



State of Ohio Environmental Protection Agency

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06/06/01

**CERTIFIED MAIL**

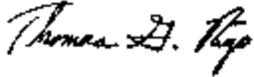
**RE: Proposed Title V Chapter 3745-77 permit**  
02-47-08-0234  
Ford Motor Company - Lorain Assembly Plant

Attn: Genevieve Damico AR-18J  
United States Environmental Protection Agency  
Region V  
77 West Jackson Blvd.  
Chicago, IL 60604-3590

Dear Ms. Damico:

The proposed issuance of the Title V permit for Ford Motor Company - Lorain Assembly Plant, has been created in Ohio EPA's State Air Resources System (STARS) on 06/06/01, for review by USEPA. This proposed action is identified in STARS as  3-Title V Proposed Permit T+C covering the facility specific terms and conditions, and  Title V Proposed Permit covering the general terms and conditions. This proposed permit will be processed for issuance as a final action after forty-five (45) days from USEPA's receipt of this certified letter if USEPA does not object to the proposed permit. Please contact Mike Ahern, DAPC Permit Management Unit supervisor at (614) 644-3631 by the end of the forty-five (45) day review period if you wish to object to the proposed permit.

Very truly yours,



Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: Northeast District Office  
Becky Castle, DAPC PMU



State of Ohio Environmental Protection Agency

PROPOSED TITLE V PERMIT

Issue Date: 06/06/01

Effective Date: To be entered upon final issuance

Expiration Date: To be entered upon final issuance

This document constitutes issuance of a Title V permit for Facility ID: 02-47-08-0234 to:
Ford Motor Company - Lorain Assembly Plant
5401 Baumhart Road
Lorain, OH 44053-0000

Emissions Unit ID (Company ID)/Emissions Unit Activity Description

Table with 3 columns: Emissions Unit ID (Company ID), Emissions Unit Activity Description, and Emissions Unit Activity Description. Rows include units B004 through B009 and K019 through K031.

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above.

Described below is the current Ohio EPA District Office or local air agency that is responsible for processing and administering your Title V permit:

Northeast District Office
2110 East Aurora Road
Twinsburg, OH 44087
(330) 425-9171

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director



## PART I - GENERAL TERMS AND CONDITIONS

### A. State and Federally Enforceable Section

#### 1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - i. The date, place (as defined in the permit), and time of sampling or measurements.
  - ii. The date(s) analyses were performed.
  - iii. The company or entity that performed the analyses.
  - iv. The analytical techniques or methods used.
  - v. The results of such analyses.
  - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written 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.) See B.8 below if no deviations occurred during the quarter.
  - iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the

appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting requirements. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.

- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

## **2. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

## **3. Risk Management Plans**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

## **4. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

## **5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

## **6. General Requirements**

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

## **7. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

## **8. Marketable Permit Programs**

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

## **9. Reasonably Anticipated Operating Scenarios**

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

## **10. Reopening for Cause**

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

## **11. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

## **12. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:

- i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:
- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
  - ii. Compliance certifications shall include the following:
    - (a) An identification of each term or condition of this permit that is the basis of the certification.
    - (b) The permittee's current compliance status.
    - (c) Whether compliance was continuous or intermittent.
    - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
    - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
  - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

### **13. Permit Shield**

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and

conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

#### **14. Operational Flexibility**

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

#### **15. Emergencies**

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

#### **16. Off Permit Changes**

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;
- b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change;

- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

## **17. Compliance Method Requirements**

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

## **18. Insignificant Activity**

Each insignificant activity that has one or more applicable requirements shall comply with those applicable requirements.

## **B. State Only Enforceable Section**

### **1. Permit to Install Requirement**

Prior to the “installation” or “modification” of any “air contaminant source,” as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

### **2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping 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 recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) 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.)

### **3. Records Retention Requirements**

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

### **4. Inspections and Information Requests**

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee

shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

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.

## Part II - Specific Facility Terms and Conditions

### A. State and Federally Enforcable Section

1. This facility is subject to the applicable requirements specified in OAC Chapter 3745-25. In accordance with Ohio EPA Engineering Guide #64, the emission control action programs, as specified in OAC rule 3745-25-03, shall be developed and submitted within 60 days after receiving notification from the Ohio EPA.
2. All asbestos renovation and demolition activities conducted at this facility shall be performed in accordance with the applicable requirements specified in 40 CFR Part 61 and OAC Chapter 3745-20.
3. Emissions units B001, B002 and B003 have not been operated during the past five years. Before these emissions units are granted authorization to operate, the permittee shall conduct, or have conducted, particulate, sulfur dioxide, and visible particulate emission testing for these emissions units to demonstrate compliance with the allowable mass emission rates of 0.20 lb/mmBtu actual heat input, 1.7 lbs/mmBtu actual heat input, and 20% opacity as a 6-minute average (except as provided by rule), respectively. In addition, the permittee shall comply with any applicable State and federal new source review and permitting requirements prior to the activation of these emissions units.

Compliance with allowable mass emission rate for particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 5 or 17 and the procedures in 40 CFR Part 60.46 and OAC rule 3745-17-03(B)(9).

Compliance with allowable mass emission rate for sulfur dioxide shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6 and the procedures in 40 CFR Part 60.46.

Compliance with allowable mass emission rate for visible particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03(B)(1).

The tests shall be conducted while each emissions unit is operating at or near its maximum capacity.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions units operating parameters, the time(s) and date(s) of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA, Northeast District Office's refusal to accept the results of the emission tests.

4. Emissions units K012, K015, K016, K017, K018, K026, K027, K029, Z040 and Z043 have not been operated during the past two years. Before these emissions units are granted authorization to operate, the permittee shall conduct, or have conducted, particulate, volatile organic compounds, and visible particulate emission testing for these emissions units, as applicable, to demonstrate compliance with the below listed allowable mass emission rates. In addition, the permittee shall comply with any applicable State and federal new source review and permitting requirements prior to the activation of these emissions units.

Emissions Unit	Particulate Limit	VOC Limit
K012	0.551 lb/hr	3.5 lbs/gallon, excluding water
K015	not applicable	1.2 lbs/gallon, excluding water
K016	0.73 lb/hr	2.8 lbs/gallon, excluding wate.
K017	2.61 lbs/hr	2.8 lbs/gallon, excluding water
K018	0.78 lb/hr	2.8 lbs/gallon, excluding water
K026	not applicable	3.5 lbs/gallon, excluding water
K027	not applicable	4.49 lbs/gallon, excluding water
Z040	not applicable	no limit
Z043	not applicable	3.5 lbs/gallon, excluding water

The visible particulate emission limit for all of the above emissions units which have a particulate emission limit listed is 20% opacity as a 6-minute average (except as provided by rule).

**A. State and Federally Enforcable Section (continued)**

Compliance with allowable mass emission rate for particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 5 or 17 and the procedures in 40 CFR Part 60.46 and OAC rule 3745-17-03(B)(9).

Compliance with the allowable mass emission rate for VOC shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 24.

Compliance with allowable mass emission rate for visible particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03(B)(1).

The tests shall be conducted while each emissions unit is operating at or near its maximum capacity.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northeast District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions units operating parameters, the time(s) and date(s) of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA, Northeast District Office's refusal to accept the results of the emission tests.

5. Personnel from the Ohio EPA shall be permitted to witness the tests, 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.

A comprehensive written report on the results of the emissions tests shall be signed by the person or persons responsible for the tests and submitted to the Ohio EPA, Northeast District Office within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Northeast District Office.

6. PTI 02-4198, issued on January 25, 1989, limits the annual VOC emissions from emissions units K015, K016, K017, K018 and K019 to 1,793 tons per year.

Said PTI also limits the production of automobiles as follows:

- a. 72 jobs per hour; and
- b. 5,000 hours per year of operation.

It also requires the operation of a VOC incinerator for the bake oven emissions from emissions units K017 and K018. The incinerator shall be operated at all times during the operation of emissions units K017 and K018 and shall achieve a VOC destruction efficiency of at least 90%, by weight, at all times.

**B. State Only Enforceable Section**

1. The following insignificant emissions units are located at this facility:

G002 - Passenger Car new vehicle initial fill-up GDF  
G003 - Van new vehicle initial fill-up GDF  
G004 - Plant Pooled vehicle GDF  
G005 - Van new vehicle initial fill-up diesel fuel dispenser  
P020 - Arc Welding Booth  
P030 - Paint Kitchen  
P032 - Fine Wire Welding Booth  
P033 - E-Coat Scuff Booth  
P034 - Metal Repair & Spot Repair Booth  
P035 - Prime/Guidecoat Scuff Booth  
P036 - Tutone Topcoat Scuff Booth  
R028 - Touch-up Canopy  
T004 - 20,000-gallon Anti-freeze Storage Tank  
T005 - 15,000-gallon Break Fluid Storage Tank  
T006 - 15,000-gallon Paint & Solvent Waste Storage Tank  
T007 - 15,000-gallon Purge Solvent Waste Storage Tank  
T008 - 10,000-gallon Xylene Storage Tank  
T009 - 10,000-gallon Windshield Washer Solvent  
T010 - 10,000-gallon Diesel Fuel Storage Tank  
T011 - 10,000-gallon Diesel Fuel Storage Tank

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a Permit to Install for the emissions unit.

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Gas Fired Boiler (B004)  
**Activity Description:** Gas Fired Boiler - 24.5 MMBtu/hr

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Natural gas-fired steam boiler, having a nominal heat input capacity of 24.5 mmBtu/hr.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.
	OAC rule 3745-31-05 PTI No. 02-7727	Particulate emissions shall not exceed 0.12 lb per hour.
		Carbon monoxide emissions shall not exceed 2.06 lbs per hour.
		Nitrogen oxides emissions shall not exceed 2.94 lbs per hour.
		Sulfur dioxide emissions shall not exceed 0.015 lb per hour.
		Organic compound emissions shall not exceed 0.2 lb per hour.
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-21-08, and 3745-23-06 and 40 CFR Part 60, Subpart Dc.
	See Section A.I.2.a. below.	
	See Section A.I.2.b below.	
	40 CFR Part 60, Subpart Dc	
	OAC rule 3745-17-10(B)	The particulate emission limitation specified in this rule is less stringent than the particulate emission limit established pursuant to OAC rule 3745-31-05.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-53(A)	The sulfur dioxide emission limitation specified in this rule is less stringent than the sulfur dioxide emission limit established pursuant to OAC rule 3745-31-05.
	OAC rule 3745-21-08(B)	See Section A.I.2.c below.
	OAC rule 3745-23-06(B)	See Section A.I.2.c below.

