OhioEPA

State of Ohio Environmental Protection Agency

Street Address:
Lazarus Gov. Center
50 West Town Street, Suite 700
Columbus, OH 43215

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

02/07/07

CERTIFIED MAIL

RE: Proposed Title V Minor Permit Modification Chapter 3745-77 permit

04-48-02-0006
Toledo Edison Co., Bay Shore Plant

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

Dear Ms. Coburn:

The proposed issuance of the Title V permit for Toledo Edison Co., Bay Shore Plant, has been created in Ohio EPA's State Air Resources System (STARS) on 02/07/07, 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 electronic notification of this proposed action. Please contact me at (614) 644-3631 before 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

Michael W. Ahern, Manager
Permit Issuance and Data Management Section
Division of Air Pollution Control

cc: Toledo Div of Environmental Services
File, DAPC PIER

State of Ohio Environmental Protection Agency

PROPOSED TITLE V MINOR PERMIT MODIFICATION

Original Effective Date:	Expiration Date:	Modification Effective Date: ***To be enetered upon final issuance***

This document constitutes issuance of a Title V permit for Facility ID: 04-48-02-0006 to:
The duration of this permit will be five years.
Toledo Edison Co., Bay Shore Plant
4701 Bay Shore Road
Oregon, OH 43616-0000

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

B002 (Boiler #2)
Coal-fired Utility Boiler for Electric Generation - 859 Million Btu/Hr.

B003 (Boiler #3)
Coal-fired Utility Boiler for Electric Generation - 835 Million Btu/Hr.

B004 (Boiler #4)
Coal-fired Utility Boiler for Electric Generation - 1197 Million Btu/Hr.

B005 (Gas Turbine)
Oil-fired Gas Turbine - 20 mW - for peak electrical demand

B006 (Circulating Fluidized Bed Boiler)
Circulating fluidized bed boiler for Electric Generation - 1764 Million Btu/Hr.

F003 (Coal Pile)
Coal Storage Pile

F004 (Coal Handling)
Coal Unloading and Conveying System

F005 (Ash Handling)
Fly Ash Handling and Removal System

F008 (Coke Storage)
Petroleum Coke Storage

F010 (Limestone Crushing & Sizing Operation)
Limestone Crushing & Sizing Operation

F011 (Transferring & Conveying Operation)
Transferring & Conveying Operation

F014 (Coke Truck Load-out at Transfer House #1)
Coke Truck load out at Transfer House #1

P001 (Limestone Dryer)
Limestone dryer

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

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

Toledo Div of Environmental Services
348 South Erie Street
Toledo, OH 43604
(419) 936-3015

Ohio Environmental Protection Agency

_____

Chris Korleski
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 (i.e., postmarked) 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 (An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c)).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) 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 (i.e., postmarked) 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 deviation reports shall satisfy the requirements 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. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

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 satisfies 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 (for the deviations so reported) the requirements 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:**

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; General Terms and Conditions: A.2, A.3, A.4, A.6.e, A.7, A.12, A.14, A.18, A.19, A.20, and A.22 of Part I of this Title V permit, as well as any deviations from the requirements in Section A.V or A.VI of Part III of this Title V permit**,** and any 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 (i.e., postmarked) 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. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in Part II.A of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

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 and 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) and OAC rule 3745-77-07(A)(13)(b))

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.

f. Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable upon final issuance of all applicable OAC Chapter 3745-35 operating permits and/or registrations for all subject emissions units located at the facility and:

   i. the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a “major source” as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or

   ii. the permittee no longer meets the definition of a “major source” as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or

   iii. a combination of i. and ii. above.

   The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.
   (Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(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 (i.e., postmarked) 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, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.

c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).

d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

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 or Emissions Levels

Each IEU 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 from the responsible official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

After the date on which 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 Title V permit 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.
(Authority for term: OAC rule 3745-77-01)

22. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11))

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 (i.e., postmarked) quarterly, 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 <u>Federally Enforceable</u> 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 (i.e., postmarked) 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; or

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; or

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. 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.

(Authority for term: OAC rule 3745-25-03)

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, Subpart M.

(Authority for term: 40 CFR Part 61, Subpart M)

3. Nitrogen Oxides (NOx) Budget Trading Program

OAC Chapter 3745-14

3.a Office of Regulatory Information System Facility Code - 2835

3.b The following regulated electrical generating units are 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
B002 - Boiler #2	229	224
B003 - Boiler #3	213	209
B004 - Boiler #4	330	323

Emissions unit B006 (Circulating Fluidized Bed Boiler) is also subject to the NOx Budget Trading Program under OAC rule 3745-14. A NOx allocation request shall be submitted to the Director for B006 as specified under OAC rule 3745-14-05(C)(4)(b) by January 1 before the control period for which the NOx allowances are requested.

3.c [OAC rule 3745-14-01(C)(1)(a)(i)]
The emissions units identified in Section A.3.b above are NOx budget units under OAC rule 3745-14-01(C)(1).

3.d [OAC rules 3745-14-01(E)(1)(a)(i), 3745-14-01(E)(1)(a)(ii), 3745-14-03(B)(1), and 3745-14-03(C)]
The NOx authorized account representative shall submit a complete NOx budget permit application as defined under OAC rule 3745-14-03(C)(1) 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.

3.e [OAC rules 3745-14-01(E)(3)(a) and 3745-14-01(E)(3)(c)]
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.

3.f [OAC rule 3745-14-01(E)(3)(d)]
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.

3.g [OAC rule 3745-14-01(E)(3)(e)]
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.

A. State and Federally Enforceable Section (continued)

3.h [OAC rules 3745-14-01(E)(3)(b), 3745-14-01(E)(4)(a) and 3745-14-01(E)(4)(b)]
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.

3.i [OAC rule 3745-14-01(E)(3)(h)]
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.

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

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

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

A. State and Federally Enforceable Section (continued)

3.m [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)]
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 NOx emission rate, NOx 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.

3.n [OAC rule 3745-14-08(E)(2)(a)]
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.

3.o [OAC rule 3745-14-01(E)(5)(b)]
The NOx authorized account representative of the NOx budget unit shall submit the reports and compliance certifications required under the NOx budget trading program, including those under OAC rules 3745-14-04 and 3745-14-08, to the Director and Administrator.

3.p [OAC rules 3745-14-02(A)(5) and 3745-14-08(E)(1)(b)]
Each submission under the NOx budget trading program shall be submitted, signed, and certified by the NOx authorized account representative for each NOx budget source on behalf of which the submission is made. Each such submission shall include the following certification statement by the NOx authorized account representative:

"I am authorized to make this submission on behalf of the owners and operators of the NOx budget sources or NOx 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 NOx authorized account representative for a NOx 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.

A. State and Federally Enforceable Section (continued)

3.q [OAC rules 3745-14-08(E)(4)(a) and 3745-14-08(E)(4)(c)(i)]
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.

3.r [OAC rule 3745-14-08(E)(4)(d)(i) and (ii)]
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.

3.s [OAC rules 3745-14-08(D) and 3745-14-08(E)(3)]
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.

3.t [OAC rules 3745-14-04(A)(1) and 3745-14-04(A)(2)]
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.

A. State and Federally Enforceable Section (continued)

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

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

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

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

A. State and Federally Enforceable Section (continued)

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

F001 (PTI 04-01056) - roadways and parking areas;
F006 (PTI 04-01056) - coke truck dump to coke storage pile;
F007 (PTI 04-01056) - coke rail car unloading to coke storage pile;
F009 (PTI 04-01056) - limestone truck dump;
F012 (PTI 04-01056) - bed ash truck load-out station;
F013 (PTI 04-01056) - fly ash truck load-out station;
F015 (PTI 04-01056) - coke truck load-out station from the coke storage pile;
F016 (PTI 04-01056) - coke/coal crushing and sizing operation;
F017 (PTI 04-01056) - emergency limestone storage pile;
F018 (PTI 04-01056) - emergency ash storage pile;
F019 (PTI 04-01056) - rail car load-out from skid mounted rail car feeder;
T002 (PTI 04-752) - 12,000-gallon above-ground sulfuric acid storage tank (Tank #2);
Z001 - 330 HP (2.4 mmBtu/hr) internal combustion diesel engine (Diesel Engine #1);
Z002 - 300 HP (2.18 mmBtu/hr) internal combustion diesel engine (Diesel Engine #2);
Z003 - 85 kW (0.290 mmBtu/hr) propane generator (Propane Generator #1);
Z004 - 75 kW (0.256 mmBtu/hr) propane generator (Propane Generator #2); and
Z005 - 30kW (0.102 mmBtu/hr) emergency diesel generator (Diesel Generator #3).

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 requirements or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

T001 - 50,000-gallon above-ground peaker oil storage tank (Tank #1);
Z006 - 15,228-gallon above-ground No. 2 fuel oil lighter tank (Tank #3);
Z007 - 15,228-gallon above-ground No. 2 fuel oil lighter tank (Tank #4);
Z008 - 3,475-gallon above-ground No. 1 fuel oil bulldozer tank (Tank #5);
Z010 - 1,000-gallon above-ground No. 2 fuel oil tank (Tank #7);
Z011 - 30,000-gallon above-ground No. 2 fuel oil tank for light-off of CFB; and
Z012 - 10,000-gallon above-ground No. 2 fuel oil tank for the limestone dryer.

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler #2 (B002)

Activity Description: Coal-fired Utility Boiler for Electric Generation - 859 Million Btu/Hr.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
B002 - Babcock & Wilcox pulverized coal-fired, dry bottom boiler, having a nominal capacity of 1240 mmBtu/hr, and controlled with an electrostatic precipitator (ESP).	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(C)(1)	Particulate emissions shall not exceed 0.10 lb/mmBtu actual heat input.
	OAC rule 3745-18-54(V)(1)	Sulfur dioxide emissions shall not exceed 1.94 lbs/mmBtu actual heat input.

2. Additional Terms and Conditions

None

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 the common stack serving emissions units B002, B003 and B004. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

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

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

2. If the continuous sulfur dioxide monitoring system is used to demonstrate compliance with the sulfur dioxide emission limitation, the permittee shall operate and maintain equipment to continuously monitor and record sulfur dioxide emissions from the common stack serving emissions units B002, B003 and B004 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.

The permittee shall maintain documentation from the USEPA or the Ohio EPA that the continuous sulfur dioxide 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 sulfur dioxide monitoring system: the average daily and rolling, 30-day average emission rates of sulfur dioxide in lb/mmBtu actual heat input, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments. In addition, the permittee shall maintain daily records of the total actual heat input values as determined through F-Factor and carbon dioxide/oxygen calculations as specified in 40 CFR Part 60, Appendix A, Method 19.

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

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

3. If coal sampling and analysis is used to demonstrate compliance with the sulfur dioxide emission limitation, 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 average sulfur dioxide emission rate (lbs/mmBtu). The analyses for ash content, sulfur content and heat content shall be performed in accordance with the following:

The permittee shall collect daily composite samples of the coal burned in 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 the most recent version of 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 Toledo Division of Environmental Services.

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

4. To obtain an exemption pursuant to OAC rule 3745-17-07(A)(3)(a)(i) or (A)(3)(b)(i), the permittee shall operate and maintain a temperature monitor that measures the temperature of the boiler exhaust gases entering the ESP (a) during all periods of start-up until the ESP is operational or until the inlet temperature of the ESP achieves the temperature level specified in OAC rule 3745-17-07(A)(3)(a)(i) and (b) during all periods of shutdown until the inlet temperature of the ESP drops below the temperature level specified in OAC rule 3745-17-07(A)(3)(b)(i). 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.

(Authority for term: OAC rules 3745-77-07(C)(1), 3745-17-07(A)(3)(a)(i) and 3745-17-07(A)(3)(b)(i))

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 Toledo Division of Environmental Services documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07, 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(s).

