TABLE 28-K

MINIMUM CONTROL VELOCITY (FPM) FOR UNDISTURBED LOCATIONS

Class	Enclosing Hood: One Open Side	Enclosing Hood: Two Open Sides	Lateral Exhaust	Canopy Hood: Three Open Sides	Canopy Hood: Four Open Sides
A-1, A-2, and B-1.....	75	100	100	125	175
A-3, B-2, and C-1.....	65	90	75	100	150
B-3 and C-2	50	75	50	75	125
A-4, B-4, C-3, and C-4..	Adequate general room ventilation required				

method is not to be used if operator has to lean over the tank)

4 *General room ventilation* that employs no *local* exhaust hoods The room air is diluted by fans or ventilators set in the room wall or ceiling Only those tanks classified as Classes A-4, B-4, C-3, or C-4 should be ventilated in this manner All others should have hoods of one of the three types listed above

5 *Other methods* employ special devices such as push-pull systems, where air is blown across the tank into the exhaust hood in order to conserve heated room air

Minimum control velocity Table 28-K gives minimum control velocities, for the three types of hoods, in locations where the desired flow of air is undisturbed by cross drafts which might come from open windows, wall fans, unit heaters, or moving machinery Should such cross drafts exist, Table 28-L gives a value to add to the minimum control velocities shown in Table 28-K.

Ventilation requirements The final step is to calculate the cfm that must be exhausted through the hood, based on the minimum control velocity, given in Table 28-K

For an enclosing hood, the cfm should be not less that the minimum control velocity times the net area of all openings in the enclosure, through which air can flow into the hood

When lateral exhaust hoods are used, the ventilation rate in cfm per square foot of tank area is given, for different minimum control velocities, in Table 28-M The rates depend on whether the tank is free standing

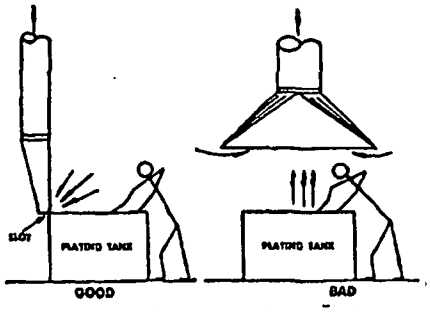

Fig 28-14. The hood should be located so the contaminant is removed away from the breathing zone of the worker

Courtesy American Conference of Governmental Industrial Hygienists

TABLE 28-L

SUGGESTED VELOCITIES TO COMPENSATE FOR ROOM CROSS DRAFTS AT TANK LEVEL

Draft Definition	Add to Minimum Control Velocity for Undisturbed Location (fpm)
Slight	25
Moderate	50
Strong*	...100
Very Strong*	.200

*It is preferable to use baffles to overcome strong drafts rather than to use additional control velocity