

ETHYL CORPORATION

INTER-OFFICE

To R.J. Fendley

ADDRESS Pasadena

FROM W.M. Sorey

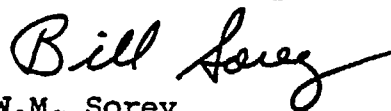
ADDRESS BRT

SUBJECT Air Monitoring HB-2

DATE September 20, 1983

On July 20, 1983 Travis Rucker and I performed air monitoring in the vicinity of the lapping operation in the HB-2 maintenance shop. Two samples were taken, one next to the exhaust fan in the wall within 5 feet of the lapping table and one within 5 feet of the table at which the employees eat their lunch. The concentration of dust near the lapping table was 0.2 milligrams per cubic meter (mg/M^3). The sample near the eating table contained less than 0.2 mg/M^3 of total dust. The OSHA permissible exposure limit for nuisance dust is 15 mg/M^3 . (The American Conference of Governmental Industrial Hygienists' TLV is 10 mg/M^3 as an 8-hour time weighted average.)

The abrasive material used in this operation is aluminum oxide suspended in oil (3-M John Crane Lapping Vehicle). Due to the nature of this operation it is very unlikely that the abrasive dust could become airborne. My only recommendation is that employees try to keep skin contact with this and all oils and solvents to a minimum. If you have any questions please call.



W.M. Sorey
Corporate Industrial Hygienist

WMS:dtb

cc L.E. Hegeman
C.B. Hunt
J.D. Roper.
J.A. Jacoby
D.E. Johnson
~~G.L. Ter Haar~~
File: Pasadena HB-2



Results of Air Monitoring
For Dust in HB-2 Maintenance
Houston Plant

<u>Location</u>	<u>Date</u>	<u>Airborne Concentration in mg/M³</u>
Above Lapping Table	7-20-83	0.2
Near Lunch Table	7-20-83	N.D.

The ACGIH TLV for dust is 10 mg/M³

The OSHA PEL for dust is 15 mg/M³

Miscellaneous grinding was done throughout the day at a vented grinding wheel near the lapping table.

* N.D. - none detected

The limit of detection for this sample is 0.2 mg/M³.