Ohio Environmental Protection Agency
John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

8/10/2011

Pamela Blakley *Via E-Mail Notification*
United States Environmental Protection Agency
Mail Code: AR-18J
77 West Jackson Blvd.

Chicago, IL 60604-3507

RE: PROPOSED AIR POLLUTION TITLE V PERMIT
Facility Name: Oberlin Municipal Light & Power System
Facility ID: 0247100320
Permit Type: Renewal
Permit Number: P0105267

Dear Ms. Blakley:

A proposed OAC Chapter 3745-77 Title V permit for the referenced facility has been issued for review by U.S. EPA. This permit has been posted to the Division of Air Pollution Control (DAPC) Web page http://www.epa.ohio.gov/dapc in Microsoft Word and Adobe Acrobat format. If U.S. EPA does not object to this proposed permit, the permit will be processed for issuance as a final action not less than 45 days from the date of this letter. Please contact me at (614) 644-3631 by the end of the 45 day review period if you wish to object to the proposed permit.

Sincerely,

Michael W. Ahern

Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA DAPC, Northeast District Office

50 West Town Street, Suite 700
P.O. Box 1049
Columbus, OH 43216-1049

614 | 644 3020
614 | 644 3184 (fax)
www.epa.ohio.gov

Ohio | Environmental Protection Agency

PROPOSED

Division of Air Pollution Control
Title V Permit
for
Oberlin Municipal Light & Power System

Facility ID:	0247100320
Permit Number:	P0105267
Permit Type:	Renewal
Issued:	8/10/2011
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Ohio Environmental Protection Agency

Division of Air Pollution Control
Title V Permit
for
Oberlin Municipal Light & Power System

Table of Contents

Authorization 1
A. Standard Terms and Conditions 2
1. Federally Enforceable Standard Terms and Conditions 3
2. Monitoring and Related Record Keeping and Reporting Requirements 3
3. Scheduled Maintenance 6
4. Risk Management Plans 6
5. Title IV Provisions 7
6. Severability Clause 7
7. General Requirements 7
8. Fees 8
9. Marketable Permit Programs 8
10. Reasonably Anticipated Operating Scenarios 9
11. Reopening for Cause 9
12. Federal and State Enforceability 9
13. Compliance Requirements 9
14. Permit Shield 11
15. Operational Flexibility 11
16. Emergencies 11
17. Off-Permit Changes 12
18. Compliance Method Requirements 12
19. Insignificant Activities or Emissions Levels 12
20. Permit to Install Requirement 13
21. Air Pollution Nuisance 13
22. Permanent Shutdown of an Emissions Unit 13
23. Title VI Provisions 13
24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only 14
25. Records Retention Requirements Under State Law Only 14
26. Inspections and Information Requests 14
27. Scheduled Maintenance/Malfunction Reporting 15
28. Permit Transfers 15

29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations 15

B. Facility-Wide Terms and Conditions 16

C. Emissions Unit Terms and Conditions 18

1. B001, Engine No. 1 19
2. B004, Engine No. 6 23
3. B008, Engine No. 4 27
4. B009, Engine No. 2 32
5. B010, Engine No. 3 40
6. Emissions Unit Group - Dual Fuel Engines: B003, B005 & B006, ... 48

Authorization

Facility ID: 0247100320
Facility Description:
Application Number(s): A0037734
Permit Number: P0105267
Permit Description: Electric Generating Station
Permit Type: Renewal
Issue Date: 8/10/2011
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number: P0085477

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

Oberlin Municipal Light & Power System
289 South Professor Street
Oberlin, OH 44074

Ohio EPA District Office or local air agency responsible for processing and administering your permit:

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

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. 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. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Ohio EPA DAPC, Northeast District Office. 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, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:

(1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions

(2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions

(3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting

(4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(Authority for term: ORC 3704.036(A))

2. 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 C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:

(1) The date, place (as defined in the permit), and time of sampling or measurements.

(2) The date(s) analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of such analyses.

(6) 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:

(1) 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 Standard Term and Condition A.2.c)(2) 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) 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))

(2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions 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 Standard 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 Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

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

(3) 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 Standard Term and Condition A.2)c)(2) 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; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) 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 section B. Facility-Wide Terms and Conditions 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 Standard Term and Condition A.2.c)(2) 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))

(4) 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))

(5) Reports of any required monitoring and/or record keeping information shall be submitted to Ohio EPA DAPC, Northeast District Office.

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

3. 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 Standard Term and Condition A.2.c)(1) above.

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

4. 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))

5. 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))

6. 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))

7. 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 Standard Term and Condition A.11 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.

(1) 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 when: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

(2) 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

(3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminent sources once this permit ceases to be enforceable. 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))

8. 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))

9. 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))

10. 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 standard terms and conditions shall apply to all operating scenarios authorized in this permit.

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

11. 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))

12. 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))

13. 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:

(1) 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.

(2) 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.

(3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

(4) 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:

(1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.

(2) 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:

(1) 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.

(2) 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.

(3) 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))

14. 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))

15. 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))

16. 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))

17. 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))

18. 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.)

19. 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))

20. 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))

21. 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))

22. 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)

23. 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))

24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only

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.)

25. Records Retention Requirements Under State Law Only

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.

26. 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.

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

27. 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).

28. 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.

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

29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

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 Standard Term and Condition A.2.c)(2); 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.

B. Facility-Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

   a) None.

2. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any requirements or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

EU ID	Operations, Property and/or Equipment Description
T009	(Z002) 2,000 Gallon Waste Oil Tank for Engine No. 7
T010	(Z003) 1,000 Gallon Day Tank for Engine No. 6
T011	(Z004) 1,100 Gallon Lube Oil Tank for Engine No. 7
T012	(Z005) 930 Gallon Lube Oil Tank for Engine No. 5
T013	(Z006) 2,000 Gallon Waste Oil Storage Tank
T014	(Z008) 2,000 Gallon Diesel Fuel Storage Tank
T015	(Z009) 1,000 Gallon Lube Oil Tank
T016	(Z010) 1,000 Gallon Waste Oil Tank

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

   T007 15,000 Gallon Diesel Storage Tank (PTI No. 02-14036); and
   T008 15,000 Gallon Diesel Storage Tank (PTI No. 02-14036)

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

4. Emissions units B001, B003, B004, B005, B006, B008, B009 and B010 are existing stationary RICE located at an area source of HAP emissions, as defined in Section 63.6590(a)(1) of Subpart ZZZZ, 40 CFR Part 63. All of said emissions units were constructed before June 12, 2006.

   d)

   Emissions units B001, B003, B004, B005, B006, B009 and B010 are existing compression ignition (CI) stationary RICE. In accordance with Section 63.6595(a), B001, B003, B004, B005, B006, B009 and B010 must comply with the applicable emission limitations and operating limitations of Subpart ZZZZ no later than May 3, 2013.

   Emissions unit B008 is an existing 4-stroke lean burn (4SLB), spark ignition (SI), stationary RICE.
   In accordance with Section 63.6595(a), B008 must comply with the applicable emission limitations and operating limitations of Subpart ZZZZ no later than October 19, 2013.

   The complete MACT requirements including the MACT General Provisions may be access via the internet from the Electronic Code of Federal Regulations (e-CFR) website http://ecfr.gpoaccess.gov or by contacting the appropriate Ohio EPA District office or local air agency.

C. Emissions Unit Terms and Conditions

1. B001, Engine No. 1

Operations, Property and/or Equipment Description:

Fairbanks-Morse diesel engine, rated 1,600 BHP.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, as except provide by the rule.
b.	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/mmBtu of actual heat input.
c.	OAC rule 3745-18-06(G)	Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu of actual heat input.

(2) Additional Terms and Conditions

a. None.

c) 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 this permit.

[Authority for term: OAC rule 3745-18-06]

(2) The permittee shall burn only distillate oils in this emissions unit.

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

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than distillate oils, the permittee shall maintain a record of the type and quantity of the fuel burned in this emissions unit.

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

(2) For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the fuel oil type (number 2, 4, or 6), 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, 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 D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

[Authority for term: OAC rules 3745-18-04(E) (3) and 3745-18-04(I)]

e) Reporting Requirements

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

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-15-03(C)]

(2) The permittee shall notify the Director (Ohio EPA, Northeast District Office) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from d)(2) above. The notification shall be submitted to the Director (Ohio EPA, Northeast District Office) within 45 days after the deviation occurs.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-15-03(C)]

f) Testing Requirements

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

a. Emission Limitation:

Sulfur dioxide emissions shall not exceed 0.5 lbs/mmBtu.

Applicable Compliance Method:

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

Sulfur dioxide emissions from liquid fuel samples shall be calculated as follows:

$ER = [(1 \times 10^{6}) / H] \times D \times S \times 1.974$

where:

ER = the emission rate in pounds of sulfur dioxide per MMBtu;

H = the heat content of the liquid fuel in Btu per gallon;

D = the density of the liquid fuel in pounds per gallon; and

S = the decimal fraction of sulfur in the liquid fuel.

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

[Authority for term: OAC rules 3745-18-04(E) and 3745-18-04(F)(2)]

b. Emission Limitation:

PE from this emissions unit shall not exceed 0.062 lb/mmBtu of actual heat input.

Applicable Compliance Method:

Compliance may be based upon an emission factor of 0.062 lb/mmBtu. This emission factor is published in the US EPA reference document AP-42, Fifth Edition, 'Compilation of Emission Factors', Section 3.4, Table 3.4-2 (10/96).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-17-11(B)(5)(b)]

c. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, as except provide by the rule.

Applicable Compliance Method:

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

(Authority for term: OAC rules 3745-77-07(C)(1) and 3745-17-03(B)(1)(a))

g) Miscellaneous Requirements

(1) None.

2. B004, Engine No. 6

Operations, Property and/or Equipment Description:

Engine No. 6 - Fairbanks-Morse dual fuel engine, rated 3,500 BHP.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, as except provide by the rule.
b.	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/mmBtu of actual heat input.
c.	OAC rule 3745-18-06(G)	When burning distillate oil, sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu of actual heat input. When burning only natural gas, this emissions unit is exempt from the emission limitation specified in this rule pursuant to OAC rule 3745-18-06(A).
d.	OAC rule 3745-110-03(F)	Nitrogen oxides (NO_x) emissions shall not exceed 3.0 grams/HP-hr.

(2) Additional Terms and Conditions

a. None.

c) 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 this permit.

[Authority for term: OAC rule 3745-18-06]

(2) The permittee shall burn only natural gas and/or distillate oils in this emissions unit.

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

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas and/or distillate oils, the permittee shall maintain a record of the type and quantity of the fuel burned in this emissions unit.

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

(2) For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the fuel oil type (number 2, 4, or 6), 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, 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 D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

[Authority for term: OAC rules 3745-18-04(E)(3) and 3745-18-04(I)].

e) Reporting Requirements

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

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-15-03(C)]

(2) The permittee shall notify the Director (Ohio EPA, Northeast District Office) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from d)(2) above. The

notification shall be submitted to the Director (Ohio EPA, Northeast District Office) within 45 days after the deviation occurs.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-15-03(C)]

f) Testing Requirements

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

a. Emission Limitation:

When burning distillate oil, sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu of actual heat input.

