



State of Ohio Environmental Protection Agency

Street Address:

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P.O. Box 1049  
Columbus, OH 43216-1049

06/08/00

**CERTIFIED MAIL**

**RE: Draft Title V Chapter 3745-77 permit**

14-13-09-0154  
CINCINNATI GAS & ELECTRIC CO., WM. H. ZIMMER  
John F Funke  
Cincinnati Gas & Electric Company  
P. O. Box 960, Room 552 Annex  
Cincinnati, OH 45201

Dear John F Funke:

You are hereby notified that the Ohio Environmental Protection Agency has prepared the enclosed draft of the Title V permit for the facility referenced above. The purpose of this draft is to solicit public comments. A public notice concerning the draft will appear in the Ohio EPA Weekly Review and the major newspaper in the county where the facility is located. Comments and/or a request for a public hearing from the public and any affected parties will be accepted by Hamilton County Dept. of Environmental Services within 30 days of the date of publication in the newspaper. You will be notified in writing if a public hearing is scheduled.

A decision on processing the Title V permit will be made after consideration of written public comments and oral testimony (if a public hearing is conducted). After the comment period, you will be provided with a Preliminary Proposed Title V permit and an opportunity to comment prior to the Proposed Title V permit submittal to USEPA.

**If you have any questions or comments concerning this draft Title V permit, please contact Hamilton County Dept. of Environmental Services.**

Very truly yours,

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

cc: USEPA  
Jim Orlemann, DAPC Engineering  
Michael Ahern, DAPC PMU  
Hamilton County Dept. of Environmental Services  
Indiana  
Kentucky



## Ohio EPA

State of Ohio Environmental Protection Agency

### TITLE V PERMIT

Issue Date: 06/08/00

### DRAFT

Effective Date:

Expiration Date:

This document constitutes issuance to:

CINCINNATI GAS & ELECTRIC CO., WM. H. ZIMMER  
1781 US Route 52  
Moscow, OH 45153-9705

of a Title V permit for Facility ID: 14-13-09-0154

Emissions Unit ID (Company ID)/  
Emissions Unit Activity Description:  
B001 (Emergency Diesel Generator)  
Emergency diesel generator.

B002 (Emergency Diesel Generator)  
Emergency diesel generator

B003 (Emergency Diesel Generator)  
Emergency diesel generator

B006 (Unit 1)  
1426 MW coal fired boiler

B007 (Auxiliary Boiler A)  
Oil fired boiler

B008 (Auxiliary Boiler B)  
Oil fired boiler

F001 (Plant Roads and Parking)  
Plant paved and unpaved roads and parking areas.

F002 (Coal and FGD Storage Piles)  
Coal and FGD storage piles

P901 (Coal Handling System)  
Barge unloading, sampling station, conveyor transfer stations

P902 (Fly Ash Handling System)

Dry fly ash handling - pneumatic conveyors

P903 (Lime Handling System)

Barge unloading, conveyor transfer stations

Y001 (Landfill Parking & Roads)

Landfill Roads & Parking (Facility ID 1413000309, OEPA ID F001)

Y002 (Landfill Operations)

Landfill Operations (Facility ID 1413000309, OEPA ID F002)

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. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

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

Hamilton County Dept. of Environmental Services  
250 William Howard Taft Rd  
Cincinnati, OH 45219-2660  
(513) 651-9437

OHIO ENVIRONMENTAL PROTECTION AGENCY

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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.

## **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 Enforceable 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.

### B. State Only Enforceable Section

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

B005 - Diesel Operated Fire Pump;  
B009 - Diesel Operated Fire Pump;  
B010 - Coal Station #3 Heater;  
B011 - Coal Station #4 Heater;  
B012 - Coal Station #5 Heater;  
B013 - FGD Building Heater;  
B014 - Warehouse #1 Heater;  
B015 - Warehouse #2 Heater;  
G001 - Gasoline Dispensing Facility;  
G002 - Gasoline Dispensing Facility;  
L001 - Maintenance Shop Parts Degreaser;  
P904 - FGD Waste Treatment System;  
T001 - Coal Station #3 Tank;  
T002 - Coal Station #4 Tank;  
T003 - Coal Station #5 Tank;  
T004 - FGD Waste Building Fuel Oil Tank;  
T005 - Ignition Oil Drain Tank;  
T006 - Storage Tank 1-A;  
T007 - Storage Tank 1-B;  
T008 - Storage Tank 1-C;  
T009 - pH Control Tank;  
T010 - Day Tank 1-A;  
T011 - Day Tank 1-B;  
T012 - Day Tank 1-C;  
T013 - Ignition Oil Drain Collector Tank;  
T014 - Ignition Oil #2;  
T015 - Ignition Oil #1;  
T016 - Warehouse 1 and 2 Storage Tanks;  
Z002 - Antifreeze Tank;  
Z004 - Diesel Dispensing Tank;  
Z005 - Used Oil Tank #1;  
Z006 - Used Oil Tank #2; and  
Z007 - Used Oil Tank #3.

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:** Emergency Diesel Generator (B001)  
**Activity Description:** Emergency diesel generator.

#### 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>
Number two fuel oil-fired emergency generator, having a nominal heat input capacity of 38 mmBtu/hr. Emergency Diesel Generator # 1.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% percent opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.35 lb/mmBtu of actual heat input.  See A.I.2.a below.
	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.062 lb/mmBtu of actual heat input.  See A.I.2.b below.
	OAC rule 3745-18-06(D)	Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.

##### 2. Additional Terms and Conditions

- The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/mmBtu of actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- This particulate emission limitation will be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

##### II. Operational Restrictions

- The permittee shall burn only number two fuel oil in this emissions unit.
- The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I. above.

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

1. For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall 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.

The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Hamilton County Department of Environmental Services.

### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify the Director (the Hamilton County Department of Environmental Services) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III. above. The notification shall include a copy of such record and shall be sent to the Director (the Hamilton County Department of Environmental Services) within 45 days after the deviation occurs.

### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:  
Visible particulate emissions shall not exceed 20% percent 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 Limitations:  
Particulate emissions shall not exceed 0.35 lb/mmBtu of actual heat input.

Particulate emissions shall not exceed 0.062 lb/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.062 lb/mmBtu. This emission factor is specified in the U.S. EPA 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 these emission limitations in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

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

- 1.c** Emission Limitation:  
Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.

Applicable Compliance Method:

Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received 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, 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 of oil during the calendar month.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

## **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:** Emergency Diesel Generator (B002)  
**Activity Description:** Emergency diesel generator

#### 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>
Number two fuel oil-fired emergency generator, having a nominal heat input capacity of 38 mmBtu/hr. Emergency Diesel Generator # 2.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% percent opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.35 lb/mmBtu of actual heat input.  See A.I.2.a below.
	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.062 lb/mmBtu of actual heat input.
	OAC rule 3745-18-06(D)	See A.I.2.b below. Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.

##### 2. Additional Terms and Conditions

- The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/mmBtu of actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- This particulate emission limitation will be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

##### II. Operational Restrictions

- The permittee shall burn only number two fuel oil in this emissions unit.
- The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I. above.

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

1. For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall 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.

The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Hamilton County Department of Environmental Services.

### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify the Director (the Hamilton County Department of Environmental Services) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III. above. The notification shall include a copy of such record and shall be sent to the Director (the Hamilton County Department of Environmental Services) within 45 days after the deviation occurs.

### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:  
Visible particulate emissions shall not exceed 20% percent 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 Limitations:  
Particulate emissions shall not exceed 0.35 lb/mmBtu of actual heat input.

Particulate emissions shall not exceed 0.062 lb/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.062 lb/mmBtu. This emission factor is specified in the U.S. EPA 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 these emission limitations in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

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

- 1.c** Emission Limitation:  
Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.

Applicable Compliance Method:

Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received 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, 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 of oil during the calendar month.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

## **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:** Emergency Diesel Generator (B003)  
**Activity Description:** Emergency diesel generator

#### 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>
Number two fuel oil-fired emergency generator, having a nominal heat input capacity of 38 mmBtu/hr. Emergency Diesel Generator # 3.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% percent opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.35 lb/mmBtu of actual heat input.  See A.I.2.a below.
	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions shall not exceed 0.062 lb/mmBtu of actual heat input.
	OAC rule 3745-18-06(D)	See A.I.2.b below. Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.

##### 2. Additional Terms and Conditions

- The requirement to comply with this particulate emission limitation shall terminate on the date the U.S. EPA approves the 0.062 lb/mmBtu of actual heat input emission limitation as a revision to the Ohio SIP for particulate matter.
- This particulate emission limitation will be effective and federally enforceable on the date the U.S. EPA approves this particulate emission limitation as a revision to the Ohio SIP for particulate matter.

##### II. Operational Restrictions

- The permittee shall burn only number two fuel oil in this emissions unit.
- The quality of the oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I. above.

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

1. For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall 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.

The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Hamilton County Department of Environmental Services.

### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify the Director (the Hamilton County Department of Environmental Services) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III. above. The notification shall include a copy of such record and shall be sent to the Director (the Hamilton County Department of Environmental Services) within 45 days after the deviation occurs.

### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:  
Visible particulate emissions shall not exceed 20% percent 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 Limitations:  
Particulate emissions shall not exceed 0.35 lb/mmBtu of actual heat input.

Particulate emissions shall not exceed 0.062 lb/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance shall be based upon an emission factor of 0.062 lb/mmBtu. This emission factor is specified in the U.S. EPA 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 these emission limitations in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

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

- 1.c** Emission Limitation:  
Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.

Applicable Compliance Method:

Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received 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, 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 of oil during the calendar month.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

## **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:** Unit 1 (B006)  
**Activity Description:** 1426 MW coal fired boiler

**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>
Pulverized coal-fired, dry bottom boiler, having a nominal heat input capacity of 11,968 mmBtu/hr and controlled with low nitrogen oxides burners, an electrostatic precipitator (ESP), and a flue gas desulfurization (FGD) system.	OAC rule 3745-31-05(D) PTI 14-1036	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) PTI 14-1036	See A.I.2.c through A.I.2.e below.
	40 CFR Part 60, Subpart Da	The particulate, visible particulate, sulfur dioxide, and nitrogen oxides emission limitations (.03 lb/mmBtu, 20% opacity as a 6-minute average except for one 6-minute period per hour of not more than 27% opacity, 1.20 lbs/mmBtu, .60 lb/mmBtu, respectively) specified in this Subpart are equivalent to or less stringent than the particulate, visible particulate, sulfur dioxide, and nitrogen oxides emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
		The particulate, sulfur dioxide, and nitrogen oxides emission reduction requirements (99%, 90%, and 65%, respectively) specified in this Subpart are equivalent to or less stringent than the particulate, sulfur dioxide, and nitrogen oxides emission reduction requirements established pursuant to OAC rule 3745-31-05(A)(3).

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-17-07(A)	The visible particulate emission limitation specified in this rule (20% opacity as a 6-minute average, except as provided by rule) is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-10(C)	The particulate emission limitation specified in this rule (0.10 lb/mmBtu of actual heat input) is less stringent than the particulate emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-19(A)	The sulfur dioxide emission limitation specified in this rule (3.6 lbs/mmBtu of actual heat input) is less stringent than the sulfur dioxide emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	See A.I.2.f below.
	OAC rule 3745-23-06(C)(3)	The nitrogen oxides emission limitation specified in this rule (0.9 lb/mmBtu of heat input) is less stringent than the nitrogen oxides emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** The permittee shall employ an ESP to control particulate and visible particulate emissions, a magnesium enhanced lime FGD system to control sulfur dioxide emissions, and low nitrogen oxides burners, compartmentalized windboxes, and reduced heat release in the burner zone to control nitrogen oxides emissions.
- 2.b** Sulfur dioxide emissions shall not exceed 1.0 lb/mmBtu, as a 3-hour average.
- 2.c** Particulate emissions shall not exceed 0.025 lb/mmBtu actual heat input, 1,310 tons/yr, and .5% of the potential particulate emissions (99.5% reduction of the particulate emissions).

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.

Sulfur dioxide emissions shall not exceed 0.548 lb/mmBtu actual heat input, 28,726 tons/yr, and 9% of the potential sulfur dioxide emissions (91% reduction of the sulfur dioxide emissions).

Nitrogen oxides emissions shall not exceed 0.60 lb/mmBtu actual heat input, 31,452 tons/yr, and 35% of the potential nitrogen oxides emissions (65% reduction of the nitrogen oxides emissions).

Carbon monoxide emissions shall not exceed 1,406 tons/yr.

Volatile organic compound emissions shall not exceed 84 tons/yr.

## 2. Additional Terms and Conditions (continued)

- 2.d** The emission limitations specified in Sections A.1.2.b and A.1.2.c above shall not apply during periods of start-up and shutdown.

Start-up for this emissions unit is defined as the period beginning with the initial firing of the emissions unit and ending one hour after the establishment of stable coal fire. In no event shall a normal start-up period exceed 4 hours unless, the permittee demonstrates, on a case-by-case basis, to the satisfaction of the Director, that a longer time period is needed. Longer start-up periods may result from equipment problems which prevent the establishment of a stable coal fire in the emissions unit.

Shutdown for this emissions unit is defined as the period after the exhaust gases entering the precipitator have fallen below 250 degrees Fahrenheit. In no event shall the shutdown period exceed 3 hours, unless the permittee demonstrates, to the satisfaction of the Director, that a longer time period is required.

- 2.e** In order to maximize the availability of the FGD system, the permittee shall continue to satisfy the following requirements:
- i. the FGD system shall include one spare scrubber module (the actual number of modules shall exceed the number needed to achieve the required 91% reduction of the sulfur dioxide emissions at the emissions unit's maximum operating capacity);
  - ii. the lime preparation system shall include one spare ball mill slaker;
  - iii. the slurry processing system shall include one spare thickener;
  - iv. the FGD system shall include a spare absorber recirculation pump on each absorber;
  - v. the mist eliminator shall be operated in a manner that maximizes efficiency and minimizes solids buildup;
  - vi. the mist eliminator washing system shall be operated in accordance with the FGD system inspection and maintenance plan;
  - vii. the materials used in associated with the FGD system shall be selected to minimize corrosion and erosion; and
  - viii. the critical FGD system components shall be inspected and maintained in accordance with the inspection and preventative maintenance plan developed for this emissions unit.
- 2.f** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available control technology and best available technology requirements established pursuant to OAC rules 3745-31-05(A)(3) and 3745-31-05(D) in Permit to Install 14-1036.

## II. Operational Restrictions

**None**

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

1. The permittee shall operate and maintain equipment to continuously monitor and record the opacity of the visible particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain a certification letter from the Ohio EPA documenting that the continuous opacity monitoring system has been certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous opacity monitoring system: percent opacity on a 6-minute block average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

2. The permittee shall operate and maintain equipment to continuously monitor and record sulfur dioxide emissions from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain documentation from the Ohio EPA that the continuous sulfur dioxide monitoring system has been certified in accordance with 40 CFR Part 60, Appendix B, Performance Specification 2. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous sulfur dioxide monitoring system: emissions of sulfur dioxide in lb/mmBtu actual heat input on an hourly average basis, emissions of sulfur dioxide in lb/mmBtu actual heat input on a 3-hour average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

3. If the continuous sulfur dioxide monitoring system is not able to meet the minimum data collection requirements specified in 40 CFR Part 60.47a(f), the permittee shall supplement emission data in accordance with the provisions of 40 CFR Part 60.47a(f) or the missing data procedures specified in 40 CFR Part 75.
4. The permittee shall operate and maintain equipment to continuously monitor and record nitrogen oxides emissions from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain documentation from the Ohio EPA that the continuous nitrogen oxides monitoring system has been certified in accordance with 40 CFR Part 60, Appendix B, Performance Specification 2. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous nitrogen oxides monitoring system: emissions of nitrogen oxides in lb/mmBtu actual heat input on an hourly average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

5. The permittee shall operate and maintain equipment to continuously monitor and record the oxygen or carbon dioxide content of the flue gases from this emissions unit at each location where sulfur dioxide or nitrogen oxides emissions are monitored. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

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

6. In order to verify start-up and shutdown periods for this emissions unit, the permittee shall operate and maintain a temperature monitor that measures the temperature of the boiler exhaust gases entering the ESP during all periods of start-up and during all periods of shutdown. An electronic or hardcopy record of the temperatures during periods of start-up and shutdown shall be maintained.

The temperature monitor shall be installed, calibrated, operated, and maintained in accordance with manufacturer's recommendations, with any modifications deemed necessary by the permittee, and shall be capable of accurately measuring the temperature of the boiler exhaust gases in units of degrees Fahrenheit.

7. The permittee shall maintain daily records of the total quantity of coal burned, and the results of the analyses for ash content, sulfur content, and heat content in accordance with the following:

The permittee shall collect daily composite samples of the coal received for this emissions unit. A sufficient number of individual samples shall be collected so that each composite sample is representative of the average quality of coal burned in this emissions unit during each calendar day. The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal.

Each daily composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal). The analytical methods for ash content, sulfur content and heat content shall be the most recent version of: ASTM method D3174, Ash in the Analysis of Coal and Coke; ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isoperibol Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval from the Hamilton County Department of Environmental Services.

8. The permittee also shall maintain the following records:
- a. the daily inlet sulfur dioxide emission rate (based upon the daily coal sampling data), in lb/mmBtu;
  - b. the daily outlet sulfur dioxide emission rate (based upon the hourly data obtained from the continuous sulfur dioxide monitoring system), in lb/mmBtu;
  - c. the daily overall reduction in potential sulfur dioxide emissions (calculated using the values from (a) and (b) above), in percent;
  - d. the daily outlet nitrogen oxides emission rate (based upon the hourly data obtained from the continuous nitrogen oxides monitoring system), in lb/mmBtu;
  - e. the rolling, 30-day average reduction in potential sulfur dioxide emissions, in percent;
  - f. the rolling, 30-day average sulfur dioxide emission rate, in lb/mmBtu; and
  - g. the rolling, 30-day average nitrogen oxides emission rate, in lb/mmBtu.

