

ABERDEEN CHEMICAL PLANT
INDUSTRIAL HYGIENE MONTHLY REPORT

'R E V I S E D'

Month: August

Date of Report: 10/4/84

Routine Chemical Dosimetry

All Sample Results:

<u>Chemical</u>	<u><</u>		<u>></u> PEL OVEREXPOSURES	
	<u>No.</u>	<u>PEL</u> <u>%</u>	<u>No.</u>	<u>%</u>
VCM	85	91.4	8	8.6
Lead	24	96.0	1	4.0
Total Particulates	6	100.0	0	0.0

Overexposures

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
— Chief Operator	1.2* ppm, VCM	Employee overexposed while changing VCM filter pack filters.
— Reactor Operator	10.1** ppm, VCM	Employee overexposed while doing his regular job of reactor operator in the old unit. No specific cause for his overexposure has been determined.
— Reactor Operator	1.4* ppm, VCM	Employee overexposed while sampling 745 reactor.
— Reactor Operator	2.9** ppm, VCM	Employee overexposed while training a fellow employee and a reactor operator in the old unit. No specific cause for the overexposure has been identified.

<u>Overexposures</u>	<u>Exposure</u>	<u>Source</u>
Dryer Utility	1.1** ppm, VCM	Employee overexposed while being trained as a reactor operator in the old unit. No specific cause for the overexposure has been identified.
Yard Operator	2.6* ppm, VCM	The employee was overexposed while hooking/unhooking VCM railcars at the VCM tank farm.
Mechanic	1.9** ppm, VCM	Employee overexposed while blanking out D-300 reactor condenser prior to condenser drilling.
Mechanic	6.2* ppm, VCM	Employee overexposed while changing out two Corken compressors at the VCM tank farm.
Line Compounder	44.4* microgram Lead/m ³	The product being produced during sampling time contained no lead. The source of the overexposure is not clear; it may be related to housekeeping in the area.

* Respiratory protection was worn.

** Respiratory protection was not worn.

VCM Area Monitoring

Four, forty-minute VCM area samples were taken at the top of 502 blend tank during the transfer of 5385 resin slurry from D-700 reactors using REAL "Minimonitor" badges. Wind direction was from west to east, ranging between zero and five miles per hour. The results indicate, as have previous studies, that VCM concentrations atop blend tanks may reach levels that require the use of respirators during slurry transfer, depending on a variety of variables including wind conditions. Because of this, respirators should continue to be used during work atop the tanks.

<u>No.</u>	<u>Location</u>	<u>Result (ppm, VCM)</u>
1	Top and SW of 502, on Safety Railing	< 0.1
2	Top and NW of 502, on Safety Railing	< 0.1
3	Top and SE of 502, on Safety Railing	< 0.1
4	Top and NE of 502, on Safety Railing	3.3