

CHAPTER 030 - SOURCE PERMITTING AND OPERATION

PART 030.040 - GENERAL TESTING, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

TABLE OF CONTENTS

SECTION A - TESTING.....	2
1. EXCESS EMISSIONS: SCHEDULED MAINTENANCE, TESTING OR REPAIRS; NOTIFICATION OF DIRECTOR; MALFUNCTION, UPSET, START-UP, SHUTDOWN OR HUMAN ERROR	2
2. TESTING AND SAMPLING	3
SECTION B - MONITORING, RECORDKEEPING AND REPORTING.....	5
1. MONITORING SYSTEMS: CALIBRATION, OPERATION AND MAINTENANCE OF EQUIPMENT	5
2. MONITORING SYSTEMS: LOCATION	5
3. MONITORING SYSTEMS: VERIFICATION OF OPERATIONAL STATUS	5
4. MONITORING SYSTEMS: PERFORMANCE EVALUATIONS.....	5
5. MONITORING SYSTEMS: ADJUSTMENTS.....	6
6. MONITORING SYSTEMS: MEASUREMENT OF OPACITY	6
7. MONITORING SYSTEMS: FREQUENCY OF OPERATION	7
8. MONITORING SYSTEMS: RECORDATION OF DATA	7
9. MONITORING SYSTEMS: RECORDS; REPORTS	7
10. ALTERNATIVE MONITORING PROCEDURES OR REQUIREMENTS.....	8
11. RECORD KEEPING	9
12. NOTIFICATION TO CONTROL OFFICER: CONSTRUCTION, RECONSTRUCTION AND INITIAL START-UP; DEMONSTRATION OF CONTINUOUS MONITORING SYSTEM PERFORMANCE ...	9
13. YEARLY REPORTS, ANNUAL EMISSIONS.....	9

PART 030.040 - GENERAL TESTING, MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (Adopted 9/26/24, Effective 1/1/25)

SECTION A - TESTING

1. EXCESS EMISSIONS: SCHEDULED MAINTENANCE, TESTING OR REPAIRS; NOTIFICATION OF DIRECTOR; MALFUNCTION, UPSET, START-UP, SHUTDOWN OR HUMAN ERROR.
 - a. Scheduled maintenance, testing, or repairs which may result in excess emissions of regulated air pollutants prohibited by this regulation and/or permit terms and conditions must be approved in advance in writing by the Control Officer and performed during a time designated by the Control Officer as being favorable for atmospheric ventilation.
 - b. Each owner or operator shall notify the Control Officer of the proposed time and expected duration at least thirty (30) calendar days before any scheduled maintenance or testing which may result in excess emissions of regulated air pollutants prohibited in this regulation. The scheduled maintenance or testing must not be conducted unless the scheduled maintenance or testing is approved in writing by the Control Officer.
 - c. Each owner or operator shall notify the Control Officer of the proposed time and expected duration at least twenty-four (24) hours before any scheduled repairs which may result in excess emissions of regulated air pollutants prohibited by this regulation and/or permit terms and conditions. The scheduled repairs must not be conducted unless the scheduled repairs are approved in writing by the Control Officer.
 - d. The owner or operator of the stationary source shall promptly report to the Control Officer any deviations from the requirements of a permit or these regulations. The report to the Control Officer shall include the probable cause of all deviations and any action taken to correct the deviations. Prompt is defined as submittal of a report within fifteen (15) calendar days of the deviation. This definition does not alter any reporting requirements as established for reporting of excess emissions.
 - e. Each owner or operator shall notify the Control Officer of any excess emissions within twenty-four (24) hours after any malfunction or upset of the process equipment, or equipment for controlling pollution, or during start-up or shutdown of that equipment.
 - f. Each owner or operator shall provide the Control Officer, within fifteen (15) calendar days after any malfunction, upset, start-up, shutdown or human error which results in excess emissions, sufficient information to quantify the excess emissions. The information must include at least the following:
 - (1) The identity of the stack or other point of emission, or both, where the excess emissions occurred.
 - (2) The estimated magnitude of the excess emissions expressed in opacity, or in the units of the applicable limitation on emissions, and the operating data and methods used in estimating the magnitude of the excess emissions.
 - (3) The time and duration of the excess emissions.
 - (4) The identity of the equipment causing the excess emissions.
 - (5) If the excess emissions were the result of a malfunction, the steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of the malfunction.
 - (6) The steps taken to limit the excess emissions.
 - (7) Documentation that the equipment for controlling air pollution, process equipment or processes were at all times maintained and operated, to a maximum extent practicable, in a manner

consistent with good practice for minimizing emissions.