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

1. The permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the Hamilton County Department of Environmental Services documenting all instances of opacity values in excess of the limitations specified in 40 CFR Part 60.42a(b), detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective action(s) taken (if any) of each 6-minute block average above the applicable opacity limitation.

The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

2. The permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the Hamilton County Department of Environmental Services documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all 3-hour average values and any rolling, 30-day average values in excess of the applicable sulfur dioxide emission limitations (lb/mmBtu), and any rolling, 30-day average values in excess of the applicable reduction in potential sulfur dioxide emissions.

The reports shall also document any continuous sulfur dioxide monitoring system downtime while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

#### **IV. Reporting Requirements (continued)**

3. The permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the Hamilton County Department of Environmental Services documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of any rolling, 30-day average values in excess of the applicable nitrogen oxides emission limitation (lb/mmBtu).

The reports shall also document any continuous nitrogen oxides monitoring system downtime while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

4. The permittee shall submit annual reports which specify the total particulate, sulfur dioxide, nitrogen oxides, carbon monoxide and volatile organic compound 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. The permittee shall conduct, or have conducted, particulate emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate of 0.025 lb/mmBtu actual heat input in accordance with the following requirements:

The particulate emission testing shall be conducted annually during the term of this permit.

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 5B and the procedures in 40 CFR Part 60.48a(b).

The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity.

Compliance with the particulate emission limitation (0.025 lb/mmBtu actual heat input) constitutes compliance with the percent reduction requirement (99.5% reduction of potential particulate emissions) for particulate emissions.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Hamilton County Department of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Hamilton County Department of Environmental Services refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Hamilton County Department of Environmental Services.

## V. Testing Requirements (continued)

2. Compliance with the visible emission limitation in 40 CFR Part 60.42a(b) shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in 40 CFR Part 60.11.
3. The permittee shall conduct, or have conducted, sulfur dioxide emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate of 1.0 lb/mmBtu actual heat input, as a 3-hour average, in accordance with the following requirements:

The sulfur dioxide emission testing shall be conducted annually during the term of this permit.

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 or 6C.

The test(s) shall be conducted while the 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 Hamilton County Department of Environmental Services. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Hamilton County Department of Environmental Services refusal to accept the results of the emission test(s).

Personnel from the Ohio EPA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Hamilton County Department of Environmental Services.

4. Compliance with the sulfur dioxide emission limitation (0.548 lb/mmBtu actual heat input) and the requirement to emit no more than 9% of the potential sulfur dioxide emissions (91% reduction of the sulfur dioxide emissions) shall be determined based upon the records required pursuant to Sections A.III.2 and A.III.8 and the procedures specified in 40 CFR Part 60.48a(c).
5. Compliance with the nitrogen oxides emission limitation (0.60 lb/mmBtu actual heat input) shall be determined based upon the records required pursuant to Sections A.III.4 and A.III.8 and the procedures specified in 40 CFR Part 60.48a(d).

Compliance with the nitrogen oxides emission limitation (0.60 lb/mmBtu actual heat input) constitutes compliance with the percent reduction requirement (65% reduction of potential nitrogen oxides emissions) for nitrogen oxides emissions.

6. Compliance with the annual volatile organic compound emission limitation (84 tons/yr) was established by multiplying an emission factor of 0.0016 lb/mmBtu by the emissions unit's rated heat input capacity (11,968 mmBtu/hr), by 8,760 hrs/yr, and dividing by 2,000 lbs/ton. This emission factor is specified in the U.S. EPA report, "Emissions of Reactive Volatile Organic Compounds From Utility Boilers" (EPA-600/7-80-111).
7. Compliance with the annual carbon monoxide emission limitation (1,406 tons/yr) shall be determined based upon a summation of the daily coal usage records required pursuant to Section A.III.7 and an emission factor of 0.5 lb of carbon monoxide/ton of coal fired. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.1, Table 1.1-3 (10/96).

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

- 8.** The annual particulate emission limitation (1,310 tons/yr) was established by multiplying the short-term particulate emission limitation (0.025 lb/mmBtu) by the emissions unit's rated maximum heat input (11,968 mmBtu/hr) by 8,760 hrs/yr, and dividing by 2,000 lbs/ton. Compliance with the annual particulate emission limitation can be assumed provided that the permittee demonstrates on-going compliance with the short-term particulate emission limitation.
- 9.** The annual sulfur dioxide emission limitation (28,726 tons/yr) was established by multiplying the short-term sulfur dioxide emission limitation (0.548 lb/mmBtu) by the emissions unit's rated maximum heat input (11,968 mmBtu/hr) by 8,760 hrs/yr, and dividing by 2,000 lbs/ton. Compliance with the annual sulfur dioxide emission limitation can be assumed provided that the permittee demonstrates on-going compliance with the short-term sulfur dioxide emission limitation and the sulfur dioxide emission reduction requirement.
- 10.** The annual nitrogen oxides emission limitation (31,452 tons/yr) was established by multiplying the short-term nitrogen oxides emission limitation (0.60 lb/mmBtu) by the emissions unit's rated maximum heat input (11,968 mmBtu/hr) by 8760 hrs/yr, and dividing by 2000 lbs/ton. Compliance with the annual nitrogen oxides emission limitation can be assumed provided that the permittee demonstrates on-going compliance with the short-term nitrogen oxides emission limitation.

## **VI. Miscellaneous Requirements**

- 1.** A logbook documenting activities relating to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.
- 2.** A logbook documenting activities relating to the continuous sulfur dioxide monitoring system must be kept on site and available for inspection during regular office hours.
- 3.** A logbook documenting activities relating to the continuous nitrogen oxides monitoring system must be kept on site and available for inspection during regular office hours.

**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:** Auxiliary Boiler A (B007)  
**Activity Description:** Oil fired boiler

**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>
Number two fuel oil-fired boiler, having a nominal heat input capacity of 603 mmBtu/hr and controlled with low nitrogen oxides burners. Auxiliary Boiler A.	OAC rule 3745-31-05(D) PTI 14-1036	See A.I.2.a below.
	OAC rule 3745-31-05(A)(3) PTI 14-1036 40 CFR Part 60, Subpart Db	See A.I.2.b and A.I.2.c below.  The visible particulate, sulfur dioxide, and nitrogen oxides emission limitations specified in this Subpart (20% opacity as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity, 0.80 lb/mmBtu, and 0.10 lb/mmBtu, respectively) are equivalent to or less stringent than the visible particulate, sulfur dioxide, and nitrogen oxides emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	See A.I.2.d below. The visible particulate emission limitation specified in this rule (20% opacity as a 6-minute average, except as provided by rule) is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed .020 lb/mmBtu of actual heat input.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-06(D)	The sulfur dioxide emission limitation specified in this rule (1.6 lbs/mmBtu actual heat input) is less stringent than the sulfur dioxide emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	See A.I.2.e below.
	OAC rule 3745-23-06(C)(2)	The nitrogen oxides emission limitation specified in this rule (0.30 lb/mmBtu of heat input) is less stringent than the nitrogen oxides emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

**2.a** In order to control particulate, visible particulate, sulfur dioxide, and nitrogen oxides emissions from this emissions unit, the permittee shall only employ number two fuel oil with a sulfur content not to exceed 0.5%, by weight.

**2.b** Particulate emissions shall not exceed 0.02 lb/mmBtu actual heat input and 2.03 tons/yr (the lb/mmBtu particulate emission limitation established pursuant to this rule is less stringent than the particulate emission limitation specified in OAC rule 3745-17-10(B)).

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average.

Sulfur dioxide emissions shall not exceed 0.55 lb/mmBtu actual heat input and 55.7 tons/yr.

Nitrogen oxides emissions shall not exceed 0.10 lb/mmBtu actual heat input and 10.1 tons/yr.

Carbon monoxide emissions shall not exceed 3.8 tons/yr.

Volatile organic compound emissions shall not exceed 0.3 ton/yr.

**2.c** Except as stated in Section A.I.2.d below, the emission limitations specified in Section A.I.2.b above shall not apply during periods of start-up and shutdown.

Start-up for this emissions unit is defined as the period not to exceed one hour, commencing with the initial firing of the emissions unit unless the permittee demonstrates to the satisfaction of the Director that a longer time period is needed.

Shutdown is defined as the one hour period commencing one-half hour before the last burner is turned off.

**2.d** The sulfur dioxide and nitrogen oxides emission limitations specified in 40 CFR Part 60, Subpart Db (0.8 lb/mmBtu and 0.10 lb/mmBtu, respectively) apply at all times, including periods of start-up, shutdown, and malfunction.

**2.e** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08 by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-1036.

