

ABERDEEN CHEMICAL PLANT
INDUSTRIAL HYGIENE MONTHLY REPORT

Month of: AprilDate of Report: 5/9/841. ROUTINE CHEMICAL DOSIMETRYAll Sample Results:

<u>Chemical</u>	<u>< PEL</u>		<u>> PEL (OVEREXPOSURES)</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	101	94.4	6	5.6
Lead	8	88.9	1	11.1
Total Particulates	5	100.0	0	0.0

OVEREXPOSURES

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
General Mechanic	5.4*ppm, VCM	Employee overexposed while changing safety discs on D-400 reactor.
General Mechanic	2.4* ppm, VCM	Employee overexposed while changing a sightglass at the horizontal VCM storage tanks in the VCM tank farm.
General Mechanic	2.2* ppm, VCM	Employee overexposed while cleaning a sightglass at the horizontal VCM storage tanks in the VCM tank farm.
Instrument Technician	9.3** ppm, VCM	Employee overexposed while repairing the batch water stripper tubing.
Rx Operator	1.4* ppm, VCM	Employee overexposed while checking VCM leaks in the old unit.
Rx Operator	145.6* ppm, VCM	Employee overexposed while changing VCM filter pack filters.
Line Compounder	39.8* micrograms Lead/m ³	Employee overexposed while charging Halbase 100EP on compound line III.

* Respiratory protection was worn.

** Respiratory protection was not worn.

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VCM AREA SAMPLING

Four VCM area samples were taken in the biodisc water treatment area, using REAL minimonitors. Wind velocity ranged from 0 to 5 miles per hour, direction being from west to east. Sampling time was seven hours and fifteen minutes.

The samples were taken to measure the effectiveness of recently installed ventilation exhaust blowers in reducing area VCM levels. Similar measurements taken during 1983 showed results averaging 19.9 ppm and ranging from 0.6 to 87.9 ppm, VCM. The evident reduction in VCM levels will be checked again during May.

<u>Sample Location</u>	<u>Result ppm, VCM</u>
Just north of middle biodisc hut	0.2
West side of middle biodisc hut	0.1
Just south of middle biodisc hut	0.2
West side of east biodisc hut	0.1

PLANT NOISE SURVEY

Pat McCoombs and Bill Richards of the Medical Department conducted an extensive plant noise survey on April 10-11, 1984. The work included property line noise measurements, noise level "contouring" within the plant, and noise dosimetry. Their report is expected to be issued during May.

RESPIRATORY PROTECTION

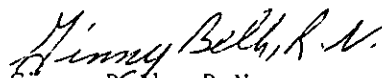
Scott Sling Paks

The relatively short waist straps provided with the five, recently received Scott sling paks were replaced with longer ones made from materials provided by Scott Aviation.

Training of vinyl shift supervisors on bottle changeout procedures for the sling paks was completed.

VCM Cannister Gas Masks

All VCM cannister gas masks were removed from plant service except those located in the Vinyl Department's area.


Ginny Beik, R.N.
Plant Nurse

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cc: JF, CRM, PEM, PJK, LPS, WFH, CRS, RAF, RAM, AHS, JVU
Tom Grumbles - Houston
J. R. Drumwright, M.D. - Ponca City

