

CONOCO

AHS 9/21/77
What I was thinking does
to what company
standards?
AD

Interoffice Communication

To A. H. Sather
From J. V. Uptain
Date September 12, 1977
Subject VCM PERSONNEL DOSIMETRY REVIEW

AHS 9/21/77
Basis For
Recommendations ??
AD
Statistical Analysis
of existing Data

Attached is a summary of VCM dosimetry results since March, 1977.

I recommend two changes in sampling frequency:

1. Transportation Warehouse Workers should go from a quarterly basis to a yearly basis (one sample per crew per year).
2. Process Engineers should go from a monthly basis to a quarterly basis (one sample per quarter).

No other changes in the sampling plan appear to be justified at this point.

Jerald E. Uptain
J. V. Uptain

jf

Attachment

c: GGD, DEPARTMENT HEADS

SUMMARY OF VCM PERSONNEL DOSIMETRY RESULTS

MARCH 1, 1977 - AUGUST 31, 1977

<u>Current Sampling Frequency</u>	<u>Workforce Group</u>	<u>No. Samples</u>	<u>Mean (PPM,VCM)</u>	<u>STD Deviation (PPM,VCM)</u>	<u>2-Sigma Upper Control Limit (PPM,VCM)</u>
<u>I. YEARLY</u>					
1.	Maint. Elect.	5	0.14	0.08	0.29
2.	Maint. Machinists	0	-	-	-
3.	Maint. Painter/Carpenters	1	0.05	-	-
4.	Maint. General Helpers	1	0.06	-	-
5.	Laboratory Supervisors	2	0.18	0.13	0.44
6.	Vinyl Dryer Lead Operators	3	0.11	0.03	0.17
7.	Compound Supervisors	5	0.27	0.32	0.91
8.	Compound, Dry Blend Workers	1	-.13	-	-
<u>II. QUARTERLY</u>					
1.*	Transportation Warehouse Workers	5	0.09	0.07	0.24
2.	Warehouse Workers	2	0.15	0.21	0.56
3.	Maint. Instrument Technicians	2	0.11	0.04	0.18
4.	Maint. Building Attendants	1	0.03	-	-
5.	Safety Personnel	3	0.16	0.06	0.27
6.	Mechanical Engineers	4	0.12	0.09	0.29
7.	Storekeepers & Stores Supervisor	5	0.26	0.85	1.95
8.	Reactor Lead Operators	5	0.14	0.11	0.36
9.	Vinyl Dryer Supervisors	7	0.26	0.16	0.57
10.	Vinyl Dryer Operators & Utilities	7	0.36	0.37	1.11
11.	Maint. Utility Technicians	2	0.13	0.08	0.28
12.	Laboratory Technicians	6	0.20	0.14	0.47
<u>III. MONTHLY</u>					
1.	Yard Supervisor	2	0.52	0.15	0.81
2.	Maint. Supervisors	12	0.14	0.20	0.53
3.	Maint. "A" Mechanics	12	0.19	0.22	0.62
4.	Maint. "B" Mechanics	2	1.09	1.15	3.38
5.	Maint. Helpers	1	0.18	-	-
6.*	Process Engineers	9	0.09	0.09	0.27
7.	Yard Operators	11	0.13	0.07	0.26
8.	Reactor Supervisors	13	0.51	0.93	2.38
9.	Reactor "A" Operators	12	0.22	0.22	0.66

VAB.0001041416

SUMMARY OF
ABERDEEN PLANT VCM EXPOSURE
MEASUREMENTS FOR SEPTEMBER - DECEMBER 1975 PERIOD

PLANT AREA	PERSONNEL DOSIMETRY				CONTINUOUS MONITORING				DE-REG-ULATION	
	NO. OF EMPLOYEES	NO. OF SAMPLES	AVG. EXPOSURE (PPM VCM)		% OF READINGS IN RANGE PPM (NOV.-DEC)				YES	NO
					0-0.5	0.5-1.0	1.0-5.0	+5.0		
Vinyl Dryer Area	25	94	0.3	1.0	96.7	1.0	1.7	0.6	X	
Vinyl Reactor Area	17	64	5.0	18.1	92.3	3.4	3.8	0.5	X	
Compound Area:										
Line I	9	28	0.3	0.8	94.8	3.1	1.9	0.2	X	2-15-76
Line III	31	101	0.2	0.8	98.2	1.3	0.4	0.1	X	2-15-76
Dry Blend	6	20	0.2	0.8	93.8	4.1	2.1	.0	X	2-15-76
Scrap Blender Area	-	-	-	-	94.8	4.1	1.0	0.1	X	2-15-76
Plasticizer Area	4	16	0.1	0.1	-	-	-	-	X	2-15-76
Est Warehouse	9	36	0.3	1.2	88.8	6.6	4.6	0.0	X	
Vinyl Bagging Area	10	40	0.2	0.2	91.0	5.4	3.4	10.2	X	2-15-76
Purchasing/Accounting Offices	15	4	0.8	3.4	-	-	-	-	X	3-15-76
New Office Area	31	4	0.1	0.1	-	-	-	-	X	2-15-76
Transportation Trailer	3	4	0.2	0.4	-	-	-	-	X	2-15-76
Trd Area VCM TANK FARM	5	20	0.2	0.5	-	-	-	-	X	
Receiving Warehouse	3	11	0.3	0.8	-	-	-	-	X	2-15-76
Express Warehouse	3	4	1.0	4.0	-	-	-	-	X	
Laboratory	23	98	0.3	1.3	-	-	-	-	X	
Safety Offices	9	23	0.2	0.7	-	-	-	-	X	2-15-76
Maintenance Area:										
Main Shop	4	15	0.2	0.7	-	-	-	-	X	
Stockroom	4	15	0.1	0.5	-	-	-	-	X	
Electrical Shop	8	27	0.3	1.3	-	-	-	-	X	
Office Area	7	26	0.4	1.6	-	-	-	-	X	
Maintenance Groups**										
Building Attendants	4	12	0.2	0.6	-	-	-	-		
Vinyl Maintenance	14	52	0.4	2.8	-	-	-	-		
Compound Maint.	10	40	0.2	0.5	-	-	-	-		
Utilities	11	42	0.2	0.7	-	-	-	-		
** Not Plant Areas										
* Based on 8 hour (TWA) area sampling and personnel dosimetry using the "gas" bag method.										