## 2. Additional Terms and Conditions (continued)

- 2.f** This emissions unit is only fired with very low sulfur oil, as defined in 40 CFR Part 60.41b. Therefore, pursuant to 40 CFR Part 60.47b(f) and the records required in Section A.III, the permittee is not required to employ a continuous emission monitoring system for the measurement of sulfur dioxide emissions from this emissions unit.
- 2.g** The permittee is not required to employ a continuous emission monitoring system for the measurement of nitrogen oxides emissions from this emissions unit provided that:
- i. this emissions unit is restricted to an annual capacity factor (as defined in 40 CFR Part 60.41b) of 10%, or less;
  - ii. the nitrogen content of the very low sulfur oil fired in this emissions unit does not exceed 0.3%, by weight;
  - iii. the permittee conducts a 3-hour performance test (conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7E, or other approved reference methods) to demonstrate compliance with the applicable nitrogen oxides emission limitation after every 400 hours of emissions unit operation or once per calendar year, whichever comes first;
  - iv. the permittee maintains the following records:
    - . (a) the calendar date for each day that this emissions unit is operated;
    - . (b) the number of hours of operation for each day;
    - . (c) the hourly steam load, in mmBtu; and
  - v. the permittee submits to the Ohio EPA quarterly reports that include the following information:
    - . (a) the annual capacity factor over the previous 12 months, after initial start-up;
    - . (b) the results of any nitrogen oxides emission tests required in the quarter;
    - . (c) the total hours of operation during each month of the quarter; and
    - . (d) the total hours of operation since the last nitrogen oxides emission test.

## II. Operational Restrictions

1. The quality of the oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitations.
2. The sulfur content of the number two fuel oil fired in this emissions unit shall not exceed 0.5%, by weight.
3. The nitrogen content of the number two fuel oil employed in this emissions unit shall not exceed 0.3%, by weight.
4. The combined number two fuel oil usage for this emissions unit and emissions unit B008 shall not exceed 3,360,000 gallons per year.
5. The annual capacity factor (as defined in 40 CFR Part 60.41b) for this emissions unit shall not exceed 10%.
6. This emissions unit shall not be used to provide electric output to the utility power distribution system for sale. This emissions unit is to be used to provide steam during start-up and shutdown conditions, and occasionally for plant heating.

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

1. The permittee shall operate and maintain equipment to continuously monitor and record the opacity of the visible particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain a certification letter from the Ohio EPA documenting that the continuous opacity monitoring system has been certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous opacity monitoring system: percent opacity on a 6-minute block average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content, nitrogen 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.

The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content, nitrogen content, and heat content in accordance with the most recent version of the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; ASTM method D3431 for nitrogen content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Hamilton County Department of Environmental Services.

3. The permittee also shall maintain the following records:
  - a. the calendar date for each day that this emissions unit is operated;
  - b. the number of hours of operation for this emissions unit for each day;
  - c. the hourly steam loads for this emissions unit for each day, in mmBtu/hr;
  - d. the actual monthly heat input rate for this emissions unit, in mmBtu/month;
  - e. the rolling, 12-month average annual capacity factor for this emissions unit, in percent;
  - f. the hours of operation for this emissions unit since the last nitrogen oxides emission test;
  - g. the monthly number two fuel oil usage rate for this emissions unit, in gallons;
  - h. the monthly number two fuel oil usage rate for this emissions unit and emissions unit B008, in gallons; and
  - i. the date, commencement and completion times, and duration of each start-up and shutdown period for this emissions unit.

#### IV. Reporting Requirements

1. The permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the Hamilton County Department of Environmental Services documenting all instances of opacity values in excess of the limitation specified in Section A.I.2.b above, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective action(s) taken (if any) of each 6-minute block average above the applicable opacity limitation.

The reports shall also document any continuous opacity monitoring system downtime while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 30, April 30, July 30 and October 30 of each year and shall address the data obtained during the previous calendar year.

2. The permittee shall notify the Director (the Hamilton County Department of Environmental Services) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III.2 above. The notification shall include a copy of such record and shall be sent to the Director (the Hamilton County Department of Environmental Services) within 45 days after the deviation occurs.
3. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - a. any rolling, 12-month average annual capacity factor values greater than 10%;
  - b. all periods of time when number two fuel oil with a sulfur content greater than 0.5%, by weight, was fired in this emissions unit;
  - c. all periods of time when number two fuel oil with a nitrogen content greater than 0.3%, by weight, was fired in this emissions unit; and
  - d. all start-up and shutdown periods that exceed the durations specified in Section A.I.2.c.

The deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.

4. The permittee also shall submit quarterly summaries that include the following:
  - a. the results of any nitrogen oxides emission tests required in the quarter;
  - b. the total hours of operation for this emissions unit during the quarter; and
  - c. the total hours of operation for this emissions unit since the last nitrogen oxides emission test.

These reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter.

5. The permittee shall submit annual reports that specify the total particulate, sulfur dioxide, nitrogen oxides, carbon monoxide, and volatile organic compound emissions from this emissions unit for the previous calendar year. The reports also shall specify the combined number two fuel oil usage rate (in gallons) for this emissions unit and emissions unit B008 for the previous calendar year. The reports shall be submitted by January 31 of each year.

## V. Testing Requirements

1. Compliance with the applicable emission limitations specified in Section A.I of these terms and conditions shall be determined in accordance with the following methods:

2. Emission Limitation:  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

3. Emission Limitation:  
Particulate emissions shall not exceed .020 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance may be determined by multiplying an emission factor of 2.0 lbs of particulates/1000 gallons of oil fired by the emissions unit's maximum hourly fuel oil firing capacity (4433 gallons/hr) and dividing by the emissions unit's rated heat input capacity (603 mmBtu/hr). This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed 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).

4. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 0.55 lb/mmBtu actual heat input.

Applicable Compliance Method:

Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received 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, 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 of oil during the calendar month.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

5. Emission Limitation:  
Nitrogen oxides emissions shall not exceed 0.10 lb/mmBtu actual heat input.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, nitrogen oxides emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate of 0.10 lb/mmBtu actual heat input in accordance with the following requirements:

The nitrogen oxides emission testing shall be conducted after every 400 hours of operation of this emissions unit or once per calendar year, whichever occurs first.

Compliance with allowable nitrogen oxides emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7E, or other approved reference methods.

The test(s) shall be conducted over a minimum of 3 consecutive emissions unit operating hours while the emissions unit is operating near its maximum heat input capacity.

## V. Testing Requirements (continued)

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

Personnel from the Ohio EPA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Hamilton County Department of Environmental Services.

6. Emission Limitation:  
Particulate emissions shall not exceed 2.03 tons/yr.

Applicable Compliance Method:

Compliance with this emission limitation shall be determined by multiplying the total gallons of number two fuel oil fired in this emissions unit during the calendar year (based upon a summation of the monthly records required pursuant to Section A.III.3.g) by an emission factor of 2.0 lbs of particulates/1000 gallons of oil fired, and dividing by 2000 lbs/ton. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

7. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 55.7 tons/yr.

Applicable Compliance Method:

Compliance with this emission limitation shall be determined by multiplying the total gallons of number two fuel oil fired in this emissions unit during the calendar year (based upon a summation of the monthly records required pursuant to Section A.III.3.g) by an emission factor of 157(S) lbs of sulfur dioxide/1000 gallons of oil fired (where S = the weight percent of sulfur in the fuel oil), and dividing by 2000 lbs/ton. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

8. Emission Limitation:  
Nitrogen oxides emissions shall not exceed 10.1 tons/yr.

Applicable Compliance Method:

Compliance with this emission limitation shall be determined by multiplying the total gallons of number two fuel oil fired in this emissions unit during the calendar year (based upon a summation of the monthly records required pursuant to Section A.III.3.g) by an emission factor of 10.0 lbs of nitrogen oxides/1000 gallons of oil fired, and dividing by 2000 lbs/ton. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

9. Emission Limitation:  
Carbon monoxide emission shall not exceed 3.8 tons/yr.

Applicable Compliance Method:

Compliance with this emission limitation shall be determined by multiplying the total gallons of number two fuel oil fired in this emissions unit during the calendar year (based upon a summation of the monthly records required pursuant to Section A.III.3.g) by an emission factor of 5.0 lbs of carbon monoxide/1000 gallons of oil fired, and dividing by 2000 lbs/ton. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

**V. Testing Requirements (continued)**

- 10.** Emission Limitation:  
Volatile organic compound emissions shall not exceed 0.3 ton/yr.

Applicable Compliance Method:

Compliance with this emission limitation shall be determined by multiplying the total gallons of number two fuel oil fired in this emissions unit during the calendar year (based upon a summation of the monthly records required pursuant to Section A.III.3.g) by an emission factor of 0.2 lb of nonmethane organic compounds/1000 gallons of oil fired, and dividing by 2000 lbs/ton. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-3 (9/98).

