

PLAINTIFF'S EXHIBIT

DOW-1921

2008/10/15

INSTRUMENT PERSONNEL E. H. TEST RESULTS & SUMMARY

ST0178033

RESTRICTED
For Use of Dow Employees Onl

INDUSTRIAL HYGIENE SUMMARY
CHEMICAL EXPOSURE DATA
LOUISIANA DIVISION

DEPARTMENT: Chloro-Alkali #12 JOB CLASSIFICATION: Steamer Apt. DATE OF THIS REPORT: Dec. 1978
DATE OF LAST REPORT FOR THIS JOB CLASSIFICATION: _____

CHEMICAL NAME	STANDARD (TLV)	CEILING	SAMPLE(S) RANGE HIGH LOW	NUMBER OF SAMPLES TAKEN	SAMPLE PERIOD DATE(S)	TWA
Asbestos	2 fibers > 5 μ l	2 fibers > 5 μ l	.007 .001	2 per 6 hrs.	Oct. 1978	.004
HCB	.010 ppm	.030 ppm	.050 .023	2 per 6 hrs.	Oct. 1978	.027
Chlorine	1 ppm	3 ppm	.03 N/D	2 per 6 hrs.	Aug. Sept. 1978	.01
HCl fumes	1 mg/m ³	1 mg/m ³	N/D N/D	2 per 6 hrs.	Oct. 1978	N/D
H ₂ O ₂ fumes	1 mg/m ³	1 mg/m ³	N/D N/D	2 per 6 hrs.	Oct. 1978	N/D
NaOH fumes	2 mg/m ³	2 mg/m ³	.005 N/D	2 per 6 hrs.	Oct. 1978	.002
Chloroform	350 ppm	525 ppm	.13 .11	2 per 6 hrs.	Oct. 1978	.12
$E_m = \frac{X \text{ TWA}}{X \text{ Standard}} + \frac{Y \text{ TWA}}{Y \text{ Standard}} + \frac{Z \text{ TWA}}{Z \text{ Standard}} = \begin{matrix} < (1) \text{ Acceptable} \\ > (1) \text{ Unacceptable} \end{matrix}$						$E_m = \text{Equivalent Exposure} \rightarrow 3.71$

Exposure to noise (A scale) for this job classification - Equivalent Exposure Rate - 85 dBA $\rightarrow$ < 1%

Standard(s) TWA, Range & Ceiling to be reported in FPM Vol. if a gas or vapor, or mg/m³ if a dust or mist. The exception is asbestos, which is to be expressed as number of fibers greater than 5 micron/cc of air sampled.

Distribution:

Industrial Hygiene
Medical Department

JOB DESCRIPTION OF WORK DONE BY THIS JOB CLASSIFICATION

Duties include, plant & shop work on all controllers & valves in block

STO178031

Area: _____

Date	To b classification	Name	Asbestos	HCB	Chlorine	HCl fumes	H ₂ SO ₄ fumes	NaOH fumes	% Noise allowable	Chloroethene	Duration	Test	Wind direction	Location of sample	Calculation before/after	Remarks
10-1-78	I.S.	Redacted	2.5/100	1010	100m	7m/10	1m/10	2m/10	25dB	30m	1/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
10-2	I.S.			.0504					3		6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
10-2	I.S.								0		6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
10-2	I.S.										6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
10-4	STS		.007	.0229				.004			6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
10-4	I.S.		.001					.000			6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
10-5	STS								0		6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
10-5	I.S.								0		6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
10-6	I.S.										6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
10-6	STS										6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
10-9	STS									.13	6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
10-9	I.S.									.11	6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
9/16	I.S.			.03							6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
9/16	I.S.			.01							6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
9/16	I.S.			1/10							6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard
9/16	I.S.			1/10							6/10	1/10	1/10	1/10	1/10	OSHA 91.100 Standard