

**GENERAL PERMIT 9.51 TEMPLATE  
PRE-2007 MODEL YEAR AND  
COMMENCED CONSTRUCTION BEFORE 6/12/06**

**COMPRESSION IGNITION INTERNAL COMBUSTION ENGINE  
LESS THAN 10 LITERS PER CYLINDER AND > 300 HP AND ≤ 500 HP  
STANDARDS: 40 CFR 63, SUBPART ZZZZ SECTION 63.6603, TABLE 2d**

**C. Emissions Unit Terms and Conditions**

Note: The following are the terms and conditions for ad General PTIO to be issued to a non-Title V facility

**1. [Emissions Unit ID], [Company Equipment ID]**

**Operations, Property and/or Equipment Description:**

Pre-2007 model year, stationary compression ignition (CI) internal combustion engine (ICE); less than 10 liters per cylinder and greater than 300 HP and less than or equal to 500 HP; complying with 40 CFR 63, Subpart ZZZZ Table 2d, #2.; and installed before 6/12/06.

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
  - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
    - a. None.
  - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
    - a. b)(1)e., c)(1), d)(3), and e)(2)
- b) Applicable Emissions Limitations and/or Control Requirements
  - (1) The specific operations(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	0.95 lb CO/MMBtu 0.36 lb VOC/MMBtu 4.41 lbs NOx/MMBtu See term b)(2)a.
b.	OAC rule 3745-17-11(B)(5)(a)	Particulate emissions (PE) shall not exceed 0.310 lb/MMBtu of actual heat input
c.	40 CFR 63.6604 40 CFR 80.510(b) OAC rule 3745-31-05(A)(3), as effective 11/30/01	The sulfur content of the diesel fuel burned in this emissions unit shall not exceed 15 ppm per gallon of oil or 0.0015% sulfur by weight. See terms b)(2)a, b)(2)c, d)(1), and NESHAP Tables.

d.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average, except as specified by rule.
e.	OAC rule 3745-31-05(D) OAC rule 3745-31-05(A)(3), as effective 11/30/01	<p>Particulate emissions (PE) shall not exceed 6.96 tons per rolling 12-month period from all diesel-fired engines combined located at this facility.</p> <p>Nitrogen oxide (NO<sub>x</sub>) emissions shall not exceed 99.0 tons per rolling 12-month period from all diesel-fired engines combined located at this facility.</p> <p>Carbon monoxide (CO) emissions shall not exceed 21.33 tons per rolling 12-month period from all diesel-fired engines combined located at this facility.</p> <p>Volatile organic compound (VOC) emissions shall not exceed 8.08 tons per rolling 12-month period from all diesel-fired engines combined located at this facility.</p> <p>Sulfur dioxide (SO<sub>2</sub>) emissions shall not exceed 0.052 tons per rolling 12-month period from all diesel-fired engines combined located at this facility. See term f)(1)h.</p> <p>For the pollutants under 10 tons per rolling 12-month period, PE, VOC, and SO<sub>2</sub>, see term b)(2)a.</p>
f.	40 CFR 63 Subpart ZZZZ 40 CFR 63.6603(a)	<p>Limit CO to 49 ppmvd at 15% O<sub>2</sub> or reduce CO emissions by 70% or more.</p> <p>The stationary CI reciprocating ICE (RICE), located at an area source for hazardous air pollutants (HAPs), shall meet the requirements of 40 CFR Part 63, Subpart ZZZZ no later than 5/3/13 for the existing unit.</p>
g.	OAC rule 3745-31-05(A)(3), as effective 12/01/06	For pollutants above having a potential-to-emit under 10 tons per rolling 12-month period, BAT does not apply where the source is installed after 8/3/06. See term b)(2)(b).

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to the Ohio Revised Code (ORC) changes effective August 3, 2006 (Senate Bill 265 changes), such that BAT is no longer required by State regulations for National Ambient Air Quality Standards (NAAQS) pollutant(s) less than ten tons per year. However, that rule revision has not yet been approved by U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05, then these emission limitations/control measures no longer apply.