- g. Each owner or operator shall ensure that any notification or related information submitted to the Control Officer pursuant to this section is provided in a format specified by the Control Officer.
- h. Nothing in this section limits the authority of the Control Officer to institute actions under SECTIONS 113 and 303 of the Act or to exercise his or her authority under CHAPTER 030.

2. TESTING AND SAMPLING.

- a. If specified in the permit to construct, a new or modified source shall conduct or have testing and sampling conducted to demonstrate compliance with any permit limit (e.g., visible emissions, emission rates, control efficiencies, VOC content). Testing and/or sampling must be conducted and the results submitted to the Control Officer within sixty (60) calendar days after achieving the maximum rate of production at which the affected facility will be operated, but not later than one hundred eighty (180) calendar days after initial start-up of the facility and at such other times as may be required by the Control Officer.
- b. Tests of performance must be conducted and data reduced in accordance with the methods and procedures of the test contained in each applicable subsection of this section unless the Control Officer:
 - (1) Specifies or approves, in specific cases, the use of a reference method with minor changes in methodology;
 - (2) Approves the use of an equivalent method;
 - (3) Approves the use of an alternative method, the results of which the Control Officer has determined to be adequate for indicating whether a specific stationary source is in compliance; or
 - (4) Waives the requirement for tests of performance because the owner or operator of a stationary source has demonstrated by other means to the Control Officer's satisfaction that the affected facility is in compliance with the standard.
- c. Tests of performance must be conducted under such conditions as the Control Officer specifies to the operator of the plant based on representative performance of the affected facility. The owner or operator shall make available to the Control Officer such records as necessary to determine the conditions of the test of performance. Operations during periods of start-up, shutdown and malfunction do not constitute representative conditions of a test of performance unless otherwise specified in the applicable standard.
- d. The owner or operator of an affected facility shall give notice to the Control Officer thirty (30) calendar days before the test of performance to allow the Control Officer to have an observer present. A written testing procedure for the test of performance must be submitted to the Control Officer at least thirty (30) calendar days before the test of performance to allow the Control Officer to review and approve the proposed testing procedures.
- e. Each test of performance must consist of at least three separate runs using the applicable method for that test. Each run must be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the runs apply. In the event of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions or other circumstances with less than three valid samples being obtained, compliance may be determined

- using the arithmetic mean of the results of the other two runs upon the Control Officer's approval.
- f. All testing and sampling shall be performed in accordance with approved methods and as specified by the Control Officer.
 - g. The cost of all testing and sampling and the cost of all sampling holes, scaffolding, electric power and other pertinent allied facilities as may be required and specified in writing by the Control Officer must be provided and paid for by the owner of the stationary source.
 - h. All information and analytical results of testing and sampling must be certified as to their truth and accuracy and as to their compliance with all provisions of these regulations, and copies of these results must be provided to the Control Officer no later than sixty (60) calendar days after the testing or sampling, or both.
 - i. Notwithstanding the provisions of paragraph 030.040.A.2.b, the Control Officer shall not approve an alternative method or equivalent method to determine compliance with a standard or emission limitation contained in 40 CFR PART 60, 61 or 63 or for an affected source.

