



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center
122 S. Front Street
Columbus, OH 43215

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Lazarus Gov. Center
P.O. Box 1049
Columbus, OH 43216-1049

11/16/04

**RE: Proposed Title V Chapter 3745-77 Permit
14-13-09-0154
CINCINNATI GAS & ELECTRIC CO., WM. H.
ZIMMER**

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

Dear Ms. Damico:

The proposed issuance of the Title V permit for CINCINNATI GAS & ELECTRIC CO., WM. H. ZIMMER, has been created in Ohio EPA's State Air Resources System (STARS) on 11/16/04, for review by USEPA. This proposed action is identified in STARS as  3-Title V Proposed Permit T+C covering the facility specific terms and conditions, and  Title V Proposed Permit covering the general terms and conditions. This proposed permit will be processed for issuance as a final action after forty-five (45) days from USEPA's receipt of this certified letter if USEPA does not object to the proposed permit. Please contact me at (614) 644-3631 by the end of the forty-five (45) day review period if you wish to object to the proposed permit.

Very truly yours,

Michael W. Ahern, Supervisor
Field Operations and Permit Section
Division of Air Pollution Control

cc: Hamilton County Dept. of Environmental Services
File, DAPC PMU



State of Ohio Environmental Protection Agency

PROPOSED TITLE V PERMIT

Issue Date: 11/16/04

Effective Date: To be entered upon final issuance

Expiration Date: To be entered upon final issuance

This document constitutes issuance of a Title V permit for Facility ID: 14-13-09-0154 to: CINCINNATI GAS & ELECTRIC CO., WM. H. ZIMMER 1781 US Route 52 Moscow, OH 45153-9705

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

Table with 3 columns: Emissions Unit ID (Company ID), Emissions Unit Activity Description. Rows include B001 (Emergency Diesel Generator), B002 (Emergency Diesel Generator), B003 (Emergency Diesel Generator), B006 (Unit 1), B007 (Auxiliary Boiler A), B008 (Auxiliary Boiler B), F001 (Plant Roads and Parking), F002 (Coal and FGD Storage Piles), P901 (Coal Handling System), P902 (Fly Ash Handling System), P903 (Lime Handling System), Y001 (Landfill Parking & Roads), Y002 (Landfill Operations).

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

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

Hamilton County Dept. of Environmental Services
250 William Howard Taft Rd
Cincinnati, OH 45219-2660
(513) 946-7777

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Record Keeping and Reporting Requirements

a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.III of Part III of this Title V permit, 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.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

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.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

c. The permittee shall submit required reports in the following manner:

- i. **All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:**

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted by January 31, April 30, July 31, and October 31 of each year in accordance with General Term and Condition A.1.c.ii below; and each report shall cover the previous calendar quarter.

In accordance with OAC rule 3745-15-06, a malfunction constitutes a violation of an emission limitation (or control requirement) and, therefore, is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- ii. **Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.IV of Part III of this Title V permit or, in some cases, in Part II of this Title V permit, all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:**

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written reports shall satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. OAC rule 3745-77-07(A)(3)(c) is not fully satisfied until the permittee addresses all other deviations of the federally enforceable requirements specified in the permit.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement overrides the reporting requirements specified in this General Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy the requirements (in part) of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this General Term and Condition.

See B.6 below if no deviations occurred during the quarter.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- iii. **All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted in the following manner:**

Written reports that identify all other deviations of the federally enforceable requirements contained in this permit, including the monitoring, record keeping, and reporting requirements, which are not reported in accordance with General Term and Condition A.1.c.ii above shall be

submitted to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with General Term and Condition A.1.c.ii above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii))

- 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 (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))
- v. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

2. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance 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). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in General Term and Condition A.1.c.i above.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Risk Management Plans

If applicable, the permittee shall 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"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

- a. a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or
- b. as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

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.

(Authority for term: OAC rule 3745-77-07(A)(5))

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.

(Authority for term: OAC rule 3745-77-07(A)(6))

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, in accordance with A.10 below. 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.

(Authority for term: OAC rule 3745-77-07(A)(7))

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.