The reports shall also identify any excursions of the start-up and shutdown provisions specified in OAC rule 3745-17-07(A)(3) and 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 quarter.

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

2. If the continuous sulfur dioxide monitoring system is used to demonstrate compliance with the sulfur dioxide emission limitation, the permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the Toledo Division of Environmental Services documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of sulfur dioxide values in excess of the applicable rolling, 30-day average sulfur dioxide emission rate (lb/mmBtu). These reports shall also contain average daily sulfur dioxide emission rates (lb/mmBtu) which are greater than 1.5 times the sulfur dioxide emission limitation specified in Section A.1.

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

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

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

3. If coal sampling and analysis is used to demonstrate compliance with the sulfur dioxide emission limitation, the permittee shall submit deviation (excursion) reports that document any average daily sulfur dioxide emission rate which was greater than 1.5 times the sulfur dioxide emission limitation specified in Section A.1 and any 30-day rolling, weighted average sulfur dioxide emission rate greater than the sulfur dioxide emission limitation specified in Section A.1. These reports shall be submitted in accordance with Section A.1.c.ii of the General Terms and Conditions.

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

V. Testing Requirements

1. The permittee shall conduct, or have conducted, particulate emission testing for the common stack serving emissions units B002, B003 and B004 to demonstrate compliance with the allowable mass emission rate of 0.10 lb/mmBtu actual heat input in accordance with the following requirements:

The particulate emission testing shall be conducted twice during the term of this permit. Once between years 2 and 3, and once during the last year of the permit.

Compliance with the allowable mass emission rate for particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(9). The average emissions rate of all emissions units in operation and vented to the common stack during the test shall be used to demonstrate compliance with the lb/mmBtu emission limitation.

The test(s) shall be conducted while emissions units B002, B003 and B004 are operating at or near their maximum capacity.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division 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 Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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 Toledo Division 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 Toledo Division of Environmental Services.

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

2. Compliance with the visible emission limitations in OAC rule 3745-17-07(A)(1) shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03(B)(1).

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

3. Compliance with the sulfur dioxide emission limitation shall be based upon a 30-day rolling, weighted average basis of the daily sulfur dioxide emission rates (when using coal sampling data), in accordance with the USEPA's policy entitled "Enforcement Policy for Sulfur Dioxide Emission Limitations in Ohio" and dated February 11, 1980 (45 FR 9101). The daily and 30-day rolling average sulfur dioxide emission rates shall be determined and reported in accordance with the applicable requirements of sections A.III.2, A.III.3, A.IV.2 and A.IV.3 of this permit. The permittee may be required to perform sulfur dioxide emission tests on the common stack serving emissions units B002, B003 and B004 if warranted by the USEPA's enforcement policy. In such cases, the methods and procedures specified in 40 CFR Part 60.46 shall be employed, and the average emissions rate of all emissions units in operation and vented to the common stack shall be used to demonstrate compliance with the lb/mmBtu SO2 emission limitation.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
B002 - Babcock & Wilcox pulverized coal-fired, dry bottom boiler, having a nominal capacity of 1240 mmBtu/hr, and controlled with an electrostatic precipitator (ESP).	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

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

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

V. Testing Requirements (continued)

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

Applicable Compliance Method:
Compliance with this emission limitation shall be determined through the use of the continuous opacity monitoring system data. During each calendar quarter, the permittee shall be deemed in compliance with this emission limitation if the following conditions are met:

a. the nonexempt opacity values in excess of 20% opacity are less than 1.10% of the 6-minute average opacity values. (Exempt opacity values are defined in paragraphs (A)(1)(b), (A)(2), and (A)(3) of OAC rule 3745-17-07.)

b. none of the nonexempt 6-minute average opacity values exceeds 60%.

c. the total amount of time, in hours, of exempt and nonexempt opacity values greater than 20% and less than 60% (not including start-up, shutdown, and malfunction exemptions provided in paragraphs (A)(1)(b), (A)(2), and (A)(3) of OAC rule 3745-17-07) does not exceed the product of 0.10 times the actual number of hours the emissions unit was in operation during the calendar quarter.

In the event of a discrepancy between the continuous opacity monitoring data and any observations performed in accordance with paragraph (B)(1)(a) of OAC rule 3745-17-03 during the same time period, an evaluation may be performed by the Ohio EPA to assess the accuracy of the continuous opacity monitoring data (which may include an audit of the continuous opacity monitoring system performed in accordance with U.S. EPA document 340/1-83-010) and the validity of the observations performed in accordance with paragraph (B)(1)(a) of OAC rule 3745-17-03. The Ohio EPA may accept and utilize any data or observation it finds credible. The permittee is not precluded from using any credible evidence in defense of any enforcement action that may be initiated by the Ohio EPA.

VI. Miscellaneous Requirements

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

2. A logbook documenting activities relating to the continuous sulfur dioxide montoring 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: Boiler #3 (B003)

Activity Description: Coal-fired Utility Boiler for Electric Generation - 835 Million Btu/Hr.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
B003 - Babcock & Wilcox pulverized coal-fired, dry bottom boiler, having a nominal capacity of 1217 mmBtu/hr, and controlled with an electrostatic precipitator (ESP).	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(C)(1)	Particulate emissions shall not exceed 0.10 lb/mmBtu actual heat input.
	OAC rule 3745-18-54(V)(1)	Sulfur dioxide emissions shall not exceed 1.94 lbs/mmBtu actual heat input.

2. Additional Terms and Conditions

None

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 the common stack serving emissions units B002, B003 and B004. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

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

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

2. If the continuous sulfur dioxide monitoring system is used to demonstrate compliance with the sulfur dioxide emission limitation, the permittee shall operate and maintain equipment to continuously monitor and record sulfur dioxide emissions from the common stack serving emissions units B002, B003 and B004 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.

The permittee shall maintain documentation from the USEPA or the Ohio EPA that the continuous sulfur dioxide 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 sulfur dioxide monitoring system: the average daily and rolling, 30-day average emission rates of sulfur dioxide in lb/mmBtu actual heat input, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments. In addition, the permittee shall maintain daily records of the total actual heat input values as determined through F-Factor and carbon dioxide/oxygen calculations as specified in 40 CFR Part 60, Appendix A, Method 19.

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

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

3. If coal sampling and analysis is used to demonstrate compliance with the sulfur dioxide emission limitation, 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 average sulfur dioxide emission rate (lbs/mmBtu). The analyses for ash content, sulfur content and heat content shall be performed in accordance with the following:

The permittee shall collect daily composite samples of the coal burned in 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 the most recent version of 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 Toledo Division of Environmental Services.

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

4. To obtain an exemption pursuant to OAC rule 3745-17-07(A)(3)(a)(i) or (A)(3)(b)(i), the permittee shall operate and maintain a temperature monitor that measures the temperature of the boiler exhaust gases entering the ESP (a) during all periods of start-up until the ESP is operational or until the inlet temperature of the ESP achieves the temperature level specified in OAC rule 3745-17-07(A)(3)(a)(i) and (b) during all periods of shutdown until the inlet temperature of the ESP drops below the temperature level specified in OAC rule 3745-17-07(A)(3)(b)(i). 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.

(Authority for term: OAC rules 3745-77-07(C)(1), 3745-17-07(A)(3)(a)(i) and 3745-17-07(A)(3)(b)(i))

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 Toledo Division of Environmental Services documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07, 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(s).

The reports shall also identify any excursions of the start-up and shutdown provisions specified in OAC rule 3745-17-07(A)(3) and 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 quarter.

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

2. If the continuous sulfur dioxide monitoring system is used to demonstrate compliance with the sulfur dioxide emission limitation, the permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the Toledo Division of Environmental Services documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of sulfur dioxide values in excess of the applicable rolling, 30-day average sulfur dioxide emission rate (lb/mmBtu). These reports shall also contain average daily sulfur dioxide emission rates (lb/mmBtu) which are greater than 1.5 times the sulfur dioxide emission limitation specified in Section A.1.

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

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

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

3. If coal sampling and analysis is used to demonstrate compliance with the sulfur dioxide emission limitation, the permittee shall submit deviation (excursion) reports that document any average daily sulfur dioxide emission rate which was greater than 1.5 times the sulfur dioxide emission limitation specified in Section A.1 and any 30-day rolling, weighted average sulfur dioxide emission rate greater than the sulfur dioxide emission limitation specified in Section A.1. These reports shall be submitted in accordance with Section A.1.c.ii of the General Terms and Conditions.

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

V. Testing Requirements

1. The permittee shall conduct, or have conducted, particulate emission testing for the common stack serving emissions units B002, B003 and B004 to demonstrate compliance with the allowable mass emission rate of 0.10 lb/mmBtu actual heat input in accordance with the following requirements:

The particulate emission testing shall be conducted twice during the term of this permit. Once between years 2 and 3, and once during the last year of the permit.

Compliance with the allowable mass emission rate for particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(9). The average emissions rate of all emissions units in operation and vented to the common stack during the test shall be used to demonstrate compliance with the lb/mmBtu emission limitation.

The test(s) shall be conducted while emissions units B002, B003 and B004 are operating at or near their maximum capacity.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division 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 Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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 Toledo Division 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 Toledo Division of Environmental Services.

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

2. Compliance with the visible emission limitations in OAC rule 3745-17-07(A)(1) shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03(B)(1).

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

3. Compliance with the sulfur dioxide emission limitation shall be based upon a 30-day rolling, weighted average basis of the daily sulfur dioxide emission rates (when using coal sampling data), in accordance with the USEPA's policy entitled "Enforcement Policy for Sulfur Dioxide Emission Limitations in Ohio" and dated February 11, 1980 (45 FR 9101). The daily and 30-day rolling average sulfur dioxide emission rates shall be determined and reported in accordance with the applicable requirements of sections A.III.2, A.III.3, A.IV.2 and A.IV.3 of this permit. The permittee may be required to perform sulfur dioxide emission tests on the common stack serving emissions units B002, B003 and B004 if warranted by the USEPA's enforcement policy. In such cases, the methods and procedures specified in 40 CFR Part 60.46 shall be employed, and the average emissions rate of all emissions units in operation and vented to the common stack shall be used to demonstrate compliance with the lb/mmBtu SO2 emission limitation.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
B003 - Babcock & Wilcox pulverized coal-fired, dry bottom boiler, having a nominal capacity of 1217 mmBtu/hr, and controlled with an electrostatic precipitator (ESP).	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

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

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

V. Testing Requirements (continued)

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

Applicable Compliance Method:
Compliance with this emission limitation shall be determined through the use of the continuous opacity monitoring system data. During each calendar quarter, the permittee shall be deemed in compliance with this emission limitation if the following conditions are met:

a. the nonexempt opacity values in excess of 20% opacity are less than 1.10% of the 6-minute average opacity values. (Exempt opacity values are defined in paragraphs (A)(1)(b), (A)(2), and (A)(3) of OAC rule 3745-17-07.)

b. none of the nonexempt 6-minute average opacity values exceeds 60%.

c. the total amount of time, in hours, of exempt and nonexempt opacity values greater than 20% and less than 60% (not including start-up, shutdown, and malfunction exemptions provided in paragraphs (A)(1)(b), (A)(2), and (A)(3) of OAC rule 3745-17-07) does not exceed the product of 0.10 times the actual number of hours the emissions unit was in operation during the calendar quarter.

In the event of a discrepancy between the continuous opacity monitoring data and any observations performed in accordance with paragraph (B)(1)(a) of OAC rule 3745-17-03 during the same time period, an evaluation may be performed by the Ohio EPA to assess the accuracy of the continuous opacity monitoring data (which may include an audit of the continuous opacity monitoring system performed in accordance with U.S. EPA document 340/1-83-010) and the validity of the observations performed in accordance with paragraph (B)(1)(a) of OAC rule 3745-17-03. The Ohio EPA may accept and utilize any data or observation it finds credible. The permittee is not precluded from using any credible evidence in defense of any enforcement action that may be initiated by the Ohio EPA.