SECTION B - MONITORING, RECORDKEEPING AND REPORTING

1. MONITORING SYSTEMS: CALIBRATION, OPERATION AND MAINTENANCE OF EQUIPMENT. The owners or operators of all stationary sources identified in Appendix P of 40 CFR PART 51(1.1) as amended from time to time, are required to install, calibrate, operate and maintain all monitoring equipment necessary for continuously monitoring the pollutants specified in Appendix P for the applicable source category. Those stationary sources must meet the basic requirements of Appendix P of 40 CFR PART 51(2.0 et seq.).
2. MONITORING SYSTEMS: LOCATION.
 - a. All continuous monitoring systems or monitoring devices must be installed so that representative measurements of emissions or process parameters from the affected facility are obtained. Additional procedures for the location of continuous monitoring systems are contained in the applicable Performance Specifications of Appendix B of 40 CFR PART 60.
 - b. When the effluents from a single affected facility or two or more affected facilities subject to the same emission standards are combined before being released to the atmosphere, the owner or operator may install applicable continuous monitoring systems for each effluent or for the combined effluent. When the affected facilities are not subject to the same emission standards, separate continuous monitoring systems must be installed for each effluent. When the effluent from one (1) affected facility is released to the atmosphere through more than one (1) point, the owner or operator shall install applicable continuous monitoring systems on each separate effluent unless the installation of fewer systems is approved by the Control Officer.
3. MONITORING SYSTEMS: VERIFICATION OF OPERATIONAL STATUS.
 - a. Unless otherwise approved by the Control Officer or specified in these regulations, the requirements of SECTION 030.040.B apply to all continuous monitoring systems required under applicable provisions of CHAPTER 030.
 - b. All continuous monitoring systems and monitoring devices must be installed and operational before conducting performance tests. Verification of operational status must, as a minimum, consist of the following:
 - (1) For continuous monitoring systems referred to in paragraph 030.040.B.4.b, completion of the conditioning period specified by applicable requirements in Appendix B of 40 CFR PART 60.
 - (2) For monitoring devices referred to in SECTION 030.040.B, completion of the manufacturer's written requirements or recommendations for checking the operation or calibration of the device.
4. MONITORING SYSTEMS: PERFORMANCE EVALUATIONS.
 - a. During any performance tests required under paragraph 030.040.A.2 or within thirty (30) calendar days thereafter and at such other times as may be required by the Control Officer under PART 114 of the Act, the owner or operator of any affected facility shall conduct continuous evaluations of the performance of monitoring systems and furnish the Control Officer within sixty (60) calendar days thereof two, or upon request more, copies of a written report of the results of such tests. These evaluations must be conducted in accordance with the specifications and procedures provided in SECTION 030.040.B.
 - b. Continuous monitoring systems listed within SECTION 030.040.B must be evaluated in

accordance with the requirements and procedures contained in the applicable performance specification of Appendix B of 40 CFR PART 60. Continuous monitoring systems for measuring:

- (1) Opacity of emissions must comply with Performance Specification 1.
- (2) Nitrogen oxides emissions must comply with Performance Specification 2.
- (3) Sulfur dioxide emissions must comply with Performance Specification 2.
- (4) The oxygen and carbon dioxide content of effluent gases must comply with Performance Specification 3.

5. MONITORING SYSTEMS: ADJUSTMENTS.

- a. Owners or operators of all continuous monitoring systems installed in accordance with the provisions of SECTION 030.040.B shall check the zero and span drift at least once daily in accordance with the method prescribed by the manufacturer of the systems unless the manufacturer recommends adjustments at shorter intervals, in which case the recommendations must be followed. The zero and span must, as a minimum, be adjusted whenever the twenty four (24) hour zero drift or twenty four (24) hour calibration drift limits of the applicable performance specifications in Appendix B of 40 CFR PART 60 are exceeded.

