



DOW CHEMICAL U.S.A.

March 14, 1984

LOUISIANA DIVISION
P. O. BOX 150
PLAQUEMINE, LOUISIANA 70764-0150
504 388-8000

T. P. Rozas
Building 2306

M. E. Nevill
Building 1701

xc: C. Halphen
D. Kennedy

*Summary
of accomplishments
in 1983
15.000 - 15.000
Small - use of product*

ENVIRONMENTAL ACCOMPLISHMENTS FOR 1983 AND OBJECTIVES FOR 1984 - VINYL I

Accomplishments in 1983 to reduce personnel exposures were:

- Sampling
columns*
1. Installed C8B and C8C trip scheme to help prevent Vinyl release by safety valves.
 2. Ran new drain line from C-20 and C-23 condensers to T-6 to eliminate overflow off vents. *(Condensate lines)*

*Sampling
columns*

Primary objectives for 1984 is continued reduction of exposure to Vinyl and EDC. To do this we must:

- Sampling
columns*
1. T-6, improve PH control - alarm high PH. Relocate vent above tank to remove vent from breathing zone.
 2. Reduce tank vent vapor by installing vent condensers on T-8 and T-302.
 3. Switch T-14 product to a pressure tank.
 4. Modify C-20 condenser vent piping to vent in super structure rather than ground level.
 5. Upgrade our EDC sampling points to reduce EDC waste and exposure to vapors.
 6. Improve EDC waste management - evacuate product from equipment properly and dispose of waste properly. *(properly)*
 7. Continue personnel monitoring and area monitoring of high concentration areas.

*Sampling
columns*

Secondary objectives for 1984 are to reduce noise levels and education of our people of effects of noise and prevention of over-exposure.

Marvin Cox
Environmental Specialist
Vinyl I Plant

AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

DO 083296
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EMPLOYEE EXPOSURE SUMMARY

AREA

1. Plant
2. EDC
3. Beta-Tri
4. Vinyl
5. Warehouse
6. Office
8. Loading
9. Lab

TASK

5. sampling
6. Loading/Unloading
7. Maintenance work
14. Valve/Instrument Work

EMPLOYEE EXPOSURE SUMMARY

FILLED IN BY M. M. COX

DR# 0114-1986

ANNUAL YEAR 1983
IHG 1 PPM(V)

MINIMAL DETECTABLE

PLANT VINYL 1 BLOCK 17 STRESS Vinyl LIMIT AND UNIT .2ppb

PERSONNEL 1 PPM

EXCURSION 5 PPM

AREA

NO.	JOB CLASS	AREA/TASK	*PT EQ.	TWA BASIS	NO. SAMP.	AVG.	HIGH	** C	EXCUR. DURATION	NO. SAMP.	AVG.	HIGH	** C	SAMPLE DURATION	NO. SAMP.	AVG.	HIGH	** C
01	OTT																	
02	OT	1/5	2	8 Hr	19	.37	2.05		15'	26	1.0	4.48						
03	SOT	3	2	8 Hr	5	.24	.5		15'	6	.29	1.35						
04	OS	4	2	8 Hr	12	.17	.84		15'	11	.01	.08						
05	SS	6	2	8 Hr	7	.14	.29		15'	6	.31	1.19						
06	EDO	1/7	2	8 Hr	5	.16	.40		15'	5	.02	.11						
07	LAB	9/5	2	8 Hr	3	.21	.50		15'	4	.32	.62						
09	CLER.	6	3	8 Hr	2	.29	.5		15'	2	.53	1.06						
10	INSTR	1/14	2	8 Hr	6	.24	.69		15'	6	.7	3.1						
11	LABORER	2/7	2	8 Hr	1	.1	.1		15'	1	3.24	3.24						
13	CONT MAINT	2/7	2	8 Hr	11	.24	.89		15'	16	.22	1.36						
16	MATL CONT	2/7	2	8 Hr	2	.09	.12		15'	2	LTD	LTD						
19	MGRS/NON-OP																	
20	AREA SAMP (NO JC)	1												8 Hr	117	.25	4.9	
24	MFG. MGR.	1	2	8 Hr	1	.12	.12		15'	1	LTD	LTD						
26	MFG TECH	1	2	8 Hr	6	.1	.27		15'	6	LTD	LTD						
28	CHEMIST	9/5	2	8 Hr	3	.09	.16		15'	3	.36	.95						
29	SET SUPV.																	
30	SHIP COORD.																	

