



DOW CHEMICAL U.S.A.

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LOUISIANA DIVISION

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INDUSTRIAL HYGIENE SURVEY FOR HOOD EVALUATION AT GLYCOL II

On February 24, 1983, the laboratory hoods at Glycol II were evaluated for face air velocity using the Hastings Air Flow Meter. The laboratory hoods were classified according to their hood face velocities with the sash at an 18-inch opening. Laboratory hoods are grouped into four classifications:

Class A (high toxicity use)
Carcinogenic, toxic, highly
flammable.

125 - 150 ft/min average hood
face velocity.
100 ft/min minimum reading.

Class B (normal lab use)
Toxic or flammable

100 ft/min average face velocity.
80 ft/min minimum reading.

Class C (low toxicity use)
Non-toxic or non-hazardous
compound.

75 ft/min average face velocity.
50 ft/min minimum reading.

Class D (Inadequate)

The Glycol II laboratory hood classifications and geographic locations are listed below:

<u>Hood</u>	<u>Location</u>	<u>Classification</u>
2	Fume room, North wall, Center	A
3	Fume room, North wall, East side	A
4	Fume room, South wall,	A

In addition, the EO sampling hood in the process area was evaluated. This hood is also Class A. It is recommended that the door to the shack be kept closed when sampling in this hood. Air blowing in the door can cause currents across the face of the hood that disrupt the normal flow patterns in the hood and could possibly cause vapors to blow back out of the hood.

Bill

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