(Authority for term: OAC rule 3745-77-07(A)(8))

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.

(Authority for term: OAC rule 3745-77-07(A)(9))

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.

(Authority for term: OAC rule 3745-77-07(A)(10))

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 (18) 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.
(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

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.

(Authority for term: OAC rule 3745-77-07(B))

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 Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA 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.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

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.

(Authority for term: OAC rule 3745-77-07(F))

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).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

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.
(Authority for term: OAC rule 3745-77-07(G))

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 of the U.S. EPA. 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.
- 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.

(Authority for term: OAC rule 3745-77-07(I))

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.

(This term is provided for informational purposes only.)

18. Insignificant Activities

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

(Authority for term: OAC rule 3745-77-07(A)(1))

19. 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.
(Authority for term: OAC rule 3745-77-07(A)(1))

20. 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.
(Authority for term: OAC rule 3745-77-07(A)(1))

21. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification by the responsible official of the date on which the emissions unit was permanently shut down. Authorization to operate the affected part or activity of the stationary source shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

If an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent “modification” or “installation” as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an “emissions unit” as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any monitoring, record keeping, reporting, or testing requirements, applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

B. State Only Enforceable Section

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) 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. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. 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.)

2. 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.

3. 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.

4. 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).

5. 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.

6. 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 emission limitation (or control requirement), operational restriction and/or control device parameter limitation 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 by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

- a. where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in General Term and Condition A.1.c.ii;
- b. where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; and
- c. where the company's responsible official has certified that an emissions unit has been permanently shut down.

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.

3. Nitrogen Oxides (NOx) Budget Trading Program

OAC Chapter 3745-14

- 3.a Office of Regulatory Information System Facility Code - 6019

- 3.b The following regulated electrical generating unit is subject to the applicable requirements specified in OAC Chapter 3745-14 and the annual NOx allowance allocations listed below:

Emissions Unit	Annual Allowance for Calendar Years 2004 and 2005	Annual Allowance for Calendar Years 2006 and 2007
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B006 - Boiler #1	2,918	2,857
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- 3.c The emissions unit identified in Section A.3.b above is a NOx budget unit under OAC rule 3745-14-01(C)(1). [OAC rule 3745-14-01(C)(1)(a)(i)]

- 3.d The NOx authorized account representative shall submit a complete NOx budget permit application in accordance with the deadlines specified in paragraphs (B)(2) and (B)(3) of OAC rule 3745-14-03. The NOx authorized account representative shall also submit, in a timely manner, any supplemental information that the Director determines is necessary in order to review a NOx budget permit application and issue or deny a NOx budget permit. [OAC rules 3745-14-01(E)(1)(a)(i), 3745-14-01(E)(1)(a)(ii), and 3745-14-03(B)(1)]

- 3.e Beginning May 31, 2004, the owners and operators of each NOx budget source and each NOx budget unit at the source shall hold NOx allowances available for compliance deductions under paragraph (E) of OAC rule 3745-14-06, as of the NOx allowance transfer deadline, in the unit's compliance account and the source's overdraft account in an amount not less than the total NOx emissions for the control period from the unit, as determined in accordance with OAC rule 3745-14-08, plus any amount necessary to account for actual utilization under paragraph (C)(5) of OAC rule 3745-14-05 for the control period. [OAC rules 3745-14-01(E)(3)(a) and 3745-14-01(E)(3)(c)]

- 3.f NOx allowances shall be held in, deducted from, or transferred among NOx allowance tracking system accounts in accordance with OAC rules 3745-14-05, 3745-14-06, 3745-14-07, and 3745-14-09. [OAC rule 3745-14-01(E)(3)(d)]

- 3.g A NOx allowance shall not be deducted, in order to comply with the requirement under paragraph (E)(3)(a) of OAC rule 3745-14-01, for a control period in a year prior to the year for which the NOx allowance was allocated. [OAC rule 3745-14-01(E)(3)(e)]