[OAC rule 3745-31-05(A)(3), as effective 11/30/01]

- b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

[OAC rule 3745-31-05(A)(3), as effective 12/01/06]

- c. The quality of the diesel fuel burned in this emissions unit shall meet the following specifications on an "as received" basis:

- i. a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.0015 pound sulfur dioxide/MMBtu actual heat input; and 15 ppm sulfur per gallon of oil or 0.0015% sulfur by weight;
- ii. a cetane index of 40 or an aromatic content of 35 volume percent; and
- iii. greater than 135,000 Btu/gallon of oil.

Compliance with the above-mentioned specifications shall be determined by using the analytical results provided by the permittee or oil supplier for each shipment of oil.

[40 CFR 63.6604] and [40 CFR 80.510(b)]

Applicable Rule	Requirement
40 CFR 63.6595(a)(1)	The compliance date for Part 63 Subpart ZZZZ for existing CI RICE is 5/3/13.
Applicable Tables from Part 63, Subpart ZZZZ	Emission limit options in Table 2d #2; performance test methods in Table 4 #1 or #3; initial compliance demonstration in Table 5 #8 or #9; reporting requirements/frequency in Table 7; general provision from Subpart A in Table 8.
40 CFR 63.6603(a)	Maintain compliance with emission limitation in Table 2d #2 (limit CO to 49 ppmvd at 15% O <sub>2</sub> or reduce CO by 70%) to Part 63 Subpart ZZZZ.
40 CFR 63.6603; 40 CFR 63.6612; and	Conduct an initial performance test to demonstrate compliance with the CO emission standards according to

40 CFR 63.6620	the requirements specified in Tables 4 and 5 to the subpart within 180 days following the compliance date or by 11/3/13.
40 CFR 63.6625(g)	Install crankcase ventilation system by 5/3/13 if not already equipped.
40 CFR 63.6665	Meet all of the general provisions of Subpart A, from Sections 63.1 through 63.15, that apply to the CI RICE, as identified in Table 8 to Subpart ZZZZ.

c) Operational Restrictions

- (1) The maximum annual diesel fuel oil usage rate from all diesel engines located at this facility shall not exceed 327,722 gallons per rolling 12-month period; or where monthly calculations demonstrate that the facility's total rolling, 12-month NOx emissions are less than 99 tons, based on the fuel usage in each engine and the certified or worst-case exhaust standards to which they are permitted, the maximum annual diesel fuel oil usage rate from all diesel engines used at this facility shall not exceed 500,000 gallons per rolling 12-month period.

[OAC rule 3745-31-05(D)]

Applicable Rule	Requirement
40 CFR 63.6604	Compliance with 80.510(b) for the quality of diesel fuel burned in non-emergency CI ICE with a displacement of less than 30 liters/cylinder and a site rating of more than 300 brake horsepower. Standard for diesel fuel oil.
40 CFR 63.6605	General duty to minimize emissions, with good air pollution control practices for minimizing emissions; and compliance required at all times.
40 CFR 63.6625(h)	Minimize idle and startup time, not to exceed 30 minutes.

d) Monitoring and/or Recordkeeping Requirements

- (1) For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of the diesel oil received and the oil supplier's (or permittee's) analyses for sulfur content, in parts per million per gallon (40 CFR 80.510) or percent by weight. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR 80.580, using the appropriate ASTM methods. These records shall be retained for a minimum of 5 years and shall be available for inspection by the Director or his/her representative.

For [40 CFR 63.6604] and [40 CFR 80.510(b)]; [40 CFR 63.6660] and [40 CFR 63.10(b)(1)]

- (2) The permittee shall maintain a record of the diesel fuel burned in diesel-fired engines at the facility each month and for each engine type. Two engines are considered separate types if any of the gram/kW-hr emission limits described in section 1.b)(1)a. of their air permits are different. Records of NOx emission calculations shall be maintained for each diesel engine at the facility and they shall document the NOx emissions to be less than 99 tons each rolling 12-month period at this throughput; or the same demonstration can be made using a worst-case NOx emission factor.