## 2. Additional Terms and Conditions

- 2.a** In accordance with PTI No. 02-7727, issued on Sept. 9, 1993, the combined annual emissions resulting from the operation of emissions units B004-B009 shall not exceed the following limits:

Particulates: 1.6 tons/year  
Carbon Monoxide: 27.3 tons/year  
Nitrogen Oxides: 39.0 tons/year  
Sulfur Dioxide: 0.2 ton/year  
Organic Compounds: 2.6 tons/year

- 2.b** So long as only natural gas fuel is burned, this emissions unit is not subject to the emission limits listed in 40 CFR Part 60, Subpart Dc.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established in PTI No. 02-7727.

## II. Operational Restrictions

1. In accordance with PTI No. 02-7727, only natural gas fuel may be burned in this emissions unit.
2. In accordance with PTI No. 02-7727, the permittee shall limit the annual, combined-total, natural gas usage in emissions units B004-B009 to 650 million cubic feet per rolling 365-day period.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
  - a. the amount of natural gas fired in emissions units B004-B009;
  - b. the total volume of natural gas usage in emissions units B004-B009, combined for the rolling 365-day period; and
  - c. a record of the type and quantity of any fuel, other than natural gas, that is fired in this emissions unit.

#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. any exceedance of the above listed, total natural gas fuel usage limitation for emissions units B004-B009; and
  - b. the burning of any fuel other than natural gas in this emissions unit.

Any such deviations shall be reported to the Ohio EPA Northeast District Office within 30 days of the permittee becoming aware of them.

2. The permittee shall submit annual reports that specify the total particulate, carbon monoxide, nitrogen oxides, organic compound and sulfur dioxide emissions from this emissions unit and emissions units B004-B009, combined, for the previous calendar year. These reports shall be submitted by January 31 of each year.

#### V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

- 1.a Emission Limitation-  
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.

Applicable Compliance Method-

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b Emission Limitation-  
Particulate emissions shall not exceed 0.12 lb/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 1.9 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

- 1.c Emission Limitation-  
Carbon monoxide emissions shall not exceed 2.06 lbs/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 84.0 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

**V. Testing Requirements (continued)**

**1.d** Emission Limitation-  
Nitrogen oxides emissions shall not exceed 2.94 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 100.0 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7.

**1.e** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.015 lb/hr.

Applicable Compliance Method-

Compliance with this emission limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. However, compliance can be determined by multiplying an emission factor of 0.6 lb/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6.

**1.f** Emission Limitation-  
Organic compound emissions shall not exceed 0.2 lb/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 5.5 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 25.

## **V. Testing Requirements (continued)**

### **1.g Emission Limitations-**

The combined annual emissions resulting from the operation of emissions units B004-B009 shall not exceed the following limits:

Particulates: 1.6 tons/year  
Carbon Monoxide: 27.3 tons/year  
Nitrogen Oxides: 39.0 tons/year  
Sulfur Dioxide: 0.2 ton/year  
Organic Compounds: 2.6 tons/year

### **Applicable Compliance Method-**

Compliance shall be determined by multiplying the following emission factors by the annual, combined-total, natural gas usage for B004-B009, in millions of cubic feet, and dividing by 2,000 lbs/ton.

Particulates: 1.9 lbs/mm cu. ft.  
Carbon Monoxide: 84.0 lbs/mm cu. ft.  
Nitrogen Oxides: 100 lbs/mm cu. ft.  
Sulfur Dioxide: 0.6 lb/mm cu. ft.  
Organic Compounds: 5.5 lbs/mm cu. ft.

These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Gas Fired Boiler (B005)  
**Activity Description:** Gas Fired Boiler - 24.5 MMBtu/hr

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Natural gas-fired steam boiler, having a nominal heat input capacity of 24.5 mmBtu/hr.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.
	OAC rule 3745-31-05 PTI No. 02-7727	Particulate emissions shall not exceed 0.12 lb per hour.
	Carbon monoxide emissions shall not exceed 2.06 lbs per hour.	
	Nitrogen oxides emissions shall not exceed 2.94 lbs per hour.	
	Sulfur dioxide emissions shall not exceed 0.015 lb per hour.	
	Organic compound emissions shall not exceed 0.2 lb per hour.	
	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-21-08, and 3745-23-06 and 40 CFR Part 60, Subpart Dc.	
40 CFR Part 60, Subpart Dc	See Section A.I.2.a. below.	
OAC rule 3745-17-10(B)	See Section A.I.2.b below.	
	The particulate emission limitation specified in this rule is less stringent than the particulate emission limit established pursuant to OAC rule 3745-31-05.	

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-53(A)	The sulfur dioxide emission limitation specified in this rule is less stringent than the sulfur dioxide emission limit established pursuant to OAC rule 3745-31-05.
	OAC rule 3745-21-08(B)	See Section A.1.2.c below.
	OAC rule 3745-23-06(B)	See Section A.2.c below.

## 2. Additional Terms and Conditions

- 2.a** In accordance with PTI No. 02-7727, issued on Sept. 9, 1993, the combined annual emissions resulting from the operation of emissions units B004-B009 shall not exceed the following limits:

Particulates: 1.6 tons/year  
Carbon Monoxide: 27.3 tons/year  
Nitrogen Oxides: 39.0 tons/year  
Sulfur Dioxide: 0.2 ton/year  
Organic Compounds: 2.6 tons/year

- 2.b** So long as only natural gas fuel is burned, this emissions unit is not subject to the emission limits listed in 40 CFR Part 60, Subpart Dc.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established in PTI No. 02-7727.

## II. Operational Restrictions

1. In accordance with PTI No. 02-7727, only natural gas fuel may be burned in this emissions unit.
2. In accordance with PTI No. 02-7727, the permittee shall limit the annual, combined-total, natural gas usage in emissions units B004-B009 to 650 million cubic feet per rolling 365-day period.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
  - a. the amount of natural gas fired in emissions units B004-B009;
  - b. the total volume of natural gas usage in emissions units B004-B009, combined for the rolling 365-day period; and
  - c. a record of the type and quantity of any fuel, other than natural gas, that is fired in this emissions unit.

#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. any exceedance of the above listed, total natural gas fuel usage limitation for emissions units B004-B009; and
  - b. the burning of any fuel other than natural gas in this emissions unit.

Any such deviations shall be reported to the Ohio EPA Northeast District Office within 30 days of the permittee becoming aware of them.

2. The permittee shall submit annual reports that specify the total particulate, carbon monoxide, nitrogen oxides, organic compound and sulfur dioxide emissions from this emissions unit and emissions units B004-B009, combined, for the previous calendar year. These reports shall be submitted by January 31 of each year.

#### V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

- 1.a Emission Limitation-  
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.

Applicable Compliance Method-

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b Emission Limitation-  
Particulate emissions shall not exceed 0.12 lb/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 1.9 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

- 1.c Emission Limitation-  
Carbon monoxide emissions shall not exceed 2.06 lbs/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 84.0 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

**V. Testing Requirements (continued)**

**1.d** Emission Limitation-  
Nitrogen oxides emissions shall not exceed 2.94 lbs/hr.

Applicable Compliance Method-  
Compliance shall be determined by multiplying an emission factor of 100.0 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7.

**1.e** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.015 lb/hr.

Applicable Compliance Method-  
Compliance with this emission limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. However, compliance can be determined by multiplying an emission factor of 0.6 lb/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6.

**1.f** Emission Limitation-  
Organic compound emissions shall not exceed 0.2 lb/hr.

Applicable Compliance Method-  
Compliance shall be determined by multiplying an emission factor of 5.5 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 25.

## **V. Testing Requirements (continued)**

### **1.g Emission Limitations-**

The combined annual emissions resulting from the operation of emissions units B004-B009 shall not exceed the following limits:

Particulates: 1.6 tons/year  
Carbon Monoxide: 27.3 tons/year  
Nitrogen Oxides: 39.0 tons/year  
Sulfur Dioxide: 0.2 ton/year  
Organic Compounds: 2.6 tons/year

### **Applicable Compliance Method-**

Compliance shall be determined by multiplying the following emission factors by the annual, combined-total, natural gas usage for B004-B009, in millions of cubic feet, and dividing by 2,000 lbs/ton.

Particulates: 1.9 lbs/mm cu. ft.  
Carbon Monoxide: 84.0 lbs/mm cu. ft.  
Nitrogen Oxides: 100 lbs/mm cu. ft.  
Sulfur Dioxide: 0.6 lb/mm cu. ft.  
Organic Compounds: 5.5 lbs/mm cu. ft.

These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Gas Fired Boiler (B006)  
**Activity Description:** Gas Fired Boiler - 24.5 MMBtu/hr

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Natural gas-fired steam boiler, having a nominal heat input capacity of 24.5 mmBtu/hr.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.
	OAC rule 3745-31-05 PTI No. 02-7727	Particulate emissions shall not exceed 0.12 lb per hour.
		Carbon monoxide emissions shall not exceed 2.06 lbs per hour.
		Nitrogen oxides emissions shall not exceed 2.94 lbs per hour.
		Sulfur dioxide emissions shall not exceed 0.015 lb per hour.
		Organic compound emissions shall not exceed 0.2 lb per hour.
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-21-08, and 3745-23-06 and 40 CFR Part 60, Subpart Dc.
	See Section A.I.2.a. below.	See Section A.I.2.b below.
	40 CFR Part 60, Subpart Dc	
	OAC rule 3745-17-10(B)	The particulate emission limitation specified in this rule is less stringent than the particulate emission limit established pursuant to OAC rule 3745-31-05.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-53(A)	The sulfur dioxide emission limitation specified in this rule is less stringent than the sulfur dioxide emission limit established pursuant to OAC rule 3745-31-05.
	OAC rule 3745-21-08(B)	See Section A.I.2.c below.
	OAC rule 3745-23-06(B)	See Section A.I.2.c below.

