5 MPH. The temperature was 60°F under cloudy skies and during high humidity.

The samples taken on 4/16/85 were during the transfer of 5265 slurry from 745 reactor into the 654 and 655 blend tanks. Wind at the time was from north to south at 1-2 MPH. The temperature was 66°F under clear skies.

Sample duration was twenty minutes in all four cases.

The results clearly demonstrate that respiratory protection is needed in the vicinity of the small V-11 blend tanks during slurry transfer from the reactors:

<u>Date</u>	<u>Sample Location</u>	<u>Results, ppm VCM</u>
4/15/85	On top of 651 blend tank, 4 inches south of hatch	< 0.1
4/15/85	4 feet south and above 651 blend tank hatch	13.7
4/16/85	On top of 654 blend tank, 4 inches south of hatch	19.7
4/16/85	4 feet south and above 654 blend tank hatch	12.3


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c: JF, JWW, DWH, PJK, WFH, CRS, VEM, RAF, AHS, CWT
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