[OAC rule 3745-31-05(A)(3)- to calculate emissions]

- (3) The permittee shall maintain a record of the diesel fuel burned in all diesel fired engines at this facility on a rolling 12-month basis, i.e., at the end of each month, the sum of the gallons of diesel fuel burned in all diesel-fired engines during the month plus the number of gallons burned during the preceding 11 months of operations. During the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, where 11 months of fuel usage records are not available, the permittee shall record the cumulative diesel fuel usage for the facility as specified in the following table:

<u>Month(s)</u>	<u>1. Maximum Allowable Cumulative Diesel Usage (gallons)</u>	<u>2. Maximum Allowable Cumulative Diesel Usage (gallons)</u>
1	80,000	80,000
1-2	160,000	160,000
1-3	240,000	240,000
1-4	320,000	320,000
1-5	327,722	400,000
1-6	327,722	480,000
1-7	327,722	500,000
1-8	327,722	500,000
1-9	327,722	500,000
1-10	327,722	500,000
1-11	327,722	500,000
1-12	327,722	500,000

1. Where any engine is put into operation that is not certified and permitted to emission standards that meet those found in 40 CFR 89.112 (Tier 1 through Tier 3) or 40 CFR 1039.102 (Interim Tier 4)
2. Where monthly calculations demonstrate that the facility's total rolling, 12-month NOx emissions are less than 99 tons, based on the fuel usage in each engine and the exhaust standards to which they are permitted.

After the first 12 calendar months of operation or the first 12 calendar months following the issuance of this permit, compliance with the facility's annual diesel fuel usage limitation shall be based upon a rolling, 12-month summation of the fuel usage records for each engine.

[OAC rule 3745-31-05(D)]

Applicable Rule	Requirement
40 CFR 63.6635	Except for monitor malfunctions, associated repairs, and required quality assurance activities, must continuously monitor that the RICE is operating. Must use all valid data (not recorded during malfunctions, repairs, or required quality assurance or control activities) in calculations used to report emissions or operating levels.
40 CFR 63.6640(a)	Demonstrate continuous compliance with the emission limitation identified in Table 2d according to the methods specified in Table 6 to Subpart ZZZZ.

40 CFR 63.6655(a)	Keep records of: 1. each notification and report submitted to comply with Subpart ZZZZ; 2. the occurrence and duration of each malfunction of the RICE and any control or monitoring equipment; 3. corrective actions taken during each period of malfunction to minimize emissions and restore normal operations; 4. records of performance tests and performance evaluations; and 5. all required maintenance performed on air pollution control and monitoring equipment.
40 CFR 63.6655(d)	Keep the records required in Table 6 to Subpart ZZZZ to demonstrate continuous compliance.
40 CFR 63.6604 40 CFR 80.510(b)	Maintain records for the quality of diesel fuel burned in the CI ICE, i.e., for the standards identified in 40 CFR 80.510(b).
40 CFR 63.6625(h)	Maintain a record of each idle and/or startup time that exceeded 30 minutes.
40 CFR 63.6660	Records readily available and retained for at least 5 years after the date of occurrence or date of report according to 63.10(b)(1).

e) Reporting Requirements

- (1) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the Director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve months for each air contaminant source identified in this permit.

[OAC rule 3745-15-03(B)(2) and (D)]

- (2) The permittee shall identify in the quarterly deviation report any exceedance of the facility's diesel fuel oil usage restriction, to include the amount of diesel fuel usage recorded for each such rolling 12-month period.