**VI. Miscellaneous Requirements**

- 1.** A logbook documenting activities relating to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

**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:** Auxiliary Boiler B (B008)  
**Activity Description:** Oil fired boiler

**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>
Number two fuel oil-fired boiler, having a nominal heat input capacity of 603 mmBtu/hr and controlled with low nitrogen oxides burners. Auxiliary Boiler B.	OAC rule 3745-31-05(D) PTI 14-1036	See A.I.2.a below.
	OAC rule 3745-31-05(A)(3) PTI 14-1036 40 CFR Part 60, Subpart Db	See A.I.2.b and A.I.2.c below.  The visible particulate, sulfur dioxide, and nitrogen oxides emission limitations specified in this Subpart (20% opacity as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity, 0.80 lb/mmBtu, and 0.10 lb/mmBtu, respectively) are equivalent to or less stringent than the visible particulate, sulfur dioxide, and nitrogen oxides emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	See A.I.2.d below. The visible particulate emission limitation specified in this rule (20% opacity as a 6-minute average, except as provided by rule) is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed .020 lb/mmBtu of actual heat input.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-18-06(D)	The sulfur dioxide emission limitation specified in this rule (1.6 lbs/mmBtu actual heat input) is less stringent than the sulfur dioxide emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	See A.I.2.e below.
	OAC rule 3745-23-06(C)(2)	The nitrogen oxides emission limitation specified in this rule (0.30 lb/mmBtu of heat input) is less stringent than the nitrogen oxides emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

**2.a** In order to control particulate, visible particulate, sulfur dioxide, and nitrogen oxides emissions from this emissions unit, the permittee shall only employ number two fuel oil with a sulfur content not to exceed 0.5%, by weight.

**2.b** Particulate emissions shall not exceed 0.02 lb/mmBtu actual heat input and 2.03 tons/yr (the lb/mmBtu particulate emission limitation established pursuant to this rule is less stringent than the particulate emission limitation specified in OAC rule 3745-17-10(B)).

Visible particulate emissions shall not exceed 20% opacity as a 6-minute average.

Sulfur dioxide emissions shall not exceed 0.55 lb/mmBtu actual heat input and 55.7 tons/yr.

Nitrogen oxides emissions shall not exceed 0.10 lb/mmBtu actual heat input and 10.1 tons/yr.

Carbon monoxide emissions shall not exceed 3.8 tons/yr.

Volatile organic compound emissions shall not exceed 0.3 ton/yr.

**2.c** Except as stated in Section A.I.2.d below, the emission limitations specified in Section A.I.2.b above shall not apply during periods of start-up and shutdown.

Start-up for this emissions unit is defined as the period not to exceed one hour, commencing with the initial firing of the emissions unit unless the permittee demonstrates to the satisfaction of the Director that a longer time period is needed.

Shutdown is defined as the one hour period commencing one-half hour before the last burner is turned off.

**2.d** The sulfur dioxide and nitrogen oxides emission limitations specified in 40 CFR Part 60, Subpart Db (0.8 lb/mmBtu and 0.10 lb/mmBtu, respectively) apply at all times, including periods of start-up, shutdown, and malfunction.

**2.e** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08 by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-1036.

## 2. Additional Terms and Conditions (continued)

- 2.f** This emissions unit is only fired with very low sulfur oil, as defined in 40 CFR Part 60.41b. Therefore, pursuant to 40 CFR Part 60.47b(f) and the records required in Section A.III, the permittee is not required to employ a continuous emission monitoring system for the measurement of sulfur dioxide emissions from this emissions unit.
- 2.g** The permittee is not required to employ a continuous emission monitoring system for the measurement of nitrogen oxides emissions from this emissions unit provided that:
- i. this emissions unit is restricted to an annual capacity factor (as defined in 40 CFR Part 60.41b) of 10%, or less;
  - ii. the nitrogen content of the very low sulfur oil fired in this emissions unit does not exceed 0.3%, by weight;
  - iii. the permittee conducts a 3-hour performance test (conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7E, or other approved reference methods) to demonstrate compliance with the applicable nitrogen oxides emission limitation after every 400 hours of emissions unit operation or once per calendar year, whichever comes first;
  - iv. the permittee maintains the following records:
    - . (a) the calendar date for each day that this emissions unit is operated;
    - . (b) the number of hours of operation for each day;
    - . (c) the hourly steam load, in mmBtu; and
  - v. the permittee submits to the Ohio EPA quarterly reports that include the following information:
    - . (a) the annual capacity factor over the previous 12 months, after initial start-up;
    - . (b) the results of any nitrogen oxides emission tests required in the quarter;
    - . (c) the total hours of operation during each month of the quarter; and
    - . (d) the total hours of operation since the last nitrogen oxides emission test.

## II. Operational Restrictions

1. The quality of the oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitations.
2. The sulfur content of the number two fuel oil fired in this emissions unit shall not exceed 0.5%, by weight.
3. The nitrogen content of the number two fuel oil employed in this emissions unit shall not exceed 0.3%, by weight.
4. The combined number two fuel oil usage for this emissions unit and emissions unit B008 shall not exceed 3,360,000 gallons per year.
5. The annual capacity factor (as defined in 40 CFR Part 60.41b) for this emissions unit shall not exceed 10%.
6. This emissions unit shall not be used to provide electric output to the utility power distribution system for sale. This emissions unit is to be used to provide steam during start-up and shutdown conditions, and occasionally for plant heating.

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

1. The permittee shall operate and maintain equipment to continuously monitor and record the opacity of the visible particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain a certification letter from the Ohio EPA documenting that the continuous opacity monitoring system has been certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous opacity monitoring system: percent opacity on a 6-minute block average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content, nitrogen 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.

The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analyses for sulfur content, nitrogen content, and heat content in accordance with the most recent version of the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; ASTM method D3431 for nitrogen content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Hamilton County Department of Environmental Services.

3. The permittee also shall maintain the following records:
  - a. the calendar date for each day that this emissions unit is operated;
  - b. the number of hours of operation for this emissions unit for each day;
  - c. the hourly steam loads for this emissions unit for each day, in mmBtu/hr;
  - d. the actual monthly heat input rate for this emissions unit, in mmBtu/month;
  - e. the rolling, 12-month average annual capacity factor for this emissions unit, in percent;
  - f. the hours of operation for this emissions unit since the last nitrogen oxides emission test;
  - g. the monthly number two fuel oil usage rate for this emissions unit, in gallons;
  - h. the monthly number two fuel oil usage rate for this emissions unit and emissions unit B008, in gallons; and
  - i. the date, commencement and completion times, and duration of each start-up and shutdown period for this emissions unit.

#### IV. Reporting Requirements

1. The permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the Hamilton County Department of Environmental Services documenting all instances of opacity values in excess of the limitation specified in Section A.I.2.b above, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective action(s) taken (if any) of each 6-minute block average above the applicable opacity limitation.

The reports shall also document any continuous opacity monitoring system downtime while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 30, April 30, July 30 and October 30 of each year and shall address the data obtained during the previous calendar year.

2. The permittee shall notify the Director (the Hamilton County Department of Environmental Services) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III.2 above. The notification shall include a copy of such record and shall be sent to the Director (the Hamilton County Department of Environmental Services) within 45 days after the deviation occurs.
3. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
  - a. any rolling, 12-month average annual capacity factor values greater than 10%;
  - b. all periods of time when number two fuel oil with a sulfur content greater than 0.5%, by weight, was fired in this emissions unit;
  - c. all periods of time when number two fuel oil with a nitrogen content greater than 0.3%, by weight, was fired in this emissions unit; and
  - d. all start-up and shutdown periods that exceed the durations specified in Section A.I.2.c.

The deviation reports shall be submitted in accordance with the General Terms and Conditions of this permit.

4. The permittee also shall submit quarterly summaries that include the following:
  - a. the results of any nitrogen oxides emission tests required in the quarter;
  - b. the total hours of operation for this emissions unit during the quarter; and
  - c. the total hours of operation for this emissions unit since the last nitrogen oxides emission test.

These reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarter.

5. The permittee shall submit annual reports that specify the total particulate, sulfur dioxide, nitrogen oxides, carbon monoxide, and volatile organic compound emissions from this emissions unit for the previous calendar year. The reports also shall specify the combined number two fuel oil usage rate (in gallons) for this emissions unit and emissions unit B008 for the previous calendar year. The reports shall be submitted by January 31 of each year.

## V. Testing Requirements

1. Compliance with the applicable emission limitations specified in Section A.I of these terms and conditions shall be determined in accordance with the following methods:

2. Emission Limitation:  
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

3. Emission Limitation:  
Particulate emissions shall not exceed .020 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance may be determined by multiplying an emission factor of 2.0 lbs of particulates/1000 gallons of oil fired by the emissions unit's maximum hourly fuel oil firing capacity (4433 gallons/hr) and dividing by the emissions unit's rated heat input capacity (603 mmBtu/hr). This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed 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).

4. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 0.55 lb/mmBtu actual heat input.

Applicable Compliance Method:

Except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received 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, 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 of oil during the calendar month.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

5. Emission Limitation:  
Nitrogen oxides emissions shall not exceed 0.10 lb/mmBtu actual heat input.

Applicable Compliance Method:

The permittee shall conduct, or have conducted, nitrogen oxides emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate of 0.10 lb/mmBtu actual heat input in accordance with the following requirements:

The nitrogen oxides emission testing shall be conducted after every 400 hours of operation of this emissions unit or once per calendar year, whichever occurs first.

Compliance with allowable nitrogen oxides emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7E, or other approved reference methods.

The test(s) shall be conducted over a minimum of 3 consecutive emissions unit operating hours while the emissions unit is operating near its maximum heat input capacity.