## 2. Additional Terms and Conditions

- 2.a** In accordance with PTI No. 02-7727, issued on Sept. 9, 1993, the combined annual emissions resulting from the operation of emissions units B004-B009 shall not exceed the following limits:

Particulates: 1.6 tons/year  
Carbon Monoxide: 27.3 tons/year  
Nitrogen Oxides: 39.0 tons/year  
Sulfur Dioxide: 0.2 ton/year  
Organic Compounds: 2.6 tons/year

- 2.b** So long as only natural gas fuel is burned, this emissions unit is not subject to the emission limits listed in 40 CFR Part 60, Subpart Dc.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established in PTI No. 02-7727.

## II. Operational Restrictions

1. In accordance with PTI No. 02-7727, only natural gas fuel may be burned in this emissions unit.
2. In accordance with PTI No. 02-7727, the permittee shall limit the annual, combined-total, natural gas usage in emissions units B004-B009 to 650 million cubic feet per rolling 365-day period.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
  - a. the amount of natural gas fired in emissions units B004-B009;
  - b. the total volume of natural gas usage in emissions units B004-B009, combined for the rolling 365-day period; and
  - c. a record of the type and quantity of any fuel, other than natural gas, that is fired in this emissions unit.

#### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. any exceedance of the above listed, total natural gas fuel usage limitation for emissions units B004-B009; and
  - b. the burning of any fuel other than natural gas in this emissions unit.

Any such deviations shall be reported to the Ohio EPA Northeast District Office within 30 days of the permittee becoming aware of them.

2. The permittee shall submit annual reports that specify the total particulate, carbon monoxide, nitrogen oxides, organic compound and sulfur dioxide emissions from this emissions unit and emissions units B004-B009, combined, for the previous calendar year. These reports shall be submitted by January 31 of each year.

#### **V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

- 1.a Emission Limitation-  
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.

Applicable Compliance Method-

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b Emission Limitation-  
Particulate emissions shall not exceed 0.12 lb/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 1.9 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

- 1.c Emission Limitation-  
Carbon monoxide emissions shall not exceed 2.06 lbs/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 84.0 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

**V. Testing Requirements (continued)**

**1.d** Emission Limitation-  
Nitrogen oxides emissions shall not exceed 2.94 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 100.0 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7.

**1.e** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.015 lb/hr.

Applicable Compliance Method-

Compliance with this emission limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. However, compliance can be determined by multiplying an emission factor of 0.6 lb/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6.

**1.f** Emission Limitation-  
Organic compound emissions shall not exceed 0.2 lb/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 5.5 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 25.

## **V. Testing Requirements (continued)**

### **1.g Emission Limitations-**

The combined annual emissions resulting from the operation of emissions units B004-B009 shall not exceed the following limits:

Particulates: 1.6 tons/year  
Carbon Monoxide: 27.3 tons/year  
Nitrogen Oxides: 39.0 tons/year  
Sulfur Dioxide: 0.2 ton/year  
Organic Compounds: 2.6 tons/year

### **Applicable Compliance Method-**

Compliance shall be determined by multiplying the following emission factors by the annual, combined-total, natural gas usage for B004-B009, in millions of cubic feet, and dividing by 2,000 lbs/ton.

Particulates: 1.9 lbs/mm cu. ft.  
Carbon Monoxide: 84.0 lbs/mm cu. ft.  
Nitrogen Oxides: 100 lbs/mm cu. ft.  
Sulfur Dioxide: 0.6 lb/mm cu. ft.  
Organic Compounds: 5.5 lbs/mm cu. ft.

These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Gas Fired Boiler (B007)  
**Activity Description:** Gas Fired Boiler - 24.5 MMBtu/hr

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Natural gas-fired steam boiler, having a nominal heat input capacity of 24.5 mmBtu/hr.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.
	OAC rule 3745-31-05 PTI No. 02-7727	Particulate emissions shall not exceed 0.12 lb per hour.
		Carbon monoxide emissions shall not exceed 2.06 lbs per hour.
		Nitrogen oxides emissions shall not exceed 2.94 lbs per hour.
		Sulfur dioxide emissions shall not exceed 0.015 lb per hour.
		Organic compound emissions shall not exceed 0.2 lb per hour.
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-21-08, and 3745-23-06 and 40 CFR Part 60, Subpart Dc.
	See Section A.I.2.a. below.	
	See Section A.I.2.b below.	
	40 CFR Part 60, Subpart Dc	
	OAC rule 3745-17-10(B)	The particulate emission limitation specified in this rule is less stringent than the particulate emission limit established pursuant to OAC rule 3745-31-05.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-53(A)	The sulfur dioxide emission limitation specified in this rule is less stringent than the sulfur dioxide emission limit established pursuant to OAC rule 3745-31-05.
	OAC rule 3745-21-08(B)	See Section A.I.2.c below.
	OAC rule 3745-23-06(B)	See Section A.I.2.c below.

## 2. Additional Terms and Conditions

- 2.a** In accordance with PTI No. 02-7727, issued on Sept. 9, 1993, the combined annual emissions resulting from the operation of emissions units B004-B009 shall not exceed the following limits:

Particulates: 1.6 tons/year  
Carbon Monoxide: 27.3 tons/year  
Nitrogen Oxides: 39.0 tons/year  
Sulfur Dioxide: 0.2 ton/year  
Organic Compounds: 2.6 tons/year

- 2.b** So long as only natural gas fuel is burned, this emissions unit is not subject to the emission limits listed in 40 CFR Part 60, Subpart Dc.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established in PTI No. 02-7727.

## II. Operational Restrictions

1. In accordance with PTI No. 02-7727, only natural gas fuel may be burned in this emissions unit.
2. In accordance with PTI No. 02-7727, the permittee shall limit the annual, combined-total, natural gas usage in emissions units B004-B009 to 650 million cubic feet per rolling 365-day period.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
  - a. the amount of natural gas fired in emissions units B004-B009;
  - b. the total volume of natural gas usage in emissions units B004-B009, combined for the rolling 365-day period; and
  - c. a record of the type and quantity of any fuel, other than natural gas, that is fired in this emissions unit.

#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. any exceedance of the above listed, total natural gas fuel usage limitation for emissions units B004-B009; and
  - b. the burning of any fuel other than natural gas in this emissions unit.

Any such deviations shall be reported to the Ohio EPA Northeast District Office within 30 days of the permittee becoming aware of them.

2. The permittee shall submit annual reports that specify the total particulate, carbon monoxide, nitrogen oxides, organic compound and sulfur dioxide emissions from this emissions unit and emissions units B004-B009, combined, for the previous calendar year. These reports shall be submitted by January 31 of each year.

#### V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

- 1.a Emission Limitation-  
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.

Applicable Compliance Method-

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b Emission Limitation-  
Particulate emissions shall not exceed 0.12 lb/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 1.9 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

- 1.c Emission Limitation-  
Carbon monoxide emissions shall not exceed 2.06 lbs/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 84.0 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

**V. Testing Requirements (continued)**

**1.d** Emission Limitation-  
Nitrogen oxides emissions shall not exceed 2.94 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 100.0 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7.

**1.e** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.015 lb/hr.

Applicable Compliance Method-

Compliance with this emission limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. However, compliance can be determined by multiplying an emission factor of 0.6 lb/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6.

**1.f** Emission Limitation-  
Organic compound emissions shall not exceed 0.2 lb/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 5.5 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 25.

## **V. Testing Requirements (continued)**

### **1.g Emission Limitations-**

The combined annual emissions resulting from the operation of emissions units B004-B009 shall not exceed the following limits:

Particulates: 1.6 tons/year  
Carbon Monoxide: 27.3 tons/year  
Nitrogen Oxides: 39.0 tons/year  
Sulfur Dioxide: 0.2 ton/year  
Organic Compounds: 2.6 tons/year

### **Applicable Compliance Method-**

Compliance shall be determined by multiplying the following emission factors by the annual, combined-total, natural gas usage for B004-B009, in millions of cubic feet, and dividing by 2,000 lbs/ton.

Particulates: 1.9 lbs/mm cu. ft.  
Carbon Monoxide: 84.0 lbs/mm cu. ft.  
Nitrogen Oxides: 100 lbs/mm cu. ft.  
Sulfur Dioxide: 0.6 lb/mm cu. ft.  
Organic Compounds: 5.5 lbs/mm cu. ft.

These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Gas Fired Boiler (B008)  
**Activity Description:** Gas Fired Boiler - 24.5 MMBtu/hr

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Natural gas-fired steam boiler, having a nominal heat input capacity of 24.5 mmBtu/hr.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.
	OAC rule 3745-31-05 PTI No. 02-7727	Particulate emissions shall not exceed 0.12 lb per hour.
		Carbon monoxide emissions shall not exceed 2.06 lbs per hour.
		Nitrogen oxides emissions shall not exceed 2.94 lbs per hour.
		Sulfur dioxide emissions shall not exceed 0.015 lb per hour.
		Organic compound emissions shall not exceed 0.2 lb per hour.
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-21-08, and 3745-23-06 and 40 CFR Part 60, Subpart Dc.
	See Section A.I.2.a. below.	
	See Section A.I.2.b below.	
	40 CFR Part 60, Subpart Dc	
	OAC rule 3745-17-10(B)	The particulate emission limitation specified in this rule is less stringent than the particulate emission limit established pursuant to OAC rule 3745-31-05.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-53(A)	The sulfur dioxide emission limitation specified in this rule is less stringent than the sulfur dioxide emission limit established pursuant to OAC rule 3745-31-05.
	OAC rule 3745-21-08(B)	See Section A.I.2.c below.
	OAC rule 3745-23-06(B)	See Section A.I.2.c below.