[OAC rule 3745-15-03(B)(1) and (C)] for [OAC rule 3745-31-05(D)]

Applicable Rule	Requirement
40 CFR 63.6604 and 40 CFR 80.510(b)	Identify in the any period of time (date and number of hours), during the reporting period, that the quality of oil burned in this emissions unit did not meet the requirements established in 40 CFR 80.510(b).
40 CFR 63.6630(c)	Submit the results of the initial compliance demonstration in the Notification of Compliance
40 CFR 63.6640(b)	Submit a report of each instance in which the emission limitation in Table 2d was not met; these deviations to be reported according to the requirements of 63.6650.
40 CFR 63.6640(e)	Submit a report of each instance in which the applicable requirements in Table 8 to Subpart ZZZZ, the general provisions from Subpart A, were not met.
40 CFR 63.6645(a)(2)	Submit all notifications required per 63.7(b) and (c); 63.8(e), (f)(4), and (f)(6); and 63.9(b) through (e), (g), and (h) that apply to the CI RICE.
40 CFR 63.6645(g)	Submit a Notification of Intent to conduct a performance test at least

	60 days before the test is scheduled to begin, as required by 63.7(b)(1).
40 CFR 63.6645(h)(2) and OAC rule 3745-15-04(A)	Submit a Notification of Compliance Status, according to 63.9(h)(2)(ii), for each initial compliance demonstration required in Table 5 to Subpart ZZZZ, including the performance test results, and before the close of business on the 60 <sup>th</sup> day following the completion of the test according to 63.10(d)(2). OAC rule 3745-15-04(A) requires performance test results to be submitted within 30 days of the test date unless additional time is requested.
40 CFR 63.6650(a)	Submit each applicable report in Table 7 of Subpart ZZZZ.
40 CFR 63.6650(b)(1) to (5) and Table 7 #1	Following the initial compliance date, submit Semiannual Compliance Reports to include the information identified in 63.6650(c) through (f), as applicable to the CI ICE. Following the initial compliance report, each subsequent report shall cover the reporting period from January 1 <sup>st</sup> through June 30 <sup>th</sup> and July 1 <sup>st</sup> through December 31 <sup>st</sup> . The Semiannual Compliance Reports must be postmarked or delivered no later than July 31 <sup>st</sup> and January 31 <sup>st</sup> .
40 CFR 63.6650(c)	63.6650(c) contains the required information to be submitted in each compliance report.
40 CFR 63.6650(d)	63.6650(d) contains the required information to be submitted for each deviation from an emission or operating limitation not monitored by a continuous monitoring system (CMS).

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Opacity Limitation:

Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

If required, compliance shall be determined through visible emission observations performed in accordance with U.S. EPA Reference Method 9 in 40 CFR, Part 60, Appendix A.

[OAC rule 3745-17-07(A)(1)]

b. Emission Limitations:

0.310 lb PE/MMBtu

6.96 tons PE/rolling 12-months for the facility

Applicable Compliance Method:

The particulate emission limitation is from OAC rule 3745-17-11(B)(5) for stationary internal combustion engines. Compliance with the ton per rolling 12-month PE emissions limitation shall be determined by the following calculation:

Where:

$G_i$  = Gallons of diesel fuel used per rolling 12-month period for engine type  $i$ .

$E_{Fi}$  = the particulate emission limitation from OAC rule 3745-17-11(B)(5)(a) for stationary small internal combustion engines less than or equal to 600 horsepower, 0.310 lb PE/MMBtu

$E$  = Total tons of PE/rolling 12-month period emitted.

$$E = \sum_{i=1}^n \left( G_i \frac{\text{Gallons}}{\text{Rolling 12 - months}} \right) \left( \frac{137,000 \text{ Btu}^{**}}{\text{Gallon}} \right) \left( E_{Fi} \frac{\text{lb}}{\text{MMBtu}} \right) \left( \frac{\text{Ton}}{2000 \text{ lb}} \right)$$

If required, the permittee shall demonstrate compliance with the emission limitations through exhaust emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

[OAC rule 3745-31-05(D)] and [OAC rule 3745-17-11(B)(5)(a)]

c. Emission Limitations:

4.41 lb NOx/MMBtu

99.0 tons NOx/rolling 12-months for the facility

Applicable Compliance Method:

The NOx emissions limit is based on using the AP-42 emission factor of 4.41 lbs NOx/MMBtu from Chapter 3.3, Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines".