Applicable Compliance Method:

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

Sulfur dioxide emissions from liquid fuel samples shall be calculated as follows:

$ER = [(1 \times 10^{6}) / H] \times D \times S \times 1.974$

where:

ER = the emission rate in pounds of sulfur dioxide per MMBtu;

H = the heat content of the liquid fuel in Btu per gallon;

D = the density of the liquid fuel in pounds per gallon; and

S = the decimal fraction of sulfur in the liquid fuel.

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 rules 3745-18-04(E) and 3745-18-04(F)(2)]

b. Emission Limitation:

PE from this emissions unit shall not exceed 0.062 lb/mmBtu of actual heat input.

Applicable Compliance Methods:

When burning distillate oil, compliance may be based upon an emission factor of 0.062 lb/mmBtu. Said emission factor is published in the US EPA reference document AP-42, Fifth Ed., 'Compilation of Emission Factors', Section 3.4, Table 3.4-2 (10/96).

When burning natural gas, compliance may be based upon an emission factor of 0.0384 lb/mmBtu. Said emission factor is published in the US EPA reference document AP-42, Fifth Ed., 'Compilation of Emission Factors', Section 3.2, Table 3.2-1 (7/00).

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 rules 3745-77-07(C)(1) and 3745-17-11(B)(5)(b)]

c. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, as except provide by the rule.

Applicable Compliance Method:

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

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-17-03(B)(1)(a)]

d. Emission Limitation:

NO_x emissions shall not exceed 3.0 grams/HP-hr.

Applicable Compliance Method:

Compliance shall be demonstrated through the use of emission factors derived from a performance test of this emissions unit conducted on December 19, 2006, which demonstrated a NO_x emissions rate of 1.42 grams per HP-hr.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7C, 7D or 7E and any additional approved USEPA methods as applicable.

If required, compliance demonstrations shall be performed while the affected internal combustion engine is operating at or as close as possible to one hundred percent load and one hundred percent speed.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-110-03(F) and 3745-110-05(A) and (F)]

g) Miscellaneous Requirements

(1) None.

3. B008, Engine No. 4

Operations, Property and/or Equipment Description:

Waukesha natural gas-fired engine, rated 2,964 BHP.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 02-9564)	Nitrogen oxides (NO_x) emissions shall not exceed 1.5 gr/HP-hr and 9.8 lbs/hr. Particulate emissions (PE) shall not exceed 0.13 gr/HP-hr and 0.85 lb/hr. Carbon monoxide (CO) emissions shall not exceed 1.85 gr/HP-hr and 12.09 lbs/hr. Sulfur dioxide (SO_2) emissions shall not exceed 0.1 gr/HP-hr and 0.65 lb/hr. Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity as a 6-minute average, more than once per 60-minute period.
b.	OAC rule 3745-17-07(A)	The visible particulate emission limitation required by this applicable rule is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-11(B)(5)(b)	The particulate emission limitation required by this applicable rule is less stringent than the particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-18-06(G)	This emissions unit is exempt from the

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		emission limitation specified by this rule pursuant to OAC rule 3745-18-06(A).
e.	OAC rule 3745-110-03(F)	The NO_x emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) The permittee shall burn only natural gas in this emissions unit.

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

(2) The total operating hours for this emission unit shall not exceed 7,000 hours per rolling, 365-day period.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain daily records for this emissions unit of the following information:

a. the date and time of each start-up and shutdown of this emissions unit;

b. the total hours of operation of this emissions unit; and

c. the rolling, 365-day summation of the total hours of operation of this emissions unit.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

(2) For each day during which the permittee burns a fuel other than natural gas, the permittee maintain a record of the type and quantity of the fuel burned in this emissions unit.

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

e) Reporting Requirements

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

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

(2) The permittee shall notify the Director (Ohio EPA, Northeast District Office) in writing of any record which shows a deviation of the operational restrictions in c)(2) and c)(3) above. The notification shall include a copy of the record and shall be submitted to the Director (Ohio EPA, Northeast District Office) within 45 days after the deviation occurs.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

(3) The permittee shall submit an annual report that provides a summary of the total monthly and annual hours of operation of this emissions unit. This report shall be submitted by February 15th of each year for operating data recorded during the previous calendar year.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

f) Testing Requirements

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

a. <u>Emission Limitations</u>:

NO_x emissions shall not exceed 1.5 gr/HP-hr and 9.8 lbs/hr.

<u>Applicable Compliance Method</u>:

Compliance with these emission limitations may be based upon the engine manufacturer's emission factor of 1.5 gr/HP-hr and multiplying that emission factor by the emissions unit's design brake horsepower rating of 2,964 HP and the conversion factor 1.0 lb/454 gr.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

[Authority for term: OAC rules 3745-77-07(C) and 3745-31-05(A)(3)]

b. <u>Emission Limitations</u>:

PE shall not exceed 0.13 gr/HP-hr and 0.85 lb/hr.

Applicable Compliance Method:

Compliance with these emission limitations may be based upon the engine manufacturer's emission factor of 0.13 gr/HP-hr and multiplying that emission factor by the emissions unit's design brake horsepower rating of 2,964 HP and the conversion factor 1.0 lb/454 gr.

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

[Authority for term: OAC rules 3745-77-07(C) and 3745-31-05(A)(3)]

c. Emission Limitations:

SO_2 emissions shall not exceed 0.1 gr/HP-hr and 0.65 lb/hr.

