

ABERDEEN CHEMICAL PLANT
INDUSTRIAL HYGIENE MONTHLY REPORT

Month of: May

Date of Report: June 19, 1984

1. 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	81	88	11	12
Lead	39	97.5	1	2.5
Total Particulates	4	100.	0	0

Overexposures

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Chief Operator	16.0** ppm, VCM	Employee overexposed while disconnecting and unplugging a lip seal line on D-300 reactor seal.
Reactor Operator	1.8* ppm, VCM	Employee overexposed while changing VCM filter pack filters.
Reactor Operator	6.0** ppm, VCM	Employee performed his regular job of reactor operator. No specific cause of his over-exposure has been identified.
Reactor Operator	3.7** ppm, VCM	The employee did not perform his regular job of reactor operator. Instead, he was assigned to the tasks of painting handrails at the east incinerator and assisting electronics with small breaker labeling in the V-11 dryer area. No specific cause for his over-exposure has been identified.

Overexposures - Continued

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Dryer Utility	10.7* ppm, VCM	Employee overexposed while monitoring blend tank levels in V-10 during pond resin reclaim.
Yard Operator	2.5* ppm, VCM	Employee overexposed while assisting two general mechanics who replaced two Corken compressors at the VCM tank farm.
General Mechanic	2.5* ppm, VCM	Employee overexposed while repairing a Corken compressor at the VCM tank farm.
General Mechanic	2.2* ppm, VCM	Employee overexposed while blanking out 904 VCM recovery compressor.
General Mechanic	1.3** ppm, VCM	Employee overexposed while changing a seal on D-300.
Maintenance Supervisor	1.5** ppm, VCM	The employee spent approximately five minutes working near the new vinyl unit dump Sweco and approximately two minutes near the old vinyl PVC tank. The specific cause of his over-exposure has not been identified.
Maintenance Superintendent	1.4** ppm, VCM	Employee performed his regular job of maintenance superintendent, which took him to all parts of the plant throughout the work period. No specific cause for his overexposure has been identified.
Color Weigh Compounder	118.9* microgram Lead/m ³	Employee performed his regular job of color weighup, handling Halbase 100EP and Cyastab 988. No specific cause of his over-exposure has been identified.

KEATON

* Respiratory protection was worn.

** Respiratory protection was not worn.

I. H. MO. REPORT ITEMS - MAYVCM Area Sampling

A second set of four VCM area samples were taken in the bio-disc water treatment area, using REAL "Minimonitors". Wind velocity ranged from 0 to 5 miles per hour, direction being from north to south. Sampling time was eight hours.

This set of sample results agrees with the one in April, both demonstrating the effectiveness of the recently installed ventilation exhaust blowers in reducing VCM levels. Similar measurements taken during 1983 showed results averaging 19.9 ppm and ranging from 0.6 to 87.9 ppm, VCM.

<u>Sample Location</u>	<u>Result - ppm, VCM</u>	
	<u>1st Set (April, 1984)</u>	<u>2nd Set (May, 1984)</u>
Just north of middle bio-disc hut	0.2	0.1
West side of middle bio-disc hut	0.1	0.2
Just south of middle bio-disc hut	0.2	0.1
West side of east bio-disc hut	0.1	0.1

Area Ventilation Checks

The second quarter check of lab and compound ventilation hood velocities and flow rates was completed. The results were reported using a new format, which shows the results of the previous check.

Respiratory ProtectionPlant Breathing Air System

Several repairs of the breathing air system were made, including replacement of sections of split pipe and faulty pressure regulators. The system is now operating correctly.

VCM Cannister Gas Masks

Removal of VCM cannister gas masks from plant service was completed.

Noise

The report on the plant noise survey conducted on April 10-11, 1984, by the Medical Department was received from them during May. The annual Noise Control Report and Plan was written, using the results from the Medical Department survey, and submitted for review.

GMD Systems, Inc. Passive Monitor

The second phase of the evaluation of the passive, VCM monitor marketed by GMD Systems, Inc. was completed. The results of the lab-based reproducibility studies will be reported by D. S. Cox, Manufacturing Chemist. Changeover from use of the REAL "Minimonitor" to that of the GMD device is anticipated, pending the reported results.

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.