## 2. Additional Terms and Conditions

- 2.a** In accordance with PTI No. 02-7727, issued on Sept. 9, 1993, the combined annual emissions resulting from the operation of emissions units B004-B009 shall not exceed the following limits:

Particulates: 1.6 tons/year  
Carbon Monoxide: 27.3 tons/year  
Nitrogen Oxides: 39.0 tons/year  
Sulfur Dioxide: 0.2 ton/year  
Organic Compounds: 2.6 tons/year

- 2.b** So long as only natural gas fuel is burned, this emissions unit is not subject to the emission limits listed in 40 CFR Part 60, Subpart Dc.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established in PTI No. 02-7727.

## II. Operational Restrictions

1. In accordance with PTI No. 02-7727, only natural gas fuel may be burned in this emissions unit.
2. In accordance with PTI No. 02-7727, the permittee shall limit the annual, combined-total, natural gas usage in emissions units B004-B009 to 650 million cubic feet per rolling 365-day period.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
  - a. the amount of natural gas fired in emissions units B004-B009;
  - b. the total volume of natural gas usage in emissions units B004-B009, combined for the rolling 365-day period; and
  - c. a record of the type and quantity of any fuel, other than natural gas, that is fired in this emissions unit.

#### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. any exceedance of the above listed, total natural gas fuel usage limitation for emissions units B004-B009; and
  - b. the burning of any fuel other than natural gas in this emissions unit.

Any such deviations shall be reported to the Ohio EPA Northeast District Office within 30 days of the permittee becoming aware of them.

2. The permittee shall submit annual reports that specify the total particulate, carbon monoxide, nitrogen oxides, organic compound and sulfur dioxide emissions from this emissions unit and emissions units B004-B009, combined, for the previous calendar year. These reports shall be submitted by January 31 of each year.

#### **V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

- 1.a Emission Limitation-  
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.

Applicable Compliance Method-

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b Emission Limitation-  
Particulate emissions shall not exceed 0.12 lb/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 1.9 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

- 1.c Emission Limitation-  
Carbon monoxide emissions shall not exceed 2.06 lbs/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 84.0 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

## V. Testing Requirements (continued)

- 1.d** Emission Limitation-  
Nitrogen oxides emissions shall not exceed 2.94 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 100.0 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7.

- 1.e** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.015 lb/hr.

Applicable Compliance Method-

Compliance with this emission limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. However, compliance can be determined by multiplying an emission factor of 0.6 lb/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6.

- 1.f** Emission Limitation-  
Organic compound emissions shall not exceed 0.2 lb/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 5.5 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 25.

## **V. Testing Requirements (continued)**

### **1.g Emission Limitations-**

The combined annual emissions resulting from the operation of emissions units B004-B009 shall not exceed the following limits:

Particulates: 1.6 tons/year  
Carbon Monoxide: 27.3 tons/year  
Nitrogen Oxides: 39.0 tons/year  
Sulfur Dioxide: 0.2 ton/year  
Organic Compounds: 2.6 tons/year

### **Applicable Compliance Method-**

Compliance shall be determined by multiplying the following emission factors by the annual, combined-total, natural gas usage for B004-B009, in millions of cubic feet, and dividing by 2,000 lbs/ton.

Particulates: 1.9 lbs/mm cu. ft.  
Carbon Monoxide: 84.0 lbs/mm cu. ft.  
Nitrogen Oxides: 100 lbs/mm cu. ft.  
Sulfur Dioxide: 0.6 lb/mm cu. ft.  
Organic Compounds: 5.5 lbs/mm cu. ft.

These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Gas Fired Boiler (B009)  
**Activity Description:** Gas Fired Boiler - 24.5 MMBtu/hr

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Natural gas-fired steam boiler, having a nominal heat input capacity of 24.5 mmBtu/hr.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.
	OAC rule 3745-31-05 PTI No. 02-7727	Particulate emissions shall not exceed 0.12 lb per hour.
		Carbon monoxide emissions shall not exceed 2.06 lbs per hour.
		Nitrogen oxides emissions shall not exceed 2.94 lbs per hour.
		Sulfur dioxide emissions shall not exceed 0.015 lb per hour.
		Organic compound emissions shall not exceed 0.2 lb per hour.
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-21-08, and 3745-23-06 and 40 CFR Part 60, Subpart Dc.
	40 CFR Part 60, Subpart Dc	See Section A.I.2.a. below.
	OAC rule 3745-17-10(B)	See Section A.I.2.b below.
		The particulate emission limitation specified in this rule is less stringent than the particulate emission limit established pursuant to OAC rule 3745-31-05.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-53(A)	The sulfur dioxide emission limitation specified in this rule is less stringent than the sulfur dioxide emission limit established pursuant to OAC rule 3745-31-05.
	OAC rule 3745-21-08(B)	See Section A.I.2.c below.
	OAC rule 3745-23-06(B)	See Section A.I.2.c below.

## 2. Additional Terms and Conditions

- 2.a** In accordance with PTI No. 02-7727, issued on Sept. 9, 1993, the combined annual emissions resulting from the operation of emissions units B004-B009 shall not exceed the following limits:

Particulates: 1.6 tons/year  
Carbon Monoxide: 27.3 tons/year  
Nitrogen Oxides: 39.0 tons/year  
Sulfur Dioxide: 0.2 ton/year  
Organic Compounds: 2.6 tons/year

- 2.b** So long as only natural gas fuel is burned, this emissions unit is not subject to the emission limits listed in 40 CFR Part 60, Subpart Dc.
- 2.c** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established in PTI No. 02-7727.

## II. Operational Restrictions

1. In accordance with PTI No. 02-7727, only natural gas fuel may be burned in this emissions unit.
2. In accordance with PTI No. 02-7727, the permittee shall limit the annual, combined-total, natural gas usage in emissions units B004-B009 to 650 million cubic feet per rolling 365-day period.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
  - a. the amount of natural gas fired in emissions units B004-B009;
  - b. the total volume of natural gas usage in emissions units B004-B009, combined for the rolling 365-day period; and
  - c. a record of the type and quantity of any fuel, other than natural gas, that is fired in this emissions unit.

#### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. any exceedance of the above listed, total natural gas fuel usage limitation for emissions units B004-B009; and
  - b. the burning of any fuel other than natural gas in this emissions unit.

Any such deviations shall be reported to the Ohio EPA Northeast District Office within 30 days of the permittee becoming aware of them.

2. The permittee shall submit annual reports that specify the total particulate, carbon monoxide, nitrogen oxides, organic compound and sulfur dioxide emissions from this emissions unit and emissions units B004-B009, combined, for the previous calendar year. These reports shall be submitted by January 31 of each year.

#### **V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

- 1.a Emission Limitation-  
Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.

Applicable Compliance Method-

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

- 1.b Emission Limitation-  
Particulate emissions shall not exceed 0.12 lb/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 1.9 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

- 1.c Emission Limitation-  
Carbon monoxide emissions shall not exceed 2.06 lbs/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 84.0 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

**V. Testing Requirements (continued)**

**1.d** Emission Limitation-  
Nitrogen oxides emissions shall not exceed 2.94 lbs/hr.

Applicable Compliance Method-  
Compliance shall be determined by multiplying an emission factor of 100.0 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7.

**1.e** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.015 lb/hr.

Applicable Compliance Method-  
Compliance with this emission limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel. However, compliance can be determined by multiplying an emission factor of 0.6 lb/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6.

**1.f** Emission Limitation-  
Organic compound emissions shall not exceed 0.2 lb/hr.

Applicable Compliance Method-  
Compliance shall be determined by multiplying an emission factor of 5.5 lbs/mm cu. ft. by the emissions unit's maximum hourly natural gas firing rate (.0245 mm cu. ft./hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 25.

## **V. Testing Requirements (continued)**

### **1.g Emission Limitations-**

The combined annual emissions resulting from the operation of emissions units B004-B009 shall not exceed the following limits:

Particulates: 1.6 tons/year  
Carbon Monoxide: 27.3 tons/year  
Nitrogen Oxides: 39.0 tons/year  
Sulfur Dioxide: 0.2 ton/year  
Organic Compounds: 2.6 tons/year

### **Applicable Compliance Method-**

Compliance shall be determined by multiplying the following emission factors by the annual, combined-total, natural gas usage for B004-B009, in millions of cubic feet, and dividing by 2,000 lbs/ton.

Particulates: 1.9 lbs/mm cu. ft.  
Carbon Monoxide: 84.0 lbs/mm cu. ft.  
Nitrogen Oxides: 100 lbs/mm cu. ft.  
Sulfur Dioxide: 0.6 lb/mm cu. ft.  
Organic Compounds: 5.5 lbs/mm cu. ft.

These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Diesel Generator (B010)  
**Activity Description:** Diesel Generator - Peaking units, 15.81 MMBtu/hr

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Diesel Engine & Generator Set No. 1. The stationary internal combustion engine's nominal heat input capacity is 15.81 mmBtu/hr and rating is 2,598 HP, the generator's electric power output rating is 1,825 KW.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.
	OAC rule 3745-31-05 PTI No. 02-8386	Carbon monoxide emissions shall not exceed 13.45 lbs per hour.
	Nitrogen oxides emissions shall not exceed 59.18 lbs per hour.	
	Organic compound emissions shall not exceed 1.43 lbs per hour.	
	Particulate emissions shall not exceed 0.98 lb per hour.	
	Sulfur dioxide emissions shall not exceed 7.9 lbs per hour.	
	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-17-11, 3745-18-06, 3745-21-08, and 3745-23-06.	
OAC rule 3745-17-11(B)(5)	See Section A.I.2.a. below.	
	Particulate emissions shall not exceed and 0.062 lb/mmBtu, actual heat input.	
See Section A.I.2.c. below.		

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-06(F)	Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu, actual heat input.
	OAC rule 3745-21-08(B)	See Section A.I.2.b. below.
	OAC rule 3745-23-06(B)	See Section A.I.2.b. below.

