

**LOUISIANA DIVISION INDUSTRIAL HYGIENE REPORT
THE DOW CHEMICAL COMPANY**

LAD-95-1980-7
File Number

12/27/95
Date

Title: Results of Monitoring Conducted at the Vinyl II Facility for Vinyl Chloride, 1,1,1-Trichloroethane, 1,1, 2-Trichloroethane, Ethylene Dichloride, and Noise During 1980.

SUMMARY:

During 1980 monitoring was performed for Vinyl Chloride, 1,1,1-Trichloroethane, 1,1, 2-Trichloroethane, Ethylene Dichloride, and Noise at the Vinyl II Facility.

Results are presented in the attached tables.

Coversheet prepared by:

J. Paul

DISTRIBUTION:

None

Restricted for Use Within The Dow Chemical Company

DO NOT
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EMPLOYEE EXPOSURE SUMMARY

FILLED IN BY Frank G. Gaudin DR# 0001-5883

QUARTER 4 YEAR 1980

PLANT Vinyl II

BLOCK 66

STRESS alpha

MINIMAL DETECTABLE

LIMIT AND UNIT .03 ppm(V)

TLV2 350 ppm(V)

PERSONNEL

EXCURSION

AREA

NO.	JOB CLASS	AREA/TASK	*PT EQ.	TWA BASIS	NO. SAMPLE	AVG.	HIGH	** C	EXCUR. DURATION	NO. SAMPLES	AVG.	HIGH	** C	SAMPLE DURATION	NO. SAMPLES	AVG.	HIG
01	OTT		/	/	/	/	/	X									
02	OT		1.45	8hr	34	.21	7.1	X									
03	SOT		1.45	8hr	14	.27	2.5	X									
04	OS		1.5	8hr	30	<.03	<.03	X									
05	SS		1.5	8hr	10	.04	.39	X									
06	EDO		1.45														
07	LAB		1.45														
09	CLER.		1														
10	INSTR		1.45	8hr	11	<.03	<.03	X									
11	LABORER		1.45														
13	CONT MAINT		1.5														
16	MATL CONT																
19	MGRS/NON-OP																
20	AREA SAMP (NO JC)																
24	MFG. MGR.																
26	MFG TECH		1.5	8hr	8	<.03	<.03	X									
28	CHEMIST		1.45	8hr	4	<.03	<.03	X									
29	S & T SUPV.																
30	SHIP COORD.																

PROTECTIVE EQUIPMENT: (1) MOUTHBIT (2) FULL FACE (3) HALF FACE OR DUST (4) AIR SUPPLY (5) HEARING PROTECTION

REMARKS

DO 106950
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EMPLOYEE EXPOSURE SUMMARY

FILLED IN BY Freddie Gerson & KIK

DR# 9078-8508

QUARTER 4 YEAR 1980

PLANT Viking II BLOCK 66 STRESS Noise

MINIMAL DETECTABLE
LIMIT AND UNIT

TLV. % allowable

PERSONNEL

EXCURSION

AREA

NO.	JOB CLASS	AREA/TASK	*PT EQ.	TWA BASIS	NO. SAMPLE	AVG.	HIGH	** C	EXCUR. DURATION	NO. SAMPLES	AVG.	HIGH	** C	SAMPLE DURATION	NO. SAMPLES	AVG.	HIC
01	OTT																
02	OT		5	8hrs	18	18.4%	60%	X									
03	SOT		5	8hrs	4	11.0%	19%	X									
04	OS		5	8hrs	10	8.6%	35%	X									
05	SS		5	8hrs													
06	EDO																
07	LAB																
09	CLER.																
10	INSTR		5	8hrs													
11	LABORER																
13	CONT MAINT																
16	MATL CONT																
19	MGRS/NON-OP																
20	AREA SAMP (NO JC)																
24	MFG.																
26	MFG TECH		5	8hrs													
28	CHEMIST																
29	S & T SUPV.																
30	SHIP COORD.																