VI. Miscellaneous Requirements

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

2. A logbook documenting activities relating to the continuous sulfur dioxide montoring 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: Boiler #4 (B004)

Activity Description: Coal-fired Utility Boiler for Electric Generation - 1197 Million Btu/Hr.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
B004 - Babcock & Wilcox pulverized coal-fired, dry bottom boiler, having a nominal capacity of 1862 mmBtu/hr, and controlled with an electrostatic precipitator (ESP).	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(C)(1)	Particulate emissions shall not exceed 0.10 lb/mmBtu actual heat input.
	OAC rule 3745-18-54(V)(1)	Sulfur dioxide emissions shall not exceed 1.94 lbs/mmBtu actual heat input.

2. Additional Terms and Conditions

None

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 the common stack serving emissions units B002, B003 and B004. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

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

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

2. If the continuous sulfur dioxide monitoring system is used to demonstrate compliance with the sulfur dioxide emission limitation, the permittee shall operate and maintain equipment to continuously monitor and record sulfur dioxide emissions from the common stack serving emissions units B002, B003 and B004 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.

The permittee shall maintain documentation from the USEPA or the Ohio EPA that the continuous sulfur dioxide 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 sulfur dioxide monitoring system: the average daily and rolling, 30-day average emission rates of sulfur dioxide in lb/mmBtu actual heat input, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments. In addition, the permittee shall maintain daily records of the total actual heat input values as determined through F-Factor and carbon dioxide/oxygen calculations as specified in 40 CFR Part 60, Appendix A, Method 19.

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

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

3. If coal sampling and analysis is used to demonstrate compliance with the sulfur dioxide emission limitation, 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 average sulfur dioxide emission rate (lbs/mmBtu). The analyses for ash content, sulfur content and heat content shall be performed in accordance with the following:

The permittee shall collect daily composite samples of the coal burned in 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 the most recent version of 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 Toledo Division of Environmental Services.

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

4. To obtain an exemption pursuant to OAC rule 3745-17-07(A)(3)(a)(i) or (A)(3)(b)(i), the permittee shall operate and maintain a temperature monitor that measures the temperature of the boiler exhaust gases entering the ESP (a) during all periods of start-up until the ESP is operational or until the inlet temperature of the ESP achieves the temperature level specified in OAC rule 3745-17-07(A)(3)(a)(i) and (b) during all periods of shutdown until the inlet temperature of the ESP drops below the temperature level specified in OAC rule 3745-17-07(A)(3)(b)(i). 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.

(Authority for term: OAC rules 3745-77-07(C)(1), 3745-17-07(A)(3)(a)(i) and 3745-17-07(A)(3)(b)(i))

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 Toledo Division of Environmental Services documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07, 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(s).

The reports shall also identify any excursions of the start-up and shutdown provisions specified in OAC rule 3745-17-07(A)(3) and 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 quarter.

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

2. If the continuous sulfur dioxide monitoring system is used to demonstrate compliance with the sulfur dioxide emission limitation, the permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the Toledo Division of Environmental Services documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of sulfur dioxide values in excess of the applicable rolling, 30-day average sulfur dioxide emission rate (lb/mmBtu). These reports shall also contain average daily sulfur dioxide emission rates (lb/mmBtu) which are greater than 1.5 times the sulfur dioxide emission limitation specified in Section A.1.

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

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

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

3. If coal sampling and analysis is used to demonstrate compliance with the sulfur dioxide emission limitation, the permittee shall submit deviation (excursion) reports that document any average daily sulfur dioxide emission rate which was greater than 1.5 times the sulfur dioxide emission limitation specified in Section A.1 and any 30-day rolling, weighted average sulfur dioxide emission rate greater than the sulfur dioxide emission limitation specified in Section A.1. These reports shall be submitted in accordance with Section A.1.c.ii of the General Terms and Conditions.

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

V. Testing Requirements

1. The permittee shall conduct, or have conducted, particulate emission testing for the common stack serving emissions units B002, B003 and B004 to demonstrate compliance with the allowable mass emission rate of 0.10 lb/mmBtu actual heat input in accordance with the following requirements:

The particulate emission testing shall be conducted twice during the term of this permit. Once between years 2 and 3, and once during the last year of the permit.

Compliance with the allowable mass emission rate for particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(9). The average emissions rate of all emissions units in operation and vented to the common stack during the test shall be used to demonstrate compliance with the lb/mmBtu emission limitation.

The test(s) shall be conducted while emissions units B002, B003 and B004 are operating at or near their maximum capacity.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division 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 Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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 Toledo Division 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 Toledo Division of Environmental Services.

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

2. Compliance with the visible emission limitations in OAC rule 3745-17-07(A)(1) shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in OAC rule 3745-17-03(B)(1).

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

3. Compliance with the sulfur dioxide emission limitation shall be based upon a 30-day rolling, weighted average basis of the daily sulfur dioxide emission rates (when using coal sampling data), in accordance with the USEPA's policy entitled "Enforcement Policy for Sulfur Dioxide Emission Limitations in Ohio" and dated February 11, 1980 (45 FR 9101). The daily and 30-day rolling average sulfur dioxide emission rates shall be determined and reported in accordance with the applicable requirements of sections A.III.2, A.III.3, A.IV.2 and A.IV.3 of this permit. The permittee may be required to perform sulfur dioxide emission tests on the common stack serving emissions units B002, B003 and B004 if warranted by the USEPA's enforcement policy. In such cases, the methods and procedures specified in 40 CFR Part 60.46 shall be employed, and the average emissions rate of all emissions units in operation and vented to the common stack shall be used to demonstrate compliance with the lb/mmBtu SO2 emission limitation.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
B004 - Babcock & Wilcox pulverized coal-fired, dry bottom boiler, having a nominal capacity of 1862 mmBtu/hr, and controlled with an electrostatic precipitator (ESP).	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

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

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

V. Testing Requirements (continued)

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

Applicable Compliance Method:
Compliance with this emission limitation shall be determined through the use of the continuous opacity monitoring system data. During each calendar quarter, the permittee shall be deemed in compliance with this emission limitation if the following conditions are met:

a. the nonexempt opacity values in excess of 20% opacity are less than 1.10% of the 6-minute average opacity values. (Exempt opacity values are defined in paragraphs (A)(1)(b), (A)(2), and (A)(3) of OAC rule 3745-17-07.)

b. none of the nonexempt 6-minute average opacity values exceeds 60%.

c. the total amount of time, in hours, of exempt and nonexempt opacity values greater than 20% and less than 60% (not including start-up, shutdown, and malfunction exemptions provided in paragraphs (A)(1)(b), (A)(2), and (A)(3) of OAC rule 3745-17-07) does not exceed the product of 0.10 times the actual number of hours the emissions unit was in operation during the calendar quarter.

In the event of a discrepancy between the continuous opacity monitoring data and any observations performed in accordance with paragraph (B)(1)(a) of OAC rule 3745-17-03 during the same time period, an evaluation may be performed by the Ohio EPA to assess the accuracy of the continuous opacity monitoring data (which may include an audit of the continuous opacity monitoring system performed in accordance with U.S. EPA document 340/1-83-010) and the validity of the observations performed in accordance with paragraph (B)(1)(a) of OAC rule 3745-17-03. The Ohio EPA may accept and utilize any data or observation it finds credible. The permittee is not precluded from using any credible evidence in defense of any enforcement action that may be initiated by the Ohio EPA.

VI. Miscellaneous Requirements

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

2. A logbook documenting activities relating to the continuous sulfur dioxide montoring 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: Gas Turbine (B005)

Activity Description: Oil-fired Gas Turbine - 20 mW - for peak electrical demand

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
General Electric distillate oil-fired (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil) turbine with a nominal capacity of 283.5 mmBtu/hr.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(4)	Particulate emissions shall not exceed 0.040 lb/mmBtu actual heat input.
	OAC rule 3745-18-54(V)(2)	Sulfur dioxide emissions shall not exceed 0.4 lb/mmBtu actual heat input.

2. Additional Terms and Conditions

None

II. Operational Restrictions

1. 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, in accordance with the procedures specified in Sections A.III.1, A.III.2, and A.V.1.c.

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

2. The permittee shall burn only distillate oil in this emissions unit.

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

III. Monitoring and/or Record Keeping Requirements

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

a. Alternative 1:

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

b. Alternative 2:

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

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

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

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

3. For each day during which the permittee burns a prohibited fuel (i.e., one other than distillate oil), the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following:

a. each day when a prohibited fuel (i.e., one other than distillate 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 reports shall be submitted in accordance with General Term and Condition A.1.c.ii.

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

V. Testing Requirements

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

V. Testing Requirements (continued)

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

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

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

1.b Emission Limitation: Particulate emissions shall not exceed 0.040 lb/mmBtu actual heat input.

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 procedures specified in OAC rule 3745-17-03(B)(10).

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

1.c Emission Limitation: Sulfur dioxide emissions shall not exceed 0.4 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 or each daily sample collected 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.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Circulating Fluidized Bed Boiler (B006)

Activity Description: Circulating fluidized bed boiler for Electric Generation - 1764 Million Btu/Hr.

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
B006-circulating fluidized bed (CFB) boiler fired primarily with petroleum coke (1736 MMBtu/hr rating) and use of coal (1764 MMBtu/hr rating) as a backup fuel, controlled by a fabric filter	OAC rule 3745-31-05(A)(3) (PTI 04-01056)	Carbon monoxide (CO) emissions shall not exceed 0.28 lb/MMBtu actual heat input at half load (i.e., equal to 979 MMBtu/hr). CO emissions shall not exceed 0.20 lb/MMBtu actual heat input between three-quarter load and full load (i.e., equal to or greater than 1393.4 MMBtu/hr but less than 1764 MMBtu/hr). CO emissions shall not exceed 0.13 lb/MMBtu actual heat input at full load (i.e., equal to 1764 MMBtu/hr). CO emissions shall not exceed 278.6 lbs/hr as a rolling, 3-hour average, except during periods of startup and shutdown. CO emissions shall not exceed 1220 tons/yr as a rolling, 12-month summation of the monthly emissions See A.I.2.a and A.I.2.j below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		Nitrogen oxides (NOx) emissions shall not exceed 0.20 lb/MMBtu actual heat input. NOx emissions shall not exceed 1.6 lbs/megawatt-hr gross energy output. NOx emissions shall not exceed 529.3 lbs/hr. NOx emissions shall not exceed 1546 tons/yr. See A.I.2.a and A.I.2.e below.
		Particulate emissions (PE) shall not exceed 0.03 lb/MMBtu actual heat input. PE shall not exceed 232 tons/yr. See A.I.2.a and A.I.2.d below. Particulate emissions less than 10 microns in diameter (PM10) shall not exceed 0.025 lb/MMBtu actual heat input. PM10 emissions shall not exceed 193 tons/yr. See A.I.2.a and A.I.2.c below.
		Sulfur dioxide (SO2) emissions shall not exceed 0.73 lb/MMBtu actual heat input. SO2 emissions shall be reduced by not less than 90%, except as provided below. SO2 emissions shall be reduced by not less than 70%, for all SO2 emission rates less than 0.60 lb/MMBtu. SO2 emissions shall not exceed 1897.6 lbs/hr. SO2 emissions shall not exceed 5541 tons/yr. See A.I.2.b and A.I.2.c below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
		Organic compound (OC) emissions shall not exceed 4.4 lbs/hr. OC emissions shall not exceed 19.3 tons/yr. See A.I.2.a below.
	OAC rule 3745-17-07(A)(1)	See A.I.2.f below.
	OAC rule 3745-17-10(C)(1)	See A.I.2.f below.
	OAC rule 3745-18-54(A)	See A.I.2.i below.
	OAC rules 3745-31-10 through 20	See A.I.2.g below.
	40 CFR Part 52.21	See A.I.2.g below.
	40 CFR Part 60, Subpart Da	See A.I.2.h below.