## 2. Additional Terms and Conditions

- 2.a** In accordance with PTI No. 02-8386, issued on August 3, 1994, the combined annual emissions resulting from the operation of emissions units B010-B015 shall not exceed the following limits:
- Particulates: 2.61 tons/year  
Carbon Monoxide: 5.9 tons/year  
Nitrogen Oxides: 39.06 tons/year  
Sulfur Dioxide: 5.21 tons/year  
Organic Compounds: 0.61 ton/year
- 2.b** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established in PTI No. 02-8386.
- 2.c** The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

## II. Operational Restrictions

1. In accordance with PTI No. 02-8386, the permittee shall limit the total diesel fuel usage in emissions units B010-B015 combined, to 162,096 gallons per rolling 365-day period.
2. The quality of the diesel fuel burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 lb sulfur dioxide per mmBtu, actual heat input.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
  - a. the amount of diesel fuel fired in this emissions unit;
  - b. the total volume of diesel fuel usage in emissions units B010-B015 combined, for the rolling 365-day period; and
  - c. a record of the type and quantity of any fuel, other than diesel fuel, that is fired in this emissions unit.

### **III. Monitoring and/or Record Keeping Requirements (continued)**

2. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

#### Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier. Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

#### Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)). Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the daily samples during a calendar month.

3. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. any exceedance of the diesel fuel usage limitation for emissions units B010-B015; and
  - b. the burning of any fuel other than diesel fuel in this emissions unit.

Any such deviations shall be reported to the Ohio EPA Northeast District Office within 30 days of the permittee becoming aware of them.

2. The permittee shall submit annual reports that specify the total particulate, carbon monoxide, nitrogen oxides, organic compound and sulfur dioxide emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

### **V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

**V. Testing Requirements (continued)**

**1.a** Emission Limitation-

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.

Applicable Compliance Method-

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

**1.b** Emission Limitation-

Particulate emissions shall not exceed 0.062 lb/mmBtu, actual heat input and 0.98 lb/hr.

Applicable Compliance Method-

Compliance with the hourly limit shall be determined by multiplying an emission factor of 0.062 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81 mmBtu/hr).

The emission factor for total filterable particulate is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

**1.c** Emission Limitation-

Carbon monoxide emissions shall not exceed 13.45 lbs/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 0.85 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

**1.d** Emission Limitation-

Nitrogen oxides emissions shall not exceed 59.18 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 10.3 grams/HP-Hour by the emissions unit's maximum power output rating of 2,598 HP/Hour then multiplying the result by 1.0 Kg/1,000 grams and 2.2 lbs/Kg.

The emission factor is specified by Caterpillar Corp., the engine's manufacturer.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7.

## V. Testing Requirements (continued)

- 1.e** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu, actual heat input, and 7.9 lbs/hr.

Applicable Compliance Method-

Except as provided below, compliance with the allowable sulfur dioxide emission limitation, in lbs/mmBtu, shall be demonstrated by documenting that the sulfur content of each shipment of oil received or each daily sample collected during a calendar month meets the limitation.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis or if the sulfur content of each daily sample collected during a calendar month does not comply with the allowable emission limitation on an "as-burned" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments or daily samples of oil during the calendar month.

Compliance with the hourly emission rate shall be determined by multiplying the calculated sulfur dioxide emission rate in lbs/mmBtu by the emissions unit's maximum hourly heat input rate (15.81mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6.

- 1.f** Emission Limitation-  
Organic compound emissions shall not exceed 1.43 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 0.09 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81 mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 25.

## **V. Testing Requirements (continued)**

### **1.g Emission Limitations-**

The combined annual emissions resulting from the operation of emissions units B010-B015 shall not exceed the following limits:

Particulates: 2.61 tons/year  
Carbon Monoxide: 5.9 tons/year  
Nitrogen Oxides: 39.06 tons/year  
Sulfur Dioxide: 5.21 tons/year  
Organic Compounds: 0.61 ton/year

### **Applicable Compliance Method-**

Compliance shall be determined by multiplying the following emission factors by the annual total, diesel fuel usage for B010-B015 combined, in gallons, times the assumed diesel fuel heat content of 137,030 Btu/gallon, divided by 1.0 million and 2,000 lbs/ton.

Particulates: 0.062 lb/mmBtu  
Carbon Monoxide: 0.85 lb/mmBtu  
Nitrogen Oxides: 3.2 lbs/mmBtu  
Sulfur Dioxide: see below note  
Organic Compounds: 0.09 lb/mmBtu

These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

Note: the sulfur dioxide emission factor, in lbs/mmBtu, shall be calculated using an annual average that is based upon the above diesel fuel record keeping requirements.

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Diesel Generator (B011)  
**Activity Description:** Diesel Generator - Peaking units, 15.81 MMBtu/hr

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Diesel Engine & Generator Set No. 1. The stationary internal combustion engine's nominal heat input capacity is 15.81 mmBtu/hr and rating is 2,598 HP, the generator's electric power output rating is 1,825 KW.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.
	OAC rule 3745-31-05 PTI No. 02-8386	Carbon monoxide emissions shall not exceed 13.45 lbs per hour.
		Nitrogen oxides emissions shall not exceed 59.18 lbs per hour.
		Organic compound emissions shall not exceed 1.43 lbs per hour.
		Particulate emissions shall not exceed 0.98 lb per hour.
		Sulfur dioxide emissions shall not exceed 7.9 lbs per hour.
		The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-17-11, 3745-18-06, 3745-21-08, and 3745-23-06.
OAC rule 3745-17-11(B)(5)	See Section A.I.2.a. below.	Particulate emissions shall not exceed and 0.062 lb/mmBtu, actual heat input.
		See Section A.I.2.c. below.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-06(F)	Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu, actual heat input.
	OAC rule 3745-21-08(B)	See Section A.I.2.b. below.
	OAC rule 3745-23-06(B)	See Section A.I.2.b. below.

## 2. Additional Terms and Conditions

- 2.a** In accordance with PTI No. 02-8386, issued on August 3, 1994, the combined annual emissions resulting from the operation of emissions units B010-B015 shall not exceed the following limits:
- Particulates: 2.61 tons/year  
Carbon Monoxide: 5.9 tons/year  
Nitrogen Oxides: 39.06 tons/year  
Sulfur Dioxide: 5.21 tons/year  
Organic Compounds: 0.61 ton/year
- 2.b** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established in PTI No. 02-8386.
- 2.c** The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

## II. Operational Restrictions

1. In accordance with PTI No. 02-8386, the permittee shall limit the total diesel fuel usage in emissions units B010-B015 combined, to 162,096 gallons per rolling 365-day period.
2. The quality of the diesel fuel burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 lb sulfur dioxide per mmBtu, actual heat input.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
  - a. the amount of diesel fuel fired in this emissions unit;
  - b. the total volume of diesel fuel usage in emissions units B010-B015 combined, for the rolling 365-day period; and
  - c. a record of the type and quantity of any fuel, other than diesel fuel, that is fired in this emissions unit.

### III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

#### Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier. Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

#### Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)). Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the daily samples during a calendar month.

3. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. any exceedance of the diesel fuel usage limitation for emissions units B010-B015; and
  - b. the burning of any fuel other than diesel fuel in this emissions unit.

Any such deviations shall be reported to the Ohio EPA Northeast District Office within 30 days of the permittee becoming aware of them.

2. The permittee shall submit annual reports that specify the total particulate, carbon monoxide, nitrogen oxides, organic compound and sulfur dioxide emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

### V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

**V. Testing Requirements (continued)**

**1.a** Emission Limitation-

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.

Applicable Compliance Method-

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

**1.b** Emission Limitation-

Particulate emissions shall not exceed 0.062 lb/mmBtu, actual heat input and 0.98 lb/hr.

Applicable Compliance Method-

Compliance with the hourly limit shall be determined by multiplying an emission factor of 0.062 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81 mmBtu/hr).

The emission factor for total filterable particulate is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

**1.c** Emission Limitation-

Carbon monoxide emissions shall not exceed 13.45 lbs/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 0.85 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

**1.d** Emission Limitation-

Nitrogen oxides emissions shall not exceed 59.18 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 10.3 grams/HP-Hour by the emissions unit's maximum power output rating of 2,598 HP/Hour then multiplying the result by 1.0 Kg/1,000 grams and 2.2 lbs/Kg.

The emission factor is specified by Caterpillar Corp., the engine's manufacturer.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7.

## V. Testing Requirements (continued)

- 1.e** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu, actual heat input, and 7.9 lbs/hr.

Applicable Compliance Method-

Except as provided below, compliance with the allowable sulfur dioxide emission limitation, in lbs/mmBtu, shall be demonstrated by documenting that the sulfur content of each shipment of oil received or each daily sample collected during a calendar month meets the limitation.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis or if the sulfur content of each daily sample collected during a calendar month does not comply with the allowable emission limitation on an "as-burned" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments or daily samples of oil during the calendar month.

Compliance with the hourly emission rate shall be determined by multiplying the calculated sulfur dioxide emission rate in lbs/mmBtu by the emissions unit's maximum hourly heat input rate (15.81mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6.

- 1.f** Emission Limitation-  
Organic compound emissions shall not exceed 1.43 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 0.09 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81 mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 25.

## **V. Testing Requirements (continued)**

### **1.g Emission Limitations-**

The combined annual emissions resulting from the operation of emissions units B010-B015 shall not exceed the following limits:

Particulates: 2.61 tons/year  
Carbon Monoxide: 5.9 tons/year  
Nitrogen Oxides: 39.06 tons/year  
Sulfur Dioxide: 5.21 tons/year  
Organic Compounds: 0.61 ton/year

#### **Applicable Compliance Method-**

Compliance shall be determined by multiplying the following emission factors by the annual total, diesel fuel usage for B010-B015 combined, in gallons, times the assumed diesel fuel heat content of 137,030 Btu/gallon, divided by 1.0 million and 2,000 lbs/ton.

Particulates: 0.062 lb/mmBtu  
Carbon Monoxide: 0.85 lb/mmBtu  
Nitrogen Oxides: 3.2 lbs/mmBtu  
Sulfur Dioxide: see below note  
Organic Compounds: 0.09 lb/mmBtu

These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

Note: the sulfur dioxide emission factor, in lbs/mmBtu, shall be calculated using an annual average that is based upon the above diesel fuel record keeping requirements.

