

Exhaust System Survey Form

Survey Date _____

Location Information

Organization (circle one) BD BSS CD ESH FESS LSS PPD TD

Location (**Building**) _____

Room Description _____

Contact Fermi Name _____ ID# _____

System Information

Sequence # _____ Serial # _____

Make _____ FNAL # _____

Model _____

Hood Type (circle one) Circular Elliptical NONE-Fully enclosed Rectangular Slotted

Exhaust Type (circle one)

- | | | |
|------------------------|---------------------------|------------------------|
| Abrasive Blast Booth | Panel Saw | Power Tool – Sander |
| Abrasive Blast Cabinet | Power Tool | Power Tool – Table Saw |
| Blue Print | Power Tool – Bandsaw | Room Exhaust |
| Canopy | Power Tool – Belt Sander | Spray Paint Booth |
| Kitchen Hood | Power Tool – Circular Saw | Slot Exhaust |
| Lab Hood | Power Tool – Drill Press | Vehicle |
| Local Exhaust | Power Tool – Grinder | Vent |
| Mixing Room | Power Tool – Jointer | Welding Booth |
| Paint Booth | Power Tool – Planer | Welding Duct Exhaust |
| | | OTHER _____ |

Atmospheric Hazard(s) _____

Operation Description: _____

Frequency of use (Times/Week) _____

Measurement & Survey Information

Surveyor Fermi Name _____ ID# _____

Instrument used (circle one) ALNOR Velometer Kurz Velometer ALNOR Micromanometer OTHER _____

REQUIRED INFORMATION

	A B B o o t h	A B C a b i n e t	B u r i n g T a b l e	C a n o p y H o o d	L a b H o o d	P a i n t B o o t h	P o w e r T o o l E x h a u s t	S l o t E x h a u s t	V e h i c l e E x h a u s t	W e l d i n g D u c t E x h a u s t
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 Flowrate (ft³/min) _____

Minimum Average Flowrate (ft³/min) _____

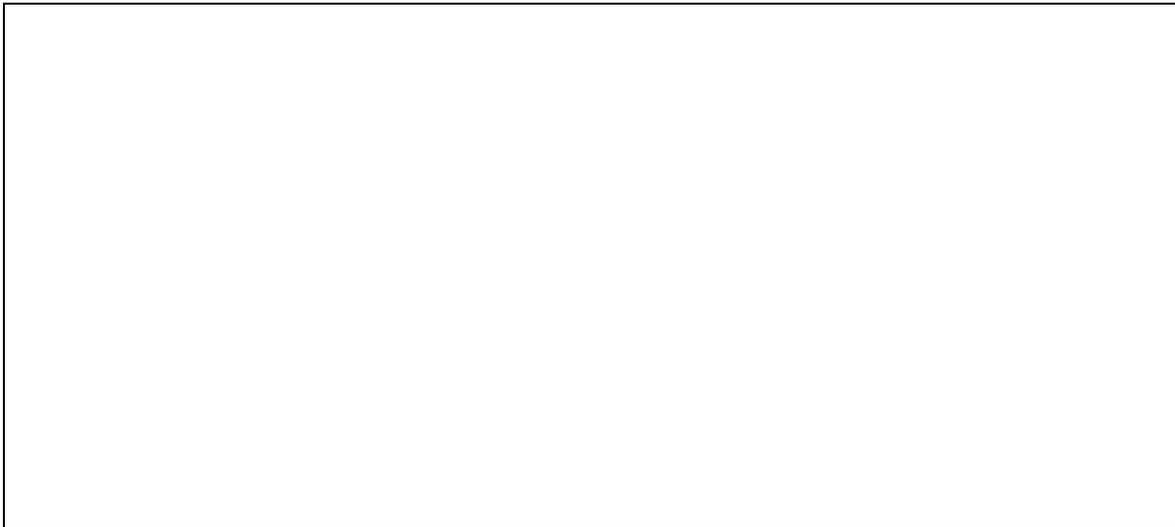
Actual Static Pressure ("H₂O) _____

(For non-enclosed systems: Duct Diameter (ft): _____)

Horizontal Hood Overhang (ft) _____

Sketch Information

Sketch hood opening below and indicate measured air velocities.



Flow Requirement information

- 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 the 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 continuous operations.
- Slot Exhaust: Minimum flowrate 50-100 cfm/ft² 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 (circle one)	YES	NO
Maximum Duct-to-Work Distance Sticker completed and attached (circle one)	YES	NO
Notice – Surveyed on Sticker completed and attached (circle one)	YES	NO
Substandard AirFlow Sticker completed and attached (circle one)	YES	NO

Comments Information

Comments _____