*PROTECTIVE EQUIPMENT: (1) MOUTHBIT (2) FULL FACE (3) HALF FACE OR DUST (4) AIR SUPPLY (5) HEARING PROTECTION

* COMMENTS

DO 138953
CONFIDENTIAL

FILLED IN BY Freddie Gordon, IDK

EMPLOYEE EXPOSURE SUMMARY

QUARTER 4 YEAR 1980

PLANT Unit II

BLOCK 66

STRESS Noise

MINIMAL DETECTABLE
LIMIT AND UNIT

~~9997-0000~~
9078-8508

NO.	JOB CLASS	AREA/TASK	PERSONNEL					AREA				EXCURSION			
			*PT. EQ.	TWA BASIS	NO. SAMPLES	AVG.	HIGH	SAMPLE DURATION	NO. SAMPLES	AVG.	HIGH	EXCUR. DURATION	NO. SAMPLES	AVG.	HIGH
01	OTT		✓	✓	✓	✓	✓								
02	OT		5	8hr	18	18%	60%	✓							
03	SOT		5	8hr	4	11%	19%	✓							
04	OS		5	8hr	10	8.6%	35%	✓							
05	SS														
06	EDO														
07	LAB														
08	TECH														
09	CLER.														
10	INSTR														
11	LABORER														
12	SUMMER														
13	CONT MAINT														
14	NON-OS SPEC.														
15	SECUR.														
16	MATL CONT														
17	LOADING														
18	T/C CLNG														
19	MGRS/NON-OP														
20	AREA SAMP (NO JC)														

* PROTECTIVE EQUIPMENT: (1) Mouthbit (2) Full Face (3) Half or Dust Face (4) Air Supply (5) Hearing Protection

DC 108954
CONFIDENTIAL

EMPLOYEE EXPOSURE SUMMARY

FILLED IN BY Freddie Garrison, NM

DR# 0001-8531

QUARTER 4 YEAR 1980

PLANT Veinfield BLOCK 64

STRESS EDC

MINIMAL DETECTABLE

LIMIT AND UNIT

-04 ppm (V)

TLV = 10 ppm (V)

PERSONNEL

0001-8531

EXCURSION

AREA

NO.	JOB CLASS	AREA/TASK	*PT EQ.	TWA BASIS	NO. SAMPLE	AVG.	HIGH	** C	EXCUR. DURATION	NO. SAMPLES	AVG.	HIGH	** C	SAMPLE DURATION	NO. SAMPLES	AVG.	HIG
01	OTT		/	/	/	/	/	/									
02	OT		1.45	8hr	38	2.1	17.5	X									
03	SOT		1.45	8hr	14	2.1	22.9	X									
04	OS		1.5	8hr	30	.19	2.9	X									
05	SS		1.5	8hr	10	2.9	23.5	X									
06	EDO		1.45														
07	LAB		1.45														
09	CLER.		1														
10	INSTR		1.45	8hr	11	.25	1.95	X									
11	LABORER		1.45														
13	CONT MAINT		1.45														
16	MATL CONT		1.5														
19	MGRS/NON-OP																
20	AREA SAMP (NO JC)																
24	MFG. MGR.																
26	MFG TECH		1.5	8hr	8	<.04	<.04	X									
28	CHEMIST		1.45	8hr	4	3.3	12.7	X									
29																	

EQUIPMENT: (1) MOUTHBIT (2) FULL FACE (3) HALF FACE OR DUST (4) AIR SUPPLY (5) HEARING PROTECTION

DO 138955
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FILLED IN BY Fredie Ganco, JR EMPLOYEE EXPOSURE SUMMARY DR# 0002-3687 QUARTER 4 YEAR 80
 PLANT Union II BLOCK 44 112 triethylamine MINIMAL DETECTABLE STRESS psi LIMIT AND UNIT 103 ppm(V) TLV 10 ppm(V)
0002-3687

PERSONNEL								EXCURSION					AREA				
NO.	JOB CLASS	AREA/ TASK	*PT EQ.	TWA BASIS	NO. SAMPLE	AVG.	HIGH	** C	EXCUR. DURATION	NO. SAMPLES	AVG.	HIGH	** C	SAMPLE DURATION	NO. SAMPLES	AVG.	HIGH
01	OTT					/	/										
02	OT		14.5	8hr	38	<.03	.39	X									
03	SOT		14.5	8hr	14		<.03	X									
04	OS		1.5	8hr	30			X									
05	SS		1.5	8hr	10			X									
06	EDO		14.5														
07	LAB		14.5														
09	CLER.		1														
10	INSTR		14.5	8hr	11			X									
11	LABORER		14.5														
13	CONT MAINT		14.5														
16	MATL CONT		1.5														
19	MGRS/NON- OP																
20	AREA SAMP (NO JC)																
24	MFG.																
24	MGR.																
26	MFG TECH		1.5	8hr	8	/	/	X									
28	CHEMIST S & T		14.5	8hr	4	/	/	X									
29	SUPV.																
30	SHIP COORD.																

