

December 22, 1992

Rodney Bordelon Building 4601

cc: Terry Vavas seur Methanes Building 4601
 Doyle Haney Methanes Building 4601
 Bruce Miles Methanes Building 4601
 Lionel LondonMethanes Building 4601

On December 22, 1992, the fume hoods in the Methanes Plant, Building 4601 were checked for face velocity. The Alnor Model 8925 Thermo Anemometer was used to take the face velocity measurements. These hoods have a(n) "A" classification because of the work being performed in them and/or the chemicals stored in the hoods. These hoods were checked at a(n) 18" or 14" sash opening.

Fume hood #2 is restricted for use at a 14" sash opening.

I would like to commend Terry Vavas seur for doing a fantastic job of keeping the lab in good working condition. He has instituted many helpful techniques and recommendations that have improved the ventilation systems in the lab. Great job!

The Recommendation(S), Observation(S), and Testing Data Sheet(S) are attached to this evaluation report.

The Ventilation Inventory (Appendix A), The Criteria For Hood Classification (Appendix B page 3), The Weekly Check Of Flow Measuring Device (Appendix C), and The Annual Fume Hood System Maintenance Sheet (Appendix D) are found in the Industrial Hygiene Plant Manual in Section 10-Ventilation.

Please respond in writing to Industrial Hygiene within one month as to action taken or planned in regard to these recommendations.

Please feel free to contact me with any questions.

Thank you,

Darlene S. Creel
3502-W
Industrial Hygiene

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DO 008219

LOUISIANA DIVISION
INDUSTRIAL HYGIENE HOOD PERFORMANCE TESTING DATA

PLANT: Methanes Building 4601
 HOOD I.D.: Loading Rack Hood

DATE: November 25, 1991
 TESTED BY: Darlene Creel

Static Pressure Reading TSI INSTRUMENTATION.

.30

Hood Face Velocity Readings at a(n) 17" (because of mechanical stop in place) Sash Opening.

164/140

<u>180</u> 182	<u>190</u> 179	<u>170</u> 165	<u>160</u> 156
<u>150</u> 160	<u>160</u> 155	<u>155</u> 160	<u>180</u> 160
<u>170</u> 171	<u>150</u> 157	<u>170</u> 165	<u>140</u> 158

Smoke Tube Observations with a(n) 17" (because mechanical stop in place) Sash Opening:

****GOOD (Air capture by hood is strong and well defined with minimal internal turbulence, and no observable smoke swirling back to hood face when person stands at hood face.)

Designation	Sash Hood Opening	(FPM) FV	(FPM) FVm	Classification
Loading Rack Hood	17"	164	155	"A"

Used the Alnor Model 8925 Thermo Anemometer.

FV = Average Face Velocity
 FVm = Minimum Measurement
 FPM = Feet Per Minute

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LOUISIANA DIVISION
INDUSTRIAL HYGIENE HOOD PERFORMANCE TESTING DATA

PLANT: Methanes Building 4601
 HOOD I.D.: Lab Hood #3

DATE: December 22, 1992
 TESTED BY: Darlene Creel

Static Pressure Reading 0.45

.45

Hood Face Velocity Readings at a(n) 18" Sash Opening.

138	143	<u>130</u>	187	<u>144</u>	193	145	<u>180</u>
164	167	143	154	137	138		
132	157		110		117		

Smoke Tube Observations With a(n) 18" Sash Opening -

****MODERATE (Air capture by hood is positive but with some internal turbulence observed approaching the hood face. No smoke escaping the hood.)

Designation	Sash Hood Opening	(FPM) FV	(FPM) FVm	Classification
Lab Hood #3	<u>18"</u>	<u>130</u> 136	110 105	"A"

Used the Alnor Model 8925 Thermo Anemometer.