2. Additional Terms and Conditions

2.a Calculations based upon firing coal, which generates the worst case emissions for this pollutant. Coal will be used as a backup fuel.

(Authority for term: PTI 04-01056)

2.b Calculations based upon firing coke, which generates the worst case emissions for this pollutant.

(Authority for term: PTI 04-01056)

2.c Compliance shall be determined in accordance with 40 CFR Parts 60.8(b) through (f). See A.V.8 below.

(Authority for term: PTI 04-01056)

2.d The requirements of this rule also include compliance with the reduction requirements for PE and the visible PE limitations specified in 40 CFR Part 60, Subpart Da.

(Authority for term: PTI 04-01056)

2.e This emissions unit generates process steam in combination with electrical generation; therefore, compliance with the NOx output based standard is determined using the procedure outlined under 40 CFR Part 60.49Da(k)(1) through (k)(3).

(Authority for term: 40 CFR 60.49Da(k))

2.f The emission limitation specified by this rule is less stringent than the emission limitation specified by 40 CFR Part 60, Subpart Da.

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

2.g The requirements of this rule are satisfied by complying with the CO emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

(Authority for term: PTI 04-01056)

2. Additional Terms and Conditions (continued)

2.h i. The permittee shall not discharge from the stack serving this emissions unit, any gases which contain PE in excess of:

(a) 1% of the potential combustion PE concentration (99% reduction) when combusting solid fuel;

(b) visible emissions from the stack serving this emissions unit shall not exceed 20% opacity as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity; and

(c) see A.I.2.c above.

(Authority for term: 40 CFR Part 60 Subpart Da)

ii. The SO2 emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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

iv. The PE emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(Authority for term: PTI 04-01056)

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

(Authority for term: PTI 04-01056)

2.j This is a base load emissions unit. Startup and shutdown periods are defined as operation at loads less than 979 mmBtu/hr heat input.

II. Operational Restrictions

1. The use of number 2 fuel oil shall be permitted for the start-up and shutdown of this emissions unit and during periods of emissions unit operation at lower loads when it is needed for flame stabilization. This emissions unit shall comply with the allowable emission limitations when firing number 2 fuel oil.

The quality of the number 2 fuel oil fired in this emissions unit shall have a sulfur content of no greater than 0.5% and shall be sufficient to comply with the SO2 allowable emission limitation of 0.73 lb/MMBtu actual heat input.

(Authority for term: PTI 04-01056)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain equipment to continuously monitor and record the opacity of the 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 emission 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.

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

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.

(Authority for term: PTI 04-01056)

2. The permittee shall operate and maintain equipment to continuously monitor and record the SO2 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, analyzers, and data recording/processing hardware and software.

The permittee shall maintain on site a certification letter from the USEPA or the Ohio EPA documenting that the continuous SO2 monitoring system has been certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specifications 2 and 6 or 40 CFR Part 75. The certification letter shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous SO2 monitoring system: emissions of SO2 in lb/MMBtu actual heat input on an hourly average basis, on a daily average basis, and on a rolling, 30-day average basis; emissions of SO2 in lb/hr on an hourly average basis; actual tons of SO2 per quarter; 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 SO2 monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. 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 SO2 monitoring system designed to ensure continuous valid and representative readings of SO2 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 SO2 monitoring system must be kept on site and available for inspection during regular office hours.

(Authority for term: PTI 04-01056)

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

3. The permittee shall operate and maintain equipment to continuously monitor and record NOx 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 60.51Da 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 on site a certification letter from the USEPA or the Ohio EPA documenting that the continuous NOx monitoring system has been certified in accordance with 40 CFR Part 60, Appendix B, Performance Specifications 2 and 6 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 NOx monitoring system: emissions of NOx in lb/hr on a hourly average basis, on a daily average basis, and on a rolling, 30-day average basis; emissions of NOx in lb/MMBtu actual heat input on an hourly average basis, on a daily average basis, and on a rolling, 30-day average basis; actual tons of NOx per quarter; 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 NOx monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. 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 NOx monitoring system designed to ensure continuous valid and representative readings of NOx 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 NOx monitoring system must be kept on site and available for inspection during regular office hours.

(Authority for term: PTI 04-01056)

4. The permittee shall operate and maintain equipment to continuously monitor and record the CO emissions from this emissions unit in units of the applicable standards. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

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 on site a certification letter from the USEPA or the Ohio EPA documenting that the continuous CO monitoring system has been certified in accordance with 40 CFR Part 60, Appendix B, Performance Specifications 4 and 6. 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 CO monitoring system: lb/MMBtu on an hourly average basis, lbs/hour, 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.

Using the hourly CO emissions data obtained by the continuous emissions monitoring system, the permittee shall calculate the monthly CO emissions in tons, and the annual CO emissions in tons per year as a rolling, 12-month summation of the monthly emissions.

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

The permittee shall maintain a log of the date, time and duration of all periods of startup and shutdown.

The permittee may conduct the relative accuracy test audits for the continuous CO monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. In addition, in lieu of the cylinder gas audits required pursuant to 40 CFR Part 60, linearity checks may be conducted for the CO monitoring system in a manner consistent with the requirements for the linearity checks being conducted for the NOx monitoring system. The linearity checks may be conducted at the frequencies specified in 40 CFR Part 75, Appendix B.

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

(Authority for term: PTI 04-01056)

5. The permittee shall operate and maintain equipment to continuously monitor and record carbon dioxide emissions from this emissions unit in units of percent carbon dioxide. 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.

The permittee shall maintain records of the following data obtained by the continuous carbon dioxide monitoring system: percent carbon dioxide on an hourly average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

The permittee may conduct the relative accuracy test audits for the continuous carbon dioxide monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75. In addition, in lieu of the cylinder gas audits required pursuant to 40 CFR Part 60, linearity checks may be conducted for the carbon dioxide monitoring system in a manner consistent with the requirements for the linearity checks being conducted for the nitrogen oxides monitoring system. The linearity checks may be conducted at the frequencies specified in 40 CFR Part 75, Appendix B.

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

(Authority for term: PTI 04-01056)

6. The permittee shall operate and maintain a continuous flow monitoring system, and record the output of the system for measuring the flow of exhaust gases discharged to the atmosphere. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75.

(Authority for term: PTI 04-01056)

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

7. The procedures specified below shall be used to determine gross energy output for demonstrating compliance with the output-based standard under 40 CFR Part 60.44Da(d)(1).

a. The permittee shall maintain and operate a watt meter, measure gross electrical output in megawatt-hour on a continuous basis, and record the output of the monitor.

b. The permittee shall maintain and operate meters for steam flow, temperature, and pressure; measure gross process steam output in joules per hour (or Btu per hour) on a continuous basis; and record the output of the monitor.

c. When generating process steam in combination with electrical generation, the gross energy output is determined from the gross electrical output measured in accordance with paragraph a of this section plus 75% of the gross thermal output of the process steam measured in accordance with paragraph b of this section.

(Authority for term: PTI 04-01056)

8. For the SO2, NOx, and CO2 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 60.49Da(h).

(Authority for term: PTI 04-01056)

9. The permittee shall maintain daily records of the total quantity of fuel (petroleum coke or coal) burned, and the results of the analyses for sulfur content and heat content in accordance with the following:

The permittee shall collect daily samples of the fuel (petroleum coke or coal) burned in this emissions unit. The individual samples for each day shall be collected from each of the designed fuel feed sampling locations, when in use. The fuel sampling shall be performed in accordance with the most recent version of ASTM method D2234, Collection of a Gross Sample of Coal. Alternative, equivalent methods may be used upon written approval from the Ohio EPA, Central Office or Toledo Division of Environmental Services.

Each daily sample of fuel shall be analyzed for sulfur content (percent) and heat content (Btu/pound of fuel). The analytical methods for sulfur content and heat content shall be the most recent version of 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 Ohio EPA, Central Office or Toledo Division of Environmental Services.

(Authority for term: PTI 04-01056)

10. 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 SO2 emission rate (in lbs/MMBtu). (The SO2 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, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

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

(Authority for term: PTI 04-01056)

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

11. The permittee shall also maintain the following records:

a. the average hourly heat input (MMBtu/hr) for each fuel burned each month;

b. SO2 emission reduction for each day, in percent;

c. rolling, 30-day SO2 emission reduction, in percent; and

d. emissions of NOx in lbs/megawatt-hour gross energy output on a hourly average basis, on a daily average basis, and on a rolling, 30-day average basis.

(Authority for term: PTI 04-01056)

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 Toledo Division of Environmental Services documenting all instances of opacity values in excess of the limitations specified in 40 CFR Part 60.42Da(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(s).

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.

[60.51Da(f)]
For any period for which opacity 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.

(Authority for term: PTI 04-01056)

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 Toledo Division of Environmental Services documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of 3-hour average SO2 values in excess of the applicable sulfur dioxide emission limitation (lb/hr).

The reports shall document any continuous SO2 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.

[60.51Da(b)]
The reports shall also include the following for each 24-hour period:

a. Calendar date.

b. The average sulfur dioxide emission rate (lb/MMBtu) for each 30 successive boiler operating day, ending with the last 30-day period in the quarter; reasons for non-compliance with the emission standards; and, description of corrective actions taken.

c. Percent reduction of the potential combustion concentration of sulfur dioxide for each 30 successive boiler operating days, ending with the last 30-day period in the quarter; reasons for non-compliance with the standard; and, description of corrective actions taken.

d. Identification of the boiler operating days for which pollutant or dilutent data have not been obtained by an approved method for at least 18 hours of operation of the emissions unit; justification for not obtaining sufficient data; and description of corrective actions taken.

e. 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.

f. Identification of the "F" factor used for calculations, method of determination, and type of fuel combusted;

g. Identification of times when hourly averages have been obtained based on manual sampling methods;

h. Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system; and

i. 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.

[60.51Da(f)]
For any period for which SO2 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.

(Authority for term: PTI 04-01056)

IV. Reporting Requirements (continued)

3. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Toledo Division of Environmental Services documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NOx values in excess of the lb/hr emission limitation.

The reports shall also document any continuous NOx 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.

[60.51Da(b)]
The reports shall also include the following for each 24-hour period:

a. Calendar date.

b. The average nitrogen oxide emission rate (lb/million Btu) for each 30 successive boiler operating days, ending with the last 30-day period in the quarter; reasons for non-compliance with the emission standards; and, description of corrective actions taken.

c. Identification of the boiler operating days for which pollutant or dilutent 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;

d. 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;

e. Identification of the "F" factor used for calculations, method of determination, and type of fuel combusted;

f. Identification of times when hourly averages have been obtained based on manual sampling methods;

g. Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system; and

h. 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.

[60.51Da(f)]
For any period for which NOx 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.

(Authority for term: PTI 04-01056)

IV. Reporting Requirements (continued)

4. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Toledo Division of Environmental Services documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of rolling, 3-hour average CO values in excess of the applicable carbon monoxide emission limitation (lb/hr and lb/mmBtu) and the rolling, 12-month emission limitation (tons) for CO.

The reports shall also document any continuous CO monitoring system downtime while the emissions unit was on line and not in startup or shutdown mode (date, time, duration, and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

If there are no excess CO 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 malfunctions. 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.

