

ABERDEEN CHEMICAL PLANT
ROUTINE CHEMICAL DOSIMETRY SUMMARY

Month of: March, 1984

Date Of Report: April 12, 1984

cc: JF, CRM, PEM, PJK, LPS, WFH, CRS, RAF, RAM, AHS
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ALL SAMPLE RESULTS:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL (OVEREXPOSURES)</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	79	91.9	7	8.1
Lead	21	95.5	1	4.5
Total Particulates	24	100.0	0	0.0

OVEREXPOSURES

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Chief Operator	454* ppm, VCM	Employee overexposed while helping control an emergency VCM release at the VCM tank farm.
Reactor Operator	3.7** ppm, VCM	Employee performed routine duties of reactor operator in the new vinyl unit. No specific cause has been identified.
Reactor Operator	3.8** ppm, VCM	Employee performed routine work of reactor operator. No specific cause has been found.
General Mechanic	1.3* ppm, VCM	Employee overexposed while changing out a Corken compressor.

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OVEREXPOSURES - Continued

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
General Mechanic	1.5** ppm, VCM	Employee overexposed while tightening a leaking condenser lid on D-600 reactor.
General Mechanic	1.7** ppm, VCM	Employee overexposed while repairing the dryer line #2 centrifuge while pond resin was being reclaimed on dryer Line I.
General Mechanic	14.8** ppm, VCM	Employee overexposed while changing 742 reactor slow vent line.
Line Compounder	87.6* micrograms Lead/m ³	Employee overexposed while charging blenders on Compound Line I.

* Respiratory protection was worn.

** Respiratory protection was not worn.

VCM Area Sampling

Three VCM area samples were taken on the roof of the V-11 dryer building during roof repair on 3/16/84. The samples were taken using REAL minimonitors. Wind velocity ranged from 0 to 5 miles per hour, direction being from northwest to southeast:

<u>Sample Location</u>	<u>Sample Time (Hrs.-Min.)</u>	<u>Result ppm, VCM</u>	<u>Comments</u>
On safety railing east of 655 blend tank	7-10	0.4	Coarse 5385 resin in 655
On Safety railing east of and between 653 and 651 blend tanks	7-8	2.1	5305 resin in 651 and 653
On safety railing north of 650 blend tank	7-6	0.7	5305 resin in 650

Area Ventilation Checks

The second quarter check of lab and compound ventilation hood velocities and flowrates was completed. No serious deficiencies were discovered.