Ohio Environmental Protection Agency

Ted Strickland, Governor
Lee Fisher, Lt. Governor
Chris Korleski, Director

3/24/2010

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: DP&L Tait Generating Station
Facility ID: 0857043333
Permit Type: Renewal
Permit Number: P0093121

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: Regional Air Pollution Control Agency

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

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Ohio | Environmental Protection Agency

PROPOSED

Division of Air Pollution Control
Title V Permit
for
DP&L Tait Generating Station

Facility ID: 0857043333
Permit Number: P0093121
Permit Type: Renewal
Issued: 3/24/2010
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
DP&L Tait Generating Station

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 8
11. Reopening for Cause 8
12. Federal and State Enforceability 9
13. Compliance Requirements 9
14. Permit Shield 10
15. Operational Flexibility 11
16. Emergencies 11
17. Off-Permit Changes 11
18. Compliance Method Requirements 12
19. Insignificant Activities or Emissions Levels 12
20. Permit to Install Requirement 12
21. Air Pollution Nuisance 12
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 13
25. Records Retention Requirements Under State Law Only 14
26. Inspections and Information Requests 14
27. Scheduled Maintenance/Malfunction Reporting 14
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. P007, Tait CT-3..... 19

2. Emissions Unit Group - CT-1 and CT-2 Turbines: P005, P006,..... 40

3. Emissions Unit Group - Generator Engines: B507, B508, B509, B510,..... 61

Authorization

Facility ID: 0857043333
Facility Description: Electric Services.
Application Number(s): A0024587, A0024588, A0024589
Permit Number: P0093121
Permit Description: The facility provides peaking electrical power during high demand times.
Permit Type: Renewal
Issue Date: 3/24/2010
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number:

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

DP&L Tait Generating Station
2101 Arbor Boulevard
Moraine, OH 45439-1762

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

Regional Air Pollution Control Agency
117 South Main Street
Dayton, OH 45422-1280
(937)225-4435

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 Regional Air Pollution Control Agency. 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

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

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

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

(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 Regional Air Pollution Control Agency.
(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.

f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:

(1) 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) 3.

2. The permittee shall ensure that any CAIR NO_X, SO_2, or NO_X ozone season units complies with the requirements of OAC 3745-109, which includes submitting timely permit applications. The permittee shall ensure that the affected emissions units comply with those requirements. Emissions exceeding any allowances that are lawfully held under Ohio rule 3745-109 are prohibited.

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

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

   F001 – Plant Grounds, Roadways, and Parking Area

   T003 – South Fuel Oil Storage Tank (600,000 gallon aboveground storage tank)

   T004 – North Fuel Oil Storage Tank (600,000 gallon aboveground storage tank)

   [Authority for term: OAC rule 3745-77-07(A)(13)]

C. Emissions Unit Terms and Conditions

1. P007, Tait CT-3

Operations, Property and/or Equipment Description:

Natural gas-fired simple cycle, gas-combustion-turbine generator with No. 2 fuel oil backup; 1,115 MMBtu/hr maximum heat input; includes water injection and dry low- NO_X combustor NO_X reduction systems

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 operations(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. 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 08-04888	Sulfur dioxide (SO_2) emissions from this emissions unit shall not exceed 0.0006 lb/mmBtu during natural gas combustion, 0.055 lb/mmBtu during number two fuel oil combustion, and 30.86 tons per year (TPY). Volatile organic compound (VOC) emissions from this emissions unit shall not exceed 10.0 lbs/hr and 15.0 TPY. Particulate/PM_{10} emissions from this emissions unit shall not exceed 8 lbs/hr and 0.0072 lb/mmBtu during natural gas combustion; 15.0 lbs/hr and 0.013 lb/mmBtu during number two fuel oil combustion; and 15.5 TPY. Nitrogen oxides (NO_X) emissions from this emissions unit shall not exceed 15 ppmvd at 15% oxygen at full load and 62 lbs/hr during natural gas combustion; 42 ppmvd at 15% oxygen at full load and 195 lbs/hr during number two fuel oil combustion; and 110 tons per rolling, 12-month period.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	OAC rule 3745-31-05(A)(3) PTI 08-04888	Carbon monoxide (CO) emissions from this emissions unit shall not exceed 301 lbs/hr at all operating loads, excluding start-up and shutdown periods when firing natural gas; 413 lbs/hr during start-up and shutdown periods when firing natural gas; and 800 lbs/hr when firing number two fuel oil. CO emissions from this emissions unit shall not exceed 160.8 tons per rolling 12-month period, including periods of start-up and shutdown, with the total combined CO emissions from emissions units P005, P006 and P007 not to exceed 160.8 tons per rolling, 12-month period, including periods of start-up and shutdown. Visible particulate emissions (PE) shall not exceed 10% opacity, as a six-minute average, except for cold start-up and shutdown periods. See b)(2)d. The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 3745-31-20, 3745-21-08(B) and 3745-31-05(C) and 40 CFR Part 52, Section 52.21.
b.	40 CFR Part 75	See Section A.5.
c.	OAC rules 3745-31-10 through 3745-31-20	The SO_2 emissions from this emissions unit shall not exceed 30.86 tons per rolling, 12-month period.
d.	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(4) OAC rule 3745-18-06(F) 40 CFR Part 60 Subpart GG OAC rule 3745-16-02	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to 40 CFR Part 52, Section 52.21 and OAC rules 3745-31-05(A)(3), and 3745-31-10 through 3745-31-20.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	OAC rule 3745-14	See Section B.2.
f.	OAC rule 3745-31-05(D) (Synthetic minor to avoid MACT rule requirements)	Total combined formaldehyde emissions from emissions units P005, P006, and P007 shall not exceed 4.20 tons per rolling, 12-month period.
g.	OAC rule 3745-21-08(B)	See b)(2)g.