6. MONITORING SYSTEMS: MEASUREMENT OF OPACITY.

- a. For continuous monitoring systems measuring opacity of emissions, the optical surfaces exposed to the effluent gases must be cleaned before performing the zero or span drift adjustments, except that for systems using automatic zero adjustments, the optical surfaces must be cleaned when the cumulative automatic zero compensation exceeds four (4) percent opacity. Unless otherwise approved by the Control Officer, the following procedures, as applicable, must be followed:
 - (1) For extractive continuous monitoring systems measuring gases, minimum procedures must include introducing applicable zero and span gas mixtures into the measurement system as near the probe as is practical. Span and zero gases certified by their manufacturer to be traceable to National Institute of Standards and Technology reference gases must be used whenever these reference gases are available. The span and zero gas mixtures must be the same composition as specified in Appendix B of 40 CFR PART 60. Every six (6) months after the date of manufacture, span and zero gases must be reanalyzed by conducting triplicate analyses with Reference Methods 6 for SO₂, 7 for NO, and 3 for O₂ and CO₂, respectively. The gases may be analyzed at less frequent intervals if longer shelf lives are guaranteed by the manufacturer.
 - (2) For non-extractive continuous monitoring systems measuring gases, minimum procedures include upscale checks using a certified calibration gas cell or test cell which is functionally equivalent to a known gas concentration. The zero check may be performed by computing the zero value from upscale measurements or by mechanically producing a zero condition.
 - (3) For continuous monitoring systems measuring opacity of emissions, minimum procedures include a method for producing a simulated zero opacity condition and an upscale (span) opacity condition using a certified neutral density filter or other related technique to produce a known obscuration of the light beam. These procedures must provide a system check of the analyzer internal optical surfaces and all electronic circuitry, including the lamp and photodetector assembly.

- b. Notwithstanding the provisions of paragraph 030.040.B.6 above, the Control Officer shall not approve an alternative method or equivalent method to determine compliance with a standard or emission limitation contained in 40 CFR PART 60, 61 or 63 or for an affected source.

7. MONITORING SYSTEMS: FREQUENCY OF OPERATION.

- a. Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required by paragraph 030.040.B.5, all continuous monitoring systems must be in continuous operation and meet minimum frequency of operation requirements as follows:
 - (1) All continuous monitoring systems referred to in this section for measuring opacity of emissions must complete a minimum of one (1) cycle of operation (sampling, analyzing and data recording) for each successive 10-second period.
 - (2) All continuous monitoring systems referred to in paragraph 030.040.B.4 for measuring oxides of nitrogen, sulfur dioxide, carbon dioxide or oxygen must complete a minimum of one (1) cycle of operation (sampling, analyzing and data recording) for each successive 15-minute period.

8. MONITORING SYSTEMS: RECORDATION OF DATA.

- a. Owners or operators of all continuous monitoring systems for the measurement of opacity shall reduce all data to 6-minute averages and for systems other than opacity to 1-hour averages.
- b. For systems other than opacity, 1-hour averages must be computed from four (4) or more data points equally spaced over each 1-hour period.
- c. Data recorded during periods of system breakdowns, repairs, calibration checks, and zero and span adjustments must not be included in the data averages computed under this section. An arithmetic or integrated average of all calibrated data must be used. The data output of all continuous monitoring systems may be recorded in reduced or nonreduced form, e.g., ppm pollutant and percent O₂ or lb/million Btu of pollutant.
- d. All excess emissions must be converted into units of the standard using the applicable conversion procedures specified in these regulations. After conversion into units of the standard, the data may be rounded to the same number of significant digits used in those sections to specify the applicable standard, e.g., rounded to the nearest one (1) percent opacity.
- e. As used in this section, "calibrated data" means data which is precise and accurate within a stated acceptance criteria for the instrument.

9. MONITORING SYSTEMS: RECORDS; REPORTS.

- a. Any owner or operator subject to the provisions of SECTION 030.040.B shall maintain records of the occurrence and duration of any start-up, shutdown or malfunction in the operation of an affected facility and any malfunction of the air pollution control equipment or any periods during which a continuous monitoring system or monitoring device is inoperative.
- b. Each owner or operator required to install a continuous monitoring system shall submit a written report of excess emissions to the Control Officer for every calendar quarter. All quarterly reports must be postmarked by the thirtieth (30th) day following the end of each calendar quarter and must include the following information:

- (1) The magnitude of excess emissions computed in accordance with this section, any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions.
 - (2) Specific identification of each period of excess emissions that occurs during start-ups, shutdowns and malfunctions of the affected facility.
 - (3) The nature and cause of any malfunction, if known, the corrective action taken or preventative measures adopted.
 - (4) Specific identification of each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of any repairs or adjustments that were made. When no excess emissions have occurred and the continuous monitoring system has not been inoperative, repaired or adjusted, such information must be included in the report.
- c. Any owner or operator subject to the provisions of SECTION 030.040.B, shall maintain a file of all measurements, including:
- (1) Continuous monitoring systems, monitoring devices and performance testing measurements;
 - (2) All continuous monitoring system performance evaluations;
 - (3) All continuous monitoring systems or monitoring device calibration checks;
 - (4) Adjustments and maintenance performed on these systems or devices; and
 - (5) All other information required by this section, recorded in a permanent form suitable for inspection. The file must be retained for at least two (2) years following the date of the measurements, maintenance, reports, and records.

