



DOW CHEMICAL U.S.A.

October 18, 1983

LOUISIANA DIVISION
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The attached survey shows results of 3 different methods of monitoring vinyl chloride PPM in air during cleaning of vinyl chloride tank cars.

HNU instrument readings and 15 minute personnel monitoring samples were obtained while initially opening cars after draining. Area samples were obtained with monitoring pumps, covering the entire process of draining water from cars to sump, normally 4 to 5 hours.

Sampling is continuous to insure that cleaning personnel are not over-exposed to vinyl chloride during the tank car cleaning process.

The OSHA standard for vinyl chloride in air is 1 PPM averaged over an 8 hour period and a ceiling of 5 PPM averaged over a 15 minute excursion period. Based on these results, present cleaning procedures should protect employees from over-exposure to vinyl chloride.

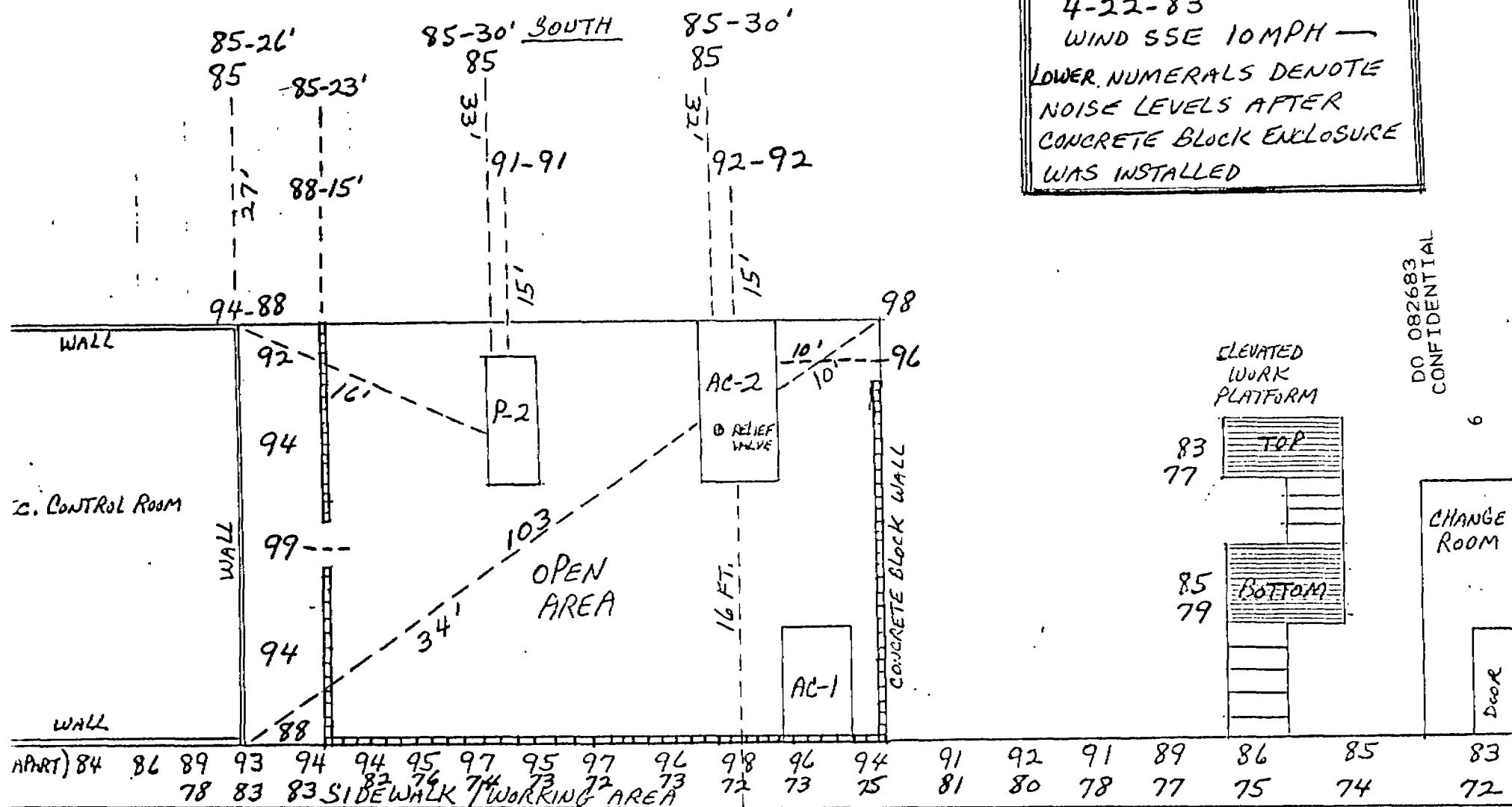
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lrj

<u>DATE</u>	<u>CAR NO.</u>	<u>HNU INSTRUMENT</u>	<u>PERSONNEL</u> <u>15 MIN. SAMPLES</u>	<u>AREA SAMPLES</u> <u>DRAINING WATER</u>
		<u>PPM</u>	<u>PPM</u>	<u>PPM</u>
6-9-83	DOW 8134	< 1	< 0.25 < 0.26	
6-9-83	GAT 50560	3	< 0.26 < 0.26	
6-21-83	DOW 8155	7	< 0.21 < 0.23	
7-6-83	GAT 47535	< 1		
7-6-83	DOW 4694	< 1		
7-6-83	GAT 47536	< 1		
7-12-83	GAT 46875	< 1		
7-12-83	GAT 46950	< 1		
7-25-83	GAT 47533	< 1		
8-25-83	GAT 46949	< 1		0.10 0.14
9-14-83	GAT 46936	2		0.05 0.06
9-14-83	DOW 8106	3		0.04 0.06
9-16-83	GAT 46971	< 1		
9-28-83	UTL 96142	< 1	0.0	
9-28-83	GAT 24737	< 1	0.0	
10-7-83	GAT 24724	< 1	0.62 2.0	0.02 0.05 0.08

AC-2 AND PUMP P-2 RUNNING (AC-2 PANELS OFF)

4-22-83
WIND SSE 10MPH —
LOWER NUMERALS DENOTE
NOISE LEVELS AFTER
CONCRETE BLOCK ENCLOSURE
WAS INSTALLED



DO 082683
CONFIDENTIAL

← TRACK #14 - POLY HOPPER CARS SPOTTED →

READINGS ON SIDEWALK/WORKING AREA TAKEN 5 FT. APART NEXT TO CARS