Applicable Compliance Method:

Compliance with these emission limitations may be based upon the engine manufacturer's emission factor of 0.1gr/HP-hr and multiplying that emission factor by the emissions unit's design brake horsepower rating of 2,964 HP and the conversion factor 1.0 lb/454 gr.

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

[Authority for term: OAC rules 3745-18-04(E) and 3745-31-05(A)(3)]

d. Emission Limitations:

CO emissions shall not exceed 1.85 gr/HP-hr and 12.09 lbs/hr.

Applicable Compliance Method:

Compliance with these emission limitations may be based upon the engine manufacturer's emission factor of 1.85 gr/HP-hr and multiplying that emission factor by the emissions unit's design brake horsepower rating of 2,964 HP and the conversion factor 1.0 lb/454 gr.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

[Authority for term: OAC rules 3745-77-07(C) and 3745-31-05(A)(3)]

e. Emission Limitation:

Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity as a 6-minute average, more than once per 60-minute period.

Applicable Compliance Method:

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

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

g) Miscellaneous Requirements

(1) None.

4. B009, Engine No. 2

Operations, Property and/or Equipment Description:

Fairbanks-Morse 4,410 BHP (28.67 mmBtu input; 3,165 kWe output) dual fuel electric generating unit (Oberlin engine #2)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 02-14231)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity as a 6-minute average, more than once per 60-minute period. Sulfur dioxide (SO_2) emissions from this emissions unit shall not exceed 1.56 lbs/hr. SO_2 emissions from emissions units B009 and B010, combined, shall not exceed 3.4 tons/yr. Nitrogen oxides (NO_x) emissions from this emissions unit shall not exceed 58.33 lbs/hr. Carbon monoxide (CO) emissions from this emissions unit shall not exceed 33.06 lbs/hr. Volatile organic compound (VOC) emissions from this emissions unit shall not exceed 7.78 lbs/hr. Particulate emissions (PE) from emissions units B009 and B010,

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		combined, shall not exceed 3.9 tons/yr. Compliance with this rule also includes compliance with OAC rules 3745-17-11(B)(5)(b) and 3745-31-05(D).
b.	OAC rule 3745-17-07(A)	The visible particulate emission limitation required by this applicable rule is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-18-06(G)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-11(B)(5)(b)	PE shall not exceed 0.062 lb/mmBtu of actual heat input.
e.	OAC rule 3745-31-05(D)	See b)(2)a below.
f.	OAC rule 3745-110-03(F)	The NO_x RACT rule. See b)(2)c below.

(2) Additional Terms and Conditions

a. The annual NO_x, CO and VOC emissions from emissions units B009 and B010, combined, shall not exceed the following emission limitations:

NO_x - 31.7 tons per rolling, 12-month period;

CO - 71.9 tons per rolling, 12-month period; and

VOC - 17.0 tons per rolling, 12-month period.

b. Dual fuel is defined as co-firing 95% natural gas and 5% No. 2 fuel oil.

c. This emissions unit is a stationary internal combustion engine that is an electric generating unit. It has been designated a 'peaking unit', as defined in OAC rule 3745-110-01. Peaking units are exempt from the NO_x emission limitations of OAC rule 3745-110-03(F).

c) Operational Restrictions

(1) The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

(2) When dual fuel firing, the total annual operating hours for emissions units B009 and B010, combined, shall not exceed 4,348 hours per rolling, 12-month period.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

(3) When firing only No. 2 fuel oil, the total annual operating hours for emissions units B009 and B010, combined, shall not exceed 1,086 hours per rolling, 12-month period.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

(4) The quality of the No. 2 fuel oil fired in this emissions unit shall meet, on an "as received" basis, a sulfur content which is sufficient to comply with the allowable SO_2 emission limitation of 1.56 lbs/hr.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

(5) This emissions unit shall be operated at a capacity factor of less than ten per cent between April 1 and October 31 of each calendar year to maintain the 'peaking unit' exemption from the requirements of OAC rule 3745-110-03(F).

[Authority for term: OAC rules 3745-110-03(F) and 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas and/or No. 2 fuel oil, the permittee shall maintain a record of the type and quantity of the fuel burned in this emissions unit.

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

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

a. the total operating hours for emissions units B009 and B010, combined, when dual fuel firing;

b. the total operating hours for emissions units B009 and B010, combined, when firing No. 2 fuel oil;

c. the total operating hours for emissions units B009 and B010, combined (i.e., the summation of the values of d)(2)a and d)(2)b, above;

d. the rolling, 12-month summation of the total operating hours for emissions units B009 and B010, combined, when dual fuel firing;

e. the rolling, 12-month summation of the total operating hours for emissions units B009 and B010, combined, when firing No. 2 fuel oil;

f. the NO_x emissions from emissions units B009 and B010, combined, when dual fuel firing, in tons (i.e., the value from d)(2)a, above, multiplied by the manufacturer-supplied worst case dual fuel NO_x emission rate (14.58 lbs/hr) by 1.0 ton/2,000 lbs);

g. the NO_x emissions from emissions units B009 and B010, combined, when No. 2 fuel oil firing, in tons (i.e., the value from d)(2)b, above, multiplied by the average NO_x emission rate from the most recent compliance demonstration (31.5 lbs./hr) by 1.0 ton/2,000 lbs);

h. the total NO_x emissions from emissions units B009 and B010, combined, in pounds or tons (i.e., the summation of the values from d)(2)f and d)(2)g above);

i. the rolling, 12-month summation of the NO_x emissions from emissions units B009 and B010, combined, in tons (i.e., the summation of the value from d)(2)h above plus the NO_x emissions from emissions units B009 and B010 for the previous 11 months);