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Diesel Generator (B012)  
**Activity Description:** Diesel Generator - Peaking units, 15.81 MMBtu/hr

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Diesel Engine & Generator Set No. 1. The stationary internal combustion engine's nominal heat input capacity is 15.81 mmBtu/hr and rating is 2,598 HP, the generator's electric power output rating is 1,825 KW.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.
	OAC rule 3745-31-05 PTI No. 02-8386	Carbon monoxide emissions shall not exceed 13.45 lbs per hour.
	Nitrogen oxides emissions shall not exceed 59.18 lbs per hour.	
	Organic compound emissions shall not exceed 1.43 lbs per hour.	
	Particulate emissions shall not exceed 0.98 lb per hour.	
	Sulfur dioxide emissions shall not exceed 7.9 lbs per hour.	
	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-17-11, 3745-18-06, 3745-21-08, and 3745-23-06.	
OAC rule 3745-17-11(B)(5)	See Section A.I.2.a. below.	
	Particulate emissions shall not exceed and 0.062 lb/mmBtu, actual heat input.	
See Section A.I.2.c. below.		

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-06(F)	Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu, actual heat input.
	OAC rule 3745-21-08(B)	See Section A.I.2.b. below.
	OAC rule 3745-23-06(B)	See Section A.I.2.b. below.

## 2. Additional Terms and Conditions

- 2.a** In accordance with PTI No. 02-8386, issued on August 3, 1994, the combined annual emissions resulting from the operation of emissions units B010-B015 shall not exceed the following limits:
- Particulates: 2.61 tons/year  
Carbon Monoxide: 5.9 tons/year  
Nitrogen Oxides: 39.06 tons/year  
Sulfur Dioxide: 5.21 tons/year  
Organic Compounds: 0.61 ton/year
- 2.b** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established in PTI No. 02-8386.
- 2.c** The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

## II. Operational Restrictions

1. In accordance with PTI No. 02-8386, the permittee shall limit the total diesel fuel usage in emissions units B010-B015 combined, to 162,096 gallons per rolling 365-day period.
2. The quality of the diesel fuel burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 lb sulfur dioxide per mmBtu, actual heat input.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
  - a. the amount of diesel fuel fired in this emissions unit;
  - b. the total volume of diesel fuel usage in emissions units B010-B015 combined, for the rolling 365-day period; and
  - c. a record of the type and quantity of any fuel, other than diesel fuel, that is fired in this emissions unit.

### **III. Monitoring and/or Record Keeping Requirements (continued)**

2. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

#### Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier. Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

#### Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)). Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the daily samples during a calendar month.

3. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. any exceedance of the diesel fuel usage limitation for emissions units B010-B015; and
  - b. the burning of any fuel other than diesel fuel in this emissions unit.

Any such deviations shall be reported to the Ohio EPA Northeast District Office within 30 days of the permittee becoming aware of them.

2. The permittee shall submit annual reports that specify the total particulate, carbon monoxide, nitrogen oxides, organic compound and sulfur dioxide emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

### **V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

**V. Testing Requirements (continued)**

**1.a** Emission Limitation-

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.

Applicable Compliance Method-

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

**1.b** Emission Limitation-

Particulate emissions shall not exceed 0.062 lb/mmBtu, actual heat input and 0.98 lb/hr.

Applicable Compliance Method-

Compliance with the hourly limit shall be determined by multiplying an emission factor of 0.062 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81 mmBtu/hr).

The emission factor for total filterable particulate is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

**1.c** Emission Limitation-

Carbon monoxide emissions shall not exceed 13.45 lbs/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 0.85 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

**1.d** Emission Limitation-

Nitrogen oxides emissions shall not exceed 59.18 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 10.3 grams/HP-Hour by the emissions unit's maximum power output rating of 2,598 HP/Hour then multiplying the result by 1.0 Kg/1,000 grams and 2.2 lbs/Kg.

The emission factor is specified by Caterpillar Corp., the engine's manufacturer.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7.

## V. Testing Requirements (continued)

- 1.e** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu, actual heat input, and 7.9 lbs/hr.

Applicable Compliance Method-

Except as provided below, compliance with the allowable sulfur dioxide emission limitation, in lbs/mmBtu, shall be demonstrated by documenting that the sulfur content of each shipment of oil received or each daily sample collected during a calendar month meets the limitation.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis or if the sulfur content of each daily sample collected during a calendar month does not comply with the allowable emission limitation on an "as-burned" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments or daily samples of oil during the calendar month.

Compliance with the hourly emission rate shall be determined by multiplying the calculated sulfur dioxide emission rate in lbs/mmBtu by the emissions unit's maximum hourly heat input rate (15.81mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6.

- 1.f** Emission Limitation-  
Organic compound emissions shall not exceed 1.43 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 0.09 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81 mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 25.

## **V. Testing Requirements (continued)**

### **1.g Emission Limitations-**

The combined annual emissions resulting from the operation of emissions units B010-B015 shall not exceed the following limits:

Particulates: 2.61 tons/year

Carbon Monoxide: 5.9 tons/year

Nitrogen Oxides: 39.06 tons/year

Sulfur Dioxide: 5.21 tons/year

Organic Compounds: 0.61 ton/year

### **Applicable Compliance Method-**

Compliance shall be determined by multiplying the following emission factors by the annual total, diesel fuel usage for B010-B015 combined, in gallons, times the assumed diesel fuel heat content of 137,030 Btu/gallon, divided by 1.0 million and 2,000 lbs/ton.

Particulates: 0.062 lb/mmBtu

Carbon Monoxide: 0.85 lb/mmBtu

Nitrogen Oxides: 3.2 lbs/mmBtu

Sulfur Dioxide: see below note

Organic Compounds: 0.09 lb/mmBtu

These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

Note: the sulfur dioxide emission factor, in lbs/mmBtu, shall be calculated using an annual average that is based upon the above diesel fuel record keeping requirements.

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Diesel Generator (B013)  
**Activity Description:** Diesel Generator - Peaking units, 15.81 MMBtu/hr

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Diesel Engine & Generator Set No. 1. The stationary internal combustion engine's nominal heat input capacity is 15.81 mmBtu/hr and rating is 2,598 HP, the generator's electric power output rating is 1,825 KW.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.
	OAC rule 3745-31-05 PTI No. 02-8386	Carbon monoxide emissions shall not exceed 13.45 lbs per hour.
	Nitrogen oxides emissions shall not exceed 59.18 lbs per hour.	
	Organic compound emissions shall not exceed 1.43 lbs per hour.	
	Particulate emissions shall not exceed 0.98 lb per hour.	
	Sulfur dioxide emissions shall not exceed 7.9 lbs per hour.	
	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-17-11, 3745-18-06, 3745-21-08, and 3745-23-06.	
OAC rule 3745-17-11(B)(5)	See Section A.I.2.a. below.	
	Particulate emissions shall not exceed and 0.062 lb/mmBtu, actual heat input.	
	See Section A.I.2.c. below.	

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-06(F)	Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu, actual heat input.
	OAC rule 3745-21-08(B)	See Section A.I.2.b. below.
	OAC rule 3745-23-06(B)	See Section A.I.2.b. below.

## 2. Additional Terms and Conditions

- 2.a** In accordance with PTI No. 02-8386, issued on August 3, 1994, the combined annual emissions resulting from the operation of emissions units B010-B015 shall not exceed the following limits:
- Particulates: 2.61 tons/year  
Carbon Monoxide: 5.9 tons/year  
Nitrogen Oxides: 39.06 tons/year  
Sulfur Dioxide: 5.21 tons/year  
Organic Compounds: 0.61 ton/year
- 2.b** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established in PTI No. 02-8386.
- 2.c** The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

## II. Operational Restrictions

1. In accordance with PTI No. 02-8386, the permittee shall limit the total diesel fuel usage in emissions units B010-B015 combined, to 162,096 gallons per rolling 365-day period.
2. The quality of the diesel fuel burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 lb sulfur dioxide per mmBtu, actual heat input.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
  - a. the amount of diesel fuel fired in this emissions unit;
  - b. the total volume of diesel fuel usage in emissions units B010-B015 combined, for the rolling 365-day period; and
  - c. a record of the type and quantity of any fuel, other than diesel fuel, that is fired in this emissions unit.

### **III. Monitoring and/or Record Keeping Requirements (continued)**

2. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

#### Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier. Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

#### Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)). Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the daily samples during a calendar month.

3. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. any exceedance of the diesel fuel usage limitation for emissions units B010-B015; and
  - b. the burning of any fuel other than diesel fuel in this emissions unit.

Any such deviations shall be reported to the Ohio EPA Northeast District Office within 30 days of the permittee becoming aware of them.

2. The permittee shall submit annual reports that specify the total particulate, carbon monoxide, nitrogen oxides, organic compound and sulfur dioxide emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

### **V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

**V. Testing Requirements (continued)**

**1.a** Emission Limitation-

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.

Applicable Compliance Method-

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

**1.b** Emission Limitation-

Particulate emissions shall not exceed 0.062 lb/mmBtu, actual heat input and 0.98 lb/hr.

Applicable Compliance Method-

Compliance with the hourly limit shall be determined by multiplying an emission factor of 0.062 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81 mmBtu/hr).

The emission factor for total filterable particulate is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

**1.c** Emission Limitation-

Carbon monoxide emissions shall not exceed 13.45 lbs/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 0.85 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

**1.d** Emission Limitation-

Nitrogen oxides emissions shall not exceed 59.18 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 10.3 grams/HP-Hour by the emissions unit's maximum power output rating of 2,598 HP/Hour then multiplying the result by 1.0 Kg/1,000 grams and 2.2 lbs/Kg.

The emission factor is specified by Caterpillar Corp., the engine's manufacturer.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7.

## V. Testing Requirements (continued)

- 1.e** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu, actual heat input, and 7.9 lbs/hr.

Applicable Compliance Method-

Except as provided below, compliance with the allowable sulfur dioxide emission limitation, in lbs/mmBtu, shall be demonstrated by documenting that the sulfur content of each shipment of oil received or each daily sample collected during a calendar month meets the limitation.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis or if the sulfur content of each daily sample collected during a calendar month does not comply with the allowable emission limitation on an "as-burned" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments or daily samples of oil during the calendar month.