- 3.h Each ton of NOx emitted in excess of the NOx budget emission limitation, as defined in OAC rule 3745-14-01(B)(2)(yy), shall constitute a separate violation of OAC Chapter 3745-14, the Clean Air Act, and applicable Ohio law. The owners and operators of a NOx budget unit that has excess emissions in any control period shall surrender the NOx allowances required for deduction under paragraph (E)(4)(a) of OAC rule 3745-14-06 and pay any fine, penalty, or assessment or comply with any other remedy imposed under paragraph (E)(4)(c) of OAC rule 3745-14-06. [OAC rules 3745-14-01(E)(3)(b), 3745-14-01(E)(4)(a) and 3745-14-01(E)(4)(b)]

A. State and Federally Enforceable Section (continued)

3.i When recorded by the Administrator pursuant to OAC rules 3745-14-06 and 3745-14-07, every allocation, transfer, or deduction of a NOx allowance to or from a NOx budget unit's compliance account or the overdraft account of the source where the unit is located is deemed to amend automatically, and become a part of, any NOx budget permit of the NOx budget unit by operation of law without any further review.
[OAC rule 3745-14-01(E)(3)(h)]

3.j Except as provided below, the Director shall revise the NOx budget permit, as necessary, in accordance with OAC rule 3745-77-08.

Each NOx budget permit is deemed to incorporate automatically the definitions of terms under paragraph (B) of OAC rule 3745-14-01 and, when recorded by the Administrator, in accordance with OAC rules 3745-14-06 and 3745-14-07, every allocation, transfer, or deduction of a NOx allowance to or from the compliance accounts of the NOx budget units covered by the permit or the overdraft account of the NOx budget source covered by the permit.

[OAC rules 3745-14-03(D)(2) and 3745-14-03(E)(1)]

3.k The owner or operator of a NOx budget unit shall comply with the prohibitions under OAC rule 3745-14-08(A)(5).
[OAC rule 3745-14-08(A)(5)]

3.l The owners and operators of the NOx budget unit shall keep on site at the source each of the following documents for a period of five years from the date the document is created: (This period may be extended for cause, at any time prior to the end of five years, in writing by the Director or Administrator.)

i. the account certificate of representation for the NOx authorized account representative for the NOx budget unit and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with paragraph (D) of OAC rule 3745-14-02, provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new account certificate or representation changing the NOx authorized account representative;

ii. all emission monitoring information, in accordance with OAC rule 3745-14-08;

iii. copies of all reports, compliance certifications, and other submissions and all records made or required under the NOx budget trading program; and

iv. copies of all documents used to complete a NOx budget permit application and any other submission under the NOx budget trading program or to demonstrate compliance with the requirements of the NOx budget trading program.

[OAC rule 3745-14-01(E)(5)(a)(i) through (iv)]

A. State and Federally Enforceable Section (continued)

- 3.m** The permittee shall operate and maintain equipment to continuously monitor and record nitrogen oxides emissions from these emissions units in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75.

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. This includes all systems required to monitor the NO_x emission rate, NO_x concentration, heat input rate, and stack flow rate, in accordance with 40 CFR Parts 75.71 and 75.72.

The permittee shall comply with the initial and re-certification procedures of 40 CFR Part 75. The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous nitrogen oxides monitoring system has been certified in accordance with 40 CFR Part 75. 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, emissions of nitrogen oxides in lbs/hr, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

Whenever the monitoring system fails to meet the quality assurance or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

[OAC rules 3745-14-01(E)(2)(a), 3745-14-01(E)(5)(a)(ii), 3745-14-08(A)(2)(a) through (A)(2)(d), 3745-14-08(B)(1), and 3745-14-08(C)(1)]

- 3.n** The permittee shall comply with the monitoring plan requirements of 40 CFR Part 75.62, except that the monitoring plan shall also include all of the information required by Subpart H of 40 CFR Part 75.
[OAC rule 3745-14-08(E)(2)(a)]
- 3.o** The NO_x authorized account representative of the NO_x budget unit shall submit the reports and compliance certifications required under the NO_x budget trading program, including those under OAC rules 3745-14-04 and 3745-14-08, to the Director and Administrator.
[OAC rule 3745-14-01(E)(5)(b)]
- 3.p** Each submission under the NO_x budget trading program shall be submitted, signed, and certified by the NO_x authorized account representative for each NO_x budget source on behalf of which the submission is made. Each such submission shall include the following certification statement by the NO_x authorized account representative:

"I am authorized to make this submission on behalf of the owners and operators of the NO_x budget sources or NO_x budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

If the NO_x authorized account representative for a NO_x budget unit subject to an acid rain emission limitation who signed and certified any submission that is made under Subpart F or G of 40 CFR Part 75 and which includes data and information required under OAC rule 3745-14-08 or Subpart H of 40 CFR Part 75 is not the same person as the designated representative or the alternate designated representative for the unit under 40 CFR Part 72, then the submission shall also be signed by the designated representative or the alternate designated representative.

[OAC rules 3745-14-02(A)(5) and 3745-14-08(E)(1)(b)]

A. State and Federally Enforceable Section (continued)

- 3.q** The NOx authorized account representative shall submit quarterly reports that include all of the data and information required in Subpart H of 40 CFR Part 75 for each NOx budget unit (or group of units using a common stack) and the data and information in Subpart G of 40 CFR Part 75. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30 and October 30 of each year and shall be submitted in the manner specified in Subpart H of 40 CFR Part 75 and 40 CFR Part 75.64.
[OAC rules 3745-14-08(E)(4)(a) and 3745-14-08(E)(4)(c)(i)]
- 3.r** The NOx authorized account representative shall submit to the Administrator a compliance certification in support of each quarterly report based on a reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The compliance certification shall state that:
- i. the monitoring data submitted were recorded in accordance with the applicable requirements of OAC rule 3745-14-08 and 40 CFR Part 75, including the quality assurance procedures and specifications; and
 - ii. for a unit with add-on NOx emission controls and for all hours where data are substituted in accordance with 40 CFR Part 75.34(a)(1), the add-on emission control were operating within the range of parameters listed in the quality assurance program under Appendix B of 40 CFR Part 75 and the substitute values do not systematically underestimate the NOx emissions.
[OAC rule 3745-14-08(E)(4)(d)(i) and (ii)]
- 3.s** The NOx authorized account representative for a NOx budget unit shall submit written notice of monitoring system certification and re-certification test dates to the Director and the Administrator in accordance with 40 CFR Part 75.61. The NOx authorized account representative shall submit a certification application to the Administrator, U.S. EPA, Region V Office, and the Director within forty-five days after completing all initial or re-certification tests required under paragraph (B) of OAC rule 3745-14-08, including the information required under Subpart H of 40 CFR Part 75.
[OAC rules 3745-14-08(D) and 3745-14-08(E)(3)]
- 3.t** For each control period in which one or more NOx budget units at a source are subject to the NOx budget emission limitation, the NOx authorized account representative of the source shall submit to the Director and the Administrator, by November 30 of that year, a compliance certification report for each source covering all such units.

The NOx authorized account representative shall include the following elements in the compliance certification report, in a format prescribed by the Administrator, concerning each unit at the source and subject to the NOx budget emission limitation for the control period covered by the report:

- i. identification of each NOx budget unit;
- ii. at the NOx authorized account representative's option, the serial numbers of the NOx allowances that are to be deducted from each unit's compliance account under paragraph (E) of OAC rule 3745-14-06 for the control period;
- iii. at the NOx authorized account representative's option, for units sharing a common stack and having NOx emissions that are not monitored separately or apportioned in accordance with OAC rule 3745-14-08, the percentage of allowances that is to be deducted from each unit's compliance account under paragraph (E)(5) of OAC rule 3745-14-06; and
- iv. the compliance certification under paragraph (A)(3) of OAC rule 3745-14-04.
[OAC rules 3745-14-04(A)(1) and 3745-14-04(A)(2)]

A. State and Federally Enforceable Section (continued)

3.u In the compliance certification report under Section A.3.t.iv above, the NOx authorized account representative shall certify, based upon reasonable inquiry of those persons with the primary responsibility for operating the source and the NOx budget units at the source in compliance with the NOx budget trading program, whether each NOx budget unit for which the compliance certification is submitted was operated during the calendar year covered by the report in compliance with the requirements of the NOx budget trading program applicable to the unit, including all the following:

- i. whether the unit was operated in compliance with the NOx budget emission limitation;
- ii. whether the monitoring plan that governs the unit has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute NOx emissions to the unit, in accordance with OAC rule 3745-14-08;
- iii. whether all the NOx emissions from the unit, or group of units (including the unit) using a common stack, were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with OAC rule 3745-14-08, and if conditional data were reported, the permittee shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report submissions have been made; and
- iv. whether the facts that form the basis for certification under OAC rule 3745-14-08 of each monitor at the unit or group of units (including the unit) using a common stack, or for using an excepted monitoring method or alternative monitoring method approved under OAC rule 3745-14-08, if any, have changed.

If a change is required to be reported under Section A.3.u.iv above, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor re-certification.

[OAC rule 3745-14-04(A)(3)]

3.v The NOx authorized account representative shall submit a complete NOx budget permit renewal application for the NOx budget source covering the NOx budget units at the source in accordance with paragraph (E) of OAC rule 3745-77-08.

[OAC rule 3745-14-03(B)(3)(a)]

3.w The emission measurements recorded and reported in accordance with OAC rule 3745-14-08 shall be used to determine compliance by the unit with the NOx budget emission limitation under paragraph (E)(3) of OAC rule 3745-14-01.

[OAC rule 3745-14-01(E)(2)(b)]

3.x The permittee shall develop and maintain a written quality assurance/quality control plan for each continuous NOx monitoring system designed to ensure continuous valid and representative readings of NOx emissions in units of the applicable standard. The plan shall follow the requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook dedicated to the continuous NOx monitoring system must be kept on-site and available for inspection during regular office hours.

[OAC rules 3745-14-08(A)(2)(c) and 3745-14-08(A)(2)(d)]

A. State and Federally Enforceable Section (continued)

4. 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; and
P904 - FGD Waste Treatment System.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, and well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more of the applicable requirements contained in the SIP-approved version of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

B. State Only Enforceable Section

1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirement (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

L001 - Maintenance Shop Parts Degreaser;
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.

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(G)	Sulfur dioxide emissions shall not exceed 0.5 lb/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.

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, 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 quarterly deviation (excursion) reports that identify the following:
 - a. each day when a fuel other than number two fuel oil was burned in this emissions unit; and
 - b. any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III. above.

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii 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 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 0.5 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

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. See A.I.2.b below.
	OAC rule 3745-18-06(G)	Sulfur dioxide emissions shall not exceed 0.5 lb/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.

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, 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 quarterly deviation (excursion) reports that identify the following:
 - a. each day when a fuel other than number two fuel oil was burned in this emissions unit; and
 - b. any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III. above.

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii 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 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 0.5 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

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

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>
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. See A.I.2.b below.
	OAC rule 3745-18-06(G)	Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu actual heat input.

2. Additional Terms and Conditions

- 2.a 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.
- 2.b 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

1. The permittee shall burn only number two fuel oil in this emissions unit.
2. 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.

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, 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 quarterly deviation (excursion) reports that identify the following:
 - a. each day when a fuel other than number two fuel oil was burned in this emissions unit; and
 - b. any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III. above.

The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii 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 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 0.5 lb/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

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(C) 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. Compliance with this rule also includes compliance with OAC rule 3745-31-05(C).
	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.1.2.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 technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-1036.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

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 opacity monitoring system consists of all the equipment used to acquire data and includes the 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 applicable requirements specified in 40 CFR Part 60.13 and 40 CFR Part 75.

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 or 40 CFR Part 75. 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, on a daily average basis, and on a rolling, 30-day average basis, results of daily zero/span calibration checks, results of quarterly cylinder gas audits, linearity checks or relative accuracy test audits, and magnitude of manual calibration adjustments.

The permittee may conduct the relative accuracy test audits for the continuous sulfur dioxide monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B. In addition, linearity checks conducted pursuant to 40 CFR Part 75, Appendix B, may be used in place of quarterly cylinder gas audits, as required in 40 CFR Part 60.