(2) Additional Terms and Conditions

a. In accordance with OAC rules 3745-31-10 through 3745-31-20 and 40 CFR Part 52.21, the permittee shall use dry low NO_X (DLN) combustion technology to reduce NO_X emissions to 15 ppmvd at 15% oxygen, at full load, when burning natural gas, and shall use water injection to reduce NO_X emissions to 42 ppmvd at 15% oxygen, at full load, when burning number two fuel oil.

b. In accordance with OAC rules 3745-31-10 through 3745-31-20 and 40 CFR Part 52.21, the permittee shall use natural gas as the primary fuel and number two fuel oil with a maximum sulfur content of 0.05 percent by weight, as the back-up fuel.

c. "Start-up" shall be defined as the time necessary to bring a turbine on line from a no load condition to dry low NO_X combustion mode during natural gas combustion or fully activated water injection during fuel oil combustion, not to exceed thirty (30) minutes. Shutdown periods shall not exceed thirty (30) minutes.

d. The minimum stack height for this emissions unit shall be at least 88 feet above the ground.

e. "Full load" shall be defined as all periods when the hourly average electrical output exceeds 72 MW.

f. If exhaust stack gas flowrate is not monitored as required by 40 CFR Part 60, Appendix B - Performance Specification 6, the permittee shall use a certified NO_X continuous emissions monitoring system in conjunction with a fuel flow monitor as described in 40 CFR Part 75, and certified CO continuous emissions monitoring system in conjunction with a fuel flow monitor (in a manner similar to that used for NO_X) to meet these requirements, except as provided in 40 CFR 75.12(e). If used, the relative accuracy requirements of Performance Specifications 6 shall apply to the NO_X and CO continuous emissions monitoring systems.

g. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08 by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in permit to install (PTI) 08-04888.

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

h. If this emissions unit meets the requirements of 40 CFR 75.19(a)(1), (a)(2) and (b), the low mass emissions (LME) excepted methodology in 40 CFR 75.19(c) may be used in lieu of continuous emission monitoring systems or, if applicable, in lieu of methods under Appendices D, E, and G to 40 CFR Part 75, for the purpose of determining the unit heat input, NO_X, SO_2, and CO_2 mass emissions, and the NO_X emission rate under 40 CFR Part75. If the permittee of a qualifying emissions unit elects to use the LME methodology, it must be used for all parameters that are required to be monitored by the applicable program(s). For example, for an Acid Rain Program LME unit, the methodology must be used to estimate SO_2, NO_X, and CO_2 mass emissions, NO_X emission rate, and unit heat input.

c) Operational Restrictions

(1) The sulfur content of the number two fuel oil fired in this emissions unit shall not exceed 0.05%, by weight.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 08-04888]

(2) The permittee shall be prohibited from combusting fuel oil in this emissions unit from April 1 through September 30 of each year, except for one-half hour of each month or under emergency conditions when natural gas supplies are not available. This exclusion is permitted contingent upon the submittal to the Regional Air Pollution Control Agency of adequate documentation from the permittee that natural gas was not available.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 08-04888]

(3) The number two fuel oil usage in this emissions unit shall not exceed 8,580,000 gallons, per rolling, 12-month period.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 08-04888]

(4) The natural gas usage in this emissions unit shall not exceed 2,580,000,000 cubic feet, per rolling, 12-month period.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 08-04888]