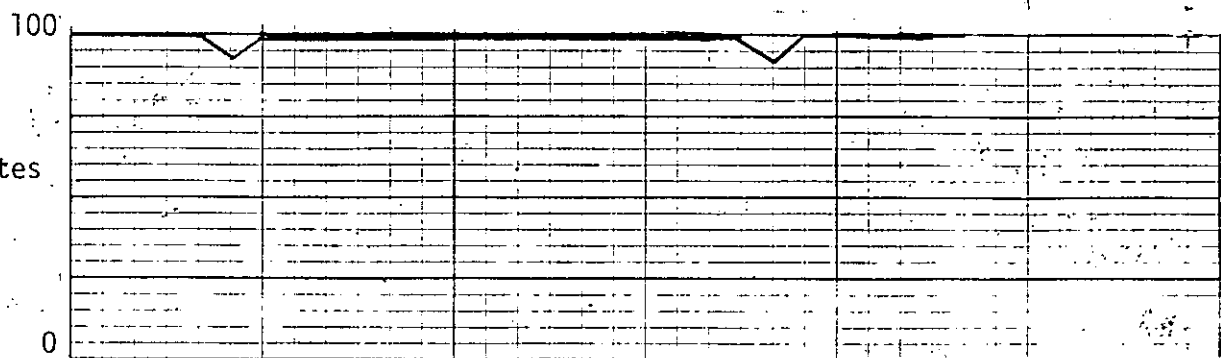
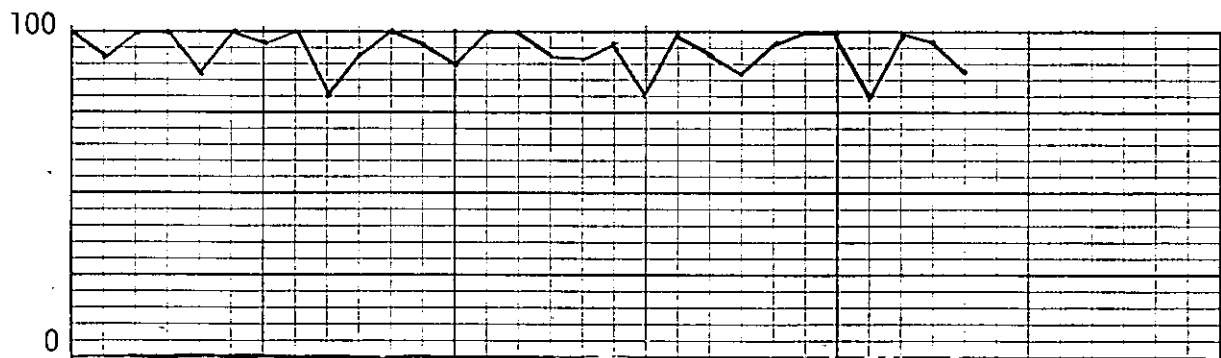
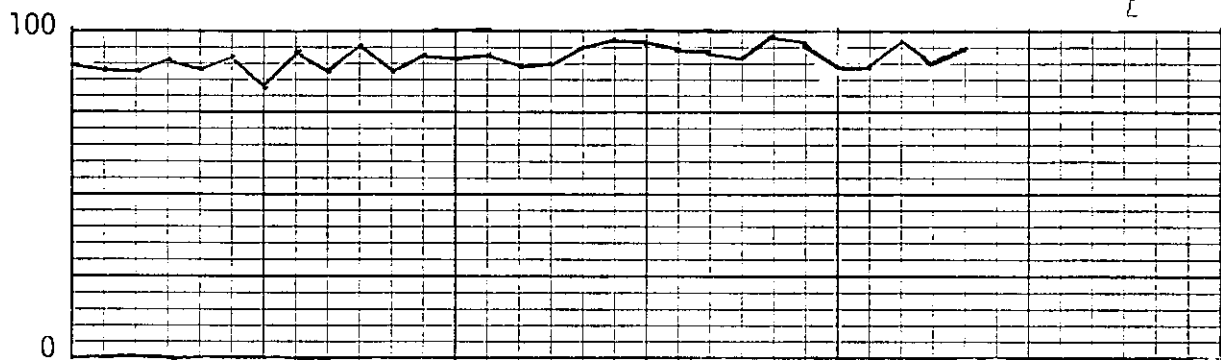
ABERDEEN CHEMICAL PLANT
CHEMICAL DOSIMETRY TRENDS

% $\angle$
PEL

VCM

Lead

Total
Particulates

[illegible]