(Authority for term: PTI 04-01056)

5. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Toledo Division of Environmental Services documenting any exceedances of the following:

a. the rolling, 30-day SO2 emission reduction emission limitation for SO2 emission rates less than 0.60 lb/MMBtu;

b. the rolling, 30-day SO2 emission reduction emission limitation for SO2 emission rates greater than 0.60 lb/MMBtu;

c. the rolling, 30-day NOx lbs/megawatt-hour gross energy output emission limitation; and

d. the number 2 fuel oil sulfur content restriction.

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.

(Authority for term: PTI 04-01056)

6. The permittee shall also submit annual reports that specify the total CO, NOx, PM10, SO2, and OC 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.

(Authority for term: PTI 04-01056)

IV. Reporting Requirements (continued)

7. [60.51Da(c)]
If the minimum quantity of emission data as required by 40 CFR Part 60.49Da is not obtained for any 30 successive emissions unit operating days, the following information obtained under the requirements of 40 CFR Part 60.48Da(h) is reported to the Toledo Division 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.

8. [60.51Da(d)]
If any standard under 40 CFR Part 60.43Da 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 60.48Da(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 (lb/MMBtu) of the pollutant discharged; and

h. actions taken to correct control system malfunction.

9. [60.51Da(e)]
If fuel pretreatment credit toward the sulfur dioxide emission standard under 40 CFR Part 60.43Da 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 60.50Da 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.

IV. Reporting Requirements (continued)

10. [60.51Da(h)]
The permittee shall submit a signed statement indicating whether:

a. The required continuous monitoring system calibration, span, and drift checks or other periodic audits have or have not been performed as specified.

b. The data used to show compliance was or was not obtained in accordance with approved methods and procedures of this part and is representative of plant performance.

c. The minimum data requirements have or have not been met; or, the minimum data requirements have not been met for errors that were unavoidable.

d. Compliance with the standards has or has not been achieved during the reporting period.

V. Testing Requirements

1. Visible Particulate Emission Limitations

The continuous opacity monitoring data may be used to demonstrate compliance with the requirements of 40 CFR Part 60.42Da(b). Compliance with the visible emission limitations in 40 CFR Part 60.42Da(b) shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in 40 CFR Part 60.50Da.

(Authority for term: PTI 04-01056)

2. SO2 Emission Limitations

a. Compliance with the SO2 lb/MMBtu emission limitation shall be based upon a rolling, 30-day average of the daily SO2 emission rates, in accordance with the methods and procedures specified in 40 CFR Parts 60.48Da and 60.50Da.

b. Compliance with the SO2 lb/hr emission limitation shall be based upon the 3-hour average data obtained by the continuous SO2 monitoring system. Or, if required, the permittee shall demonstrate compliance with the SO2 lb/hr emission limitation in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6 or alternative U.S. EPA-approved methods.

c. Compliance with the SO2 percent reduction requirements shall be based upon a rolling, 30-day average of the inlet and outlet SO2 mass emission rates. The inlet SO2 emission rate shall be determined by the daily fuel sampling described in the section A.III.9 The mass emission rates of SO2 shall be determined in accordance with the methods and procedures specified in 40 CFR Part 60.50Da(c)(1).

d. The tons per year emission limitation reflects the potential to emit for this emissions unit based on lb/MMBtu emission rate at full heat input load. Therefore, provided that the permittee complies with the lb/MMBtu emission limitation (see section A.III.2) compliance with the tons per year emission limitation is demonstrated.

(Authority for term: PTI 04-01056)

V. Testing Requirements (continued)

3. NOx Emission Limitations

a. If required, compliance with the allowable mass emission rate for NOx shall be demonstrated in accordance with the methods and procedures specified in 40 CFR Parts 60.48Da, 60.49Da and 60.50Da.

b. Compliance with the NOx lbs/megawatt-hour gross energy output, lbs/hr, and lbs/MMBtu heat input emission limitations shall be based upon the 30-day average data obtained by the continuous NOx and gross energy output monitoring systems.

c. The tons per year emission limitation reflects the potential to emit for this emissions unit based on lb/MMBtu emission rate at full heat input load. Therefore, provided that the permittee complies with the lb/MMBtu emission limitation (see section A.III.3) compliance with the tons per year emission limitation is demonstrated.

(Authority for term: PTI 04-01056)

4. Particulate Emission Limitations

a. If required, compliance with the allowable mass emission rate for particulates specified in 40 CFR Part 60.42Da(a)(1) shall be determined in accordance with the procedures in 40 CFR Parts 60.48Da(a) and 60.50Da(b)(2) or the alternative methods provided for under 40 CFR Part 60.50Da(e).

b. Compliance with the particulate matter emission limitation under 40 CFR Part 60.42Da(a)(1) constitutes compliance with the percent reduction requirements for particulate matter under 40 CFR Parts 60.42Da(2) and 60.42Da(3).

c. The tons per year emission limitation reflects the potential to emit for this emissions unit based on the lb/MMBtu emission rate at full heat input load. Therefore, provided that the permittee complies with the lb/MMBtu emission limitation compliance with the tons per year emission limitation is demonstrated.

(Authority for term: PTI 04-01056)

5. PM10 Emission Limitations

a. Compliance with the PM10 emission limitation shall be demonstrated by multiplying the results of the emission tests conducted for particulate matter in accordance with 40 CFR Part 60.50Da by a factor of 0.83. The 0.83 factor was derived based on particulate size distribution data from a coal-fired fluidized bed boiler and was developed by the Electric Power Research Institute. If required, the permittee shall demonstrate compliance with the PM10 lb/MMBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 40 CFR Part 51, Appendix M, Methods 201 and 202.

b. The tons per year emission limitation reflects the potential to emit for this emissions unit based on lb/MMBtu emission rate at full heat input load. Therefore, provided that the permittee complies with the lb/MMBtu emission limitation compliance with the tons per year emission limitation is demonstrated.

(Authority for term: PTI 04-01056)

V. Testing Requirements (continued)

6. CO Emission Limitations

a. If required, compliance with the CO lb/MMBtu emission limitation shall be based upon emission testing and the heat input data derived from the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10 and 19, respectively, or alternative U.S. EPA-approved methods. If required, emission testing shall be conducted at half load, three-quarter load and full load or emission testing at one appropriate load and use of the certified CEM to verify compliance with the other two load limitations.

b. Compliance with the 278.6 lbs/hr (rolling, 3-hr average) carbon monoxide emission limitation shall be based upon the hourly average data, excluding start-up and shut-down emissions for periods recorded in Section A.III.4, obtained by the continuous carbon monoxide monitoring system. Or, if required, the permittee shall demonstrate compliance with the 278.6 lbs/hr (rolling, 3-hr average) carbon monoxide emission limitation in accordance with the procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10 or alternate approved method.

c. Compliance with the rolling tons per year emission limitation shall be based on the monitoring and recordkeeping requirements for CO in Section A.III.4.

(Authority for term: PTI 04-01056)

7. OC Emission Limitations

a. Compliance with the OC lb/hr emission limitation may be demonstrated by multiplying the 0.0025 lb/MMBtu emission factor (provided by the manufacturer in the permit application) by the specified heat input for the emissions unit when firing coal (1764 MMBtu/hr). If required, the permittee shall demonstrate compliance with this emission limitation through emission testing performed in accordance with the methods and procedures specified in OAC rule 3745-21-10(C).

b. The tons per year emission limitation reflects the potential to emit for this emissions unit based on lb/MMBtu emission rate at full heat input load. Therefore, provided that the permittee complies with the lb/MMBtu emission limitation compliance with the tons per year emission limitation is demonstrated.

(Authority for term: PTI 04-01056)

8. The permittee shall conduct, or have conducted, particulate emission testing for this emissions unit to demonstrate compliance with the lb/MMBtu particulate emission limitation, the lb/MMBtu PM10 emission limitation, and the visible particulate emission limitation in accordance with the following requirements:

The particulate emission testing shall be conducted within 12 months of the expiration of this permit.

Compliance with the lb/MMBtu particulate emission limitation shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 17.

Compliance with the lb/MMBtu PM10 emission limitation shall initially be determined by multiplying the results of the particulate emission tests by the 0.83 factor developed by the Electric Power Research Institute (see section A.V.5 above). Should the adjusted particulate test results indicate a potential compliance problem with the PM10 emission limitation, additional emission testing using 40 CFR Part 60, Appendix A, Methods 1 through 4 and 40 CFR Part 51, Appendix M, Methods 201 and 202 may be required.

Compliance with the visible particulate emission limitation shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in 40 CFR Part 60.48a.

Alternate U.S. EPA-approved methods may be used with prior approval from the Ohio EPA.

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

(Authority for term: PTI 04-01056)

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 Toledo Division 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 Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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 Toledo Division 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 Toledo Division of Environmental Services.

(Authority for term: PTI 04-01056)

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Coal Pile (F003)

Activity Description: Coal Storage Pile

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
load-in or load-out of coal storage piles (see Section A.I.2.a for identification of coal storage piles)	OAC rule 3745-17-07(B)(7)(b)	20% opacity, as a 3-minute average (see Section A.I.2.h)
	OAC rule 3745-17-08(B)(6)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.b, A.I.2.c and A.I.2.g)
operation of vehicles on top of coal storage piles, excluding emissions from the combustion of fuels in such vehicles (i.e., pile working)	OAC rule 3745-17-07(B)(7)(c)	20% opacity, as a 3-minute average (see Section A.I.2.h)
	OAC rule 3745-17-08(B)(6)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.d, A.I.2.f and A.I.2.g)
wind erosion from coal storage piles	OAC rule 3745-17-07(B)(7)(d)	no visible emissions except for 13 minutes during any 60-minute period (see Section A.I.2.h)
	OAC rule 3745-17-08(B)(6)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.e through A.I.2.g)

2. Additional Terms and Conditions

2.a The coal storage piles that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

all coal storage piles at the plant.

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

2. Additional Terms and Conditions (continued)

2.b The permittee shall employ reasonably available control measures on all coal load-in and load-out operations associated with the coal storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall employ precautionary operating practices (i.e., minimize coal load-in if wind speeds appear to be excessive, minimize pile disturbance, etc.), use of a variable height stacker, and/or treat the coal load-in and load-out operations with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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

2.c The above-mentioned control measures 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 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.

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

2.d The permittee shall employ reasonably available control measures on all pile working operations associated with the coal storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to employ precautionary operating practices and/or treat the pile working operations with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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

2.e The permittee shall employ reasonably available control measures for wind erosion from pile surfaces associated with the coal storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to employ precautionary operating practices and/or treat the pile working operations with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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

2.f The above-mentioned control measures 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 measures are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measures 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.

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

2.g 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 3745-17-08.

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

2. Additional Terms and Conditions (continued)

2.h The emission limitation and rule citation reflect the settlement agreement reached between Ohio EPA and the Ohio Electric Utilities concerning the Utilities' appeal to the Ohio Environmental Review Appeals Commission of the 1991 revisions and additions to OAC Chapter 3745-17. The revised rule containing the limitation and rule citation was adopted by the Director of Ohio EPA in December, 1997. The USEPA and the Ohio Electric Utilities have agreed to consider the emission limitation and rule citation as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of the limitation and rule citation as a revision to the Ohio SIP for particulate matter.

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

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 load-in operation at each coal storage pile in accordance with the following frequencies:

coal storage pile identification:
all coal storage piles at the plant

minimum coal load-in inspection frequency:
daily when in use

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

2. Except as otherwise provided in this section, the permittee shall perform inspections of each coal load-out operation at each coal storage pile in accordance with the following frequencies:

coal storage pile identification:
all coal storage piles at the plant

minimum coal load-out inspection frequency:
daily when in use

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

3. Except as otherwise provided in this section, the permittee shall perform inspections of each pile working operation associated with each coal storage pile in accordance with the following frequencies:

coal storage pile identification:
all coal storage piles at the plant

minimum coal pile working inspection frequency:
daily when in use

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

4. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each coal storage pile in accordance with the following frequencies:

coal storage pile identification:
all coal storage piles at the plant

minimum wind erosion inspection frequency:
daily

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

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

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.

