



8/27/2014

Certified Mail

Mr. Jack Schroeder
 Milacron Plastics Technologies Group LLC
 4165 Halfacre Road
 Batavia, OH 45103

No	TOXIC REVIEW
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
Yes	MACT/GACT
Yes	NSPS
No	NESHAPS
No	NETTING
No	MODELING SUBMITTED
No	SYNTHETIC MINOR TO AVOID TITLE V
No	FEDERALLY ENFORCABLE PTIO (FEPTIO)
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
 Facility ID: 1413020004
 Permit Number: P0117502
 Permit Type: Administrative Modification
 County: Clermont

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. In this letter you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**

How to appeal this permit

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
 77 South High Street, 17th Floor
 Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org/clean_air

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab.

If you have any questions, please contact Southwest Ohio Air Quality Agency at (513)946-7777 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

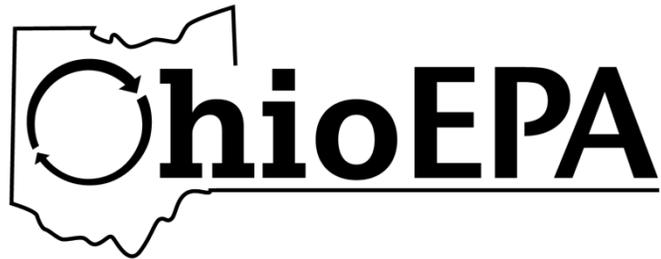
Sincerely,



Michael W. Ahern, Manager

Permit Issuance and Data Management Section, DAPC

Cc: SWOAQA



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Milacron Plastics Technologies Group LLC**

Facility ID:	1413020004
Permit Number:	P0117502
Permit Type:	Administrative Modification
Issued:	8/27/2014
Effective:	8/27/2014
Expiration:	12/30/2018



Division of Air Pollution Control
Permit-to-Install and Operate
for
Milacron Plastics Technologies Group LLC

Table of Contents

Authorization	1
A. Standard Terms and Conditions	3
1. What does this permit-to-install and operate ("PTIO") allow me to do?	4
2. Who is responsible for complying with this permit?	4
3. What records must I keep under this permit?	4
4. What are my permit fees and when do I pay them?	4
5. When does my PTIO expire, and when do I need to submit my renewal application?	4
6. What happens to this permit if my project is delayed or I do not install or modify my source?	5
7. What reports must I submit under this permit?	5
8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?	5
9. What are my obligations when I perform scheduled maintenance on air pollution control equipment? ...	5
10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?	6
11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?	6
12. What happens if one or more emissions units operated under this permit is/are shut down permanently?	6
13. Can I transfer this permit to a new owner or operator?	7
14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?	7
15. What happens if a portion of this permit is determined to be invalid?	7
B. Facility-Wide Terms and Conditions	8
C. Emissions Unit Terms and Conditions	10
1. P006, Generator #5	11



Final Permit-to-Install and Operate
Milacron Plastics Technologies Group LLC
Permit Number: P0117502
Facility ID: 1413020004
Effective Date: 8/27/2014

Authorization

Facility ID: 1413020004
Application Number(s): M0002966
Permit Number: P0117502
Permit Description: Administrative modification of P0117069 to reflect applicable rules in 40 CFR Part 60, Subpart III, based upon engine manufacturer certification and permittee's alternative mode of operation.
Permit Type: Administrative Modification
Permit Fee: \$100.00
Issue Date: 8/27/2014
Effective Date: 8/27/2014
Expiration Date: 12/30/2018
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Milacron Plastics Technologies Group LLC
4165 Halfacre Road
Batavia, OH 45103

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

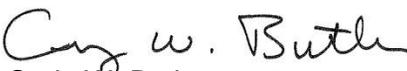
Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Southwest Ohio Air Quality Agency
250 William Howard Taft Rd.
Cincinnati, OH 45219
(513)946-7777