j. the total CO emissions from emissions units B009 and B010, combined, in tons (i.e., the value from d)(2)c, above, multiplied by the manufacturer-supplied worst case CO emission rate (33.06 lbs/hr) by 1.0 ton/2,000 lbs);

k. the rolling, 12-month summation of the CO emissions from emissions units B009 and B010, combined, in tons (i.e., the summation of the value from d)(2)j above plus the CO emissions from emissions units B009 and B010 for the previous 11 months);

l. the total VOC emissions from emissions units B009 and B010, combined, in tons (i.e., the value from d)(2)c, above, multiplied by the manufacturer-supplied worst case VOC emission rate (7.78 lbs/hr) by 1.0 ton/2,000 lbs);

m. the rolling, 12-month summation of the VOC emissions from emissions units B009 and B010, combined, in tons (i.e., the summation of the value from d)(2)l above plus the VOC emissions from emissions units B009 and B010 for the previous 11 months);

n. the total SO_2 emissions from emissions units B009 and B010, combined, in tons (i.e., the value from d)(2)c, above, multiplied by the manufacturer-supplied worst case CO emission rate (1.56 lbs/hr) by 1.0 ton/2,000 lbs); and

o. the total particulate emissions from emissions units B009 and B010, combined, in tons (i.e., the value from d(2)c, above, multiplied by the AP-42 emission factor (0.062 lb/mmBtu) by the emissions unit's maximum rated heat capacity (28.67 mmBtu/hr) by 1.0 ton/2,000 lbs).

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

(3) 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 fuel oil type (number 2, 4, or 6), the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/hr). 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 D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

(4) The permittee shall use the records of operation for this emissions unit required by d)(2) above, to calculate the capacity factor, expressed as a percentage, between April 1 and October 31 of each calendar year. The permittee shall maintain a record of said calculated capacity factor.

[Authority for term: OAC rules 3745-110-03(F) and 3745-77-07(C)(1)]

e) Reporting Requirements

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

a. any exceedance of the rolling, 12-month operating hour limitations specified in c) above;

b. any exceedance of the rolling, 12-month emission limitation for NO_x, CO and/or VOC;

c. any exceedance of the hourly SO_2 emission limitation based upon the calculated emission rates from d) above; and

d. each day during which the permittee burns a fuel other than natural gas and/or No. 2 fuel oil in this emissions unit.

Each report shall be submitted to the Ohio EPA, Northeast District Office within 45 days after the deviation occurs.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

(2) The permittee shall also submit annual reports that specify the total SO_2 and PE from emissions units B009 and B010, combined, for the previous calendar year. The reports shall be submitted to the Ohio EPA, Northeast District Office by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for emission units in the annual Fee Emission Report.

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

(3) The permittee shall notify the Director (Ohio EPA, Northeast District Office) in writing of any record which shows a deviation of the operational restriction in c)(5) above. The notification shall include a copy of the record and shall be submitted to the Director (Ohio EPA, Northeast District Office) within 45 days after the deviation occurs.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) and b)(2) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitations:

SO_2 emissions from this emissions unit shall not exceed 1.56 lbs/hr. SO_2 emissions from emissions units B009 and B010, combined, shall not exceed 3.4 tons/yr.

Applicable Compliance Methods:

Compliance with the hourly emission limitation may be based upon the manufacturer-supplied worst case emission rate of 1.56 lbs/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6 or 6C.

The tpy emission limitation was developed by multiplying the short-term allowable SO_2 limitation (1.56 lbs/hr) by the maximum restricted hours of operation for emissions units B009 and B010, combined (4,348 hrs/yr) and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

Compliance with the annual emission limitation may also be demonstrated based upon the record keeping requirements specified in d) above.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

b. Emission Limitation:

CO emissions from this emissions unit shall not exceed 33.06 lbs/hr.

Applicable Compliance Methods:

Compliance with the hourly emission limitation may be based upon the manufacturer-supplied worst case emission rate of 33.06 lbs/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10 or 10A.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

c. Emission Limitation:

NO_x emissions from this emissions unit shall not exceed 58.33 lbs/hr.

Applicable Compliance Methods:

Compliance with the hourly emission limitation may be based upon the manufacturer-supplied worst case emission rate of 58.33 lbs/hr or the average results from the most recent emission tests that demonstrated that emissions units B009 and B010 were in compliance (31.5 lbs/hr when firing No. 2 fuel oil).

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7 or 7E.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

d. Emission Limitation:

VOC emissions from this emissions unit shall not exceed 7.78 lbs/hr.

Applicable Compliance Methods:

Compliance with the hourly emission limitation may be based upon the manufacturer-supplied worst case emission rate of 7.78 lbs/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18, 25 or 25A, as appropriate.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

e. Emission Limitation:

PE from this emissions unit shall not exceed 0.062 lb/mmBtu of actual heat input.

Applicable Compliance Methods:

Compliance with the lb/mmBtu emission limitation may be based upon the applicable emission factor specified in AP-42, 5th Edition, Section 3.2, Table 3.4-2 (0.062 lb/mmBtu, actual heat input).

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

[Authority for term: OAC rules 3745-17-03(B)(10) and 3745-77-07(C)(1)]

f. Emission Limitation:

Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity as a 6-minute average, more than once per 60-minute period.

Applicable Compliance Method:

If required, compliance shall be demonstrated through visible particulate emission observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

g. Emission Limitation:

Particulate emissions from emissions units B009 and B010, combined, shall not exceed 3.9 tons/year.