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

6. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for coal load-in or load-out of a storage pile, pile working operations, and wind erosion from the surface of a coal storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

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

7. The permittee may, upon receipt of written approval from the Toledo Division 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.

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

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

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) 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.

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

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

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

V. Testing Requirements

1. Compliance with the visible emission limitations identified above shall be determined in accordance with the following methods:

1.a Emission Limitation: 20% opacity for coal load-in or load-out of coal storage piles, as a 3-minute average

Applicable Compliance Method: If required, Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03 shall be used to demonstrate compliance.

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

1.b Emission Limitation: 20% opacity for pile working operations on top of coal storage piles, as a 3-minute average

Applicable Compliance Method: If required, Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a), (B)(3)(b) and (B)(3)(e) of OAC rule 3745-17-03 shall be used to demonstrate compliance.

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

1.c Emission Limitation: no visible emissions except for 13 minutes during any 60-minute period for wind erosion from the coal storage pile surfaces

Applicable Compliance Method: If required, Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03 shall be used to demonstrate compliance.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
load-in or load-out of coal storage piles (see Section A.I.2.a for identification of coal storage piles)	none	none
operation of vehicles on top of coal storage piles, excluding emissions from the combustion of fuels in such vehicles (i.e., pile working)	none	none
wind erosion from coal 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 (F004)

Activity Description: Coal Unloading and Conveying System

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
coal unloading from barges, railcars, or trucks (see Section A.I.2.a); coal conveyors (see Section A.I.2.b); coal handling (see Section A.I.2.c); and coal transfer points (see Section A.I.2.d)	OAC rule 3745-17-07(B)(7)(b)	20% opacity, as a 3-minute average
	OAC rule 3745-17-08(B)(6)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.e through A.I.2.g)

2. Additional Terms and Conditions

2.a The coal unloading stations for barges, railcars, or trucks that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

the railcar rotary dumping station

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

2.b The coal conveyors that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

all coal conveyors at the plant (23)

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

2.c The coal handling operations that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

rake reclaimer to conveyors

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

2. Additional Terms and Conditions (continued)

2.d The coal transfer points that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

all coal transfer points at the plant

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

2.e The permittee shall employ reasonably available control measures on all coal unloading stations for railcars, coal conveyors, coal handling operations, and coal transfer points for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall treat the coal unloading stations and coal handling operations with water at sufficient treatment frequencies to ensure compliance. The permittee shall use adequate enclosures on coal conveyors and coal transfer points to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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

2.f For each coal unloading station, coal conveyor, coal handling operation, and coal transfer point that is not adequately enclosed, such unloading station, conveyor, handling operation or transfer point shall be treated with water and/or suitable dust suppression chemicals 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 operation of any coal unloading station, coal conveyor, coal handling, or coal transfer point until further observation confirms that use of the control measures is unnecessary.

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

2.g 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 3745-17-08.

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

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section and for coal unloading stations that are not adequately enclosed, the permittee shall perform inspections of such coal unloading stations with the following frequencies:

coal unloading station identification:
the railcar rotary dumping station

minimum inspection frequency:
daily when in operation

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

2. Except as otherwise provided in this section and for coal conveyors that are not adequately enclosed, the permittee shall perform inspections of such coal conveyors with the following frequencies:

coal conveyor identification:
all coal conveyors at the plant (23)

minimum inspection frequency:
daily when in operation

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

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

3. Except as otherwise provided in this section and for coal handling operations that are not adequately enclosed, the permittee shall perform inspections of such coal handling operations with the following frequencies:

coal handling operation identification:
rake reclaimer to conveyors

minimum inspection frequency:
daily when in operation

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

4. Except as otherwise provided in this section and for coal transfer points that are not adequately enclosed, the permittee shall perform inspections of such coal transfer points with the following frequencies:

coal transfer point identification:
all coal transfer points at the plant

minimum inspection frequency:
daily when in operation

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

5. The above-mentioned inspections shall be performed during representative, normal operating conditions.

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

6. The permittee may, upon receipt of written approval from the Toledo Division of Environmental Services, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficent to ensure compliance with the above-mentioned applicable requirements.

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

7. The permittee shall maintain records of the following information:

a. the date and reason any required inspection was not performed;

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.

The information in 7.d. shall be kept separately for (i) the coal unloading stations, (ii) the coal conveyors, (iii) the coal handling operations, and (iv) the coal transfer points, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any of the following occurrences:

a. each day during which an inspection was not performed by the required frequency; and

b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

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

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

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

V. Testing Requirements

1. If required, compliance with the emission limitations for coal unloading, conveyors, handling operations, and transfer points identified above shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
coal unloading from barges, railcars, or trucks (see Section A.I.2.a); coal conveyors (see Section A.I.2.b); coal handling (see Section A.I.2.c); and coal transfer points (see Section A.I.2.d)	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: Ash Handling (F005)

Activity Description: Fly Ash Handling and Removal System

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
fly ash and/or bottom ash pneumatic conveying to silos, and fly ash silo and/or bottom ash load-out into trucks	OAC rule 3745-17-07(B)(7)(b)	20% opacity from fugitive emissions, as a 3-minute average
	OAC rule 3745-17-08(B)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.a through A.I.2.d)
fly ash and/or bottom ash silo vents (each with baghouse)	OAC rule 3745-17-07(A)	20% opacity, as a 6-minute average, except as provided by the rule
	OAC rule 3745-17-08(B)	.030 grain of particulate emissions per dscf of exhaust gases or no visible particulate emissions from the exhaust stack(s), whichever is less stringent.

2. Additional Terms and Conditions

2.a The permittee shall employ reasonable available control measures on all fly ash and/or bottom ash pneumatic conveying equipment for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall maintain a total enclosure of such equipment to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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

2.b The permittee shall employ reasonable available control measures for operations employing the dumping of fly ash and/or bottom ash from storage silos to trucks for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall employ a total enclosure and/or apply sufficient water to the fly ash and/or bottom ash during any load-out from storage silos to trucks to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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

2. Additional Terms and Conditions (continued)

2.c The permittee shall employ reasonably available control measures for operations employing pneumatic loading of fly ash and/or bottom ash from storage silos to trucks for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall use coaxial spouts or other mechanisms that tightly fit to the tank hatch of the truck to prevent leaks and vent the displaced air from the tank to the baghouse serving the vent of the storage silo to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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

2.d 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 3745-17-08.

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

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, while the equipment is in operation, for any visible emissions of fugitive dust escaping from any fly ash and/or bottom ash pneumatic conveying systems, for any unusual visible emissions from baghouses serving fly ash storage silos, and of the effectiveness of the water addition to the fly ash and/or bottom ash during loadout from storage silos into dump trucks to ensure compliance with the above-mentioned applicable requirements during silo loadout. 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 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.

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

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the exhaust from baghouses serving fly ash storage silos, (b) identify all days during which any visible fugitive particulate emissions were observed from the from the egress points (any fly ash and/or bottom ash pneumatic conveying systems, fly ash and/or bottom ash loadout from storage silos into dump trucks or tank trucks, etc.) serving this emissions unit, and (c) describe any corrective actions taken to minimize or eliminate the visible particulate and/or visible fugitive particulate emissions. These reports shall be submitted to the Toledo Division of Environmental Services by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

V. Testing Requirements

1. Compliance with the visible emission limitations identified above shall be determined in accordance with the following methods:

1.a Emission Limitation: 20% opacity for fly ash and/or bottom ash pneumatic conveying to silos and fly ash and/or bottom ash silo load-out into trucks, as a 3-minute average

Applicable Compliance Method: If required, Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03 shall be used to demonstrate compliance.

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

1.b Emission Limitation: 20% opacity for fly ash silo vents, as a 6-minute average, except as provided by rule

Applicable Compliance Method: If required, Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996 shall be used to demonstrate compliance.

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

1.c Emission Limitation:

.030 grain of particulate emissions per dscf of exhaust gases or no visible particulate emissions from the exhaust stack(s), whichever is less stringent.

Applicable Compliance Method:

If required, compliance shall be demonstrated using Test Methods 1 - 5 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996; otherwise, compliance shall be demonstrated by the absence of any visible emissions from the baghouse serving any silo vents and using Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
fly ash and/or bottom ash pneumatic conveying to silos, and fly ash and/or bottom ash silo load-out into trucks	none	none
fly ash and/or bottom ash silo vents (each with baghouse)	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: Coke Storage (F008)

Activity Description: Petroleum Coke Storage

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
load-in and load-out of storage piles (see Section A.I.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3) PTI 04-01056 last modified on July 31, 2003	11.26 tons of particulate emissions (PE) per year; 2.63 tons of PM10 per year. Compliance with this rule also includes compliance with OAC rules 3745-17-07(B) and 3745-17-08(B). See Sections A.II.1 and A.II.2 below.
	OAC rule 3745-17-07(B)(1)	20% opacity as a 3-minute average
	OAC rule 3745-17-08(B), (B)(6)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.b, A.I.2.c, and A.I.2.f)
wind erosion from storage piles (see Section A.I.2.a for identification of storage piles)	OAC rule 3745-17-07(B)(6)	No visible particulate emissions from a storage pile, except for a period of time not to exceed 13 minutes in any 60-minute observation period.
	OAC rule 3745-17-08(B), (B)(6)	reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.I.2.d through A.I.2.f)

2. Additional Terms and Conditions

2.a The storage piles that are covered by this permit and subject to the requirements of OAC rules 3745-17-07 and 3745-17-08 are listed below:

all petroleum coke storage piles

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

2. Additional Terms and Conditions (continued)

2.b The permittee shall employ reasonably available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall employ precautionary operating practices (i.e. minimize pile disturbances, etc.) use of a variable height stacker, and/or treat the coke load-in and load-out operations with water or other suitable dust suprression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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

2.c The above-mentioned control measure(s) shall be employed for each 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(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.

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

2.d The permittee shall employ reasonably available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall employ precautionary operating practices and/or treat the pile working operations with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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

2.e The above-mentioned control measure(s) shall be employed for 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(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a 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.

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

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 3745-17-08.

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

II. Operational Restrictions

1. Moisture content shall be sufficient to eliminate the visible emissions of fugitive dust.

(Authority for term: PTI 04-01056)

2. The drop height of the loader shall be minimized to the extent possible in order to minimize or eliminate visible emissions of fugitive dust from the elevator loading area.

(Authority for term: PTI 04-01056)

III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

storage pile identification: all petroleum coke piles

minimum load-in inspection frequency: daily

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

2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

storage pile identification: all petroleum coke piles

minimum load-out inspection frequency: daily

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

3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

storage pile identification: all petroleum coke piles

minimum wind erosion inspection frequency: daily

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

4. No inspection shall be necessary for wind erosion from the surface of a storage 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.

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

5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

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

6. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, 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.

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

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

7. 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, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) 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.

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

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

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

3. The permittee shall also submit annual reports that specify the total particulate and PM10 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.

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

V. Testing Requirements

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

V. Testing Requirements (continued)

1.a Emission Limitations:

11.26 tons of PE per year;
2.63 tons of PM10 per year.

Applicable Compliance Method:

The monitoring and record keeping requirements under Section A.IIII shall serve as demonstration of compliance with the emission limitations. If required, compliance shall be demonstrated by performing calculations using emission factors from AP-42 section 13.2.4 load-in and load-out operations and section 13.2.5 for wind erosion from storage piles.

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

1.b Emission Limitation:

20% opacity as a 3-minute average from load-in load out

Applicable Compliance Method:

If required, Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(3)(a) and (B)(3)(b) of OAC rule 3745-17-03 shall be used to demonstrate compliance.

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

1.c Emission Limitation:

No visible particulate emissions due to wind erosion, except for a period of time not to exceed 13 minutes in any 60-minute observation period.

