				DATE OF PREVIOUS INSPECTION	DATE		
LABORATORY CHEMICAL FUME HOOD INSPECTION				THIS INSPECTION PERFORME	D BY (Name)		
LOCATION OF HOOD				TYPE OF HOOD			
				Auxiliary Other			
GENERAL TOXICITY RATING OF MATERIAL USED IN HOOD				☐ Standard ☐ Air supply ☐ (specify) CROSS SECTIONAL AREA AT FACE			
Low High						2	
☐ (STEL >1, 00 0 PPM) ☐ Medium ☐ (STEL <1 0 PPM)				Height:feet x Width:feet =feet 2			
AIR VELOCITY READINGS Mfr/Model:				Ser. #:			
ı			Fxha	ust on, sash fully raised.		6. 1 1P TT 1	
FPM FPM FPM FPM FPM FPM FPM FPM FPM				FPM + FPM + FPM + FPM g = FPM average. Average value FPM. Standard Fume Hood Exhaust Flenum Baffles Work Surface Airfoil			
				Exhaust on, sash raised 18 inches. (Readings may not vary more than ± 20 FPM from average value.)			
FPM FPM FPM				age value FPM. should be 80-120 FPM.) ust flow value CFPM.			
				Exhaust on, sash 6 inches above work surface. (Readings shall be at least 2 but not more than 3 times the face velocity when sash was fully raised) Average value FPM.			
FPM	FPM	FPM					
FFIM			Exhau	st flow value CFPM			
		EXHAUST RE	EADING \	WITH SASH CLOSED			
			Exha	ust flow value CFPM	l.		
TITANIUM TETRACHLO		ON OF FLOW	ļ	ONE-MINUTE SMOKE BOMB D	ISCHARGE		
PATTERNS AT HOOD FACE. Satisfactory flow patterns evident. Unsatisfactory (describe):				 ☐ Effective smoke removal with sash fully raised. ☐ Effective smoke removal with sash 6 inches above work surface. ☐ Effective smoke removal with sash closed. ☐ If unsatisfactory, describe: 			
				-			
			APPRO	OVAL SIGNATURE		DATE	
This hood is found to be toxicity rating as specifi This hood has been found	ed above.	_	jeneral				

Chemical Fume Hood Testing Procedures

Testing Procedures:

- 1. Position the sash fully raised.
- 2. Puff smoke around the opening of the hood by using Ventilation Smoke Tubes (or other visible smoke device). All smoke should be captured by the hood exhaust and not be blown into the room.
- 3. Divide the fume hood opening into equal grids with sides measuring no more than 12-inches (approximately 9 grids).
- 4. The tip of the Thermoanemometer probe shall be positioned in the plane of the sash opening and fixed (NOT HANDHELD).
- 5. Each grid velocity shall be the average of <u>at least</u> 10 measurements made over <u>at least</u> 10 seconds.
- 6. Record each reading in the applicable square on the form.
- 7. Continue taking readings until all grids are completed.
- 8. Position the sash so that the fume hood raised opening is 18-inches.
- 9. Divide the fume hood opening into equal grids with sides measuring no more than 12-inches (approximately 6 grids).
- 10. Follow steps 4, 5 and 6 for measuring and recording.
- 11. Position the sash so that the fume hood raised opening is 6-inches.
- 12. Divide the fume hood opening into equal grids with sides measuring no more than 12-inches (approximately 3 grids).
- 13. Follow steps 4, 5 and 6 for measuring and recording.

Paper Work:

- 1. Fill out the required information on the "Laboratory Chemical Fume Hood Inspection" (Form S&E-283).
- 2. If a Fume Hood does not pass, tape a "Warning Do Not Use/Out of Service" sign onto the sash, and remove or cross out any earlier inspection stickers.
- 3. If a Fume Hood does pass, fill out an inspection sticker and affix it to the front of the hood. The metal sash frame, because of it's visibility, is an ideal location for the sticker.

Determining Whether to Pass a Hood. The following three conditions shall be met in order for a hood to pass:

- 1. The average face velocity with the sash opening of 18-inches shall be between 80-120 FPM.
- 2. The average face velocity with the sash opening of 6-inches shall not be greater than 300 FPM.
- 3. Smoke shall not escape into the room during the smoke test.



Inspection Sticker