(5) In lieu of complying with the natural gas usage restriction specified above, the permittee may combust an additional 150 cubic feet of natural gas in this emissions unit for each gallon of number two fuel oil which is not combusted by this emissions unit. Under no circumstance shall the natural gas consumption exceed 3,870,000,000 cubic feet, per rolling, 12-month period.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 08-04888]

(6) The permittee shall burn only pipeline quality natural gas or number two fuel oil in this emissions unit.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 08-04888]

d) Monitoring and/or Recordkeeping Requirements

(1) Continuous SO_2 Emissions Monitoring:

a. The permittee shall either operate and maintain equipment to continuously monitor and record SO_2 emissions from this emissions unit (SO_2 pollutant concentration and flow monitor), in units of the applicable standard(s) or meet the requirements of 40 CFR Part 75 Appendix D or 40 CFR Part 75.19(c). Such continuous monitoring and recording equipment (SO_2 pollutant concentration and flow monitor) shall comply with the requirements specified in 40 CFR part 60 and 40 CFR Part 75.

b. If used, each continuous monitoring system (SO_2 pollutant concentration and flow monitor) consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.

c. If used, the permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous SO_2 monitoring system (SO_2 pollutant concentration and flow monitor) has been certified in accordance with the applicable requirements specified in 40 CFR Part 60 and Part 75. The letter of certification shall be made available to the Director upon request.

d. If used, the permittee shall maintain records of the following data obtained by the continuous SO_2 monitoring system (SO_2 pollutant concentration and flow monitor): emissions of SO_2 in parts per million, emissions of SO_2 in lb/MMBTU in the appropriate averaging period (e.g., hourly), results of quarterly cylinder gas audits, linearity check, or relative accuracy test audits, and magnitude of manual calibration adjustments.

e. The permittee shall develop a written quality assurance/quality control plan for the continuous SO_2 monitoring system (SO_2 pollutant concentration and flow monitor) or excepted system designed to ensure continuous valid and representative readings of SO_2 emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the

activities related to the continuous SO_2 monitoring system must be kept on site and available for inspection during regular office hours.

f. The permittee may conduct the relative accuracy test audits for the continuous SO_2 monitoring system (SO_2 pollutant concentration and flow monitor) in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. In addition, linearity checks conducted pursuant to 40 CFR Part 75, Appendix B, may be used in place of quarterly cylinder gas audits, as required in 40 CFR Part 60.

g. Data substitution, when required by 40 CFR Part 75, shall be performed in accordance with the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1), and PTI 08-04888]

(2) Continuous NO_X Emissions Monitoring:

a. The permittee shall either operate and maintain equipment to continuously monitor and record NO_X emissions from this emissions unit in units of the applicable standard(s) or an excepted monitoring system that meets the requirements of 40 CFR 75.19 (water-to-fuel ratio for water injection controls and operating mode and combustion reference temperature for dry low NO_X systems, as specified in the quality assurance plan specified in 40 CFR 75.19(e)(5)). Such continuous NO_X monitoring and recording equipment shall comply with the applicable requirements specified in 40 CFR Part 60 and Part 75.

b. If used, each continuous NO_X monitoring system consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.

c. If used, the permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous NO_X monitoring system has been certified in accordance with the applicable requirements specified in 40 CFR Part 60 and Part 75. The letter of certification shall be made available to the Director upon request.

d. If used, the permittee shall maintain records of the following data obtained by the continuous NO_X monitoring system: emissions of NO_X in ppmvd at 15% oxygen at full load, emissions of NO_X in lbs/hr, and results of daily zero/span calibration checks, results of quarterly cylinder gas audits, linearity check, or relative accuracy test audits, and magnitude of manual calibration adjustments.

e. The permittee shall develop a written quality assurance/quality control plan for the continuous NO_X monitoring system designed to ensure continuous valid and representative readings of NO_X emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 60, Appendix F

and 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous NO_X monitoring system must be kept on site and available for inspection during regular office hours.

f. The permittee may conduct the relative accuracy test audits for the continuous nitrogen oxides monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. Cylinder gas audits may be conducted in accordance with the frequencies specified in 40 CFR Part 75, Appendix B for linearity checks. In addition, linearity checks conducted pursuant to 40 CFR Part 75, Appendix B, may be used in place of quarterly cylinder gas audits, as required in 40 CFR Part 60.

g. Data substitution, when required by 40 CFR Part 75, shall be performed in accordance with the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

h. For each low mass emissions unit for which fuel-and-unit-specific NO_X emission rates are determined in accordance with 40 CFR 75.19(c)(1)(iv) and which has add-on NO_X emission controls of any kind or uses dry low- NO_X technology, the permittee shall develop and keep on-site a quality assurance plan which explains the procedures used to document proper operation of the NO_X emission controls. The plan shall include the parameters monitored (e.g., water-to-fuel ratio) and the acceptable ranges for each parameter used to determine proper operation of the unit's NO_X controls.

