Fermilab

Exhaust System Survey Form

Survey Date

Location Information

Organization WR Location (Building)

Room Description

Contact Name ID

System Information

Sequence Number Serial Number

Make FNAL Number

Model Hood Type

Exhaust Type

Atmospheric Hazards

Operation Description

Used Per Week

Measurement & Survey Information

Surveyor ID

Instrument Used

Sticker Information

Maximum Sash Height Sticker completed and attached ◯ Yes ◯ No

Maximum Duct-to-Work Distance Sticker completed and attached ◯ Yes ◯ No

Notice - Surveyed on Sticker completed and attached ◯ Yes ◯ No

Substandard AirFlow Sticker completed and attached ◯ Yes ◯ No

Required Information

	Abrasive Blast Booth	Abrasive Blast Cabinet	Downdraft Table	Canopy Hood	Lab Hood	Paint Booth	Power Tool Exhaust	Slot Exhaust	Vehicle Exhaust	Welding Duct Exhaust	
Maximum Dimension (X)	X					X	X		X		
Maximum Dimension (Y)	X					X	X		X		
Maximum Duct-to-work Distance									X		
Dimension (X) of Adjusted Hood						X	X				
Dimension (Y) of Adjusted Hood						X	X				
Minimum Velocity	X			X		X	X	X	X		X
Minimum Average Velocity			X			X	X				
Minimum Flow									X	X	
Minimum Average Flow	X										
Minimum Static Pressure		X*									
Horizontal Hood Overhang				X							

X* - (For non-enclosed systems measure Duct Diameter in feet)

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Maximum Dimension (X) of Hood Opening (ft)		Horizontal Hood Overhang (ft)	
Maximum Duct-To-Work Distance (ft)		Maximum Dimension(Y) of Hood Opening (ft)	
Dimension (X) of Adjusted Hood Opening (ft)		Dimension (Y) of Adjusted Hood Opening (ft)	
Minimum Velocity Through Opening (fpm)		Minimum Average Velocity Through Opening (fpm)	
Minimum Flow Rate (cfm)		Minimum Average Flowrate (cfm)	
Actual Static Pressure (H2O)		[For non-enclosed systems: Duct Diameter (ft)]	

Comments/Notes

Sketch Information

Attach a picture of the hood opening below, and indicate measured air velocities.

AB Booth:	Minimum average flow across work= 80 cfm/ft^2 Minimum velocity at inlets= 250 fpm
AB Cabinet:	Minimum static pressure during blasting= 0.043" H2O (This static pressure insures a minimum inward leakage of 500 fpm)
Downdraft Table:	Minimum average velocity at work piece= 100 fpm
Canopy Hood:	Minimum velocity at hood edge during operation = 100 fpm Horizontal hood overhang= 0.4*D, where D is the vertical distance between the work surface and through bottom of the hood
Lab Hood:	Minimum average velocity in plane of sash = 80-100 fpm
Paint Booth:	Minimum average velocity in plane of opening = 125 fpm for face area greater than 4ft^2 Minimum velocity in plane of opening = 100 fpm for face area less than or equal to 4ft^2
Power Tool Exhaust:	Minimum velocity at point of operation = 500-2000 fpm Note: The lower end of this range applies to low toxicity contaminants in infrequent operations. The upper end applies to high toxicity contaminants in infrequent operations.
Slot Exhaust:	Minimum flowrate = 50-10 cfm/ft^2 of work surface Minimum flowrate at work = 50-100 fpm Maximum slot to work distance = 2 feet **For fumes and fine dusts:** Q=350 cfm/ft of hood width Maximum slot to work distance = 2 feet
Vehicle Exhaust:	Minimum flow per vehicle = 400 cfm
Welding Duct Exhaust:	Minimum velocity at work = 100 fpm