The permittee shall develop a written quality assurance/quality control plan for the continuous sulfur dioxide monitoring system designed to ensure continuous valid and representative readings of sulfur dioxide emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 60, Appendix F and 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous sulfur dioxide monitoring system must be kept on site and available for inspection during regular office hours.

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

3. 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 applicable requirements specified in 40 CFR Part 60 and Part 75. Data reported to meet the requirements of 40 CFR Part 60.49a shall not include data substituted using the missing data procedures in 40 CFR Part 75, Subpart D, nor shall the data have been bias adjusted according to the procedures of 40 CFR Part 75.

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 or 40 CFR Part 75. 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, on a daily average basis, and on a rolling, 30-day average basis, results of daily zero/span calibration checks, results of quarterly cylinder gas audits, linearity checks or relative accuracy test audits, and magnitude of manual calibration adjustments.

The permittee may conduct the relative accuracy test audits for the continuous nitrogen oxides monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B. In addition, linearity checks conducted pursuant to 40 CFR Part 75, Appendix B, may be used in place of quarterly cylinder gas audits, as required in 40 CFR Part 60.

The permittee shall develop a written quality assurance/quality control plan for the continuous nitrogen oxides monitoring system designed to ensure continuous valid and representative readings of nitrogen oxides emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 60, Appendix F and 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous nitrogen oxides monitoring system must be kept on site and available for inspection during regular office hours.

4. For the sulfur dioxide, nitrogen oxides, and carbon dioxide or oxygen continuous emission monitoring systems, the permittee shall obtain emission data for at least 18 hours in at least 22 out of 30 successive emissions unit operating days. If this minimum data requirement cannot be met with a continuous monitoring system, the permittee shall supplement emission data with other monitoring systems approved by the Administrator or the reference methods and procedures as described in 40 CFR Part 60.47a(h).
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.
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.

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

7. The permittee shall maintain daily records of the total quantity of coal burned, the results of the analyses for ash content, sulfur content, and heat content, and the calculated sulfur dioxide emission rate (lb/mmBtu) 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 D5865, Gross Calorific Value of Coal and Coke, 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 hourly data obtained from the continuous sulfur dioxide monitoring system at the inlet of the control system or 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 at the outlet of the control 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; and
 - d. the rolling, 30-day average reduction in potential sulfur dioxide emissions, in percent.

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.

IV. Reporting Requirements (continued)

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 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.

The reports shall also include the following:

- a. an identification of the emissions unit operating days for which pollutant or diluent data have not been obtained by an approved method for at least 18 hours of operation of the unit, justification for not obtaining sufficient data, and description of corrective actions taken;
- b. an identification of the times when emission data have been excluded from the calculation of average emission rates because of startup, shutdown, emergency conditions, or other reasons, and justification for excluding data for reasons other than startup, shutdown, or emergency conditions;
- c. an identification of the "F" factor used for calculations, method of determination, and type of fuel combusted;
- d. an identification of times when hourly averages have been obtained based on manual sampling methods;
- e. an identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system; and
- f. a description of any modifications to the continuous monitoring system which could affect the ability of the continuous monitoring system to comply with Performance Specifications 2 or 3.

For any period for which sulfur dioxide emission data are not available, the permittee shall submit a signed statement indicating if any changes were made in operation of the emission control system during the period of data unavailability. Operations of the control system and affected facility during periods of data unavailability are to be compared with operation of the control system and affected facility before and following the period of data unavailability.

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.

The reports shall also include the following:

- a. an identification of the emissions unit operating days for which pollutant or diluent data have not been obtained by an approved method for at least 18 hours of operation of the unit, justification for not obtaining sufficient data, and description of corrective actions taken;
- b. an identification of the times when emission data have been excluded from the calculation of average emission rates because of startup, shutdown, malfunction, or other reasons, and justification for excluding data for reasons other than startup, shutdown, or malfunction;
- c. an identification of the "F" factor used for calculations, method of determination, and type of fuel combusted;
- d. an identification of times when hourly averages have been obtained based on manual sampling methods;
- e. an identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system; and
- f. a description of any modifications to the continuous monitoring system which could affect the ability of the continuous monitoring system to comply with Performance Specifications 2 or 3.

