

A. Operational Restrictions

1. The fuel burned in this emissions unit shall be limited to natural gas.
2. In accordance with 40 CFR part 60.333(b), the fuel burned in this emissions unit shall not contain sulfur in excess of 0.8% by weight.
3. The facility shall use a dry low-NO_x combustor in this emissions unit.

B. Monitoring/Record Keeping Requirements

1. In accordance with 40 CFR part 60.334(b)(2), the permittee shall monitor the sulfur content and nitrogen content of the fuel being fired in this emissions unit. The sulfur and nitrogen contents shall be determined and recorded daily unless a custom schedule has been approved by the Administrator.

C. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports to the appropriate OEPA District Office or local air agency which includes an identification of any period during which the fuel-bound nitrogen of the fuel is greater than the fuel-bound nitrogen of the fuel used during the performance test.
2. The permittee shall submit quarterly deviation (excursion) reports to the appropriate OEPA District Office or local air agency which includes an identification of any period during which the sulfur content of the fuel being fired in this emissions unit exceeds 0.8 percent by weight.
3. The quarterly deviation (excursion) reports shall be submitted in the following manner:
 - a. reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - b. except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (b) the probable cause of such deviations, and © any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall

submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

D. Testing Requirements

1. The permittee shall conduct emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate(s) for NO_x and CO.
 - b. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s) for NO_x, Method 20 of 40 CFR Part 60, Appendix A; and for CO, Method 10 of 40 CFR Part 60, Appendix A. Alternative USEPA approved test methods may be used with prior approval from the Ohio EPA.
 - c. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency.
 - d. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).
 - e. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
 - f. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time

for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

2. Method 20 shall be used to determine the nitrogen oxides, sulfur dioxide, and oxygen concentrations. The span values shall be 300 ppm of nitrogen oxide and 21 percent oxygen. The NOx emissions shall be determined at 30, 50, 75, and 100 percent of peak load or at four points in the normal operating range of the emissions unit, including the minimum point in the range and peak load.
3. The permittee shall determine the sulfur content of the fuel by using ASTM D 1072-80, D 3031-81, D 4084-82 or D 3246-81.

E. Compliance Method Determinations

1. Compliance with the emissions limitation(s) specified above shall be determined in accordance with the following method(s):

- 1.a Emission Limitation-
25 ppmvd NOx at 15% oxygen, 7.14 lbs/hr NOx

Applicable Compliance Method-
Compliance shall be based upon emissions testing specified in the Testing Requirements section of these Additional Special Terms and Conditions, utilizing USEPA Reference Method 20, of 40 CFR Part 60, Appendix A.

- 1.b Emission Limitation-
31.27 TPY NOx

Applicable Compliance Method-
The 31.27 TPY limitation was developed by multiplying the 7.14 lbs/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- 1.c Emission Limitation-
8.69 lbs/hr CO

Applicable Compliance Method-
Compliance shall be based upon emissions testing specified in the Testing Requirements section of these Additional Special Terms and Conditions, utilizing USEPA Reference Method 10, of 40 CFR Part 60, Appendix A.

- 1.d Emission Limitation-
38.06 TPY CO

Applicable Compliance Method-

The 38.06 TPY limitation was developed by multiplying the 8.69 lbs/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- 1.e Emission Limitation-
3.77 lbs/hr OC

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum heat input capacity of the emissions unit (71.19 mmBtu/hr) by the AP-42 emission factor from Table 3.2-1 (0.17 lb/mmBtu).

- 1.f Emission Limitation-
16.53 TPY OC

Applicable Compliance Method-

The 16.53 TPY limitation was developed by multiplying the 3.77 lbs/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- 1.g Emission Limitation-
0.05 lb/hr SO₂

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum fuel burning capacity of the emissions unit (0.079631 mmcuft/hr) by the SO_x emission factor (0.6 lb/mmcuft) from "Compilation of Air Pollutant Emission Factors," AP-42, Fifth Edition, 1995, Section 3.2.

- 1.h Emission Limitation-
0.21 TPY SO₂

Applicable Compliance Method-

The 0.21 TPY limitation was developed by multiplying the 0.05 lb/hr limitation by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- 1.i Emission Limitation-
0.020 lb particulate/mmBtu

Applicable Compliance Method-

Compliance shall be based on the particulate emissions factor (0.0193) from "Compilation of Air Pollutant Emission Factors," AP-42, Fifth Edition, Table 3.1-1.

1.j Emission Limitation-
6.24 TPY PM/PM10

Applicable Compliance Method-

The 6.24 TPY limitation was developed by multiplying the 0.020 lb/mmBtu limitation by the maximum hourly heat input capacity of 71.19 mmBtu/hr. Then the result, 1.42 lbs/hr, was multiplied by the maximum operating schedule of 8760 hrs/yr, and divided by 2000 lbs/ton. Therefore, since compliance with the lb/mmBtu is demonstrated through the application of the AP-42 emission factor, compliance will also be shown with the annual limitation.

1.k Emission Limitation -
10% opacity visible emission limitation, as a six-minute average

Applicable Compliance Method -

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in USEPA Reference Method 9.