Print Form

Fermilab
ES&H Section

Exhaust System Survey Form

Survey Date

Location Information

Organization

Location (Building)

Room Description

Contact Fermi Name

ID Number

System Information

Sequence Number

Serial Number

Make

FNAL Number

Model

Hood Type

Exhaust Type

Other

Atmospheric Hazards

Operation Description

Frequency of Use (Times/Week)

Measurement & Survey Information

Surveyor Fermi Name

ID Number

Instrument Used-Select One

◯ ALNOR Velometer ◯ Kurz Velometer ◯ ALNOR Micromanomter ◯ Other

Required Information

	AB Booth	AB Cabinet	Burning 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.

Maximum Dimension (X) of Hood Opening (ft) _____ Maximum Dimension(Y) of Hood Opening (ft) _____

Maximum Duct-To-Work Distance (ft) _____

Dimension (X) of Adjusted Hood Opening (ft) _____ Dimension (Y) of Adjusted Hood Opening (ft) _____

Minimum Velocity Through Opening (ft/min) _____ Minimum Average Velocity Through Opening (ft/min) _____

Minimum Flow Rate (ft^3/min) _____ Minimum Average Flowrate (ft^3/min) _____

Actual Static Pressure (H_2O) _____ [For non-enclosed systems: Duct Diameter (ft.)] _____

Horizontal Hood Overhang (ft) _____

Sketch Information

Sketch hood opening below and indicate measured air velocities

Image Field

AB Booth:	Minimum average flow across work= 20 cfm/ft2 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)
Burning Table:	Minimum velocity at hood edge during operation= 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 thew bottom of the hood
Lab Hood:	Minimum average velocity in plane of sash = 100 fpm. Minimum velocity in plane of sash = 50 fpm.
Paint Booth:	Minimum average velocity in plane of opening = 100fpm. Minimum velocity in plane of opening = 50 fpm.
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. The upper end applies to high toxicity contaminants in continuous operations.
Slot Exhaust:	Minimum flowrate 50-100 cfm/ft^2 of work surface. Minimum velocity at work = 50-100 fpm. Maximum slot to work distance = 2 feet. **Note:** The lower end of this range applies to low toxicity contaminants with a low generation rate. The upper end of the range applies to higher toxicity contaminants with a higher generation rate.
Vehicle Exhaust:	Minimum flow per vehicle = 100 cfm (gasoline below 200 horsepower). = 200 cfm (gasoline over 200 horsepower). = 400 cfm (diesel).
Welding Duct Exhaust:	Minimum velocity at work = 100 fpm.

Sticker Information

Maximum Sash Height Sticker completed and attached ◯ Yes ◯ No

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

Notive- Surveyed on Sticker completed and attched ◯ Yes ◯ No

Substandard AirFlow Sticker completed and attached ◯ Yes ◯ No

Comments Information