For any period for which nitrogen oxides emission data are not available, the permittee shall submit a signed statement indicating if any changes were made in operation of the emission control system during the period of data unavailability. Operations of the control system and affected facility during periods of data unavailability are to be compared with operation of the control system and affected facility before and following the period of data unavailability.

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 also 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 shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

IV. Reporting Requirements (continued)

5. If the minimum quantity of emission data as required by 40 CFR Part 60.47a is not obtained for any 30 successive emissions unit operating days, the following information obtained under the requirements of 40 CFR Part 60.46a(h) is reported to the Hamilton County Department of Environmental Services for that 30-day period:
 - a. the number of hourly averages available for outlet emission rates (no) and inlet emission rates (ni), as applicable;
 - b. the standard deviation of hourly averages for outlet emission rates (so) and inlet emission rates (si), as applicable;
 - c. the lower confidence limit for the mean outlet emission rate (Eo*) and the upper confidence limit for the mean inlet emission rate (Ei*), as applicable;
 - d. the applicable potential combustion concentration; and
 - e. the ratio of the upper confidence limit for the mean outlet emission rate (Eo*) and the allowable emission rate (Estd), as applicable.
6. If any standard under 40 CFR Part 60.43a is exceeded during emergency conditions because of control system malfunction, the permittee of the affected facility shall submit a signed statement:
 - a. indicating if emergency conditions existed and requirements under 40 CFR Part 60.46a(d) were met during each period, and
 - b. listing the following information:
 - c. time periods the emergency condition existed;
 - d. electrical output and demand on the permittee's electric utility system and the affected facility;
 - e. amount of power purchased from interconnected neighboring utility companies during the emergency period;
 - f. percent reduction in emissions achieved;
 - g. atmospheric emission rate (ng/J) of the pollutant discharged; and
 - h. actions taken to correct control system malfunction.
7. If fuel pretreatment credit toward the sulfur dioxide emission standard under 40 CFR Part 60.43a is claimed, the permittee shall submit a signed statement:
 - a. indicating what percentage cleaning credit was taken for the calendar quarter, and whether the credit was determined in accordance with the provisions of 40 CFR Part 60.48a and Method 19 (40 CFR Part 60, Appendix A); and
 - b. listing the quantity, heat content, and date each pretreated fuel shipment was received during the previous quarter; the name and location of the fuel pretreatment facility; and the total quantity and total heat content of all fuels received at the affected facility during the previous quarter.

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 approximately 2.5 years after the effective date of this permit and within 6 months prior to permit expiration.

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 emission 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.

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. If required, the permittee shall demonstrate compliance with the sulfur dioxide allowable emission limitation (1.0 lb/mmBtu actual heat input, as a 3-hour average) through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6 or 6C.
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.3 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.

V. Testing Requirements (continued)

6. 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). If required, the permittee shall demonstrate compliance with this emission limitation by confirming, through emission tests, that the emission factor used to establish the emission limitation is still appropriate. The emission tests shall be performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25.
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 (10/98).
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

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>
<p>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.</p>		

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

1. The permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step-by-step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

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(C) PTI 14-1036	See A.I.2.a below.
	OAC rule 3745-31-05(A)(3) PTI 14-1036	See A.I.2.b and A.I.2.c below. Compliance with this rule also includes compliance with OAC rules 3745-31-05(C) and 3745-17-10(B)(1).
	40 CFR Part 60, Subpart Db	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 0.020 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. Additional Terms and Conditions (continued)

- 2.e** 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 technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-1036.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 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 tests.

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.

II. Operational Restrictions (continued)

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 opacity monitoring system consists of all the equipment used to acquire data and includes the 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.

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 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 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;
 - d. all start-up and shutdown periods that exceed the durations specified in Section A.I.2.c; and
 - e. any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III.2 above.

The quarterly deviation reports shall be submitted in accordance with the General Term and Condition A.1.c.ii of this permit.