10. ALTERNATIVE MONITORING PROCEDURES OR REQUIREMENTS.

- a. Upon written application by an owner or operator, the Control Officer may approve alternatives to any monitoring procedures or requirements of this section, including, but not limited to, the following:
- (1) Alternative monitoring requirements when installation of a continuous monitoring system or monitoring device specified by those sections would not provide accurate measurements due to liquid water or other interferences caused by substances with the effluent gases.
 - (2) Alternative monitoring requirements when the affected facility is infrequently operated.
 - (3) Alternative monitoring requirements to accommodate continuous monitoring systems that require additional measurements to correct for stack moisture conditions.
 - (4) Alternative locations for installing continuous monitoring systems or monitoring devices when the owner or operator can demonstrate that installation at alternate locations will enable accurate and representative measurements.
 - (5) Alternative methods of converting regulated air pollutant concentration measurements to units of the standards.
 - (6) Alternative procedures for performing daily checks of zero and span drift that do not involve use of span gases or test cells.
 - (7) Alternatives to the test methods of the American Society for Testing and Materials or sampling procedures specified by any provision of this section.
 - (8) Alternative continuous monitoring systems that do not meet the design or performance requirements in Performance Specification 1, Appendix B of 40 CFR PART 60, but adequately demonstrate a definite and consistent relationship between their measurements and the

measurements of opacity by a system complying with the requirements in Performance Specification 1. The Control Officer may require that such demonstration be performed for each affected facility.

- (9) Alternative monitoring requirements when the effluent from a single affected facility or the combined effluent from two or more affected facilities are released to the atmosphere through more than one (1) point.

- b. Notwithstanding the provisions of paragraph 030.040.B.10.a, the Control Officer shall not approve an alternative method or equivalent method to determine compliance with a standard or emission limitation contained in 40 CFR PART 60, 61 or 63 and for an affected source.

11. RECORD KEEPING. Each holder of a Permit To Construct or Permit To Operate shall keep adequate records concerning pollutant emissions for any equipment or process for which the permit was issued. All permittees operating add-on emissions control equipment shall maintain records sufficient to legally demonstrate that the equipment has operated in compliance with all applicable Federal, State and Health District regulations. The permittee shall also record any times or occasions when the emissions control equipment is not in operation due to equipment failure, maintenance or any other reason.

12. NOTIFICATION TO CONTROL OFFICER: CONSTRUCTION, RECONSTRUCTION AND INITIAL START-UP; DEMONSTRATION OF CONTINUOUS MONITORING SYSTEM PERFORMANCE.

- a. Any owner or operator subject to the provisions of these regulations, shall furnish the Control Officer written notification of:
 - (1) The date that construction or reconstruction of an affected facility is commenced, postmarked no later than thirty (30) calendar days after such date.
 - (2) The anticipated date of initial start-up of an affected facility, postmarked not more than sixty (60) calendar days and not less than thirty (30) calendar days before such date.
 - (3) The actual date of initial start-up of an affected facility, postmarked within fifteen (15) calendar days after such date.
 - (4) If applicable, the date upon which a demonstration of the continuous monitoring system performance commences in accordance with SECTION 030.040.B. Notification must be postmarked not less than thirty (30) calendar days before such date.

13. YEARLY REPORTS, ANNUAL EMISSIONS.

- a. Any owner or operator subject to the provisions of CHAPTER 030 may be required to submit reports including, but not limited to, throughput, production, fuel consumption, hours of operation, emissions, emission factors and calculations used to determine the reported emissions from each permitted emissions unit for the previous calendar year. These reports will be submitted to the Control Officer for all emissions units/systems specified on the Permit to Construct and/or Permit to Operate. The completed report must be submitted to the Control Officer no later than March 31 annually for the preceding calendar year.