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Craig W. Butler
Director



Final Permit-to-Install and Operate
Milacron Plastics Technologies Group LLC
Permit Number: P0117502
Facility ID: 1413020004
Effective Date: 8/27/2014

Authorization (continued)

Permit Number: P0117502

Permit Description: Administrative modification of P0117069 to reflect applicable rules in 40 CFR Part 60, Subpart IIII, based upon engine manufacturer certification and permittee's alternative mode of operation.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Emissions Unit ID:	P006
Company Equipment ID:	Generator #5
Superseded Permit Number:	P0117069
General Permit Category and Type:	Not Applicable



Final Permit-to-Install and Operate
Milacron Plastics Technologies Group LLC
Permit Number: P0117502
Facility ID: 1413020004
Effective Date: 8/27/2014

A. Standard Terms and Conditions



1. What does this permit-to-install and operate ("PTIO") allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11, or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is



very important that you submit a complete renewal permit application (postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended by up to 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and PER obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective, and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.



10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the [DO/LAA] in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction, but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.



13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



Final Permit-to-Install and Operate
Milacron Plastics Technologies Group LLC
Permit Number: P0117502
Facility ID: 1413020004
Effective Date: 8/27/2014

B. Facility-Wide Terms and Conditions



1. 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).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) The permittee is advised that this facility may be subject to the "Generally Available Control Technology" (GACT) requirements under 40 CFR Part 63, Subpart ~~ZZZZ~~, the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for reciprocating internal combustion engines-existing compression ignition. The U.S. EPA is responsible for the administration of the requirements of this rule at this time. It should be noted that the enforcement authority of the GACT requirements is not delegated to Ohio EPA at the time of this permit processing. The complete requirements of this rule (including the Part 63 General Provisions) may be accessed via the Internet from the Electronic code of Federal Regulations (e-CFR) website <http://www.ecfr.gov/> or by contacting the appropriate Ohio EPA District Office or Local Air Agency.



Final Permit-to-Install and Operate
Milacron Plastics Technologies Group LLC
Permit Number: P0117502
Facility ID: 1413020004
Effective Date: 8/27/2014

C. Emissions Unit Terms and Conditions



1. P006, Generator #5

Operations, Property and/or Equipment Description:

851 BHP (635 KW) 50 Hz Diesel Generator

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. None.

b) **Applicable Emissions Limitations and/or Control Requirements**

(1) The specific operation(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 are identified below. 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.	40 CFR Part 60, Subpart III 40 CFR 60.4204(b) Table 7 to 40 CFR 1039.102, Interim Tier 4	The exhaust emissions from this engine shall not exceed: 0.10 gram of particulate matter (PM) per kilowatt-hour (0.10 gram of PM/kW-hr); 3.5 grams nitrogen oxides (NOx) per kilowatt-hour (3.5 grams of NOx/kW-hr); 0.40 gram nonmethane hydrocarbons per kilowatt-hour (0.40 gram NMHC/kW-hr); and, 3.5 grams of carbon monoxide (CO) per kilowatt-hour (3.5 grams of CO/kW-hr). See b)(2)c., b)(2)d., c)(1), c)(2), d)(2) and d)(3).



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
b.	40 CFR 60.4207(b) 40 CFR 80.510(b)	See b(2)e., d(1) and e(2).
c.	40 CFR 1039.105 (certified by manufacturer)	20% opacity during the acceleration mode. 15% opacity during the lugging mode. 50% opacity during the peaks in either the acceleration or lugging modes.
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(A)(3) ORC 3704.03(T)	NOx emissions shall not exceed 1.78 tons per month averaged over a rolling 12-month period from this emissions unit.* CO emissions shall not exceed 1.78 tons per month averaged over a rolling 12-month period from this emissions unit.* *The tons per month emission limitations are based upon the emissions unit's Potential to Emit (PTE). Therefore, no monitoring, record keeping and reporting requirements are necessary to ensure compliance with this emission limitation.
f.	OAC rule 3745-31-05(A)(3), as effective 11/30/01 ORC 3704.03(T)	Particulate Emissions (PE) and Particulate Matter 10 microns and less in diameter (PM ₁₀) shall not exceed 0.052 ton per month averaged over a rolling 12-month period from this emissions unit.* Volatile organic compound (VOC) emissions shall not exceed 0.21 ton per month averaged over a rolling 12-month period from this emissions unit.* Sulfur dioxide (SO ₂) emissions shall not exceed 0.01 ton per month averaged over a rolling 12-month period from this