FV = Average Face Velocity
 FVm = Minimum Measurement
 FPM = Feet Per Minute

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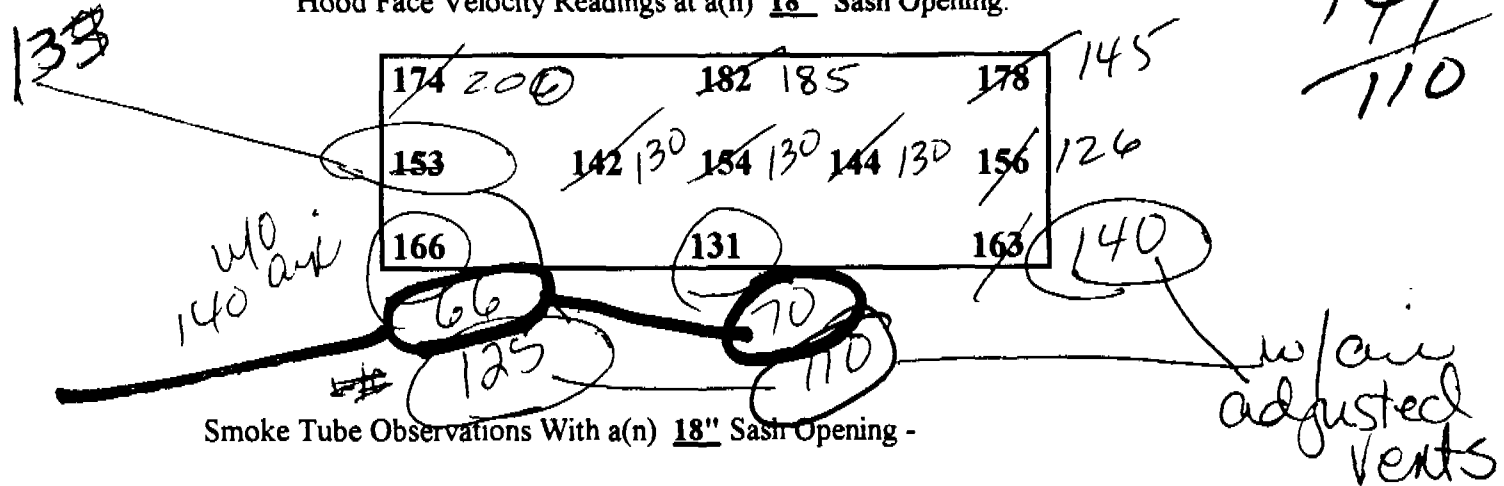
LOUISIANA DIVISION
INDUSTRIAL HYGIENE HOOD PERFORMANCE TESTING DATA

PLANT: Methanes Building 4601
HOOD I.D.: Lab Hood #1

8-21-96
DATE: ~~December 22, 1992~~
TESTED BY: ~~Darlene Creel~~
Charles Dwyer

Static Pressure Reading ~~0.55~~ .60

Hood Face Velocity Readings at a(n) 18" Sash Opening.



Smoke Tube Observations With a(n) 18" Sash Opening -

****MODERATE (Air capture by hood is positive but with some internal turbulence observed approaching the hood face. No smoke escaping the hood.)

Designation	Sash Hood Opening	(FPM)	(FPM)	Classification
		FV	FVm	
Lab Hood #1	18"	158	131	"A"

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Used the Alnor Model 8925 Thermo Anemometer.

FV = Average Face Velocity
FVm = Minimum Measurement
FPM = Feet Per Minute

Recom: the air C. vents
stay turned North

Observations:

The laboratory hood designation, the average face velocity (FV) and minimum measurements (FVm) reported in feet per minute (FPM), and its rated classification is as follows:

Designation	Sash Hood Opening	(FPM) (FPM)		Classification
		FV	FVm	
Lab Hood #1	18"	158	131	"A"
Static Pressure <u>0.55</u> .				
Smoke Observation <u>MODERATE</u> .				
Lab Hood #2	14"	146	113	"A"
Static Pressure <u>0.35</u> .				
Smoke Observation <u>GOOD</u> .				
Lab Hood #3	18"	150	110	"A"
Static Pressure <u>0.45</u> .				
Smoke Observation <u>MODERATE</u> .				
Load Rack Hood	18"	184	173	"A"
Static Pressure <u>0.35</u> .				
Smoke Observation <u>GOOD</u> .				

Recommendations:

1. Lab Hood #2 is restricted at a 14" sash opening.
2. The hood(s) should be placed on the C-9 checklist for a weekly check of the flow measuring device and an annual maintenance checklist performed on it.
3. Air flow monitor(s) are installed on the hood(s) to provide the means for checking velocity before hood use. Documentation of an air flow monitor device performance is to be done once per week. An example of the documentation needed so that these hoods may go on a two-year survey rotation is located in the Industrial Hygiene Plant Manual in Section #10, Appendix C. Inspection, zeroing and calibration of air flow device is to be done once per year. This documentation is to be part of the Industrial Hygiene records for your department. Please forward documentation to the Plant Industrial Hygiene Contact for your plant.

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DO 008223

Ext. 6181

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DO 008224

.80 Static pressure

172 135 110 174 200
(64) (100) (100)

160 98 200
(94) 159 (64) 160 (100)

156/98 14" Sash

Head #2
methanes

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DO 008225