## V. Testing Requirements (continued)

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

Personnel from the Ohio EPA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Hamilton County Department of Environmental Services within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Hamilton County Department of Environmental Services.

6. Emission Limitation:  
Particulate emissions shall not exceed 2.03 tons/yr.

Applicable Compliance Method:

Compliance with this emission limitation shall be determined by multiplying the total gallons of number two fuel oil fired in this emissions unit during the calendar year (based upon a summation of the monthly records required pursuant to Section A.III.3.g) by an emission factor of 2.0 lbs of particulates/1000 gallons of oil fired, and dividing by 2000 lbs/ton. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

7. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 55.7 tons/yr.

Applicable Compliance Method:

Compliance with this emission limitation shall be determined by multiplying the total gallons of number two fuel oil fired in this emissions unit during the calendar year (based upon a summation of the monthly records required pursuant to Section A.III.3.g) by an emission factor of 157(S) lbs of sulfur dioxide/1000 gallons of oil fired (where S = the weight percent of sulfur in the fuel oil), and dividing by 2000 lbs/ton. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

8. Emission Limitation:  
Nitrogen oxides emissions shall not exceed 10.1 tons/yr.

Applicable Compliance Method:

Compliance with this emission limitation shall be determined by multiplying the total gallons of number two fuel oil fired in this emissions unit during the calendar year (based upon a summation of the monthly records required pursuant to Section A.III.3.g) by an emission factor of 10.0 lbs of nitrogen oxides/1000 gallons of oil fired, and dividing by 2000 lbs/ton. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

9. Emission Limitation:  
Carbon monoxide emission shall not exceed 3.8 tons/yr.

Applicable Compliance Method:

Compliance with this emission limitation shall be determined by multiplying the total gallons of number two fuel oil fired in this emissions unit during the calendar year (based upon a summation of the monthly records required pursuant to Section A.III.3.g) by an emission factor of 5.0 lbs of carbon monoxide/1000 gallons of oil fired, and dividing by 2000 lbs/ton. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

**V. Testing Requirements (continued)**

- 10.** Emission Limitation:  
Volatile organic compound emissions shall not exceed 0.3 ton/yr.

Applicable Compliance Method:

Compliance with this emission limitation shall be determined by multiplying the total gallons of number two fuel oil fired in this emissions unit during the calendar year (based upon a summation of the monthly records required pursuant to Section A.III.3.g) by an emission factor of 0.2 lb of nonmethane organic compounds/1000 gallons of oil fired, and dividing by 2000 lbs/ton. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-3 (9/98).

**VI. Miscellaneous Requirements**

- 1.** A logbook documenting activities relating to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

**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:** Plant Roads and Parking (F001)

**Activity Description:** Plant paved and unpaved roads and parking areas.

#### 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>
paved roadways and parking areas (see Section A.I.2.a)	OAC rule 3745-31-05(D)	See A.I.2.c below.
	OAC rule 3745-31-05(A)(3)	Visible fugitive particulate emissions shall not exceed 5% opacity as a 3-minute average.  The control measures established pursuant to OAC rule 3745-31-05(D) are equivalent to or more stringent than the control measure that would have been established pursuant to this rule.
unpaved roadways and parking areas (see Section A.I.2.b)	OAC rule 3745-31-05(D)	See A.I.2.c below.
	OAC rule 3745-31-05(A)(3)	No visible particulate emissions except for 13 minutes during any 60-minute period.  Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.c through A.I.2.f).

##### 2. Additional Terms and Conditions

- 2.a The paved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

paved roadways:  
 all paved roadways at the facility  
 paved parking areas:  
 all paved parking areas at the facility

## 2. Additional Terms and Conditions (continued)

**2.b** The unpaved roadways and parking areas that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

unpaved roadways:  
all unpaved roadways at the facility  
unpaved parking areas:  
all unpaved parking areas at the facility

**2.c** The best available control technology determination established the following requirements for the fugitive particulate emissions from this emissions unit:

- i. the paved roadways and parking areas shall periodically be flushed with water;
- ii. the unpaved roadways and parking areas shall periodically be treated with water or dust suppressants;
- iii. the vehicles using the roadways shall limit their speed to no more than 20 miles per hour;
- iv. all trucks hauling materials which have the potential for generating fugitive dust shall be covered;
- v. all spills shall be promptly cleaned up; and
- vi. a wheel water washing system shall be employed for the haul vehicles using the roadways.

**2.d** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.

**2.e** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.

**2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

## II. Operational Restrictions

None

## III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:

paved roadways and parking areas:  
each section or segment of each paved roadway and parking area at the facility  
minimum inspection frequency:  
daily, when in use  
unpaved roadways and parking areas:  
each section or segment of each unpaved roadway and parking area at the facility  
minimum inspection frequency:  
daily, when in use

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

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and (C)(3) of OAC rule 3745-77-08.
4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

### **IV. Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

### **V. Testing Requirements**

1. Compliance with the emission limitation for the paved roadways and parking areas identified above shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
2. Compliance with the emission limitation for the unpaved roadways and parking areas identified above shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

### **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>
paved roadways and parking areas (see Section A.1.2.a)	none	none
unpaved roadways and parking areas (see Section A.1.2.b)	none	none

**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

1. If there are no deviations during a calendar quarter that must be reported pursuant to the reporting requirements of this permit, the permittee shall submit a quarterly report, in accordance with paragraph B.8 of the General Terms and Conditions of this permit, which states that no deviations occurred during that quarter.

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

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

**Emissions Unit ID:** Coal and FGD Storage Piles (F002)  
**Activity Description:** Coal and FGD storage piles

#### 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>
Coal and flue gas desulfurization (FGD) waste storage piles.	OAC rule 3745-31-05(D) PTI 14-1036	See A.I.2.a through A.I.2.d below.
	OAC rule 3745-31-05(A)(3) PTI 14-1036	Visible fugitive particulate emissions shall not exceed 5% opacity, as a 3-minute average.  The control measures to minimize or eliminate visible emissions of fugitive dust required by this rule are equivalent to or less stringent than the control measures required pursuant to OAC rule 3745-31-05(D).

##### 2. Additional Terms and Conditions

- 2.a The permittee shall periodically spray the coal and FGD waste storage piles with water to minimize or eliminate visible emissions of fugitive dust.
- 2.b The above-mentioned control measure shall be employed for each coal load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure is necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure shall continue during any such operation until further observation confirms that use of the measure is unnecessary.
- 2.c The above-mentioned control measure shall be employed for each pile working operation and wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure is necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure shall not be necessary for a coal storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.d Implementation of the above-mentioned control measure in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

## II. Operational Restrictions

None

## III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each coal and FGD waste load-in operation at each coal and FGD waste storage pile in accordance with the following frequencies  
  
coal and FGD waste storage pile identification:  
all coal and FGD waste storage piles at the facility  
minimum coal and FGD waste load-in inspection frequency:  
daily, when in use
2. Except as otherwise provided in this section, the permittee shall perform inspections of each coal and FGD waste load-out operation at each coal and FGD waste storage pile in accordance with the following frequencies:  
  
coal and FGD waste storage pile identification:  
all coal and FGD waste storage piles at the facility  
minimum coal and FGD waste load-out inspection frequency:  
daily, when in use
3. Except as otherwise provided in this section, the permittee shall perform inspections of each pile working operation associated with each coal and FGD waste storage pile in accordance with the following frequencies:  
  
coal and FGD waste storage pile identification:  
all coal and FGD waste storage piles at the facility  
minimum coal and FGD waste pile working inspection frequency:  
daily, when in use
4. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each coal and FGD waste storage pile in accordance with the following frequencies:  
  
coal and FGD waste storage pile identification:  
all coal and FGD waste storage piles at the facility  
minimum wind erosion inspection frequency:  
daily
5. No inspection shall be necessary for wind erosion from the surface of a pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
6. The purpose of the inspections is to determine the need for implementing the control measure specified in this permit for coal and FGD waste load-in or load-out of a storage pile, pile working operations, and wind erosion from the surface of a coal or FGD waste storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
7. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and (C)(3) of OAC rule 3745-77-08.

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

8. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure;
  - c. the dates the control measure was implemented; and
  - d. on a calendar quarter basis, the total number of days the control measure was implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure.

The information required in 8.d. shall be kept separately for (i) the coal and FGD waste load-in operations, (ii) the coal and FGD waste load-out operations, (iii) the coal and FGD waste pile working operations, and (iv) the coal and FGD waste pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

### IV. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

### V. Testing Requirements

1. Compliance with the emission limitation in Section A.I of these terms and conditions shall be determined in accordance with the following method:
  - 1.a Emission Limitation:  
Visible fugitive particulate emissions shall not exceed 5% opacity, as a 3-minute average.

Applicable Compliance Method:

Compliance with this emission limitation shall be demonstrated through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a), (B)(3)(b), and (B)(3)(e) of OAC rule 3745-17-03.