Material Safety Data Sheets

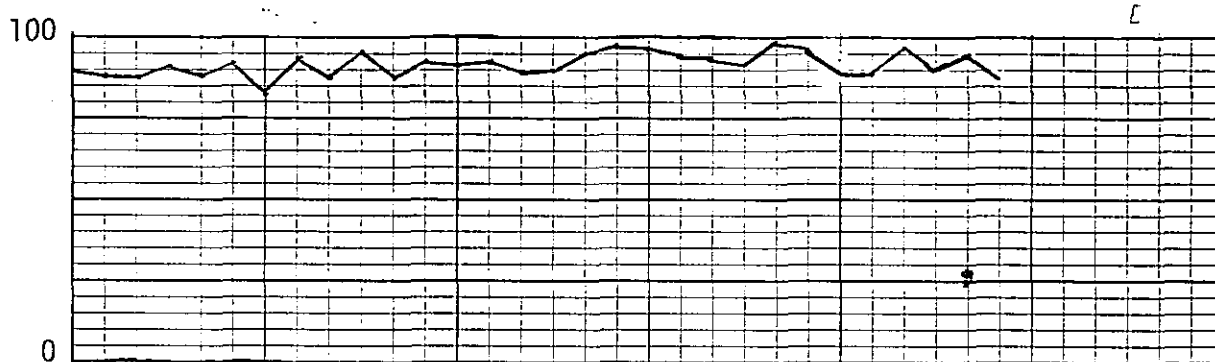
MSDS were reviewed by the Vinyl Department and the Maintenance Department. Three copies of each MSDS that pertain to the Vinyl Department will be issued to the Vinyl Operations Supervisor. The Maintenance Department will be issued a copy of nine MSDS to update their book.

Ginny Belk, R.N.
Ginny Belk, R.N.
Plant Nurse

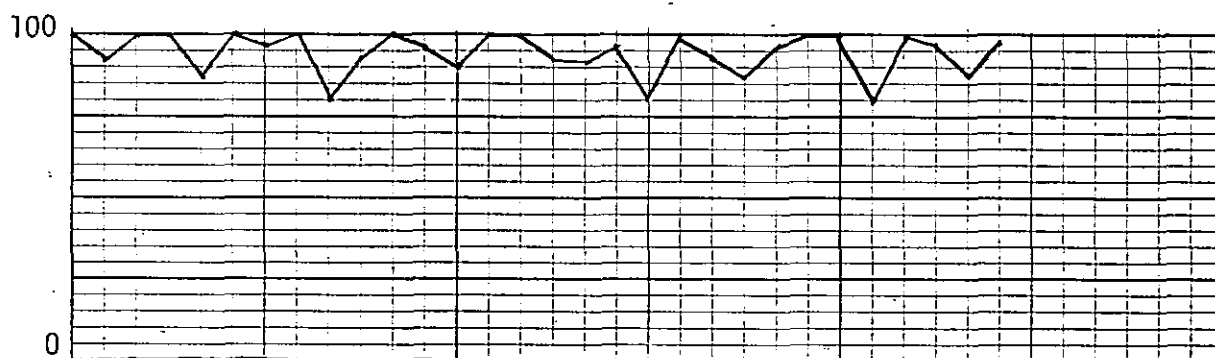
rah

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

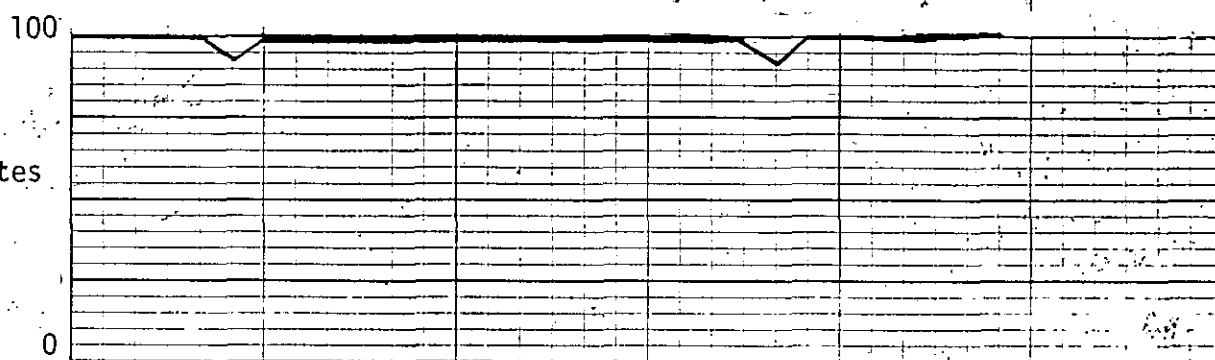
VCM



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.
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