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1), and PTI 08-04888]

(3) Continuous CO Emissions Monitoring:

a. The permittee shall either operate and maintain equipment to continuously monitor and record CO emissions from this emissions unit in units of the applicable standard(s) or, if the emissions unit meets the requirements of 40 CFR 75.19 for SO_2, NO_X and CO_2, establish fuel-and-unit-specific CO emissions rates using the same methodology as specified for NO_X in 40 CFR 75.19(c)(1)(iv)(G). Note that the requirements of 40 CFR 75 do not apply to CO emissions. Such continuous CO monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

b. If used, each continuous CO monitoring system consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.

c. If used, the permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous CO monitoring system has been certified in accordance with the applicable requirements specified in 40 CFR Part 60. The letter of certification shall be made available to the Director upon request.

d. If used, the permittee shall maintain records of the following data obtained by the continuous CO monitoring system: emissions of CO in lbs/hr, results of daily zero/span calibration checks, results of quarterly cylinder gas audits, or relative accuracy test audits, and magnitude of manual calibration adjustments.

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

f. The permittee may conduct the relative accuracy test audits for the continuous CO monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. Cylinder gas audits may be conducted in accordance with the frequencies specified in 40 CFR Part 75, Appendix B for linearity checks. In addition, linearity checks conducted pursuant to 40 CFR Part 75, Appendix B, may be used in place of quarterly cylinder gas audits, as required in 40 CFR Part 60.

[Authority for term: 40 CFR Part 60, OAC rule 3745-77-07(C)(1), and PTI 08-04888]

(4) The permittee shall maintain hourly records of the total actual heat input values for this emissions unit, in MMBTU/hr. The total actual heat input values shall be determined using the applicable procedures specified in 40 CFR Part 75, Appendix F.

[Authority for term: 40 CFR Part 60, OAC rule 3745-77-07(C)(1), and PTI 08-04888]

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

a. The amount of number two fuel oil burned, in gallons.

b. The rolling, 12-month summation of number two fuel oil usage, in gallons.

c. The amount of natural gas burned, in million cubic feet (MMCF).

d. The rolling, 12-month summation of natural gas usage, in MMCF.

e. The rolling, 12-month summation of NO_X emissions, in tons.

f. The rolling, 12-month summation of CO emissions, in tons.

g. The rolling, 12-month summation of SO_2 emissions, in tons.

h. The number of hours the emissions unit is in operation when combusting natural gas.

i. The number of hours the emissions unit is in operation when combusting number two fuel oil.

j. The rolling, 12-month summation of formaldehyde emissions, in tons.

k. The date, time and duration, in minutes, of each start-up and shutdown. (The terms start-up and shutdown are defined in b)(2)c.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(6) The permittee shall monitor and record all periods of time when the unit is operated at "full load" conditions, based upon the definition of full load in b)(2)e.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(7) In accordance with 40 CFR Part 60, Subpart GG, Section 60.334(h)(1), the permittee shall monitor the sulfur content of the fuel being fired in the turbine, except as provided in 40 CFR 60.334(h)(3). The frequency of determination of this value shall be in accordance with 40 CFR 60.334(i).

[Authority for term: 40 CFR Part 60, OAC rule 3745-77-07(C)(1), and PTI 08-04888]

(8) For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO_2 emission rate (in lb/MMBtu).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(9) Pursuant to 40 CFR 60.334(i)(1) or (3), the permittee shall determine fuel sulfur content in accordance with the requirements of 40 CFR 60.335(b)(10)(i) and 60.335(b)(10)(ii).