### VI. Miscellaneous Requirements

**None**

**B. State 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>
Coal and flue gas desulfurization (FGD) waste storage piles.	none	none

**2. Additional Terms and Conditions**

**None**

**II. Operational Restrictions**

**None**

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

**None**

**IV. Reporting Requirements**

- If there are no deviations during a calendar quarter that must be reported pursuant to the reporting requirements of this permit, the permittee shall submit a quarterly report, in accordance with paragraph B.8 of the General Terms and Conditions of this permit, which states that no deviations occurred during that quarter.

**V. Testing Requirements**

**None**

**VI. Miscellaneous Requirements**

**None**

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

**Emissions Unit ID:** Coal Handling System (P901)

**Activity Description:** Barge unloading, sampling station, conveyor transfer stations

#### 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>
Coal handling system controlled with filter/baghouses which includes the following:	OAC rule 3745-31-05(D) PTI 14-1036	See A.I.2.a and A.I.2.b below.
barge unloading station; sampling station; conveyor transfer station; silos; crusher stations; and belt conveyors.	OAC rule 3745-31-05(A)(3) PTI 14-1036	Particulate emissions shall not exceed 0.03 grain/dry standard cubic foot from each of the control devices serving this emissions unit.
		Visible particulate emissions from the stacks of the control devices serving this emissions unit shall not exceed 10% opacity as a 6-minute average.
		The control measures to minimize or eliminate visible emissions of fugitive dust required by this rule are equivalent to or less stringent than the control measures required pursuant to OAC rule 3745-31-05(D)
		Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	40 CFR Part 60, Subpart Y	The visible particulate emission limitation specified in this rule (20% opacity as a 6-minute average) is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	The visible particulate emission limitation specified in this rule (20% opacity as a 6-minute average, except as provided by rule) is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The particulate emission limitation specified in this rule is less stringent than the particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** In accordance with the best available control technology determination established pursuant to OAC rule 3745-31-05(D), the permittee shall employ the following control measures for this emissions unit:
- i. the barge unloading station shall be equipped with water sprays with a chemical proportioner along with aluminum hoods, skirtboards, rubber sealing strips, and rubber curtains at the bucket elevator barge unloader;
  - ii. all belt conveyors shall be enclosed in pipe tubes or with sheet metal coverings;
  - iii. transfer stations 4E, A, B, and the transfer to the plant silos shall be totally enclosed with the emissions ducted to filter/baghouses;
  - iv. transfer station 2 shall be equipped with water sprays with a chemical proportioner and shall be totally enclosed with the emissions ducted to filter/baghouses;
  - v. crusher station 3 shall be equipped with water sprays with a chemical proportioner and shall be totally enclosed; and
  - vi. crusher station 5, sampling station 4, and sampling station 6 shall be totally enclosed.
- 2.b** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

**II. Operational Restrictions**

None

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

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks serving this emissions unit and for any visible fugitive particulate emissions from any part of this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

### IV. Reporting Requirements

1. The permittee shall submit semiannual written reports which (a) identify all days during which any visible particulate emissions were observed from the stacks serving this emissions unit or any visible fugitive particulate emissions were observed for any part of the emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31 and July 31 of each year and shall cover the previous 6-month period.

### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:  
Particulate emissions shall not exceed 0.03 grain/dry standard cubic foot from each of the control devices serving this emissions unit.

Applicable Compliance Method:

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

- 1.b Emission Limitation:  
Visible particulate emissions from the stacks of the control devices serving this emissions unit shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- 1.c Emission Limitation:  
Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

### 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:** Fly Ash Handling System (P902)  
**Activity Description:** Dry fly ash handling - pneumatic conveyors

#### 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>
Flyash handling system controlled with filter/baghouses which includes the following:  pneumatic conveyors; flyash transfer bin; and flyash storage silos.	OAC rule 3745-31-05(D) PTI 14-1036	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) PTI 14-1036	Particulate emissions shall not exceed 0.03 grain/dry standard cubic foot from each of the control devices serving this emissions unit.  Visible particulate emissions from the stacks of the control devices serving this emissions unit shall not exceed 10% opacity as a 6-minute average.  The control measures to minimize or eliminate visible emissions of fugitive dust required by this rule are equivalent to or less stringent than the control measures required pursuant to OAC rule 3745-31-05(D)
	OAC rule 3745-17-07(A)	Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.  The visible particulate emission limitation specified in this rule (20% opacity as a 6-minute average, except as provided by rule) is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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

**Applicable Rules/  
Requirements**

**Applicable Emissions  
Limitations/Control  
Measures**

OAC rule 3745-17-11(B)

The particulate emission limitation specified in this rule is less stringent than the particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

**2. Additional Terms and Conditions**

- 2.a** In accordance with the best available control technology determination established pursuant to OAC rule 3745-31-05(D), the permittee shall employ the following control measures for this emissions unit:
- i. the pneumatic conveying system for the transfer of flyash from the electrostatic precipitator hopper to the flyash transfer bin shall be equipped with a bag filter and water trap silencer;
  - ii. the pressurized transport system for the transfer of flyash from the flyash transfer bin to the flyash storage silo shall be equipped with a bag filter for conveying air; and
  - iii. the transfer of flyash from the flyash storage silo to trucks shall be controlled by a water spray system, when necessary.
- 2.b** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

**II. Operational Restrictions**

None

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

1. The permittee shall perform daily checks, while the equipment is in operation, for any visible emissions of fugitive dust escaping from any fly ash pneumatic conveying systems, for any visible emissions from filter/baghouses serving fly ash storage silos, and of the effectiveness of the water addition to the fly ash during loadout from storage silos into dump trucks in minimizing or eliminating visible emissions of fugitive dust during silo loadout. The results of the daily checks and any corrective actions taken shall be recorded in an operations log.

**IV. Reporting Requirements**

1. The permittee shall submit semiannual reports which (a) identify all days during which any visible emissions were observed escaping from any fly ash pneumatic conveying systems, (b) identify all days during which any visible emissions were observed from the filter/baghouses serving fly ash storage silos, and any visible emissions were observed from any filter/baghouses serving fly ash storage silos or from the loadout of fly ash from silos into trucks, and (c) describes the corrective actions taken to minimize or eliminate the visible emissions of fugitive dust. These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous semi-annual calendar periods.

**V. Testing Requirements**

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
- 1.a** Emission Limitation:  
Particulate emissions shall not exceed 0.03 grain/dry standard cubic foot from each of the control devices serving this emissions unit.

Applicable Compliance Method:

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

**V. Testing Requirements (continued)**

**1.b** Emission Limitation:  
Visible particulate emissions from the stacks of the control devices serving this emissions unit shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:  
Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

**1.c** Emission Limitation:  
Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:  
Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

**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:** Lime Handling System (P903)  
**Activity Description:** Barge unloading, conveyor transfer stations

#### 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>
Lime handling system controlled with filter/baghouses which includes the following:	OAC rule 3745-31-05(D) PTI 14-1036	See A.I.2.a and A.I.2.b below.
barge unloading; conveyor transfer stations; belt conveyors; pneumatic conveyors; active storage silos; and day storage silos.	OAC rule 3745-31-05(A)(3) PTI 14-1036	Particulate emissions shall not exceed 0.03 grain/dry standard cubic foot from each of the control devices serving this emissions unit.
		Visible particulate emissions from the stacks of the control devices serving this emissions unit shall not exceed 10% opacity as a 6-minute average.
		The control measures to minimize or eliminate visible emissions of fugitive dust required by this rule are equivalent to or less stringent than the control measures required pursuant to OAC rule 3745-31-05(D)
		Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-17-07(A)	The visible particulate emission limitation specified in this rule (20% opacity as a 6-minute average, except as provided by rule) is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The particulate emission limitation specified in this rule is less stringent than the particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

## 2. Additional Terms and Conditions

- 2.a** In accordance with the best available control technology determination established pursuant to OAC rule 3745-31-05(D), the permittee shall employ the following control measures for this emissions unit:
- i. the barge unloading system (station L1) shall be equipped with a totally enclosed screw conveyor and bag filters at the transfer point to the belt conveyor;
  - ii. the transfer stations between the barge unloading system and the day storage silos for the sludge fixation process shall be totally enclosed with the emissions ducted to bag-type filters;
  - iii. the conveyors shall have an oversized capacity and be designed to operate at slow speeds with 35 degree idlers to deter dust generation and shall be totally enclosed; and
  - iv. the emissions generated during the transfer of lime from the storage silos shall be vented to a dust collections system.
- 2.b** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

## II. Operational Restrictions

None

## III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, while the equipment is in operation, for any visible emissions of fugitive dust escaping from any fly ash pneumatic conveying systems, for any visible emissions from filter/baghouses serving fly ash storage silos, and of the effectiveness of the water addition to the fly ash during loadout from storage silos into dump trucks in minimizing or eliminating visible emissions of fugitive dust during silo loadout. The results of the daily checks and any corrective actions taken shall be recorded in an operations log.

## IV. Reporting Requirements

1. The permittee shall submit semiannual reports which (a) identify all days during which any visible emissions were observed escaping from any fly ash pneumatic conveying systems, (b) identify all days during which any visible emissions were observed from the filter/baghouses serving fly ash storage silos, and any visible emissions were observed from any filter/baghouses serving fly ash storage silos or from the loadout of fly ash from silos into trucks, and (c) describes the corrective actions taken to minimize or eliminate the visible emissions of fugitive dust. These reports shall be submitted by January 31 and July 31 of each year and shall cover the previous semi-annual calendar periods.

