

Air Quality Bureau Source Test Protocol Worksheet

General Information					
Facility Contact Information	Stack Testing Contractor				
Company Name:	Testing Company Name:				
Facility Name:	Mailing Address:				
MAQP # (if applicable):	City: State: Zip:				
Operating Permit (OP) # (if applicable):	Contact Name:				
Facility Address:	Contact Title:				
City: State: Zip:	Contact Email:				
Mailing Address:	Phone:(cell)(office)				
City: State: Zip:	Additional Contracted Services (Lab/Analytical,				
Facility Responsible Official Contact	External QA/QC, etc.)				
Name:	Company Name:				
Title:	Contractor's Purpose:				
Email:	Mailing Address:				
Phone:(cell)(office)	City: State: Zip:				
Facility Environmental Contact	Contact Name:				
Name:	Contact Title:				
Title:	Contact Email:				
Email:	Contact Phone:(cell)(office)				
Phone: (cell) (office)	☐ Other contractors' information in attached file.				
Facility Description					
Provide a brief description of the facility operations:					
Emitting Units to be Tested					
Emitting Units to be Tested					
Number of emitting units to be tested:					

Information for Emitting Unit ID: (complete pages 2 - 4 for each emitting unit to be tested)				
Emitting unit name and description:				
Describe pollution control equipment and ID (as appropriate)):			
Continuous operation? Batch operation? Batch batch: Batch duration: Batches per day:				
Additional emitting unit information (optional):				
Source Test Planning				
Proposed test date(s): Maximum rated capacity*: Average process rate*: Proposed test rate*: Based on: 90 -110% of maximum load	Control equipment shall be operated under normal conditions during test? ☐ Yes ☐ No If 'No', please explain:			
 □ Normal operating load □ >50% of maximum load for Relative Accuracy Test Audit (RATA) (as applicable) □ Other, please explain: 	Planned fuel types and gross heating value (as applicable) during testing*:			
The following are required for a complete protocol: ▶ Block flow diagram/description of process facility ▶ Diagram of stack showing sampling ports, platform and adjacent duct work. □ Additional source test planning information in attached file (optional)	Anticipated fuel feed rates during testing*:			

^{*}Include units of measure.

Source Test Program Details for Emitting Unit: (complete pages 2 - 4 for each emitting unit to be tested)						
Pollutant		Emission 1	Limit(s) Permit Reference Condition No	Test (s). Frequency	Compliance Determination Permit Reference Condition No(s).	Applicable State/Federal Rule or Consent Decree No(s).
Example: Particulate Matter (PM)		grains/dry std pic feet (dscf)	II.A.1	Every 4 years	II.B.1, II.B.2, II.B.4, II.B.6	MAQP #0166-04, NSPS Subpart I
Explain how thit required schedule		•		* *	ion(s) and requirement	above (e.g., meets
☐ Method 1 = S	Selectio	n of Sampling P	•	dard Test Methorse Points for Stat		
				d Volumetric Flo	•	
			•	ry Molecular We		
☐ Method 3A –	- Deterr	nination of Oxyg	gen and Carbon 1	Dioxide Concent	rations in Emissions fro	om Stationary Sources
☐ Method 4 – I	Determi	nation of Moistu	re Content in St	tack Gases		
		Addition	al Test Method	s to be Performe	ed (as appropriate)	
Parameter Pollutant Meas		Test Method	No. of Runs Required	No. of Runs Anticipated	Anticipated Sample Time and Volume for Each Run*	
Example: P		Method 5	3	3	60 minut	tes, 31.8 dscf
List all test methods above required to participate in the stationary source audit program:						
Discuss any federal test method deviations and analytical deviations (as applicable):						
☐ Additional te	st meth	od information a	attached (optiona	al).		

^{*}Include units of measure.