Applicable Compliance Methods:

The annual emission limitation was established by multiplying the allowable particulate emission limitation (0.062 lb/mmBtu) by the maximum heat input capacity of each emissions unit (28.67 mmBtu/hr) and by the maximum restricted hours of operation for emissions units B009 and B010, combined, (4,348 hrs/yr) and then dividing by 2,000 lbs. Therefore, provided compliance is demonstrated with the hourly emission limitation and the operating hour limitation, compliance with the annual emission limitation will also be demonstrated.

Compliance with the annual emission limitation may also be demonstrated based upon the record keeping requirements specified in d) above.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

h. Emission Limitations:

The annual NO_x, CO and VOC emission limitations from emissions units B009 and B010, combined, shall not exceed the following emission limitations:

NO_x - 31.7 tons per rolling, 12-month period;

CO - 71.9 tons per rolling, 12-month period; and

VOC - 17.0 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the rolling, 12-month emission limitations shall be demonstrated based upon the record keeping requirements pursuant to d) above.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(D)]

g) Miscellaneous Requirements

(1) None.

5. B010, Engine No. 3

Operations, Property and/or Equipment Description:

Fairbanks-Morse 4,410 BHP (28.67 mmBtu input; 3,165 kWe output) dual fuel electric generating unit (Oberlin engine #3)

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI 02-14231)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity as a 6-minute average, more than once per 60-minute period. Sulfur dioxide (SO_2) emissions from this emissions unit shall not exceed 1.56 lbs/hr. SO_2 emissions from emissions units B009 and B010, combined, shall not exceed 3.4 tons/yr. Nitrogen oxides (NO_x) emissions from this emissions unit shall not exceed 58.33 lbs/hr. Carbon monoxide (CO) emissions from this emissions unit shall not exceed 33.06 lbs/hr. Volatile organic compound (VOC) emissions from this emissions unit shall not exceed 7.78 lbs/hr. Particulate emissions (PE) from emissions units B009 and B010,

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		combined, shall not exceed 3.9 tons/yr. Compliance with this rule also includes compliance with OAC rules 3745-17-11(B)(5)(b) and 3745-31-05(D).
b.	OAC rule 3745-17-07(A)	The visible particulate emission limitation required by this applicable rule is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-18-06(G)	The emission limitation required by this applicable rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
d.	OAC rule 3745-17-11(B)(5)(b)	PE shall not exceed 0.062 lb/mmBtu of actual heat input.
e.	OAC rule 3745-31-05(D)	See b)(2)a below.
f.	OAC rule 3745-110-03(F)	NO_x emissions shall not exceed 3.0 grams/HP-hr.

(2) Additional Terms and Conditions

a. The annual NO_x, CO and VOC emissions from emissions units B009 and B010, combined, shall not exceed the following emission limitations:

NO_x - 31.7 tons per rolling, 12-month period;

CO - 71.9 tons per rolling, 12-month period; and

VOC - 17.0 tons per rolling, 12-month period.

b. Dual fuel is defined as co-firing 95% natural gas and 5% No. 2 fuel oil.

c) Operational Restrictions

(1) The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

(2) When dual fuel firing, the total annual operating hours for emissions units B009 and B010, combined, shall not exceed 4,348 hours per rolling, 12-month period.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

(3) When firing only No.2 fuel oil, the total annual operating hours for emissions units B009 and B010, combined, shall not exceed 1,086 hours per rolling, 12-month period.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

(4) The quality of the No. 2 fuel oil fired in this emissions unit shall meet, on an "as received" basis, a sulfur content which is sufficient to comply with the allowable SO_2 emission limitation of 1.56 lbs/hr.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas and/or No. 2 fuel oil, the permittee shall maintain a record of the type and quantity of the fuel burned in this emissions unit.

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

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

a. the total operating hours for emissions units B009 and B010, combined, when dual fuel firing;

b. the total operating hours for emissions units B009 and B010, combined, when firing No. 2 fuel oil;

c. the total operating hours for emissions units B009 and B010, combined (i.e., the summation of the values of d)(2)a and d)(2)b, above;

d. the rolling, 12-month summation of the total operating hours for emissions units B009 and B010, combined, when dual fuel firing;

e. the rolling, 12-month summation of the total operating hours for emissions units B009 and B010, combined, when firing No. 2 fuel oil;

f. the NOx emissions from emissions units B009 and B010, combined, when dual fuel firing, in tons (i.e., the value from d)(2)a, above, multiplied by the manufacturer-supplied worst case dual fuel NO_x emission rate (14.58 lbs/hr) by 1.0 ton/2,000 lbs);

g. the NO_x emissions from emissions units B009 and B010, combined, when No. 2 fuel oil firing, in tons (i.e., the value from d)(2)b, above, multiplied by the average NO_x emission rate from the most recent compliance demonstration (31.5 lbs/hr) by 1.0 ton/2,000 lbs);

h. the total NO_x emissions from emissions units B009 and B010, combined, in pounds or tons (i.e., the summation of the values from d)(2)f and d)(2)(g) above);

i. the rolling, 12-month summation of the NO_x emissions from emissions units B009 and B010, combined, in tons (i.e., the summation of the value from d)(2)h above

plus the NO_x emissions from emissions units B009 and B010 for the previous 11 months);

j. the total CO emissions from emissions units B009 and B010, combined, in tons (i.e., the value from d)(2)c, above, multiplied by the manufacturer-supplied worst case CO emission rate (33.06 lbs/hr) by 1.0 ton/2,000 lbs);

k. the rolling, 12-month summation of the CO emissions from emissions units B009 and B010, combined, in tons (i.e., the summation of the value from d)(2)j above plus the CO emissions from emissions units B009 and B010 for the previous 11 months);