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		emissions unit.* *The tons per month emission limitations are based upon the emissions unit's Potential to Emit (PTE). Therefore, no monitoring, record keeping and reporting requirements are necessary to ensure compliance with this emission limitation. See b)(2)a.
g.	OAC rule 3745-31-05(A)(3), as effective 12/01/06 ORC 3704.03(T)	See b)(2)b.
h.	OAC rule 3745-17-11(B)(5)	The emission limitation specified by this rule is less stringent than the emission limitation established for PE pursuant to 40 CFR Part 60, Subpart IIII.

(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 Standard (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 these emission limitations/control measures no longer apply.
- 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.

The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to emissions of PE and PM₁₀, VOC and SO₂ from this air contaminant source since the potential to emit for these pollutants is less than 10 tons per year.



- c. The stationary compression ignition (CI), internal combustion engine (ICE) is subject to and shall be operated in compliance with the requirements of 40 CFR Part 60, Subpart III, the standards of performance for stationary CI, ICE.
- d. This emission unit is a stationary CI, ICE manufactured in 2012 and certified under the applicable requirements for emergency engines identified in 40 CFR 60.4202(a)(2) and 60.4205(b) and found in Tier 2 of 40 CFR 89.112, Table 1, for engines greater than 560 kilowatt (750 horsepower). The permittee has elected to install, configure, operate and maintain this emissions unit in a manner different than the manufacturer's specifications, as allowed under 40 CFR 60.4211(c) and 60.4211(g). Therefore, the permittee shall demonstrate compliance with the applicable emission standards for non-emergency engines specified in 40 CFR 60.4204(b) and b)(1)a. above, for the useful life of the engine, in accordance with the requirements of 60.4211(g)(3) and c)(1)a. of this permit.
- e. The quality of the diesel fuel burned in this engine 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 or 0.0015% sulfur by weight; and
 - ii. a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent.

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.

- f. The application and enforcement of the provisions of the New Source Performance Standards (NSPS), as promulgated by the United States Environmental Protection Agency, 40 CFR Part 60, are delegated to the Ohio Environmental Protection Agency. The requirements of 40 CFR Part 60 are also federally enforceable.

c) **Operational Restrictions**

- (1) Except as allowed in a. below, the stationary CI ICE shall be installed, operated, and maintained according to the manufacturer's specifications, written instructions, and procedures, and/or according to procedures developed by the permittee that have been approved by the engine manufacturer in writing, over the entire life of the engine. The CI ICE must also be installed and operated to meet the applicable requirements from 40 CFR Part 89, Control of Emissions from New and In-use Non-road CI ICE and Part 1068, the General Compliance Provisions for Engine Programs. The permittee shall operate and maintain the stationary CI ICE to achieve the Interim Tier 4 emission standards in Table 7 to 40 CFR 1039.102, as required per 40 CFR 60.4204.
 - a. If the permittee does not install, configure, operate and maintain the CI ICE and control device according to the manufacturer's emission-related instructions, or



changes the emission-related settings in a way that is not permitted by the manufacturer, the permittee shall comply with the following requirements pursuant to 40 CFR 60.4211(g)(3):