## V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:  
Particulate emissions shall not exceed 0.03 grain/dry standard cubic foot from each of the control devices serving this emissions unit.

Applicable Compliance Method:

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

1.b Emission Limitation:  
Visible particulate emissions from the stacks of the control devices serving this emissions unit shall not exceed 10% opacity as a 6-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

1.c Emission Limitation:  
Visible fugitive particulate emissions shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

## 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:** Landfill Parking & Roads (Y001)

**Activity Description:** Landfill Roads & Parking (Facility ID 1413000309, OEPA ID F001)

**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>
Paved and unpaved landfill roadways and parking areas.	OAC rule 3745-31-05(A)(3) PTI 14-1393	See A.I.2.a through A.I.2.c, and A.I.2.f through A.I.2.h below.

**2. Additional Terms and Conditions**

- 2.a The permittee shall comply with the following requirements for the paved landfill roadways and parking areas:
  - i. the visible fugitive particulate emissions shall not exceed 5% opacity as a 3-minute average;
  - ii. speed zones of no more than 30 miles per hour shall be established, posted and enforced by the permittee for all vehicles operating on the paved roadways and parking areas; and
  - iii. all paved roadways and parking areas shall be periodically swept and/or water flushed of surface material in order to minimize or eliminate visible emissions of fugitive dust generated from vehicular traffic.
- 2.b The permittee shall comply with the following requirements for the unpaved landfill roadways and parking areas:
  - i. there shall be no visible fugitive particulate emissions from any unpaved roadways and parking areas, except for a period of time not to exceed 13 minutes during any 60-minute observation period;
  - ii. speed zones of no more than 15 miles per hour shall be established, posted and enforced by the permittee for all vehicles operating on the unpaved roadways and parking areas;
  - iii. the unpaved roadway leading to the landfill disposal area shall be constructed using gravel and/or bottom ash; and
  - iv. suitable dust suppressant chemicals shall be applied at least bi-monthly, or as often as necessary on all unpaved roadways and parking areas in order to minimize or eliminate visible emissions of fugitive dust generated by vehicular traffic. Water spray alone may be used between the applications of chemical dust suppressant, provided that compliance with the applicable visible fugitive particulate emission limitation is maintained. Waste oil and brine from oil and gas production wells shall not be used as dust suppressants.
- 2.c The permittee shall employ a water washing system for the wheels of the haul vehicles using the roadways and parking areas associated with this emissions unit.

## **2. Additional Terms and Conditions (continued)**

- 2.d** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.e** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- 2.f** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.g** Any earth or other material deposited onto paved roadways and/or parking areas by trucking or earth moving equipment or erosion by water or other means shall be promptly removed in such a manner as to minimize or prevent resuspension.
- 2.h** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

## **II. Operational Restrictions**

**None**

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

- 1.** Except as otherwise provided in this section, the permittee shall perform inspections of the landfill roadways and parking areas in accordance with the following frequencies:
  - paved roadways and parking areas:  
all paved roadways and parking areas at the landfill  
minimum inspection frequency:  
daily, when in use
  - unpaved roadways and parking areas:  
all unpaved roadways and parking areas at the landfill  
minimum inspection frequency:  
daily, when in use
- 2.** The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
- 3.** The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and (C)(3) of OAC rule 3745-77-08.

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

4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

### IV. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation;
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented; and
  - c. each instance when the minimum bi-monthly application of chemical dust suppressant was not completed.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - 1.a Emission Limitation:  
Visible fugitive particulate emissions shall not exceed 5% opacity as a 3-minute average.  
  
Applicable Compliance Method:  
Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
  - 1.b Emission Limitation:  
There shall be no visible fugitive particulate emissions from any unpaved roadways and parking areas, except for a period of time not to exceed 13 minutes during any 60-minute observation period.

Applicable Compliance Method:  
Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

### 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

## **2. Additional Terms and Conditions (continued)**

- 2.d** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for a paved or unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.e** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure specified above for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to the visible emission limitation for paved roadways and parking areas.
- 2.f** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.g** Any earth or other material deposited onto paved roadways and/or parking areas by trucking or earth moving equipment or erosion by water or other means shall be promptly removed in such a manner as to minimize or prevent resuspension.
- 2.h** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

## **II. Operational Restrictions**

**None**

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

- 1.** Except as otherwise provided in this section, the permittee shall perform inspections of the landfill roadways and parking areas in accordance with the following frequencies:
  - paved roadways and parking areas:  
all paved roadways and parking areas at the landfill  
minimum inspection frequency:  
daily, when in use
  - unpaved roadways and parking areas:  
all unpaved roadways and parking areas at the landfill  
minimum inspection frequency:  
daily, when in use
- 2.** The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
- 3.** The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and (C)(3) of OAC rule 3745-77-08.

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

4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d shall be kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

### IV. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation;
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented; and
  - c. each instance when the minimum bi-monthly application of chemical dust suppressant was not completed.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - 1.a Emission Limitation:  
Visible fugitive particulate emissions shall not exceed 5% opacity as a 3-minute average.  
  
Applicable Compliance Method:  
Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.
  - 1.b Emission Limitation:  
There shall be no visible fugitive particulate emissions from any unpaved roadways and parking areas, except for a period of time not to exceed 13 minutes during any 60-minute observation period.

Applicable Compliance Method:  
Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

### 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:** Landfill Operations (Y002)

**Activity Description:** Landfill Operations (Facility ID 1413000309, OEPA ID F002)

#### 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>
landfill operations	OAC rule 3745-31-05(A)(3) PTI 14-1393	See A.I.2.a through A.I.2.g, and A.I.2.i below.

##### 2. Additional Terms and Conditions

- 2.a Visible fugitive particulate emissions shall not exceed 5% opacity as a 3-minute average during the load-in of dewatered and stabilized waste from the flue gas desulfurization systems at this facility.  
  
Visible fugitive particulate emissions shall not exceed 10% opacity as a 6-minute average during the load-in of flyash, dewatered bottom ash and pyrites, and pond sediments.
- 2.b The permittee shall employ a water spray system as the control measure to minimize or eliminate visible emissions of fugitive dust during the load-in of solid wastes.
- 2.c The waste from the flue gas desulfurization systems at this facility shall be maintained in a moist condition.
- 2.d The trucks unloading solid waste shall make use of any natural wind barriers, where possible, in order to minimize the fugitive dust emissions caused by the wind during the unloading operations.
- 2.e Any dusty material shall be watered, as necessary, prior to or during dumping in order to minimize or eliminate visible emissions of fugitive dust.
- 2.f The permittee shall avoid disposing of dusty materials during wind conditions that will cause or contribute to an exceedance of the applicable visible particulate emission limitation (10% opacity as a 6-minute average).
- 2.g Any dusty material to be stored prior to disposal shall be watered, as necessary, or given a temporary soil cover in order to minimize or eliminate visible emissions of fugitive dust.
- 2.h The above-mentioned control measures shall be employed for each load-in of solid waste if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during any such operation until further observation confirms that use of the measures is unnecessary.
- 2.i Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.
- 2.j There are no soil stockpiles associated with this emissions unit.

## II. Operational Restrictions

1. This permit does not provide for the acceptance of any asbestos or asbestos-containing waste material that is subject to the provisions of the NESHAP, 40 CFR Part 61, Subpart M. No such asbestos or asbestos-containing material may be accepted without first applying for and obtaining a permit to install from the Ohio EPA.

This solid waste disposal facility is only approved for the disposal of dewatered bottom ash and pyrites, flyash, pond sediments, and dewatered and stabilized flue gas desulfurization waste. No other solid wastes, liquids, or semi-solids shall be accepted for disposal.

This approval does not provide for acceptance of any hazardous waste.

## III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the landfill operation areas in accordance with the following frequencies:

landfill areas	minimum inspection frequency
all landfill areas	daily, when in use

2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal operating conditions. No inspection shall be necessary for a landfill operating area or storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The permittee may, upon receipt of written approval from the Hamilton County Department of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements. Such modified inspection frequencies would not be considered a minor or significant modification that would be subject to the Title V permit modification requirements in paragraphs (C)(1) and (C)(3) of OAC rule 3745-77-08.
4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d. shall be kept separately for (i) the solid waste load-in operations, (ii) the storage pile load-in and load-out operations, and (iii) the wind erosion of the storage pile surfaces, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.

The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

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

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
  - 1.a Emission Limitation:  
Visible fugitive particulate emissions shall not exceed 5% opacity as a 3-minute average during the load-in of dewatered and stabilized waste from the flue gas desulfurization systems at this facility.

Applicable Compliance Method:

Compliance with this emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

- 1.b Emission Limitation:  
Visible fugitive particulate emissions shall not exceed 10% opacity as a 6-minute average during the load-in of flyash, dewatered bottom ash and pyrites, and pond sediments.

Applicable Compliance Method:

Compliance with this emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

#### **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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