l. the total VOC emissions from emissions units B009 and B010, combined, in tons (i.e., the value from d)(2)c, above, multiplied by the manufacturer-supplied worst case VOC emission rate (7.78 lbs/hr) by 1.0 ton/2,000 lbs);

m. the rolling, 12-month summation of the VOC emissions from emissions units B009 and B010, combined, in tons (i.e., the summation of the value from d)(2)l above plus the VOC emissions from emissions units B009 and B010 for the previous 11 months);

n. the total SO_2 emissions from emissions units B009 and B010, combined, in tons (i.e., the value from d)(2)c, above, multiplied by the manufacturer-supplied worst case CO emission rate (1.56 lbs/hr) by 1.0 ton/2,000 lbs); and

o. the total PE from emissions units B009 and B010, combined, in tons (i.e., the value from d)(2)c, above, multiplied by the AP-42 emission factor (0.062 lb/mmBtu) by the emissions unit's maximum rated heat capacity (28.67 mmBtu/hr) by 1.0 ton/2,000 lbs).

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

(3) 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 fuel oil type (number 2, 4, or 6), the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/hr). 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 D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

e) Reporting Requirements

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

a. any exceedance of the rolling, 12-month operating hour limitations specified in c) above;

b. any exceedance of the rolling, 12-month emission limitation for NO_x, CO and/or VOC;

c. any exceedance of the hourly SO_2 emission limitation based upon the calculated emission rates from d) above; and

d. each day during which the permittee burns a fuel other than natural gas and/or No. 2 fuel oil in this emissions unit.

Each report shall be submitted to the Ohio EPA, Northeast District Office within 45 days after the deviation occurs.

[Authority for term: OAC rules 3745-31-05(A)(3) and 3745-77-07(C)(1)]

(2) The permittee shall also submit annual reports that specify the total SO_2 and PE from emissions units B009 and B010, combined, for the previous calendar year. The reports shall be submitted to the Ohio EPA, Northeast District Office by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for emission units in the annual Fee Emission Report.

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

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) and b)(2) of these terms and conditions shall be determined in accordance with the following methods:

a. <u>Emission Limitations</u>:

SO_2 emissions from this emissions unit shall not exceed 1.56 lbs/hr. SO_2 emissions from emissions units B009 and B010, combined, shall not exceed 3.4 tons/yr.

<u>Applicable Compliance Methods</u>:

Compliance with the hourly emission limitation may be based upon the manufacturer-supplied worst case emission rate of 1.56 lbs/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6 or 6C.

The tpy emission limitation was developed by multiplying the short-term allowable SO_2 limitation (1.56 lbs/hr) by the maximum restricted hours of

operation for emissions units B009 and B010, combined (4,348 hrs/yr) and then dividing by 2,000 lbs per ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

Compliance with the annual emission limitation may also be demonstrated based upon the record keeping requirements specified in d) above.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

b. Emission Limitation:

CO emissions from this emissions unit shall not exceed 33.06 lbs/hr.

Applicable Compliance Methods:

Compliance with the hourly emission limitation may be based upon the manufacturer-supplied worst case emission rate of 33.06 lbs/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10 or 10A.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

c. Emission Limitation:

NO_x emissions from this emissions unit shall not exceed 58.33 lbs/hr.

Applicable Compliance Methods:

Compliance with the hourly emission limitation may be based upon the manufacturer supplied worst case emission rate of 58.33 lbs/hr or the average results from the most recent emission tests that demonstrated that emissions units B009 and B010 were in compliance (31.5 lbs/hr when firing No. 2 fuel oil).

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7 or 7E.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

d. Emission Limitation:

VOC emissions from this emissions unit shall not exceed 7.78 lbs/hr.

Applicable Compliance Methods:

Compliance with the hourly emission limitation may be based upon the manufacturer-supplied worst case emission rate of 7.78 lbs/hr.

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 18, 25 or 25A, as appropriate.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

e. Emission Limitation:

PE from this emissions unit shall not exceed 0.062 lb/mmBtu of actual heat input.

Applicable Compliance Methods:

Compliance with the lb/mmBtu emission limitation may be based upon the applicable emission factor specified in AP-42, 5th Edition, Section 3.2, Table 3.4-2 (0.062 lb/mmBtu of actual heat input).

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

[Authority for term: OAC rules 3745-17-03(B)(10) and 3745-77-07(C)(1)]

f. Emission Limitation:

Visible particulate emissions from the stack serving this emissions unit shall not exceed 10% opacity as a 6-minute average, more than once per 60-minute period.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with the hourly emission limitation in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

g. Emission Limitation:

Particulate emissions from emissions units B009 and B010, combined, shall not exceed 3.9 tons/year.

Applicable Compliance Methods:

The annual emission limitation was established by multiplying the allowable particulate emission limitation (0.062 lb/mmBtu) by the maximum heat input capacity of each emissions unit (28.67 mmBtu/hr) and by the maximum restricted hours of operation for emissions units B009 and B010, combined, (4,348 hrs/yr) and then dividing by 2,000 lbs. Therefore, provided compliance is demonstrated with the hourly emission limitation and the operating hour limitation, compliance with the annual emission limitation will also be demonstrated.

Compliance with the annual emission limitation may also be demonstrated based upon the record keeping requirements specified in d) above.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

h. Emission Limitations:

The annual NO_x, CO and VOC emission limitations from emissions units B009 and B010, combined, shall not exceed the following emission limitations:

NO_x - 31.7 tons per rolling, 12-month period;

CO - 71.9 tons per rolling, 12-month period; and

VOC - 17.0 tons per rolling, 12-month period.