- i. keep a maintenance plan and records of conducted maintenance;
 - ii. maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions;
 - iii. conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after changing emission-related settings in a way that is not permitted by the manufacturer; and
 - iv. conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.
- (2) If the stationary CI internal combustion engine is equipped with a diesel particulate filter to comply with the emission standards in 40 CFR 60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the permittee when the high backpressure limit of the engine is approached.
- 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 in accordance with 40 CFR 80.580, using the appropriate ASTM methods. These records shall be retained for a minimum of five years and shall be available for inspection by the Director or his/her representative.
 - (2) The permittee shall maintain the manufacturer's certification, or documentation that the engine meets the emissions standards, to the applicable Interim Tier 4 emission standards in Table 7 of 40 CFR 1039.102 and the opacity standards in 40 CFR 1039.105, on site or at a central location for all facility ICE and it shall be made available for review upon request. If the manufacturer's certification, or documentation that the engine meets the emissions standards is not kept on site, the permittee shall maintain a log for the location of each ICE and it shall identify the agency-assigned emissions unit number, the manufacturer's identification number, and the identification number of the certificate. The manufacturer's operations manual and any written instructions or procedures developed by the permittee and approved by the manufacturer shall be maintained at the same location as the ICE.
 - (3) If the stationary CI internal combustion engine is equipped with a diesel particulate filter to comply with the emission standards in 40 CFR 60.4204, the permittee shall



keep records of the date, time, and any corrective action(s) taken in response to the notification from the backpressure monitor, that the high backpressure limit of the engine has been approached.

e) Reporting Requirements

- (1) The permittee shall submit an annual Permit Evaluation Report (PER) to the Ohio EPA District Office or Local Air Agency 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. It is recommended that the PER is submitted electronically through the Ohio EPA's "e-Business Center: Air Services" although PERs can be submitted via U.S. postal service or can be hand delivered.
- (2) The permittee shall identify in the annual permit evaluation report any period of time (date and number of hours) that the quality of oil burned in this emissions unit did not meet the requirements established in 40 CFR 80.510(b), based upon the required fuel records, and the amount of non-compliant fuel burned on each such occasion.
- (3) If the stationary CI internal combustion engine is equipped with a diesel particulate filter to comply with the emission standards in 40 CFR 60.4204, the permittee shall include in the PER any records of the date, time, and any corrective action(s) taken in response to the notification from the monitor that the high backpressure limit has been approached.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Opacity Limitation:

20% opacity during the acceleration mode;
15% opacity during the lugging mode; and
50% opacity during the peaks in either the acceleration or lugging modes.

Applicable Compliance Method:

The ICE shall be purchased certified to the opacity standards of 40 CFR 1039.105.
 - b. Opacity Limitation:

Visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed 20% 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.

c. Emission Limitations:

0.10 gram of PM/kW-hr; and,

0.052 ton per month of PE and PM₁₀ averaged over a rolling 12-month period emitted.

Applicable Compliance Method:

Compliance with the emission limitations shall be determined through emission testing conducted pursuant to 40 CFR 60.4211(g)(3) and 60.4212. See f)(2) below. The g/kW-hr limit is the emission limitation from Table 7 of 40 CFR 1039.102, the Interim Tier 4 exhaust emission standards for diesel engines between 560 and 900 kilowatts (750 and 1206 horsepower). PE is assumed to be equivalent to PM₁₀.

Compliance with the ton per month averaged over a rolling 12-month of PE and PM₁₀ emission limitation shall be determined by 0.10 gram PM/kW-hr x 8760 hrs/year x 1 lb/453.6 grams x 851 HP x 0.7457 kW/1 HP x 1 ton/2000 lbs x 1 year/12 months = 0.052 ton per month.

d. Emission Limitations:

3.5 grams of NO_x/kW-hr; and,

1.78 tons NO_x per month averaged over a rolling 12-month period emitted.