3. 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.

4. 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 April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

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 0.020 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:

Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

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 emission 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

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>
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.		

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

1. The permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step-by-step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

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(C) PTI 14-1036	See A.I.2.a below.
	OAC rule 3745-31-05(A)(3) PTI 14-1036	See A.I.2.b and A.I.2.c below. Compliance with this rule also includes compliance with OAC rules 3745-31-05(C) and 3745-17-10(B)(1).
	40 CFR Part 60, Subpart Db	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 0.020 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. Additional Terms and Conditions (continued)

- 2.e** 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 technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-1036.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- 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 tests.

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.

II. Operational Restrictions (continued)

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 opacity monitoring system consists of all the equipment used to acquire data and includes the 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.

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 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 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;
 - d. all start-up and shutdown periods that exceed the durations specified in Section A.I.2.c; and
 - e. any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III.2 above.

The quarterly deviation reports shall be submitted in accordance with the General Term and Condition A.1.c.ii of this permit.

3. 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.

4. 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 April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

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 0.020 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:

Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

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 emission 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

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>
<p>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.</p>		

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

1. The permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step-by-step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

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 A.I.2.a below)	OAC rule 3745-31-05(C)	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(C) 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 A.I.2.b below)	OAC rule 3745-31-05(C)	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 A.I.2.c through A.I.2.f below).

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

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.
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 A.I.2.a below)	none	none
unpaved roadways and parking areas (see A.I.2.b below)	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.6 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(C) 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(C).

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.

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

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.
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

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.	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.6 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: barge unloading station; sampling station; conveyor transfer station; silos; crusher stations; and belt conveyors.	OAC rule 3745-31-05(C) 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(C). 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(C), 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 weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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.
2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the unloading, transferring, crushing, and conveying operations associated with this emissions unit. The presence or absence of any visible fugitive 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 location and 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly written reports that identify and describe the following:
 - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and describe any corrective actions taken to eliminate the visible particulate emissions; and
 - b. identify all days during which any visible fugitive particulate emissions were observed from the unloading, transferring, crushing, and conveying operations associated with this emissions unit and describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These quarterly reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31, and October 31 of each year and shall address the data obtained during the previous calendar quarter.

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: 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(C) 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(C).
	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).

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	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(C), 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 weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the fly ash pneumatic conveying systems and storage silo loadout operations associated with this emissions unit. The presence or absence of any visible fugitive 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 location and 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly written reports that identify and describe the following:
 - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and describe any corrective actions taken to eliminate the visible particulate emissions; and
 - b. identify all days during which any visible fugitive particulate emissions were observed from the fly ash pneumatic conveying systems and storage silo loadout operations associated with this emissions unit and describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These quarterly reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31, and October 31 of each year and shall address the data obtained during the previous calendar quarter.

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.

V. Testing Requirements (continued)

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: barge unloading; conveyor transfer stations; belt conveyors; pneumatic conveyors; active storage silos; and day storage silos.	OAC rule 3745-31-05(C) 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(C). 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(C), the permittee shall employ the following control measures for this emissions unit:
- 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;
 - 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;
 - 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
 - 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

- The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving 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:
 - the color of the emissions;
 - whether the emissions are representative of normal operations;
 - if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to eliminate the visible emissions.

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

2. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the unloading, transferring, and conveying operations associated with this emissions unit. The presence or absence of any visible fugitive 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 location and 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 minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

IV. Reporting Requirements

1. The permittee shall submit quarterly written reports that identify and describe the following:
 - a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and describe any corrective actions taken to eliminate the visible particulate emissions; and
 - b. identify all days during which any visible fugitive particulate emissions were observed from the unloading, transferring, and conveying operations associated with this emissions unit and describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions.

These quarterly reports shall be submitted to the Director (the Hamilton County Department of Environmental Services) by January 31, April 30, July 31, and October 31 of each year and shall address the data obtained during the previous calendar quarter.

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.

V. Testing Requirements (continued)

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.

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

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.
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
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all landfill areas	daily, when in use
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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.
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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