Stack Details	for Emitting U		
Circular Stack Details (as app (see Figures 1, 2, & 3)			
Stack Diameter (D):	inches		
Port Distance from:			
Upstream Disturbance (A):	inches		
Downstream Disturbance (B):	inches		
Measured on site: ☐ Yes ☐ No			
Area of Stack:	square inches		
Upstream Diameters (A/D):			
Downstream Diameters (B/D):			
No. of Particulate Traverse Points Requ	nired:		
No. of Non-particulate Traverse Points Required:			
No. of Sampling Ports:			
Rectangular Stack Details (as a (see Figures 1, 2, & 4, Tab			
Length of Stack (L):			
Width of Stack (W):	inches		
Port Distance from:			
Upstream Disturbance (A):	inches		
Downstream Disturbance (B):	inches		
Measured on site: Yes No			
Equivalent Diameter (D):	inches		
Area of Stack:	square inches		
Upstream Diameters (A/D):			
Downstream Diameters (B/D):			
No. of Particulate Traverse Points Requ	nired:		
No. of Non-particulate Traverse Points	Required:		
No. of Sampling Ports: Matri	ix:		

, (complete pages 2 - 4 for each emitting unit to be tested)

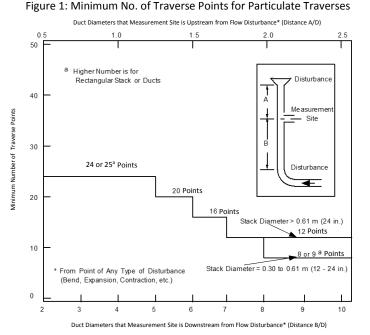


Figure 2: Minimum No. of Traverse Points for Velocity (Non-Particulate)

Traverses

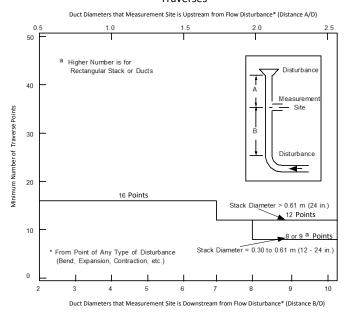


Figure 3: Circular Stack Cross-section

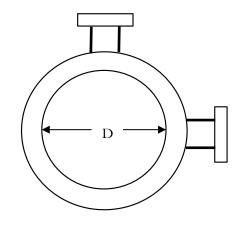


Figure 4: Rectangular Stack Cross-section

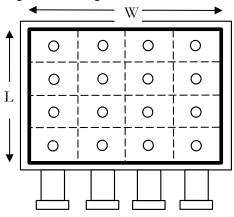


Table 1: Cross-section Layout for Rectangular Stacks

Matrix
3x3
4x3
4x4
5x4
5x5
6x5
6x6
7x6
7x7

Additional Information		
Describe any safety equipment DEQ needs to bring to observe testing (as applicable):		
= 1 1 1 1/2 m 4/4 C-11		
Describe safety concerns or hazardous conditions at the facili	ity and/or sampling location (as applicable):	
Additional information applicable to the proposed emission to	testing or other comments (as applicable):	
The state of the s	coming of other commercial (in app. 1	
Please identify all additional files or attachments that comple		
File Name Example: Attachment A – Test Information for EU ID 42.pdf	File Content Set of pages 2-4 for emission unit 42	
Example. Attachment 1 Test injoinment,	Block flow diagram/description of process facility (required)	
	Diagram of stack w/ sampling ports, platform, & adjacent duct work (required)	
*Any information required to be submitted, that has been declared confidential under the appropriate procedures, may be referenced or submitted separately.		
Contractor/Consultant Endorsements		
I certify that emissions testing will be conducted as described in this protocol. Every effort will be made to obtain reliable, repeatable, and representative data using approved test methods.		
Company Name:		
Company Representative:		
Title:		
	Date:	
(sign or insert your e-signature)	<u> </u>	

Facility Responsible Official Endorsements I have reviewed the information being submitted in its entirety and, based on information and belief formed after reasonable inquiry, I certify that the statements contained in this submittal are true, accurate, and complete. This form is submitted as a DEQ-approved appropriate alternate equivalent to the Protocol requirements found in the Montana Source Test Protocol and Procedures Manual per Administrative Rules of Montana 17.8.106(2). Responsible Official Name: Title: Signature: Date: _____ (sign or insert your e-signature)

How to Submit this Protocol

- ► Electronically submit to your facility's Air Quality Bureau contact or DEQ-ARMB-Admin@mt.gov, or
- Mail to: Department of Environmental Quality

Air Quality Bureau, 1520 E. 6th Ave. P.O. Box 200901. Helena, MT 59620-0901

Questions: (406) 444-3490

Schedule Reminder

- ► Submit a protocol at least 25 working days prior to the proposed test date.
- Confirm the test date at least 3 days prior to beginning test.
- Submit source test report within 60 days of test date, unless another schedule is required by rule.