Applicable Compliance Method:

Compliance with the emission limitations shall be determined through emission testing conducted pursuant to 40 CFR 60.4211(g)(3) and 60.4212. See f)(2) below. The g/kW-hr limit is the emission limitation from Table 7 of 40 CFR 1039.102, the Interim Tier 4 exhaust emission standards for diesel engines between 560 and 900 kilowatts (750 and 1206 horsepower).

Compliance with the ton per month averaged over a rolling 12-month of NO_x emission limitation shall be determined by 3.5 grams NO_x/kW-hr x 8760 hrs/year x 1 lb/453.6 grams x 851 HP x 0.7457 kW/1 HP x 1 ton/2000 lbs x 1 year/12 months = 1.78 tons per month.



e. Emission Limitations:

0.40 gram of NMHC/kW-hr; and,

0.21 ton VOC per month averaged over a rolling 12-month period emitted.

Applicable Compliance Method:

Compliance with the emission limitations shall be determined through emission testing conducted pursuant to 40 CFR 60.4211(g)(3) and 60.4212. See f)(2) below. The g/kW-hr limit is the emission limitation from Table 7 of 40 CFR 1039.102, the Interim Tier 4 exhaust emission standards for diesel engines between 560 and 900 kilowatts (750 and 1206 horsepower).

Compliance with the ton per month averaged over a rolling 12-month of VOC emission limitation shall be determined by $0.40 \text{ gram NMHC/kW-hr} \times 8760 \text{ hrs/year} \times 1 \text{ lb/453.6 grams} \times 851 \text{ HP} \times 0.7457 \text{ kW/1 HP} \times 1 \text{ ton/2000 lbs} \times 1 \text{ year/12 months} = 0.21 \text{ ton per month}$.

f. Emission Limitations:

3.5 grams of CO/kW-hr; and,

1.78 tons CO per month averaged over a rolling 12-month period emitted.

Applicable Compliance Method:

Compliance with the emission limitations shall be determined through emission testing conducted pursuant to 40 CFR 60.4211(g)(3) and 60.4212. See f)(2) below. The g/kW-hr limit is the emission limitation from Table 7 of 40 CFR 1039.102, the Interim Tier 4 exhaust emission standards for diesel engines between 560 and 900 kilowatts (750 and 1206 horsepower).

Compliance with the ton per month averaged over a rolling 12-month of CO emission limitation shall be determined by $3.5 \text{ grams CO/kW-hr} \times 8760 \text{ hrs/year} \times 1 \text{ lb/453.6 grams} \times 851 \text{ HP} \times 0.7457 \text{ kW/1 HP} \times 1 \text{ ton/2000 lbs} \times 1 \text{ year/12 months} = 1.78 \text{ tons per month}$.

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 SO₂/MMBtu.



h. Emission Limitation:

0.01 ton of SO₂ per month averaged over a rolling 12-month period emitted.

Applicable Compliance Method:

Compliance with the ton per month averaged over a rolling 12-month of SO₂ emission limitation shall be determined by the following calculation from AP-42 Table 3.4-1: 1.01 lbs SO₂/MMBtu x 0.0015% sulfur x 17.18 MMBtu/hr x 8760 hrs/year x 1 ton/2000 lbs x 1 year/12 months = 0.01 ton per month.

If required, performance testing shall be conducted in accordance with 40 CFR 60.4212. The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F, for stationary CI ICE with a displacement of less than 10 liters per cylinder.

- (2) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements specified in 40 CFR 60.4211(g)(3) and 60.4212:
- a. The emission testing shall be conducted within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after changing emission-related settings in a way that is not permitted by the manufacturer; and
 - b. Conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.
 - c. The emission testing shall be conducted in accordance with the in-use testing procedures specified in 40 CFR part 1039, subpart F to demonstrate compliance with the allowable mass emission rates for PM, NO_x, NMHC, and CO. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed the most challenging control scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.
 - e. 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).

- f. 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.
- g. 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.

g) Miscellaneous Requirements

- (1) None.