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

EMPLOYEE EXPOSURE SUMMARY

FILLED IN BY M. M. COX

DR# 0001-8531

ANNUAL YEAR 1983
IHG 10ppm(V)

MINIMAL DETECTABLE

PLANT VINYL 1 BLOCK 17 STRESS EDC LIMIT AND UNIT .2ppb

PERSONNEL 10PPM

EXCURSION 15PPM

AREA

NO.	JOB CLASS	AREA/ TASK	*PT EQ.	TWA BASIS	NO. SAMP.	AVG.	HIGH	** C	EXCUR. DURATION	NO. SAMP.	AVG.	HIGH	** C	SAMPLE DURATION	NO. SAMP.	AVG.	HIGH	** C
01	OTT																	
02	OT	1 5	2	8 Hr	19	3.40	18.11		15'	26	5.32	60.4						
03	SOT	3	2	8 Hr	5	.69	1.16		15'	6	LTD	LTD						
04	OS	4	2	8 Hr	12	.28	1.21		15'	11	.08	.89						
05	SS	6	2	8 Hr	7	.25	.44		15'	6	.21	1.23						
06	EDO	1 7	2	8 Hr	5	LTD	LTD		15'	5	LTD	LTD						
07	LAB	9 5	2	8 Hr	3	.18	.41		15'	4	LTD	LTD						
09	CLER.	6	3	8 Hr	2	.23	.46		15'	2	LTD	LTD						
10	INSTR	1 14	2	8 Hr	6	.11	.28		15'	6	.26	3.06						
11	LABORER																	
13	CONT MAINT																	
16	MATL CONT	2 7	2	8 Hr	2	.29	.49		15'	2	LTD	LTD						
19	MGRS/NON- OP																	
20	AREA SAMP (NO JC)	1												8 Hr	117	1.56	28.8	
24	MFG. MGR.	1	2	8 Hr	1	LTD	LTD		15'	1	LTD	LTD						
26	MFG TECH	1	2	8 Hr	6	.39	.54		15'	6	LTD	LTD						
28	CHEMIST	9 5	2	8 Hr	3	.43	1.18		15'	3	LTD	LTD						
29	SET SUPV.																	
30	SHIP COORD.																	

*Correct
Protective
Equipment*

*Not Sampled
Equipment*

DO 083299
CONFIDENTIAL

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

EMPLOYEE EXPOSURE SUMMARY

FILLED IN BY M. M. COX

DR# 0002-3687

ANNUAL YEAR 1983
IHG 10ppm(V)

PLANT VINYL 1 BLOCK 17

STRESS Beta-Tri

MINIMAL DETECTABLE
LIMIT AND UNIT .2ppb

		PERSONNEL 10PPM							EXCURSION 20PPM					AREA				
NO.	JOB CLASS	AREA/ TASK	*PT EQ.	TWA BASIS	NO. SAMP.	AVG.	HIGH	** C	EXCUR. DURATION	NO. SAMP.	AVG.	HIGH	** C	SAMPLE DURATION	NO. SAMP.	AVG.	HIGH	** C
01	OTT																	
02	OT	1/5	2	8 Hr	19	.06	.44		15'	26	.16	2.14						
03	SOT	3/	2	8 Hr	5	LTD	LTD		15'	6	LTD	LTD						
04	OS	4/	2	8 Hr	12	.04	.44		15'	11	.1	1.09						
05	SS	6/	2	8 Hr	7	.004	.03		15'	6	.34	2.01						
06	EDO	1/7	2	8 Hr	5	.11	.31		15'	5	.04	.21						
07	LAB	9/5	2	8 Hr	3	.03	.09		15'	4	LTD	LTD						
09	CLER.	6/	3	8 Hr	2	LTD	LTD		15'	2	1.05	2.1						
10	INSTR	1/14	2	8 Hr	6	.04	.11		15'	6	.007	.04						
11	LABORER																	
13	CONT MAINT																	
16	MATL CONT	2/7	2	8 Hr	2	.02	.04		15'	2	LTD	LTD						
19	MGRS/NON- OP																	
20	AREA SAMP (NO JC)	1/												8 Hr	117	.09	2.42	
24	MFG. MGR.	1/	2	8 Hr	1	LTD	LTD		15'	1	LTD	LTD						
26	MFG TECH	1/	2	8 Hr	6	.06	.097		15'	6	LTD	LTD						
28	CHEMIST	9/5	2	8 Hr	3	.018	.054		15'	6	LTD	LTD						
29	SET SUPV.																	
30	SHIP COORD.																	

DO 083300
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*PROTECTIVE EQUIPMENT: (1) MOUTHBIT (2) FULL FACE (3) HALF FACE OR DUST (4) AIR SUPPLY (5) HEARING PROTECTION