Compliance with the ton per rolling 12-month NOx emissions limitation shall be determined by the following calculation:

Where:

$G_i$  = Gallons of diesel fuel used per rolling 12-month period for engine type  $i$ .

$E_{Fi}$  = AP-42 emission factor from Chapter 3.3, Table 3.3-1, 4.41 lbs NOx/MMBtu.

$E$  = Total tons of NOx/rolling 12-month period emitted.

$$E = \sum_{i=1}^n \left( G_i \frac{\text{Gallons}}{\text{Rolling 12 - months}} \right) \left( \frac{137,000 \text{ Btu}^{**}}{\text{Gallon}} \right) \left( E_{Fi} \frac{\text{lb}}{\text{MMBtu}} \right) \left( \frac{\text{Ton}}{2000 \text{ lb}} \right)$$

If required, the permittee shall demonstrate compliance with the emission limitations through exhaust emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, as appropriate.

[OAC rule 3745-31-05(D)]

d. Emission Limitations:

0.95 lb CO/MMBtu

21.33 tons CO/rolling 12-months for the facility

Applicable Compliance Method:

The carbon monoxide emissions limit is based on using the AP-42 emission factor of 0.95 lb CO/MMBtu from Chapter 3.3, Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines". This limit will be replaced by the CO exhaust concentration limit from 40 CFR Part 63, Subpart ZZZZ, Table 2d effective May 3, 2013.

Compliance with the ton per rolling 12-month CO emissions limitation shall be determined by the following calculation:

Where:

$G_i$  = Gallons of diesel fuel used per rolling 12-month period for engine type  $i$ .

$E_{Fi}$  = AP-42 emission factor from Chapter 3.3, Table 3.3-1, 0.95 lb CO/MMBtu.

$E$  = Total tons of CO/rolling 12-month period emitted.

$$E = \sum_{i=1}^n \left( G_i \frac{\text{Gallons}}{\text{Rolling 12 - months}} \right) \left( \frac{137,000 \text{ Btu}^{**}}{\text{Gallon}} \right) \left( \frac{\text{lb}}{\text{MMBtu}} \right) \left( \frac{\text{Ton}}{2000 \text{ lb}} \right)$$

If required, the permittee shall demonstrate compliance with the emission limitations through exhaust emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

[OAC rule 3745-31-05(D)]

e. Emission Limitations:

49 ppmvd CO at 15% O<sub>2</sub> or

reduce CO by 70%

Applicable Compliance Method:

Unless a performance test is submitted that meets the requirements of 40 CFR 63.6612(b), the permittee shall conduct an initial performance test within 180 days after the compliance date or no later than 11/3/13, to demonstrate compliance with the CO limitation in the NESHAP. The appropriate tests methods from Table 4 to Subpart ZZZZ shall be conducted based on the option chosen for compliance, i.e., the part per million concentration or percent reduction.

The performance test shall consist of 3 separate test runs and each test run shall last a minimum of 1 hour and shall be conducted during normal operations. The engine percent load, during the performance test, shall be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load and the estimated percent load shall be included in the notification of compliance.

The permittee shall notify the Director (appropriate Ohio EPA Division of Air Pollution Control District Office or local air agency) in writing of the scheduled performance test date at least 60 calendar days before it is scheduled, to allow the agency time to review and approve the site-specific test plan and to arrange for an observer to be present during the compliance demonstration.

If demonstrating compliance with the percent reduction requirement, the CO concentrations at the inlet and outlet of the control device must be normalized to a dry basis and to 15% oxygen, or an equivalent percent CO<sub>2</sub>, as required in 40 CFR 63.6620(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.

[40 CFR 63.7(a)(2), (b)(1), and (e)(3)], [40 CFR 63.6603(a)], [40 CFR 63.6612], [40 CFR 63.6620], [40 CFR 63.6645(a)(2)], [40 CFR 63.6645(g)], [Part 63, Subpart ZZZZ, Table 2d #2; Table 4 #1 or 3; and Table 5 #8 or #9], and [OAC rule 3745-15-04(A)]

f. Emission Limitations:

0.36 lb VOC/MMBtu

8.08 tons VOC/rolling 12-months for the facility

Applicable Compliance Method:

The VOC emissions limit is based on using the AP-42 emission factor of 0.36 lb VOC/MMBtu from Chapter 3.3, Table 3.3-1, "Emission Factors for Uncontrolled Gasoline and Diesel Industrial Engines".

