

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
 Tom Grumbles - Houston
 J. R. Drumwright, M.D. - Ponca City

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.

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Noise

Final arrangements for a plant noise survey to be conducted by the Medical Department on April 10-12, 1984 were made.

Total Particulates Analysis

A five-place analytical balance, suitable for performing total particulates analyses, was purchased and received by the laboratory. Plans are to do all such analysis at Aberdeen beginning in April, 1984.

Equipment Calibration

The second quarter calibration of the precision rotameter used to measure Bendix BDX 44 air pump flowrates was completed using a large "bubble tube" as a primary standard. No significant drift was seen.

Program Plans

Both the Respirator Program and the Work Environment Hazard Control Plan were updated and approved.

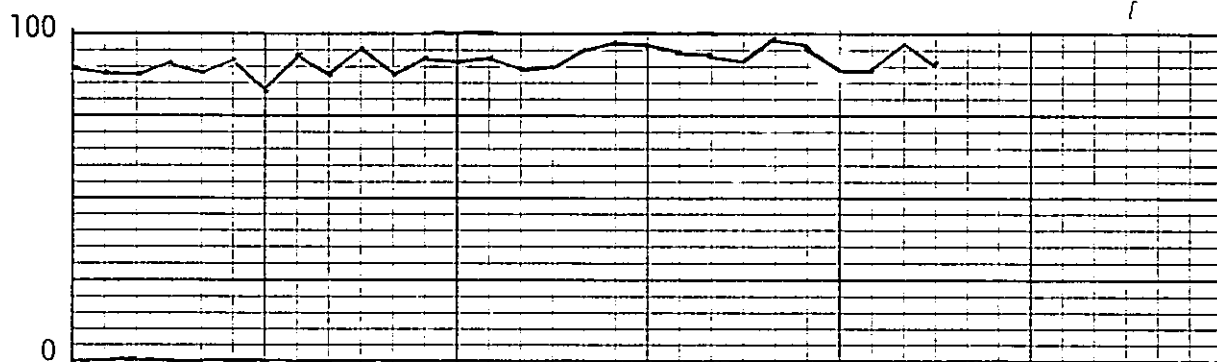

Ginny Belk, R.N.
Plant Nurse

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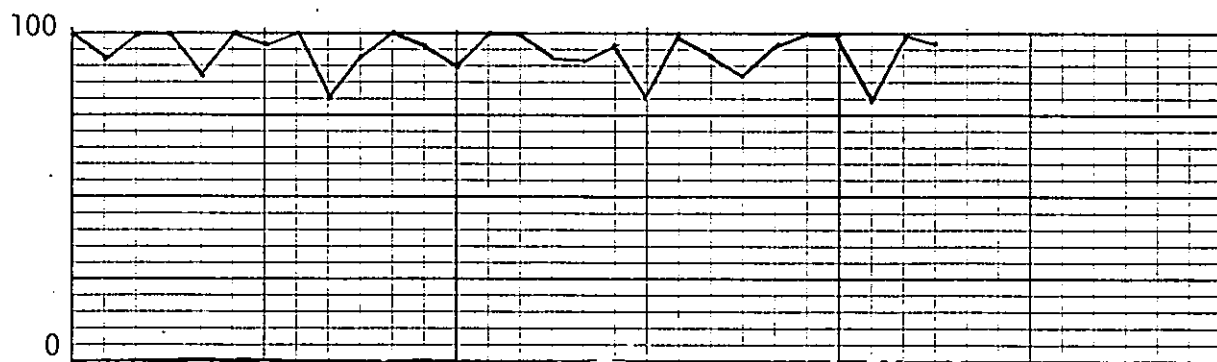
ABERDEEN CHEMICAL PLANT
CHEMICAL DOSIMETRY TRENDS

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PEL

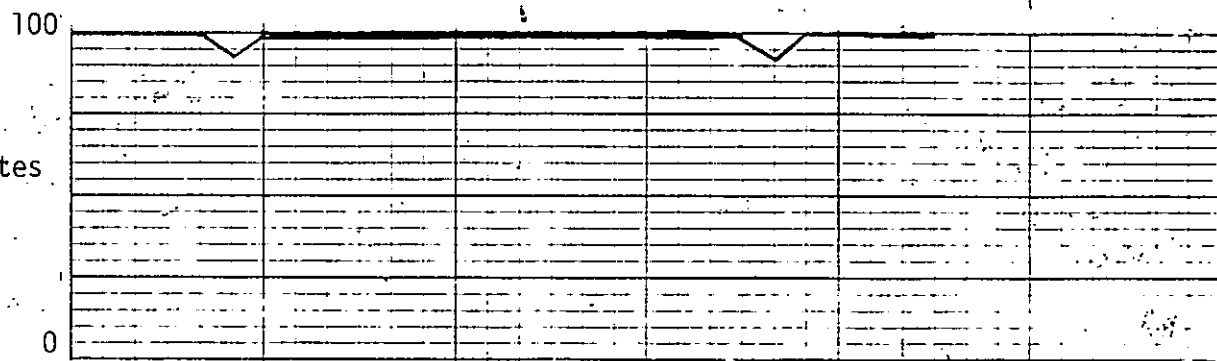
VCM



Lead



Total
Particulates



Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<u>1982</u>												<u>1983</u>												<u>1984</u>											