EMPLOYEE EXPOSURE SUMMARY

ANNUAL YEAR 1983

FILLED IN BY M. M. COX

DR# 0001-3412

IHG 100PPM

PLANT VINYL 1 BLOCK 17 STRESS 1,1,1,2 Tetras MINIMAL DETECTABLE LIMIT AND UNIT .2ppb

PERSONNEL 100PPM

EXCURSION 150PPM

AREA

NO.	JOB CLASS	AREA/TASK	*PT EQ.	TWA BASIS	NO. SAMP.	AVG.	HIGH	** C	EXCUR. DURATION	NO. SAMP.	AVG.	HIGH	** C	SAMPLE DURATION	NO. SAMP.	AVG.	HIGH	** C
01	OTT																	
02	OT	1/5	2	8 Hr	19	LTD	LTD		15'	26	.05	1.40						
03	SOT	3/	2	8 Hr	5	LTD	LTD		15'	6	LTD	LTD						
04	OS	4/	2	8 Hr	12	LTD	LTD		15'	11	LTD	LTD						
05	SS	6/	2	8 Hr	7	LTD	LTD		15'	6	LTD	LTD						
06	EDO	1/7	2	8 Hr	5	LTD	LTD		15'	5	LTD	LTD						
07	LAB	9/5	2	8 Hr	3	LTD	LTD		15'	4	LTD	LTD						
09	CLER.	6/	3	8 Hr	2	LTD	LTD		15'	2	LTD	LTD						
10	INSTR	1/14	2	8 Hr	6	LTD	LTD		15'	6	LTD	LTD						
11	LABORER																	
13	CONT MAINT																	
16	MATL CONT	2/7	2	8 Hr	2	LTD	LTD		15'	2	LTD	LTD						
19	MGRS/NON-OP																	
20	AREA SAMP (NO JC)	1/												8 Hr	117	.001	.13	
24	MFG. MGR.	1/	2	8 Hr	1	LTD	LTD		15'	1	LTD	LTD						
26	MFG TECH	1/	2	8 Hr	6	LTD	LTD		15'	6	LTD	LTD						
28	CHEMIST	9/5	2	8 Hr	3	LTD	LTD		15'	3	LTD	LTD						
29	SET SUPV.																	
30	SHIP COORD.																	

DO 083301
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*PROTECTIVE EQUIPMENT: (1) MOUTHPIECE (2) FULL FACE (3) HALF FACE OR DUST (4) AIR SUPPLY (5) HEARING PROTECTION

FILLED IN BY M. M. COX

EMPLOYEE EXPOSURE SUMMARY

DR# 0002-3632

ANNUAL YEAR 1983

IHG 0.1PPM(V)

PLANT VINYL 1 BLOCK 17 STRESS Tetras 1,1,2,2 MINIMAL DETECTABLE LIMIT AND UNIT .2ppb

		PERSONNEL .1PP.							EXCURSION .3PPM					AREA				
NO.	JOB CLASS	AREA/ TASK	*PT EQ.	TWA BASIS	NO. SAMP.	AVG.	HIGH	** C	EXCUR. DURATION	NO. SAMP.	AVG.	HIGH	** C	SAMPLE DURATION	NO. SAMP.	AVG.	HIGH	** C
01	OTT																	
02	OT	1/5	2	8 Hr	19	LTD	LTD		15'	26	LTD	LTD						
03	SOT	3/	2	8 Hr	5	LTD	LTD		15'	6	LTD	LTD						
04	OS	4/	2	8 Hr	12	LTD	LTD		15'	11	LTD	LTD						
05	SS	6/	2	8 Hr	7	LTD	LTD		15'	6	LTD	LTD						
06	EDO	1/7	2	8 Hr	5	LTD	LTD		15'	5	LTD	LTD						
07	LAB	9/5	2	8 Hr	3	LTD	LTD		15'	4	LTD	LTD						
09	CLER.	6/	3	8 Hr	2	LTD	LTD		15'	2	LTD	LTD						
10	INSTR	1/14	2	8 Hr	6	LTD	LTD		15'	6	LTD	LTD						
11	LABORER																	
13	CONT MAINT																	
16	MATL CONT	2/7	2	8 Hr	2	LTD	LTD		15'	2	LTD	LTD						
19	MGRS/NON- OP																	
20	AREA SAMP (NO JC)	1/												8 Hr	117	.0009	.11	
24	MFG. MGR.	1/	2	8 Hr	1	LTD	LTD		15'	1	LTD	LTD						
26	MFG TECH	1/	2	8 Hr	6	LTD	LTD		15'	6	LTD	LTD						
28	CHEMIST	9/5	2	8 Hr	3	LTD	LTD		15'	3	LTD	LTD						
29	SET SUPV.																	
30	SHIP COORD.																	

DO 083302
CONFIDENTIAL

DO 083302
CONFIDENTIAL

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

**COMMENTS (Use reverse side)

VINYL CHLORIDE PLANT PERSONNEL EXPOSURE STATUS REPORT

DATE	NAME	COMPOUND ANALYZED	PPM	JOB ON DATE OF OVER EXPOSURE.
4-14-83	J. McKines	8 Hr TWA VINYL	2.05	O. T. Tank Person catching Vinyl Samples.
6-2-83	R. Jefferson	8 Hr TWA EDC	13.12	O. T. Sample Person catching and running EDC Samples.
12-9-83	T. Smith Jr.	8 Hr TWA EDC	18.11	O. T. Sample Person catching & running EDC Samples.
1-25-83	G. B. Barbay Jr.	15' Excursion EDC	15.58	O. T. Sample Person catching EDC Samples
6-2-83	R. Jefferson	15' Excursion EDC	60.4	O. T. Sample Person catching EDC Samples.