Compliance with the ton per rolling 12-month VOC emissions limitation shall be determined by the following calculation:

Where:

Gi = Gallons of diesel fuel used per rolling 12-month period for engine type i.

EFi = AP-42 emission factor from Chapter 3.3, Table 3.3-1, 0.36 lb VOC/MMBtu.

E = Total tons of VOC/rolling 12-month period emitted.

$$E = \sum_{i=1}^n \left( G_i \frac{\text{Gallons}}{\text{Rolling 12 - months}} \right) \left( \frac{137,000 \text{ Btu}^{**}}{\text{Gallon}} \right) \left( E_{Fi} \frac{\text{lb}}{\text{MMBtu}} \right) \left( \frac{\text{Ton}}{2000 \text{ lb}} \right)$$

If required, the permittee shall demonstrate compliance with the emission limitations through exhaust emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25, as appropriate.

[OAC rule 3745-31-05(D)]

\*\* The specific heating value documented by the supplier should be used in place of 137,000 Btu/gal to calculate emissions.

g. Sulfur Content Limitations for Diesel Fuel:

Sulfur content 15 ppm per gallon or  $\leq 0.0015\%$  by weight sulfur

Applicable Compliance Method:

Compliance shall be demonstrated through the record keeping requirements for the sulfur content of each shipment of diesel oil received. If meeting the standards in 40 CFR 80.510(b), this calculates to approximately 0.0015 lb SO<sub>2</sub>/MMBtu.

[40 CFR 63.6604] and [40 CFR 80.510(b)]

h. Emission Limitations:

0.034 tons of SO<sub>2</sub>/rolling 12-month period for the facility where limited to 327,722 gallons

0.052 tons of SO<sub>2</sub>/rolling 12-month period for the facility where limited to 500,000 gallons

Applicable Compliance Method:

Compliance with the ton per rolling 12-month SO<sub>2</sub> emissions limitation shall be determined by the following calculation from AP-42 Table 3.4-1:

Where:

G = Gallons of diesel fuel burned in the engine during each rolling 12-month period.

S = Sulfur content of the fuel used. Since the sulfur content limit for the fuel is 0.0015%, use the value 0.0015 in the formula.

E = Total tons of SO<sub>2</sub>/rolling 12-month period emitted.

$$E = \left( G \frac{\text{Gallons}}{\text{Rolling 12 - months}} \right) \left( \frac{137,000 \text{ Btu}}{\text{Gallon}} \right) \left( (1.01)(S) \frac{\text{lb SO}_2}{\text{mmBtu}} \right) \left( \frac{\text{Ton}}{2000 \text{ lbs}} \right)$$

[OAC rule 3745-31-05(D)]

g) Miscellaneous Requirements

(1) At the discretion and following the approval of the Director (the appropriate Ohio EPA District Office or local air agency), the permittee may relocate the portable source within the State of Ohio without first obtaining a permit-to-install and operate (PTIO) or a permit-to-install (PTI), providing the appropriate notification and exemption requirements have been met. The Director may issue a "Notice of Site Approval" through either of the following scenarios:

