



## MONITORING PLAN

for Continuous Opacity Monitors (COMS) and Continuous Emission Monitors (CEMS)

**Authority:** PA 451 of 1994, as amended of the Natural Resources and Environmental Protection Act

**NOTE:** *This monitoring plan is provided as a courtesy for businesses by the Michigan Department of Environmental Quality (MDEQ), Air Quality Division, Compliance and Support Unit. A monitoring plan must be submitted to the department at least 30 days prior to source installation at a facility. Monitoring plans submitted to the MDEQ should contain, but are not limited to, the following requirements. **Businesses are not required to use this monitoring plan format.***

**Please print or type all information.**

1. COMPLETE THIS SECTION FOR EACH SOURCE REQUIRING CERTIFICATION.					
OWNER/OPERATOR NAME AND TITLE			PLANT NAME		
STREET ADDRESS			PLANT TELEPHONE AREA CODE & NUMBER		
CITY	STATE	ZIP CODE	PLANT CONTACT NAME AND TITLE		
PLANT STREET ADDRESS (if different than Owner/Operator's)			CITY	STATE	ZIP CODE
MDEQ-AQD PERMIT NUMBER					

2. GENERAL DESCRIPTION OF THE PROCESS(ES) AND POLLUTION CONTROL EQUIPMENT

3. VERIFICATION OF MONITOR LOCATION AND ACCESSIBILITY		
<b>A. INCLUDE A DIAGRAM SHOWING THE SAMPLE ACQUISITION POINTS OR PATHS IN RELATION TO:</b>	<b>CHECKLIST</b>	(✓)
1. FLOW DISTURBANCES (FANS, ELBOWS, INLETS, OUTLETS, ETC.)	INCLUDED?	
2. POLLUTION CONTROL EQUIPMENT	INCLUDED?	
3. EMISSION POINT OF MONITORED GASES TO THE ATMOSPHERE	INCLUDED?	
4. FLUE WALLS AT THE SAMPLE ACQUISITION LOCATION	INCLUDED?	
<b>B. TEST DATA (IF NECESSARY)</b>	ATTACHED?	
<b>C. EXPLANATION FOR CHOICE OF LOCATION (ATTACH ADDITIONAL PAGES AS NEEDED):</b>	<b>DEVIATION FROM LOCATION CRITERIA</b>	

# 40 CFR 60, APPENDIX B, PS(1), SECTION 4 & PS (2), SECTION 3

4. TYPE OF POLLUTANT(S) AND/OR PARAMETER(S) TO BE MONITORED			
EXAMPLE: SO <sub>2</sub>			

## MONITORING PLAN (Continued)

**5. WHAT ARE THE OPERATING PRINCIPLES OF THE ANALYZERS (i.e., measures wet/dry, chemiluminescence, infra-red, etc.)**

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**6. LIST THE TYPE, MANUFACTURER, MODEL, AND SERIAL NUMBER(S) OF THE MONITORING EQUIPMENT**

MONITORING EQUIPMENT TYPE (SO <sub>2</sub> , NO <sub>x</sub> , ETC.)	EQUIPMENT MANUFACTURER	MODEL NUMBER(S)

**7. TYPE OF MONITORING PROBE (EXTRACTIVE, DILUTION, ETC.)**

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8. MONITORED POLLUTANT	EQUIPMENT SPECIFICATIONS OF MONITORS	APPLICABLE PERFORMANCE SPECIFICATION (PS) 40 CFR 60, APPENDIX B

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9. MONITORING EQUIPMENT	FORMULAS (INCLUDING ANY FACTORS USED TO CALCULATE EMISSIONS IN THE UNITS OF THE APPLICABLE STANDARD)	SPAN VALUES OF ALL POLLUTANT MONITORS	INSTRUMENT RANGES

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10. MONITORING EQUIPMENT	PROPOSED DAILY CALIBRATION GAS VALUE	PROPOSED DAILY CALIBRATION ERROR VALUE	PROPOSED CYLINDER GAS AUDIT VALUES

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11. MONITORING EQUIPMENT	DATA ACQUISITION SYSTEM/DATA RECORDER RESOLUTION

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**MONITORING PLAN** (continued)  
Gaseous, Opacity, and Process Parameter Monitors

12. Print or type the name and title of the Responsible Official for the plant:

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(Name)

(Title)

A Responsible Official can be:

- The president, vice-president, secretary, or treasurer of the company who owns the plant;
- The owner of the plant;
- The plant engineer or supervisor;
- A government official if the plant is owned by the Federal, State, City, or County government; or
- A ranking military officer if the plant is located on a military base.

I Certify The Information Contained In This Report To Be Accurate, Complete, And True To The Best Of My Knowledge.

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(Signature of Responsible Official)

(Date)

Please submit this Monitoring Plan at least thirty days prior to installation of all gaseous, opacity, and process parameter monitors to both the AQD's Compliance Support Unit (listed below) and the appropriate AQD District Office (see attachment):

CEM COORDINATOR  
COMPLIANCE SUPPORT UNIT  
AIR QUALITY DIVISION  
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
PO BOX 30260  
LANSING, MICHIGAN 48909-7760