Compliance with the hourly emission rate shall be determined by multiplying the calculated sulfur dioxide emission rate in lbs/mmBtu by the emissions unit's maximum hourly heat input rate (15.81mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6.

- 1.f** Emission Limitation-  
Organic compound emissions shall not exceed 1.43 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 0.09 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81 mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 25.

## **V. Testing Requirements (continued)**

### **1.g Emission Limitations-**

The combined annual emissions resulting from the operation of emissions units B010-B015 shall not exceed the following limits:

Particulates: 2.61 tons/year  
Carbon Monoxide: 5.9 tons/year  
Nitrogen Oxides: 39.06 tons/year  
Sulfur Dioxide: 5.21 tons/year  
Organic Compounds: 0.61 ton/year

### **Applicable Compliance Method-**

Compliance shall be determined by multiplying the following emission factors by the annual total, diesel fuel usage for B010-B015 combined, in gallons, times the assumed diesel fuel heat content of 137,030 Btu/gallon, divided by 1.0 million and 2,000 lbs/ton.

Particulates: 0.062 lb/mmBtu  
Carbon Monoxide: 0.85 lb/mmBtu  
Nitrogen Oxides: 3.2 lbs/mmBtu  
Sulfur Dioxide: see below note  
Organic Compounds: 0.09 lb/mmBtu

These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

Note: the sulfur dioxide emission factor, in lbs/mmBtu, shall be calculated using an annual average that is based upon the above diesel fuel record keeping requirements.

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Diesel Generator (B014)  
**Activity Description:** Diesel Generator - Peaking units, 15.81 MMBtu/hr

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Diesel Engine & Generator Set No. 1. The stationary internal combustion engine's nominal heat input capacity is 15.81 mmBtu/hr and rating is 2,598 HP, the generator's electric power output rating is 1,825 KW.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.
	OAC rule 3745-31-05 PTI No. 02-8386	Carbon monoxide emissions shall not exceed 13.45 lbs per hour.
	Nitrogen oxides emissions shall not exceed 59.18 lbs per hour.	
	Organic compound emissions shall not exceed 1.43 lbs per hour.	
	Particulate emissions shall not exceed 0.98 lb per hour.	
	Sulfur dioxide emissions shall not exceed 7.9 lbs per hour.	
	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-17-11, 3745-18-06, 3745-21-08, and 3745-23-06.	
OAC rule 3745-17-11(B)(5)	See Section A.I.2.a. below.	
	Particulate emissions shall not exceed and 0.062 lb/mmBtu, actual heat input.	
See Section A.I.2.c. below.		

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-06(F)	Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu, actual heat input.
	OAC rule 3745-21-08(B)	See Section A.I.2.b. below.
	OAC rule 3745-23-06(B)	See Section A.I.2.b. below.

## 2. Additional Terms and Conditions

- 2.a** In accordance with PTI No. 02-8386, issued on August 3, 1994, the combined annual emissions resulting from the operation of emissions units B010-B015 shall not exceed the following limits:
- Particulates: 2.61 tons/year  
Carbon Monoxide: 5.9 tons/year  
Nitrogen Oxides: 39.06 tons/year  
Sulfur Dioxide: 5.21 tons/year  
Organic Compounds: 0.61 ton/year
- 2.b** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established in PTI No. 02-8386.
- 2.c** The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

## II. Operational Restrictions

1. In accordance with PTI No. 02-8386, the permittee shall limit the total diesel fuel usage in emissions units B010-B015 combined, to 162,096 gallons per rolling 365-day period.
2. The quality of the diesel fuel burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 lb sulfur dioxide per mmBtu, actual heat input.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
  - a. the amount of diesel fuel fired in this emissions unit;
  - b. the total volume of diesel fuel usage in emissions units B010-B015 combined, for the rolling 365-day period; and
  - c. a record of the type and quantity of any fuel, other than diesel fuel, that is fired in this emissions unit.

### **III. Monitoring and/or Record Keeping Requirements (continued)**

2. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

#### Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier. Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

#### Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)). Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the daily samples during a calendar month.

3. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

### **IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. any exceedance of the diesel fuel usage limitation for emissions units B010-B015; and
  - b. the burning of any fuel other than diesel fuel in this emissions unit.

Any such deviations shall be reported to the Ohio EPA Northeast District Office within 30 days of the permittee becoming aware of them.

2. The permittee shall submit annual reports that specify the total particulate, carbon monoxide, nitrogen oxides, organic compound and sulfur dioxide emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

### **V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

**V. Testing Requirements (continued)**

**1.a** Emission Limitation-

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.

Applicable Compliance Method-

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

**1.b** Emission Limitation-

Particulate emissions shall not exceed 0.062 lb/mmBtu, actual heat input and 0.98 lb/hr.

Applicable Compliance Method-

Compliance with the hourly limit shall be determined by multiplying an emission factor of 0.062 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81 mmBtu/hr).

The emission factor for total filterable particulate is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

**1.c** Emission Limitation-

Carbon monoxide emissions shall not exceed 13.45 lbs/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 0.85 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

**1.d** Emission Limitation-

Nitrogen oxides emissions shall not exceed 59.18 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 10.3 grams/HP-Hour by the emissions unit's maximum power output rating of 2,598 HP/Hour then multiplying the result by 1.0 Kg/1,000 grams and 2.2 lbs/Kg.

The emission factor is specified by Caterpillar Corp., the engine's manufacturer.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7.

## V. Testing Requirements (continued)

- 1.e** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu, actual heat input, and 7.9 lbs/hr.

Applicable Compliance Method-

Except as provided below, compliance with the allowable sulfur dioxide emission limitation, in lbs/mmBtu, shall be demonstrated by documenting that the sulfur content of each shipment of oil received or each daily sample collected during a calendar month meets the limitation.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis or if the sulfur content of each daily sample collected during a calendar month does not comply with the allowable emission limitation on an "as-burned" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments or daily samples of oil during the calendar month.

Compliance with the hourly emission rate shall be determined by multiplying the calculated sulfur dioxide emission rate in lbs/mmBtu by the emissions unit's maximum hourly heat input rate (15.81mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6.

- 1.f** Emission Limitation-  
Organic compound emissions shall not exceed 1.43 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 0.09 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81 mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 25.

## **V. Testing Requirements (continued)**

### **1.g Emission Limitations-**

The combined annual emissions resulting from the operation of emissions units B010-B015 shall not exceed the following limits:

Particulates: 2.61 tons/year  
Carbon Monoxide: 5.9 tons/year  
Nitrogen Oxides: 39.06 tons/year  
Sulfur Dioxide: 5.21 tons/year  
Organic Compounds: 0.61 ton/year

#### **Applicable Compliance Method-**

Compliance shall be determined by multiplying the following emission factors by the annual total, diesel fuel usage for B010-B015 combined, in gallons, times the assumed diesel fuel heat content of 137,030 Btu/gallon, divided by 1.0 million and 2,000 lbs/ton.

Particulates: 0.062 lb/mmBtu  
Carbon Monoxide: 0.85 lb/mmBtu  
Nitrogen Oxides: 3.2 lbs/mmBtu  
Sulfur Dioxide: see below note  
Organic Compounds: 0.09 lb/mmBtu

These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

Note: the sulfur dioxide emission factor, in lbs/mmBtu, shall be calculated using an annual average that is based upon the above diesel fuel record keeping requirements.

## **VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Diesel Generator (B015)  
**Activity Description:** Diesel Generator - Peaking units, 15.81 MMBtu/hr

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

- The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Diesel Engine & Generator Set No. 1. The stationary internal combustion engine's nominal heat input capacity is 15.81 mmBtu/hr and rating is 2,598 HP, the generator's electric power output rating is 1,825 KW.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.
	OAC rule 3745-31-05 PTI No. 02-8386	Carbon monoxide emissions shall not exceed 13.45 lbs per hour.
	Nitrogen oxides emissions shall not exceed 59.18 lbs per hour.	
	Organic compound emissions shall not exceed 1.43 lbs per hour.	
	Particulate emissions shall not exceed 0.98 lb per hour.	
	Sulfur dioxide emissions shall not exceed 7.9 lbs per hour.	
	The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07, 3745-17-11, 3745-18-06, 3745-21-08, and 3745-23-06.	
OAC rule 3745-17-11(B)(5)	See Section A.I.2.a. below.	
	Particulate emissions shall not exceed and 0.062 lb/mmBtu, actual heat input.	
See Section A.I.2.c. below.		

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-06(F)	Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu, actual heat input.
	OAC rule 3745-21-08(B)	See Section A.I.2.b. below.
	OAC rule 3745-23-06(B)	See Section A.I.2.b. below.

## 2. Additional Terms and Conditions

- 2.a** In accordance with PTI No. 02-8386, issued on August 3, 1994, the combined annual emissions resulting from the operation of emissions units B010-B015 shall not exceed the following limits:
- Particulates: 2.61 tons/year  
Carbon Monoxide: 5.9 tons/year  
Nitrogen Oxides: 39.06 tons/year  
Sulfur Dioxide: 5.21 tons/year  
Organic Compounds: 0.61 ton/year
- 2.b** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively, by committing to comply with the best available technology requirements established in PTI No. 02-8386.
- 2.c** The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

## II. Operational Restrictions

1. In accordance with PTI No. 02-8386, the permittee shall limit the total diesel fuel usage in emissions units B010-B015 combined, to 162,096 gallons per rolling 365-day period.
2. The quality of the diesel fuel burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 lb sulfur dioxide per mmBtu, actual heat input.

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain daily records of the following information:
  - a. the amount of diesel fuel fired in this emissions unit;
  - b. the total volume of diesel fuel usage in emissions units B010-B015 combined, for the rolling 365-day period; and
  - c. a record of the type and quantity of any fuel, other than diesel fuel, that is fired in this emissions unit.

### III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

#### Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) A shipment may be comprised of multiple tank truck loads from the same supplier's batch, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier. Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

#### Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F)). Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the daily samples during a calendar month.

3. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240, D4294, D6010), or equivalent methods as approved by the Director.

### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. any exceedance of the diesel fuel usage limitation for emissions units B010-B015; and
  - b. the burning of any fuel other than diesel fuel in this emissions unit.

Any such deviations shall be reported to the Ohio EPA Northeast District Office within 30 days of the permittee becoming aware of them.

2. The permittee shall submit annual reports that specify the total particulate, carbon monoxide, nitrogen oxides, organic compound and sulfur dioxide emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

### V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I.1 of these terms and conditions shall be determined in accordance with the following method(s):

**V. Testing Requirements (continued)**

**1.a** Emission Limitation-

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average except as provided by rule.

Applicable Compliance Method-

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

**1.b** Emission Limitation-

Particulate emissions shall not exceed 0.062 lb/mmBtu, actual heat input and 0.98 lb/hr.

Applicable Compliance Method-

Compliance with the hourly limit shall be determined by multiplying an emission factor of 0.062 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81 mmBtu/hr).

The emission factor for total filterable particulate is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).

**1.c** Emission Limitation-

Carbon monoxide emissions shall not exceed 13.45 lbs/hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 0.85 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 10.

**1.d** Emission Limitation-

Nitrogen oxides emissions shall not exceed 59.18 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 10.3 grams/HP-Hour by the emissions unit's maximum power output rating of 2,598 HP/Hour then multiplying the result by 1.0 Kg/1,000 grams and 2.2 lbs/Kg.

The emission factor is specified by Caterpillar Corp., the engine's manufacturer.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 7.

## V. Testing Requirements (continued)

- 1.e** Emission Limitation-  
Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu, actual heat input, and 7.9 lbs/hr.

Applicable Compliance Method-

Except as provided below, compliance with the allowable sulfur dioxide emission limitation, in lbs/mmBtu, shall be demonstrated by documenting that the sulfur content of each shipment of oil received or each daily sample collected during a calendar month meets the limitation.

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis or if the sulfur content of each daily sample collected during a calendar month does not comply with the allowable emission limitation on an "as-burned" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments or daily samples of oil during the calendar month.

Compliance with the hourly emission rate shall be determined by multiplying the calculated sulfur dioxide emission rate in lbs/mmBtu by the emissions unit's maximum hourly heat input rate (15.81mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 6.

- 1.f** Emission Limitation-  
Organic compound emissions shall not exceed 1.43 lbs/hr.

Applicable Compliance Method-

Compliance shall be determined by multiplying an emission factor of 0.09 lb/mmBtu by the emissions unit's maximum hourly heat input rate (15.81 mmBtu/hr).

The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 25.

## V. Testing Requirements (continued)

### 1.g Emission Limitations-

The combined annual emissions resulting from the operation of emissions units B010-B015 shall not exceed the following limits:

Particulates: 2.61 tons/year  
Carbon Monoxide: 5.9 tons/year  
Nitrogen Oxides: 39.06 tons/year  
Sulfur Dioxide: 5.21 tons/year  
Organic Compounds: 0.61 ton/year

### Applicable Compliance Method-

Compliance shall be determined by multiplying the following emission factors by the annual total, diesel fuel usage for B010-B015 combined, in gallons, times the assumed diesel fuel heat content of 137,030 Btu/gallon, divided by 1.0 million and 2,000 lbs/ton.

Particulates: 0.062 lb/mmBtu  
Carbon Monoxide: 0.85 lb/mmBtu  
Nitrogen Oxides: 3.2 lbs/mmBtu  
Sulfur Dioxide: see below note  
Organic Compounds: 0.09 lb/mmBtu

These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-1 (10/96).

Note: the sulfur dioxide emission factor, in lbs/mmBtu, shall be calculated using an annual average that is based upon the above diesel fuel record keeping requirements.

## VI. Miscellaneous Requirements

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Final Repair System (K019)

**Activity Description:** Final Repair Line

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Final repair coating line for assembled and coated vehicles, includes a spray booth and IR drying oven.	OAC rule 3745-21-09(C)(1)(d)	4.8 lbs of VOC per gallon of coating, excluding water and exempt solvents.
	OAC rule 3745-17-07	See section A.1.2 below. Visible particulate emissions (PE) shall not exceed 20 percent opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)	0.551 pound PE per hour.

##### 2. Additional Terms and Conditions

2. Part II, Section A.6. lists the common requirements of PTI No. 02-4198 for emissions units K015, K016, K017, K018 and K019, which were employed for passenger car production. Said requirements are not listed herein because emissions units K015, K016, K017 and K018 are not currently in operation (passenger car production has stopped) and emissions unit K019 is currently being used only for final repair for assembled and coated vans, resulting in minimal annual emissions.

##### II. Operational Restrictions

1. The permittee shall operate the spray booth's water wash filtration system whenever this emissions unit is in operation.

##### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month for the line:
  - a. The name and identification number of each coating, as applied.
  - b. The VOC content of each coating (excluding water and exempt solvents), as applied.
2. The permittee shall maintain daily records of the date, duration and reason for any periods during which the spray booth's water wash filtration system was not in service and this emissions unit was in operation.

#### IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
2. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any daily record showing that the spray booth water wash filtration system was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 30 days after the exceedance occurs.

#### V. Testing Requirements

1. USEPA Method 24 shall be used to determine the volatile organic compound contents of the coatings employed.
2. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

- 2.a** Emission Limitation -  
4.8 lbs VOC/gallon coating excluding water and exempt solvents, as a daily volume-weighted average

Applicable Compliance Method -  
Compliance shall be based upon the record keeping specified in Section A.III.1.

- 2.b** Emission Limitation:  
20% opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method:  
U.S.EPA reference method 9, if required by the Ohio EPA.

- 2.c** Emission Limitation:  
0.551 lb PE/hr

Applicable Compliance Method:  
To determine the actual worst case emission rate for particulate emissions, the following equation shall be used:

$$E = \text{maximum coating solids usage rate (in pounds per hour)} \times (1-TE) \times (1-CE)$$

where,

$$E = \text{particulate emissions rate (lb/hr)}$$

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used

CE = control efficiency of the control equipment

#### VI. Miscellaneous Requirements

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Glass Installation System #2 (K028)  
**Activity Description:** Windshield Urethane - Primer Application

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Application station for windshield flange glass adhesion primer coating to assembled vans.	OAC rule 3745-21-09(U)(1)(g)	4.9 lbs VOC per gallon of coating, excluding water and exempt solvents.
	OAC rule 3745-31-05 PTI 02-7091	4.81 lbs VOC per hour, excluding cleanup materials, and 11.3 tons VOC per year.
		See Section A.I.2. below.

##### 2. Additional Terms and Conditions

- 2.a The annual VOC emission limit includes both coating and cleanup material emissions.

##### II. Operational Restrictions

None

##### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month for the line:
  - a. The name and identification number of each coating, as applied.
  - b. The VOC content of each coating, in pounds/gallon and in pounds/gallon excluding water and exempt solvents, as applied.
  - c. The number of gallons of each coating employed.
  - d. The total VOC emission rate for all coatings, in pounds.
  - e. The number of hours the emissions unit was in operation.
  - f. The average hourly calculated VOC emission rate, (d)/(e), in pounds per hour (average).

### III. Monitoring and/or Record Keeping Requirements (continued)

2. The permittee also shall collect and record the following information each month for the line for the purpose of determining annual VOC emissions:
  - a. The name and identification of each cleanup material employed.
  - b. The number of gallons of each cleanup material employed.
  - c. The VOC content of each cleanup material, in pounds per gallon.
  - d. The total VOC emissions from all coatings and cleanup materials, in tons.

### IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any monthly record showing the use of noncomplying coatings (i.e., for VOC content). The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
2. The permittee shall notify the Director (the Ohio EPA Northeast District Office) in writing of any monthly record showing an exceedance of the hourly emission limitation (i.e., lbs/hour VOC). The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA Northeast District Office) within 45 days after the exceedance occurs.
3. The permittee shall submit annual reports that specify the total VOC emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

### V. Testing Requirements

1. USEPA Method 24 shall be used to determine the VOC contents of the coatings employed, and USEPA Method 24 or formulation data shall be used to determine the VOC contents of the cleanup materials employed.
2. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - 2.a Emission Limitation -  
4.9 lbs VOC/gallon coating excluding water and exempt solvents, as a daily volume-weighted average  
  
Applicable Compliance Method -  
Compliance shall be based upon the record keeping specified in Section A.III.1.
  - 2.b Emission Limitation -  
VOC emissions shall not exceed 4.81 lbs/hr and 11.3 tons/year.

Applicable Compliance Method -  
Compliance shall be based upon the record keeping specified in Section A.III.1 and A.III.2.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with 40 CFR Part 60, Appendix A, Method 25.

Compliance with the annual emission limitation shall be determined by summing the total monthly emissions in tons.

### VI. Miscellaneous Requirements

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

### Part III - Terms and Conditions for Emissions Units

**Emissions Unit ID:** Windshield Install Adhesive (K031)

**Activity Description:** Windshield Install Adhesive

#### A. State and Federally Enforceable Section

##### I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Application station for windshield glass adhesive coating onto assembled vans. The coating is applied as a bead and air dried upon windshield installation.	OAC rule 3745-21-09(U)(1)(d)	3.5 lbs VOC per gallon of coating, excluding water and exempt solvents.

##### 2. Additional Terms and Conditions

None

##### II. Operational Restrictions

None

##### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information each month for the line:
  - a. The name and identification number for each coating, as applied.
  - b. The VOC content of each coating, excluding water and exempt solvents, as applied.

##### IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record showing the use of noncomplying coatings. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

##### V. Testing Requirements

1. USEPA Method 24 shall be used to determine the VOC contents of the coatings employed.

**V. Testing Requirements (continued)**

2. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation -

3.5 lbs VOC/gallon coating, excluding water and exempt solvents.

Applicable Compliance Method -

Compliance shall be based upon the record keeping specified in Section A.III.1.

**VI. Miscellaneous Requirements**

**None**

**B. State Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**2. Additional Terms and Conditions**

None

**II. Operational Restrictions**

None

**III. Monitoring and/or Record Keeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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