



DOW CHEMICAL U.S.A.

Faxthang

June 10, 1977

LOUISIANA DIVISION
PLAQUEMINE, LOUISIANA 70764
804 382-8000

TO ALL LHC #2 EMPLOYEES

For your information:

As most of you know, we have been taking air samples on each classification for eight hour periods. These samples were run in the lab for Benzene, Toluene, Xylene, Styrene, and Butadiene 1-3.

The results of the samples are:

Classification	Number of Samples	Parts Per Million									
		Benzene		Toluene		Xylene		Styrene		Butadiene 1-3	
		High	Avg.	High	Avg.	High	Avg.	High	Avg.	High	Avg.
S. S.	3	.16	.05	.05	.01	0	0	0	0	0	0
O. S.	3	.22	.07	.03	.01	0	0	0	0	0	0
S. O. T.	2	.04	.04	.16	.09	.07	.02	.05	.01	0	0
Process O. T.	4	.93	.34	.08	.04	0	0	0	0	0	0
Furnace O. T.	2	.04	.03	.02	.01	0	0	0	0	0	0
Janitor	3	.02	.01	.02	.01	0	0	0	0	0	0
Secretary	1	0	0	0	0	0	0	0	0	0	0
Instru. Man	2	.42	.25	.04	.02	0	0	0	0	0	0
By Waste Water											
Pit	2	.16	.15	.07	.06	0	0	0	0	0	0
By 2E-455	1	.03	.03	0	0	0	0	0	0	0	0
Inside 2C-55	2	.16	.14	.01	.005	0	0	0	0	0	0

OSHA has just imposed a new standard on Benzene. It is 1 ppm. The old standard was 10 ppm.

TWA (time weighted average) - the average amount of material which can be tolerated for an eight-hour work shift 40 hours per week for the lifetime of the employee without causing any adverse health effect. For example, you could work in air with 200 ppm Toluene for 4 hours and in an area with zero Toluene for 4 hours and your TWA would be 100 ppm TWA.

TLV (threshold limit value) refers to airborne concentrations of substances and represent conditions under which it is believed nearly all workers may be repeatedly exposed day after day without adverse affect.

The TLV for our samples are:

Benzene	1 ppm
Toluene	100 ppm
Xylene	100 ppm
Styrene	100 ppm
Butadiene 1-3	1000 ppm



AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

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LHC #2 Employees

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The TWA should not exceed the maximum in the TLV.

~~As you can see by the samples, we are well within OSHA requirements.~~

J. D. Farthing

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