Applicable Compliance Method:

Compliance with the rolling, 12-month emission limitations shall be demonstrated based upon the record keeping requirements pursuant to d) above.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(D)]

i. Emission Limitation:

NO_x emissions shall not exceed 3.0 grams/HP-hr.

Applicable Compliance Method:

Compliance shall be demonstrated through the use of emission factors derived from a performance test of this emissions unit conducted on October 24, 2001, which demonstrated a NO_x emission rate of 2.66 grams per HP-hr while dual fuel firing.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7C, 7D or 7E and any additional approved USEPA methods as applicable.

If required, compliance demonstrations shall be performed while the affected internal combustion engine is operating at or as close as possible to one hundred percent load and one hundred percent speed.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-110-03(F) and 3745-110-05(A) and (F)]

g) Miscellaneous Requirements

(1) None.

6. Emissions Unit Group -Dual Fuel Engines: B003, B005 & B006,

EU ID	Operations, Property and/or Equipment Description
B003	Engine No. 5 - Fairbanks-Morse dual fuel engine, rated 2,800 BHP.
B005	Engine No. 7 - Cooper-Bessemer dual fuel engine, rated 3,700 BHP.
B006	Engine No. 8 - Fairbanks-Morse dual fuel engine, rated 4,200 BHP.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, as except provide by the rule.
b.	OAC rule 3745-17-11(B)(5)(b)	Particulate emissions (PE) shall not exceed 0.062 lb/mmBtu of actual heat input.
c.	OAC rule 3745-18-06(G)	When burning distillate oil, sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu of actual heat input. When burning only natural gas, this emissions unit is exempt from the emission limitation specified in this rule pursuant to OAC rule 3745-18-06(A).
d.	OAC rule 3745-110-03(F)	The NO_x RACT rule. See b)(2)a below.

(2) Additional Terms and Conditions

a. This emissions unit is a stationary internal combustion engine that is an electric generating unit. It has been designated a 'peaking unit', as defined in OAC rule 3745-110-01. Peaking units are exempt from the NO_x emission limitations of OAC rule 3745-110-03(F).

c) 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 this permit.

[Authority for term: OAC rule 3745-18-06]

(2) The permittee shall burn only natural gas and/or distillate oils in this emissions unit.

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

(3) This emissions unit shall be operated at a capacity factor of less than ten per cent between April 1 and October 31 of each calendar year to maintain the 'peaking unit' exemption from the requirements of OAC rule 3745-110-03(F).

[Authority for term: OAC rules 3745-110-03(F) and 3745-77-07(A)(1)]

d) Monitoring and/or Recordkeeping Requirements

(1) For each day during which the permittee burns a fuel other than natural gas and/or distillate oils, the permittee shall maintain a record of the type and quantity of the fuel burned in this emissions unit.

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

(2) For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the fuel oil type (number 2, 4, or 6), 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, 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 D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

[Authority for term: OAC rules 3745-18-04(E)(3) and 3745-18-04(I)]

(3) The permittee shall maintain daily records of operation for this emissions unit between April 1st and October 31st of each calendar year. The permittee shall use said records of operation for this emissions unit to calculate the capacity factor, expressed as a percentage, for the time period between April 1st and October 31st of each calendar year. The permittee shall maintain a record of said calculated capacity factor.

[Authority for term: OAC rules 3745-110-03(F) and 3745-77-07(C)(1)]

e) Reporting Requirements

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

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-15-03(C)]

(2) The permittee shall notify the Director (Ohio EPA, Northeast District Office) in writing of any record which shows a deviation of the allowable SO_2 emission limitation based upon the calculated SO_2 emission rates from d)(2) above. The notification shall be submitted to the Director (Ohio EPA, Northeast District Office) within 45 days after the deviation occurs.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-15-03(C)]

(3) The permittee shall notify the Director (Ohio EPA, Northeast District Office) in writing of any record which shows a deviation of the operational restriction in c)(3) above. The notification shall include a copy of the record and shall be submitted to the Director (Ohio EPA, Northeast District Office) within 45 days after the deviation occurs.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3)]

f) Testing Requirements

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

a. <u>Emission Limitation</u>:

Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, as except provide by the rule.

<u>Applicable Compliance Method</u>:

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

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-17-03(B)(1)(a)]

b. Emission Limitation:

PE from this emissions unit shall not exceed 0.062 lb/mmBtu of actual heat input.

Applicable Compliance Method:

When burning distillate oil, compliance may be based upon an emission factor of 0.062 lb/mmBtu. Said emission factor is published in the US EPA reference document AP-42, Fifth Edition, 'Compilation of Emission Factors', Section 3.4, Table 3.4-2 (10/96).

When burning natural gas, compliance may be based upon an emission factor of 0.0384 lb/mmBtu. Said emission factor is published in the US EPA reference document AP-42, Fifth Edition, 'Compilation of Emission Factors', Section 3.2, Table 3.2-1 (7/00).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-17-11(B)(5)(b)]

c. Emission Limitation:

SO_2 emissions shall not exceed 0.5 lb/mmBtu.

Applicable Compliance Method:

Continuous compliance with the allowable SO_2 emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

SO_2 emissions from liquid fuel samples shall be calculated as follows:

$ER = [(1 \times 10^{6}) / H] \times D \times S \times 1.974$

where:

ER = the emission rate in pounds of sulfur dioxide per MMBtu;

H = the heat content of the liquid fuel in Btu per gallon;

D = the density of the liquid fuel in pounds per gallon; and

S = the decimal fraction of sulfur in the liquid fuel.

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

[Authority for term: OAC rules 3745-18-04(E) and 3745-18-04(F)(2)]

g) Miscellaneous Requirements

(1) None.