Applicable Compliance Method:

Applicable Compliance Method: If required, Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03 shall be used to demonstrate compliance.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
load-in and load-out of storage piles (see Section A.I.2.a for identification of storage piles)	none	none
wind erosion from storage piles (see Section A.I.2.a for identification of 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: Limestone Crushing & Sizing Operation (F010)

Activity Description: Limestone Crushing & Sizing Operation

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
limestone crushing, sizing, and conveying operation vented to a baghouse	OAC rule 3745-31-05(A)(3) PTI 04-01056 last modified on July 31, 2003	14.2 tons of particulate emissions (PE) per year, 12.8 tons of PM10 per year See Sections A.I.2.a and A.II.1 below.
	40 CFR Part 60, Subpart OOO	See Sections A.I.2.b through A.I.2.d below.
	OAC rule 3745-17-07(A)	See Section A.I.2.e below.
	OAC rule 3745-17-07(B)	See Section A.I.2.e below.
	OAC rule 3745-17-08(B)	See Section A.I.2.e below.
	OAC rule 3745-17-11(B)	See Section A.I.2.e below.

2. Additional Terms and Conditions

2.a The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart OOO.

(Authority for term: PTI 04-01056)

2.b The permittee shall not cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which:

i. contain particulate emissions in excess of 0.05 gram per dry standard cubic meter (0.022 grain per dry standard cubic foot); and

ii. exhibit greater than 7% opacity.

There shall be no visible fugitive particulate emissions from any building enclosing any transfer point on a conveyor belt or any crushing and screening operation, except emissions from a vent as defined by 40 CFR Part 60.671. The permittee shall not cause to be discharged into the atmosphere from any building enclosing a transfer point on a conveyor belt or any crushing and screening operation which exceed the stack emission limitations in Sections A.I.2.b.i and A.I.2.b.ii above.

(Authority for term: PTI 04-01056)

2. Additional Terms and Conditions (continued)

2.c For conveyors that are not enclosed in a building, the permittee shall not cause to be discharged to the atmosphere from any transfer point on belt conveyors or any fugitive emissions which exhibit greater than 10% opacity.

(Authority for term: PTI 04-01056)

2.d The permittee shall not cause to be discharged into the atmosphere from any baghouse that controls emissions from only an individual, enclosed storage bin, stack emissions which exhibit greater than 7% opacity.

(Authority for term: PTI 04-01056)

2.e The emission limitation(s) and/or control requirements established by this rule are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).

(Authority for term: PTI 04-01056)

II. Operational Restrictions

1. The maximum annual hours of operation for this emissions unit shall not exceed 5840 hours, based upon a rolling, 12-month summation of the hours of operation.

(Authority for term: PTI 04-01056)

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks and for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) 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 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.

For emission points for which the daily checks show emissions that are representative of normal operation for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check of such emission point by the permittee or an Ohio EPA inspector indicates abnormal emissions, the frequency of emissions checks shall revert to daily for that emission point until such time as there are 30 consecutive operating days of normal visible emissions.

(Authority for term: PTI 04-01056)

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.

(Authority for term: PTI 04-01056)

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

2. The permittee shall maintain monthly records of the following information:

a. The hours of operation for each month.

b. The rolling, 12-month summation of the hours of operation.

(Authority for term: PTI 04-01056)

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify any exceedances of the hours of operation limitation. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

(Authority for term: PTI 04-01056)

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit, (b) identify all days during which any visible fugitive particulate emissions were observed from the from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit, and (c) describe any corrective actions taken to minimize or eliminate the visible particulate and/or visible fugitive particulate emissions. These reports shall be submitted to the Director (the Toledo Division of Environmental Services) by January 31 and July 31 of each year and shall cover the previous 6-month period.

(Authority for term: PTI 04-01056)

3. The permittee shall also submit annual reports that specify the total particulate and PM10 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.

(Authority for term: PTI 04-01056)

V. Testing Requirements

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

V. Testing Requirements (continued)

1.a Emission Limitation:

14.2 TPY PE

Applicable Compliance Method:

For Limestone Crushing Operation:

The emission limitation was developed by adding the emissions from the limestone preparation building to the emissions from transfer and conveying of limestone. The vendor design particulate emission factors of 3.607 lbs/hr for the main dust collector and 0.771 lb/hr for the auxiliary dust collector were added and multiplied by the operational restriction of 5840 hours per year and divided by 2000 pounds per ton resulting in potential emissions of 12.78 tons per year PE from the limestone preparation building.

The potential limestone transferring and conveying emissions are the sum of the following vendor design particulate emission factors: 2.4522 lbs/ton for the receiving hopper filter; 3.4261 lbs/ton for the vent filter for limestone silo; and 4.5739 lbs/ton for the vent filter for silo discharge feeder for a total particulate emission factor of 10.4522 lbs/ton. Multiply 10.4522 lbs/ton by the potential throughput of 276,000 tons/yr and then multiply by (1-0.999) x ton/2000 lbs to obtain 1.44 tons per year of potential particulate emissions.

(3.607+0.771)5840hrs/2000lbs+(2.4522+3.4261+4.5739)(276,000)(0.001)/2000lbs

Compliance with this emission limitation may be assumed provided that the permittee complies with the hours of operation limitation for this emissions unit.

(Authority for term: PTI 04-01056)

1.b Emission Limitation:

12.8 tons per year PM-10

Applicable Compliance Method:

The potential PM-10 emissions were determined by multiplying the potential particulate emissions by 0.9. Compliance with the allowable particulate emission rate constitutes compliance with the PM-10 allowable emission rate.

(Authority for term: PTI 04-01056)

1.c Emission Limitation:

7% opacity from stacks or vents

Applicable Compliance Method:

If required, compliance with this emission limitation shall be demonstrated using Method 9 of 40 CFR Part 60, Appendix A and the procedures in 40 CFR Part 60.11 and 40 CFR Part 60.675.

(Authority for term: PTI 04-01056)

V. Testing Requirements (continued)

1.d Emission Limitation:

0.05 gram of PE/dscm or 0.022 grain of PE/dscf

Applicable Compliance Method:

If required, Methods 1 - 5 or Methods 1 - 4 and 17 shall be used to determine the particulate emission concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121 degrees C (250 degrees F), to prevent water condensation on the filter.

(Authority for term: PTI 04-01056)

1.e Emission Limitation:

No visible fugitive emissions from the building except from the stacks and vents.

Applicable Compliance Method:
If required, compliance shall be determined in accordance with Test Method 22. The performance test shall be conducted while all affected facilities inside the building are operating. The performance test for each building shall be at least 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes.

(Authority for term: PTI 04-01056)

1.f Emission Limitation:

Visible fugitive emissions shall not exceed 10% opacity from any transfer point on belt conveyors that are not enclosed in a building.

Applicable Compliance Method:

Method 9 of 40 CFR Part 60, Appendix A and the procedures in 40 CFR Part 60.11, with the following additions contained in 40 CFR Part 60.675(c), as follows:

i. The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

ii. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (40 CFR Part 60, Appendix A, Method 9, Section 2.1) must be followed.

iii. When determining compliance with the opacity of stack emissions from any baghouse that controls emissions only from an individual enclosed storage bin, using Method 9, the duration of the Method 9 observations shall be one hour (ten six-minute block averages).

(Authority for term: PTI 04-01056)

V. Testing Requirements (continued)

2. The permittee shall conduct visible emissions observations for this emissions unit to demonstrate compliance with the visible emission limitations under Sections A.I.2.b and A.I.2.c in accordance with the following requirements:

The visible emission observations shall be conducted within 6 months prior to expiration of this permit.

Compliance with the visible emission limitations shall be determined in accordance with the procedures in 40 CFR Part 60.675. Visible emissions readings of the stacks to demonstrate compliance with the 7% opacity limitation shall consist of (3) 1-hr tests using Method 9 of 40 CFR Part 60, Appendix A. Visible emissions readings to determine compliance with 40 CFR Part 60.672(e)(1) (no visible emissions) shall be performed according to 40 CFR Part 60.675(d). The performance test shall be conducted while all affected facilities inside the building are operating.

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

The performance test for the building shall be 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division 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 Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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 Toledo Division 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 Toledo Division of Environmental Services.

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures

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: Transferring & Conveying Operation (F011)

Activity Description: Transferring & Conveying Operation

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
petroleum coke, fly, and bed ash transferring and conveying operations vented to a baghouse	OAC rule 3745-31-05(A)(3) PTI 04-01056 last modified on July 31, 2003	12.0 tons of particulate/year and 6.79 tons of PM10/year. Visible fugitive dust emissions shall not exceed 20% opacity as a 3-minute average. There shall be no visible emissions from the baghouse exhaust stack. The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. (See Section A.I.2.c below.)
	OAC rule 3745-17-07(A)	See Section A.I.2.a below.
	OAC rule 3745-17-07(B)	See Section A.I.2.b below.
	OAC rule 3745-17-08(B)	See Section A.I.2.a below.
	OAC rule 3745-17-11(B)	Particulate emissions shall not exceed 3.4 lbs/hr (Figure II).

2. Additional Terms and Conditions

2.a The emission limitation(s) and/or control measures specified by this rule is (are) less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(Authority for term: PTI 04-01056)

2.b The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

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

2. Additional Terms and Conditions (continued)

2.c The permittee shall minimize or eliminate visible fugitive particulate emissions through installation and use of hoods, fans, and other equipment to adequately enclose, contain, capture, and vent and control the fugitive dust. The fly and bed ash are transfered and conveyed using a pneumatic system which vents captured emissions to a baghouse. The coke conveyors are enclosed.

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

II. Operational Restrictions

1. The combined tons of coke loaded-in to the premises by emissions units F006, F007, and F011 shall not exceed 730,000 tons per rolling, 12-month period. Compliance with the limitation shall be based upon a rolling, 12-month summation of the tons of coke loaded-in to the premises by emissions units F006, F007, and F011, combined.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:

a. the tons of coke loaded-in to the premises by emissions units F006, F007, and F011, combined; and

b. The rolling, 12-month summation of the tons of coke loaded-in to the premises by emissions units F006, F007, and F011, combined.

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

2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the 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. the total duration of any visible emission incident; and
c. any corrective actions taken to eliminate the visible emissions.

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

3. The permittee shall perform daily checks of the transfer points associated with the coke conveying system, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive particulate emissions from the transfer points serving 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.

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

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month summation of the tons of coke loaded-in to the premises by emissions units F006, F007, and F011, combined. The reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

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

2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (the Toledo Division of Environmental Services) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible fugitive particulate emissions were observed from the coke conveying system transfer points serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible fugitive particulate emissions. These reports shall be submitted to the Director (the Toledo Division of Environmental Services) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall also submit annual reports that specify the total particulate and PM10 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.

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

V. Testing Requirements

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

1.a Emission Limitation:

Visible fugitive dust emissions shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

If required, compliance with this emission limitation shall be demonstrated using Method 9 of 40 CFR Part 60, Appendix A. The visible fugitive dust emissions shall be observed at any coke conveying system transfer point serving this emissions unit.

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

1.b Emission Limitation:

There shall be no visible emissions from the baghouse exhaust stack.

Applicable Compliance Method:

If required, compliance with this emission limitation shall be demonstrated using Method 22 of 40 CFR Part 60, Appendix A.

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

V. Testing Requirements (continued)

1.c Emission Limitations:

12 tons per year particulate emissions and 6.79 tons per year PM-10

Applicable Compliance Method:

The records required pursuant to Section A.III.1 and the calculations provided by the permittee in the PTI application shall serve as the basis for compliance with these emission limitations.

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

1.d Emission Limitation:

Particulate emissions shall not exceed 3.4 lbs/hr (Figure II).

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 and the procedures specified in OAC rule 3745-17-03(B)(10).