- a. The approval to relocate the portable source shall be acquired in accordance the permanent exemption for portable sources in OAC rule 3745-31-03(A)(1)(p):
  - i. the diesel engine (portable source) is certified to limits that meet the applicable New Source Performance Standard (NSPS) limitations, according to the rated power and model year;
  - ii. the portable source is operated in compliance with any applicable best available technology (BAT) determination issued in a permit and all applicable state and/or federal rules and laws;
  - iii. the portable source is operating pursuant to a currently effective PTIO or PTI and/or permit to operate (PTO) and continues to comply with the requirements of the permit;
  - iv. all of the qualifying criteria for the relocated engine can be and will continue to be met at the new location;
  - v. the permittee has provided a minimum of 30 days notice of the intent to relocate the portable source to the permitting authority (the Ohio EPA District Office or local air agency that has issued the effective current permit) prior to the scheduled relocation;
  - vi. the Ohio EPA district office or local air agency having jurisdiction over the new site has determined that the permitted emissions would not cause a nuisance and would be acceptable under OAC rule 3745-15-07;
  - vii. upon relocation, the permittee maintains records of the diesel fuel burned in the engine according to its rated power and model year, along with any other engines at the facility with the same NSPS limits; and
  - viii. the Director has issued a "Notice of Site Approval", stating that the proposed site is acceptable and the relocation of the portable source, along with any supporting permitted emissions (e.g. roadways or storage piles), would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site.

The portable source can be relocated upon receipt of the Director's "Notice of Site Approval" for the site; **or**

- b. The Director may issue a "Notice of Site Approval" if the portable source meets the requirements of OAC rule 3745-31-05(H), as follows:
  - i. the diesel engine (portable source) is certified to limits that meet the applicable New Source Performance Standard (NSPS) limitations, according to the rated power and model year;

- ii. the portable source is operating pursuant to a currently effective permit-to-install (PTI), permit-to-install and operate (PTIO), or has been approved for registration status and continues to comply with the requirements of the permit and any applicable state and/or federal rules;
- iii. the portable source has been issued a PTIO or PTI and the permittee continues to comply with the requirements of the permit, including any applicable best available technology (BAT) determination;
- iv. all of the qualifying criteria for the relocated engine can be and will continue to be met at the new location;
- v. the portable source owner has identified and submitted the proposed site to the Ohio EPA;
- vi. the permitting District Office/local air agency and the District Office/local air agency having jurisdiction over the new site (if different) have determined that the portable source will have an acceptable environmental impact at the proposed site;
- vii. a public notice, meeting the requirements OAC rule 3745-47, is published in the county where the proposed site is located;
- viii. the owner of the proposed site (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site;
- ix. the permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation; and
- x. upon relocation, the permittee maintains records of the diesel fuel burned in the engine according to its rated power and model year, along with any other engines at the facility with the same NSPS limits.

The portable source can be relocated upon receipt of the Director's "Notice of Site Approval" for the site. Any site approval issued by the Ohio EPA, pursuant to OAC rule 3745-31-05(H), is subject to expiration and renewal. Pursuant to OAC rule 3745-31-07(C)(3), any site approval for a portable source shall be issued for a period of time determined to be appropriate by the Director and the renewal will be reevaluated and subject to the same requirements above.

[OAC rule 3745-31-03(A)(1)(p)(i)] or [OAC rule 3745-31-03(A)(1)(p)(ii)], [OAC rule 3745-31-05(H)], [OAC rule 3745-31-07(C)(3)], and [ORC 3704.03(G)]

- (2) If the relocation of the portable source would result in the installation of a major source or the modification of a major source, as defined in OAC rule 3745-31-01, the permittee shall submit an application and obtain a PTIO or PTI (as applicable) for the new location prior to moving the portable source.

When a portable source is located at a stationary source or at a site with multiple portable sources, the potential emissions of the portable source may be required to be added to that of the facility, in order to determine the potential to emit for Title V and PSD applicability. Relocation of any portable source that results in the creation of a

major source, as defined in OAC rule 3745-77-01, must also meet all applicable requirements under the Title V program contained in OAC rule 3745-77, which may include the requirement to apply for a Title V permit.

The "Notice of Intent to Relocate" shall be submitted to the Ohio EPA District Office or local air agency responsible for issuing the permits for the portable source. Upon receipt of the notice, the permitting office shall notify the appropriate Ohio EPA District Office or local air agency having jurisdiction over the new site. Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.

[OAC rule 3745-31-03(A)(1)(p)(i)], [OAC rule 3745-31-03(A)(1)(p)(ii)], and [OAC rule 3745-31-05(H)]