

ABERDEEN CHEMICAL PLANT
ROUTINE CHEMICAL DOSIMETRY SUMMARY

MONTH OF: August 1982

DATE OF REPORT: September 10, 1982

c: JF, CRM, PEM, PJK, RDJ, WFH, CRS, RAF, RAM, AHS
 T. G. Grumbles - Houston, L. A. Legendre - 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	82	86.3	13	13.7
Lead	4	80	1	20
Antimony	0	-	0	-
Total Particulates	3	100	0	0

OVEREXPOSURES:

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Color Weigh Compounder	340* Micrograms lead/M ³	Employee helped clean out the compound vacuum system hopper.
General Mechanic	1.6 ppm, VCM	Employee did leak repairs during a VCM leak survey conducted by Process Engineering. He also helped change out the 745 VCM charge valve.
General Mechanic	9.9* ppm, VCM	Employee helped open the north VCM receiver in the old vinyl unit in preparation for main- tenance.
Electrician	77.6 ppm, VCM	Employee exposed while doing greasing work near the knockout tanks on the 2nd floor of the new unit recovery building. VCM was being evolved from the sewer at that point. The source of the VCM has not yet been de- termined.

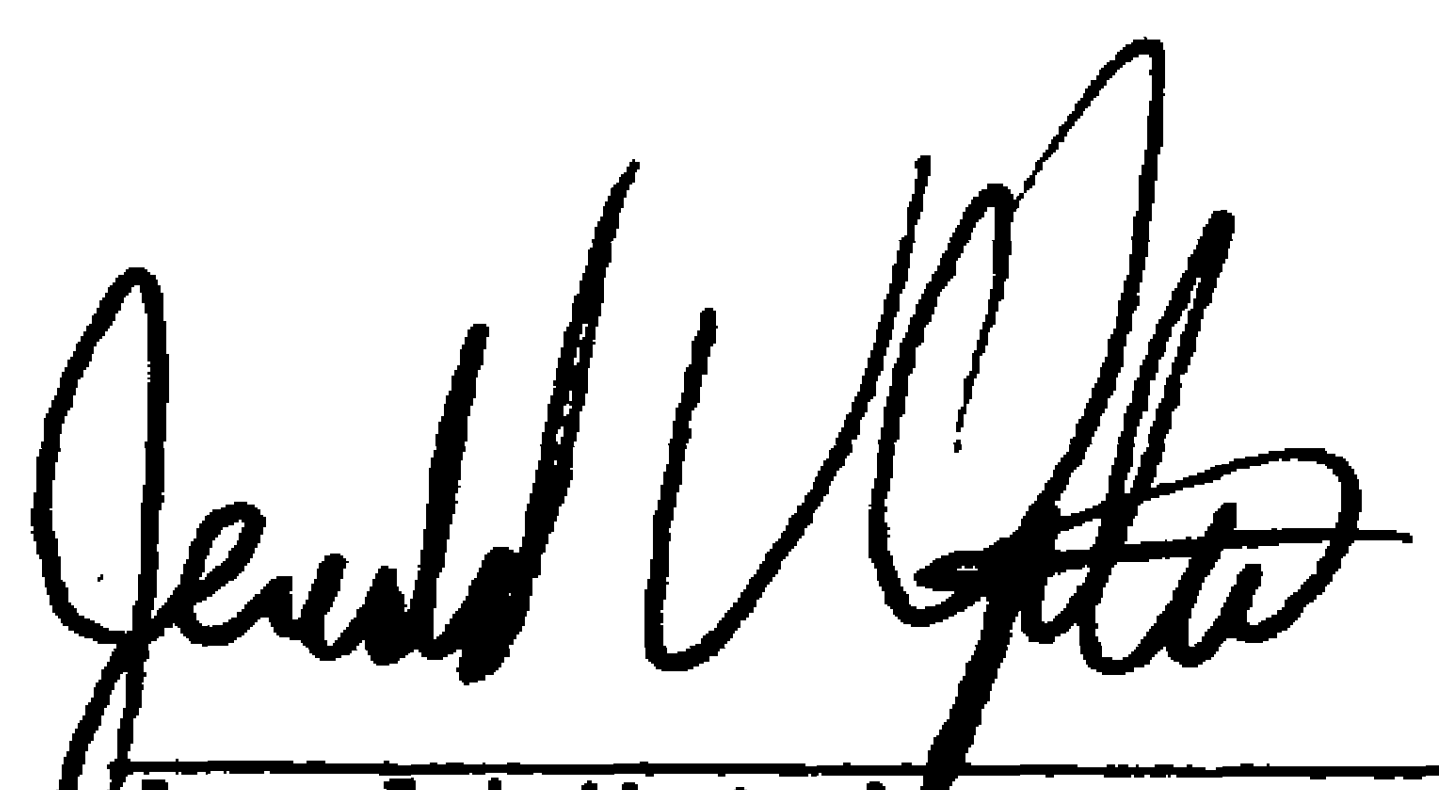
Overexposures (Continued)

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Maintenance Helper	11.0 ppm, VCM	Employee headed up the north recovery condenser in the old unit and changed a safety disc on 903 compressor (new vinyl unit).
Chief Operator	3.9* ppm, VCM	Employee changed VCM filter pack filters.
Chief Operator	1.1 ppm, VCM	Employee worked near VCM leaks occurring in several lines, flanges, etc. during the start-up of the old vinyl unit on 8/10/82.
Chief Operator	2.5 ppm, VCM	Employee worked in new vinyl unit the bulk of his shift. The cause of his exposure is not certain. He assisted in manually operating the new unit inlet valve to the recovery compressors and also worked near the dump system during a long dump from 743 ("chunk" lodged in manifold, requiring flush out).
Reactor Operator	1.3 ppm, VCM	Same as Chief Operator having 2.5 ppm, VCM, except this employee also took slurry samples at the Sweco.
Reactor Operator	19.7* ppm, VCM	Employee changed VCM filter pack filters.
Reactor Operator	1.9 ppm, VCM	Same as Chief Operator having 1.1 ppm, VCM
Reactor Operator	3.5* ppm, VCM	Employee drained a knockout tank in the new unit.
Reactor Operator	5.7* ppm, VCM	Employee changed out seal water filters in the old unit.

Overexposures (Continued)

<u>Job Class</u>	<u>Exposure</u>	<u>Source</u>
Vinyl Shift Supervisor	1.0 ppm, VCM	Same as Chief Operator having 2.5 ppm, VCM, except he did not assist in the manual operation of the inlet valve to the recovery compressors. He also switched lines at the resin silos.

*Respiratory Protection Worn.


Jerald Uptain

ABERDEEN CHEMICAL PLANT CHEMICAL DOSIMETRY TRENDS

A

% <
PEL

100

VCM

0

100

Lead

0

100

Antimony

0

100

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.
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