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
petroleum coke, fly, and bed ash transferring and conveying operations vented to a baghouse	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: Coke Truck Load-out at Transfer House #1 (F014)

Activity Description: Coke Truck load out at Transfer House #1

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
coke truck load-out at transfer house #1	OAC rule 3745-31-05(A)(3) PTI 04-01056 last modified on July 31, 2003	5.48 tons of particulate/year and 2.74 tons of PM10/year. The permittee shall employ best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see sections A.I.2.b through A.I.2.d below.) Compliance with this rule also includes compliance with OAC rule 3745-17-07(B)(7)(b).
	OAC rule 3745-17-07(B)(7)(b)	Visible fugitive dust emissions shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-08(B)	See Section A.I.2.e below.

2. Additional Terms and Conditions

2.a The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

coke truck load-out at transfer house #1

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

2. Additional Terms and Conditions (continued)

2.b The permittee shall employ best available control measures for the above-identified material handling operation(s) for the purpose of ensuring compliance with the above-mentioned applicable requirements. The permittee shall perform the following control measure(s) to ensure compliance:

material handling operation(s): coke truck load-out at transfer house #1

control measure(s): apply water and/or suitable dust suppression chemicals to maintain sufficient moisture content of coke at truck load-out to control dust emissions

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

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

2.c For each material handling operation that is not adequately enclosed, the above-identified control measure(s) shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.

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

2.d Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3).

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

2.e The control measures specified by this rule are equivalent to or less stringent than the control measures established pursuant to OAC rule 3745-31-05(A)(3).

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

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section and for coke load-out stations that are not adequately enclosed, the permittee shall perform inspections of such coke load-out stations with the following frequencies:

coke load-out station identification: coke truck load-out station at transfer house #1

minimum inspection frequency: daily

(Authority for term: PTI 04-01056)

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.

(Authority for term: PTI 04-01056)

3. The permittee may, upon receipt of written approval from the Toledo Division 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.

(Authority for term: PTI 04-01056)

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

4. The permittee shall maintain records of the following information:

a. the date and reason any required inspection was not performed;

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.

The information in 4.d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

(Authority for term: PTI 04-01056)

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation reports that identify any of the following occurrences:

a. each day during which an inspection was not performed by the required frequency; and

b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.

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

(Authority for term: PTI 04-01056)

2. The permittee shall also submit annual reports that specify the total particulate and PM10 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.

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

V. Testing Requirements

1. Emission Limitation:

Visible fugitive dust emissions shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:

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

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

V. Testing Requirements (continued)

2. Emission Limitations:

5.48 tons of particulate/year and 2.74 tons of PM10/year.

Applicable Compliance Method:

These emission limitations were established by multiplying the maximum annual amount of petroleum coke handled (730,000 tons/yr) by emission factors for particulates and PM10 (0.0300 lb/ton and 0.0150 lb/ton, respectively - AIRS, Surface Mining Operations, SCC 3-05-010-38), dividng by 2000 lbs/ton and multiplying the results by a 50% control efficiency (watering).

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
coke truck load-out at transfer house #1	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: Limestone Dryer (P001)

Activity Description: Limestone dryer

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.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Limestone dryer controlled by the baghouse serving the limestone preparation building.	OAC rule 3745-31-05(A)(3) PTI 04-01056 last modified on July 31, 2003	Carbon monoxide (CO) emissions shall not exceed 1.01 pounds per hour and 4.4 tons per year. Nitrogen oxides (NOx) emissions shall not exceed 1.74 pounds per hour and 7.63 tons per year. Particulate emissions (PE) shall not exceed 0.002 pound per hour and 0.008 ton per year. Emissions of particulate matter less than 10 microns in diameter (PM-10) shall not exceed 0.001 pound per hour and 0.004 ton per year. Sulfur dioxide (SO2) emissions shall not exceed 4.83 pounds per hour and 21.15 tons per year. Volatile organic compound (VOC) emissions shall not exceed 0.07 pound per hour and 0.31 ton per year. Visible particulate emissions shall not exceed 20% opacity as a 6-minute average. Compliance with this rule also includes compliance with OAC rule 3745-17-07(B). See Section A.II.1 below.

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-17-07(B)	Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.
	OAC rule 3745-17-07(A)	See Section A.I.2.a below.
	OAC rule 3745-17-08(B)	
	OAC rule 3745-17-11(B)	
	OAC rule 3745-18-06(E)(2)	
	OAC rule 3745-21-08(B) OAC rule 3745-23-06(B)	See Section A.I.2.b below.

2. Additional Terms and Conditions

2.a The emission limitation(s) and/or control measures specified by this rule is (are) less stringent than the emission limitation(s) established pursuant to OAC rule 3745-31-05(A)(3).

(Authority for term: PTI 04-01056)

2.b 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 04-01056.

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.

The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(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 04-01056.

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

II. Operational Restrictions

1. The permittee shall burn only natural gas or propane or burn number two fuel oil with a sulfur content of no greater than 0.39%, by weight, sulfur in this emissions unit.

(Authority for term: PTI 04-01056)

III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, propane or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

(Authority for term: PTI 04-01056)

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 and the permittee's or oil suppliers analyses for sulfur content.

(Authority for term: PTI 04-01056)

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

3. The permittee shall collect or require the 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 in accordance with the following ASTM method: ASTM method D4294. Alternative, U.S. EPA-approved methods may be used upon written approval by the Toledo Division of Environmental Services.

(Authority for term: PTI 04-01056)

4. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stacks and for any visible fugitive particulate emissions from the egress points (i.e., building windows, doors, roof monitors, etc.) 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 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.

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

For emission points for which the daily checks show emissions that are representative of normal operation for 30 consecutive operating days, the required frequency of visible emissions checks may be reduced to weekly (once per week, when the emissions unit is in operation). If a subsequent check of such emission point by the permittee or an Ohio EPA inspector indicates abnormal emissions, the frequency of emissions checks shall revert to daily for that emission point until such time as there are 30 consecutive operating days of normal visible emissions.

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

IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas or number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

(Authority for term: PTI 04-01056)

2. The permittee shall submit quarterly deviation (excursion) reports that identify any exceedances of the number two fuel oil sulfur content restriction. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii of this permit.

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

IV. Reporting Requirements (continued)

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit, (b) identify all days during which any visible fugitive particulate emissions were observed from the from the egress points (i.e., building windows, doors, roof monitors, etc.) serving this emissions unit, and (c) describe any corrective actions taken to minimize or eliminate the visible particulate and/or visible fugitive particulate emissions. These reports shall be submitted to the Director (the Toledo Division of Environmental Services) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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

4. The permittee shall also submit annual reports that specify the total CO, NOx, particulate, PM10, SO2, and VOC 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.

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

V. Testing Requirements

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

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

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

2. Emission Limitations:
CO emissions shall not exceed 1.01 pounds per hour and 4.4 tons per year.

Applicable Compliance Methods:
When firing number two fuel oil, compliance may be determined by multiplying an emission factor of 5.0 lbs of carbon monoxide/1000 gallons of oil fired by the emissions unit's maximum hourly fuel oil firing capacity (87 gallons/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

When firing natural gas, compliance may be determined by multiplying an emission factor of 84.0 lbs of carbon monoxide/MM standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (.011765 MM standard cu. ft./hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1 (2/98).

The annual emission limitation was established by multiplying the hourly emission limitation by 8760 hours per year and dividing by 2000 pounds per ton. Therefore, provided that the permittee demonstrates compliance with the hourly emission limitation, compliance with the annual emission limitation will also be demonstrated.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10. Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA.

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

V. Testing Requirements (continued)

3. Emission Limitations:
NOx emissions shall not exceed 1.74 pounds per hour and 7.63 tons per year.

Applicable Compliance Methods:
When firing number two fuel oil, compliance may be determined by multiplying an emission factor of 20.0 lbs of nitrogen oxides/1000 gallons of oil fired by the emissions unit's maximum hourly fuel oil firing capacity (87 gallons/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

When firing natural gas, compliance may be determined by multiplying an emission factor of 100.0 lbs of nitrogen oxides/MM standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (.011765 MM standard cu. ft./hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1 (2/98).

The annual emission limitation was established by multiplying the hourly emission limitation by 8760 hours per year and dividing by 2000 pounds per ton. Therefore, provided that the permittee demonstrates compliance with the hourly emission limitation, compliance with the annual emission limitation will also be demonstrated.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7. Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA.

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

4. Emission Limitations:
PE shall not exceed 0.002 pound per hour and 0.008 ton per year.
PM-10 emissions shall not exceed 0.001 pound per hour and 0.004 ton per year.

Applicable Compliance Methods:
When firing number two fuel oil, compliance with the hourly particulate emission limitation 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 (87 gallons/hr) and by an estimated control efficiency of 99% for the baghouse serving this emissions unit. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

When firing number two fuel oil, compliance with the hourly PM-10 emission limitation may be determined by multiplying an emission factor of 1.08 lbs of particulates/1000 gallons of oil fired by the emissions unit's maximum hourly fuel oil firing capacity (87 gallons/hr) and by an estimated control efficiency of 99% for the baghouse serving this emissions unit. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-7 (9/98).

When firing natural gas, compliance with the hourly emission limitations may be determined by multiplying an emission factor of 1.9 lbs of particulates/MM standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (.011765 MM standard cu. ft./hr) and by an estimated control efficiency of 99% for the baghouse serving this emissions unit. This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

The annual emission limitations were established by multiplying the hourly emission limitations by 8760 hours per year and dividing by 2000 pounds per ton. Therefore, provided that the permittee demonstrates compliance with the hourly emission limitations, compliance with the annual emission limitations will also be demonstrated.

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 (PE) and Methods 1 through 4 and 201 (PM-10). Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA.

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

V. Testing Requirements (continued)

5. Emission Limitations:
SO2 emissions shall not exceed 4.83 pounds per hour and 21.15 tons per year.

Applicable Compliance Methods:
When firing number two fuel oil, compliance may be determined by multiplying an emission factor of 142S lbs of sulfur dioxide/1000 gallons of oil fired (where S = the % sulfur in the number two fuel oil) by the emissions unit's maximum hourly fuel oil firing capacity (87 gallons/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).

When firing natural gas, compliance may be determined by multiplying an emission factor of 0.6 lb of sulfur dioxide/MM standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (.011765 MM standard cu. ft./hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

The annual emission limitation was established by multiplying the hourly emission limitation by 8760 hours per year and dividing by 2000 pounds per ton. Therefore, provided that the permittee demonstrates compliance with the hourly emission limitation, compliance with the annual emission limitation will also be demonstrated.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6. Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA.

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

6. Emission Limitations:
VOC emissions shall not exceed 0.07 pound per hour and 0.31 ton per year.

Applicable Compliance Methods:
When firing number two fuel oil, compliance may be determined by multiplying an emission factor of 0.34 lb of NMTOC/1000 gallons of oil fired by the emissions unit's maximum hourly fuel oil firing capacity (87 gallons/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-3 (9/98).

When firing natural gas, compliance may be determined by multiplying an emission factor of 5.5 lbs of VOC/MM standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (.011765 MM standard cu. ft./hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

The annual emission limitation was established by multiplying the hourly emission limitation by 8760 hours per year and dividing by 2000 pounds per ton. Therefore, provided that the permittee demonstrates compliance with the hourly emission limitation, compliance with the annual emission limitation will also be demonstrated.

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25. Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA.

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

7. Emission Limitation:
Visible emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average.

Applicable Compliance Method:
Compliance with this emission limitation 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)(3)(a) and (B)(3)(b).

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

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

Operations, Property, and/or Equipment	Applicable Rules/ Requirements	Applicable Emissions Limitations/Control Measures
Limestone dryer controlled by the baghouse serving the limestone preparation building.	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

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