DO 138956
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*PROTECTIVE EQUIPMENT: (1) MOUTHBIT (2) FULL FACE (3) HALF FACE OR DUST (4) AIR SUPPLY (5) HEARING PROTECTION
 **COMMENTS

DO 138956
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EMPLOYEE EXPOSURE SUMMARY

FILLED IN BY Freddie Gerson J.O.C.

DR# 0114-1986

QUARTER 4 YEAR 1980

PLANT Vinyl II BLOCK 64 STRESS V₁

MINIMAL DETECTABLE

LIMIT AND UNIT .006 ppm(V)

TLV = 1ppm(V)

PERSONNEL

EXCURSION

AREA

NO.	JOB CLASS	AREA/TASK	*PT EQ.	TWA BASIS	NO. SAMPLE	AVG.	HIGH	** C	EXCUR. DURATION	NO. SAMPLES	AVG.	HIGH	** C	SAMPLE DURATION	NO. SAMPLES	AVG.	HIG
01	OTT																
02	OT		145						15 min	49	17.3	91.0	X				
03	SOT		145						15 min	3	34.0	44.0	X				
04	OS																
05	SS																
06	EDO																
07	LAB		14														
09	CLER.																
10	INSTR																
11	LABORER																
13	CONT																
16	MAINT																
19	MATL																
20	CONT																
24	MGRS/NON- OP																
26	AREA SAMP (NO JC)																
28	MFG.																
29	MGR.																
30	MFG																
	TECH																
	CHEMIST																
	S & T																
	SUPV.																
	SHIP																
	COORD.																

Tankcar Sampling
at H & M malfunction
Vinyl Tankcar Area

*PROTECTIVE EQUIPMENT: (1) MOUTHBIT (2) FULL FACE (3) HALF FACE OR DUST (4) AIR SUPPLY (5) HEARING PROTECTION

**COMMENTS

DO 136957
CONFIDENTIAL

EMPLOYEE EXPOSURE SUMMARY
 FILLED IN BY Freddie G. Jr DR# 0114-1986 QUARTER 7 YEAR 1980
 LANT Vinyl II BLOCK 66 STRESS V1 MINIMAL DETECTABLE LIMIT AND UNIT .006 ppm(V) TLV 1 ppm(V)

PERSONNEL

0114-1986

EXCURSION

AREA

O.	JOB CLASS	AREA/TASK	*PT EQ.	TWA BASIS	NO. SAMPLE	AVG.	HIGH	** C	EXCUR. DURATION	NO. SAMPLES	AVG.	HIGH	** C	SAMPLE DURATION	NO. SAMPLES	AVG.	HIGH
1	OTT			/	/	/	/										
2	OT		1.45	8hr	38	.33	2.7	X									
3	SOT		1.45	8hr	14	.35	3.0	X									
4	OS		1.5	8hr	30	.13	.39	X									
5	SS		1.5	8hr	10	.08	.40	X									
16	EDO		1.45														
17	LAB		1.45														
19	CLER.		1														
0	INSTR		1.45	8hr	11	.09	.26	X									
1	LABORER		1.45														
13	CONT MAINT		1.45														
16	CONT		1.5														
19	MGRS/NON-OP																
20	AREA SAMP (NO JC)																
24	MFG.																
26	TECH		1.5	8hr	8	.02	.05	X									
28	CHEMIST		1.45	8hr	4	.23	.88	X									
29	SUPV.																
30	SHIP COORD.																

overexposed - catching tarheav Samples
 SOT - Tarheav analysis - overloaded Hn

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PROTECTIVE EQUIPMENT: (1) MOUTHBIT (2) FULL FACE (3) HALF FACE OR DUST (4) AIR SUPPLY (5) HEARING PROTECTION