



Interoffice Communication

To C. E. Gremillion
From P. L. Fetzer
Date January 25, 1977
Subject Deregulation of Laboratory Regulated Area

The last corrective step to reduce the vinyl exposure to laboratory analyst was completed September 2, 1976. This consisted of enclosing the area above the west hood. To determine the effectiveness of this corrective step a statistical analysis was undertaken. All data points from the fixed point monitor for a three week period prior to and after enclosing were tabulated. A frequency distribution for those points over 1 ppm, over 10 ppm and the average concentration were obtained. This information is shown on the attached table.

I recommend the laboratory be deregulated based on the following:

- 1) A 53.6% reduction in the frequency of consecutive points over 1 ppm
- 2) The average concentration, of 0.41 ppm, decreasing below the action level

The temporary enclosure above the hood should be reinstalled so that hood maintenance and lab light maintenance can be accomplished.


P. L. Fetzer

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VVC 000007804

Percent of Time
of Consecutive
Point Over 1 ppm

Frequency of Consecutive Points Over 1 ppm
2 3 4 5 6 8 9 10 12 13 14 18 35

Average
Concentration
ppm VCM

No. of
Total Data
Points

ORE

ER

2598

2460

.71

.40

37

14

15

8

3

4

1

5

5

2

3

2

2

2

1

2

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

Percent of Time of
Consecutive Point
Over 10 ppm

Frequency of Consecutive Points Over 10 ppm
3 4 5

No. of
Total Data
Points

ORE

ER

2598

2460

0.92

0.41

2

0

2

0

2

0

2

1

2

1

2

1

2

1

2

1

2

1

2

1

2

1

2

1

2

1

2

1

2

1

2

1

2

1

2

1

2

1

2

1

2

1

2

1

TOTAL PERCENT OF TIME OF CONSECUTIVE
VALUES OVER 1 ppm

BEFORE
13.24

AFTER
6.14



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A handwritten signature in cursive script, appearing to read "P. L. Fetzer".

P. L. Fetzer

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VVC 000007806

	No. of Total Data Points	Average Concentration ppm VCM	Frequency of Consecutive Points Over 1 ppm																Percent of Time of Consecutive Point Over 1 ppm
			2	3	4	5	6	8	9	10	12	13	14	18	35				
BEFORE	2598	.71	37	15	3	1	5	3	2	2	1	1	1	1	1	12.32			
AFTER	2460	.40	14	8	4	5	2	2	2							5.73			

No. of Total Data Points	Frequency of Consecutive Points Over 10 ppm				Percent of Time of Consecutive Point Over 10 ppm
	3	4	5		
2598	2	2	2		0.92
2460	0	0	1		0.41

TOTAL PERCENT OF TIME OF CONSECUTIVE
VALUES OVER 1 ppm

BEFORE	AFTER
<u>13.24</u>	<u>6.14</u>