

ABERDEEN CHEMICAL PLANT
INDUSTRIAL HYGIENE MONTHLY REPORT

Month: November

Date of Report: 1/04/85

Routine Chemical Dosimetry

All Sample Results:

<u>Chemical</u>	<u><</u>	<u>PEL</u>	<u>></u>	<u>PEL Overexposures</u>
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
VCM	92	97	3	3
Lead	18	95	1	5
Total Particulates	6	100	0	0

Overexposures

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
General Mechanic	1.1** ppm, VCM	Employee overexposed while welding cracks in the dry blend "gump" screener bowl. The specific cause of the overexposure has not been identified.
General Mechanic	2.0** ppm, VCM	The employee spent his entire work period doing insulation work in the new Vinyl unit. The specific cause of his overexposure has not been identified.
Yard Operator	4.6* ppm, VCM	Employee overexposed while hooking/unhooking VCM railcars.
Color Weigh Compounder	56.6* microgram lead/m ³	Employee overexposed while weighing up micro quantities of Epistatic 112 and Epistatic 122 inside the color weigh room.

* Respiratory protection was worn.

** Respiratory protection was not worn.

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Area VCM Sampling

Seven, 8½ hour area VCM samples were taken inside the V-10 building during the reclaim of "pond" resin using REAL "minimonitor" badges. The results (below) demonstrate that while VCM levels exist during the operation, they are below the "Action Level" of 0.5 ppm, and well below the permissible exposure limit (PEL) which requires respiratory protection. However, the person observing pond resin pump-up should continue to wear a respirator while in V-10.

<u>Sample Location</u>	<u>Sample Result, ppm, VCM</u>
First floor of V-10, column between and just north of dryers	0.1
First floor of V-10, blower just north of east dryer	0.1
First floor of V-10, column between and just north of blend tanks	0.1
First floor of V-10, between 551 and 553 blend tanks	0.1
Above and between blend tanks, V-10	0.3
V-10 centrifuge deck at airline station just northwest of 550 blend tank	0.4
Just above V-10 east dryer line Sweco screener.	0.4

Equipment Calibration

The fourth 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.

Area Ventilation Checks

The fourth quarter check of lab ventilation hood velocities and flow rates was completed. The results were reported to the lab for correction of one deficiency found.


Ginny Belk, R.N.
Plant Nurse

rah

cc: JF, JWW, DWH, PJK, WFH, CRS, RAF, AHS, JWU, JRW
Tom Grumbles, J. R. Drumwright, M.D. - Houston

100

VCM

0.

100.

Lead

0

Total
Particulates

0

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.
19 <u>82</u>												19 <u>83</u>												19 <u>84</u>											