[Authority for term: 40 CFR Part 60, OAC rule 3745-77-07(C)(1), and PTI 08-04888]

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(11) If the permittee uses 40 CFR Part 75 Appendix D to comply with the SO_2 emissions limit, the permittee shall operate and maintain equipment to continuously monitor and record the actual fuel flow to this emissions unit when the emissions unit is in operation. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75. If the fuel flow monitoring and/or recording equipment is (are) not in service when the emissions unit is in operation, the permittee shall comply with the appropriate missing data procedures specified in 40 CFR Part 75.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(12) If using a continuous diluent monitor, the permittee shall operate and maintain equipment to continuously monitor and record the percent oxygen in the stack serving this emissions unit when the emissions unit is in operation. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75. The monitoring and recording equipment shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(13) The permittee shall maintain monthly records of the following information for emissions units P005, P006, and P007, combined:

a. The formaldehyde emissions, in tons (sum the formaldehyde emissions for emissions units P005, P006, and P007).

b. The CO emissions, in tons (sum the CO emissions for emissions units P005, P006, and P007).

c. The rolling, 12-month summation of formaldehyde emissions, in tons.

d. The rolling, 12-month summation of CO emissions, in tons.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(14) If the permittee uses 40 CFR Part 75.19 to comply with the SO_2 and NO_X emissions limits, the permittee shall maintain hourly records of the following information:

a. Date and hour;

b. Unit operating time (units using the long term fuel flow methodology report operating time to be 1);

c. Fuel type (pipeline natural gas, natural gas, other gaseous fuel, residual oil, or diesel fuel). If more than one type of fuel is combusted in the hour, either:

i. Indicate the fuel type which results in the highest emission factors for NO_X (this option is in effect through December 31, 2008); or

ii. Indicate the fuel type resulting in the highest emission factor for each parameter (SO_2, NO_X emission rate, and CO_2) separately (this option is required on and after January 1, 2009);

d. Average hourly NO_X emission rate (lb/mmBtu, rounded to the nearest thousandth);

e. Hourly NO_X mass emissions (lbs, rounded to the nearest tenth);

f. Hourly SO_2 mass emissions (lbs, rounded to the nearest tenth);

g. Hourly CO_2 mass emissions (tons, rounded to the nearest tenth);

h. Hourly CO mass emissions (tons, rounded to the nearest tenth);

i. Hourly calculated unit heat input in mmBtu;

j. Hourly unit output in gross load or steam load;

k. The method of determining hourly heat input: unit maximum rated heat input, unit long term fuel flow or group long term fuel flow;

l. The method of determining NO_X emission rate used for the hour: default based on fuel combusted, unit specific default based on testing or historical data, group default based on representative testing of identical units, unit specific based on testing of a unit with NO_X controls operating, or missing data value;

m. Control status of the unit;

n. Base, peak or full load indicator (as applicable); and

o. Multiple fuel flag.

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1), and PTI 08-04888]

(15) If the permittee uses 40 CFR Part 75.19 to comply with the SO_2 and NO_X emissions limits, the permittee shall maintain quarterly records of the following information:

a. Type of fuel;

b. Beginning date and hour of long term fuel flow measurement period;

c. End date and hour of long term fuel flow period;

d. Quantity of fuel measured;

e. Units of measure;

f. Fuel gross calorific value (GCV) value used to calculate heat input;

g. Units of GCV;

h. Method of determining fuel GCV used;

i. Method of determining fuel flow over period;

j. Component-system identification code;

k. Quarter and year;

l. Total heat input (mmBtu); and

m. Operating hours in period.

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1), and PTI 08-04888]

e) Reporting Requirements

(1) Continuous SO_2 Emissions Reporting:

a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO_2 values in excess of the applicable emission limitations specified in the terms and conditions of this permit. These reports shall also contain the total SO_2 emissions for the calendar quarter (in tons).

b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous SO_2 monitoring system downtime (if used) while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the continuous SO_2 monitoring system (if used) while the emissions unit was on line shall also be included in the quarterly report.

c. If there are no excess SO_2 emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the continuous SO_2 monitoring system (if used) while the emissions unit was on line shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(2) Continuous NO_X Emissions Reporting:

a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NO_X values in excess of the applicable emission limitations specified in the terms and conditions of this permit. These reports shall also contain the total NO_X emissions for the calendar quarter (in tons).

For emissions units using water to fuel ratio monitoring, an excess emission shall be any unit operating hour for which the average water to fuel ratio, as measured by the excepted monitoring system, falls below the water to fuel ratio defined in the quality assurance plan required by 40 CFR 75.19(e)(5). Any unit operating hour in which no water or steam is injected into the emissions unit shall also be

considered an excess emission. Each report shall include the average steam or water to fuel ratio, average fuel consumption, ambient conditions (temperature, pressure, and humidity), and gas turbine load during each excess emission.

For emissions units using combustion reference temperature monitoring, an excess emission shall be any unit operating hour for which the average combustion reference temperature, as measured by the excepted monitoring system, falls below the minimum combustion reference temperature defined in the quality assurance plan required by 40 CFR 75.19(e)(5). Each report shall include the average combustion reference temperature, ambient conditions (temperature, pressure, and humidity), and gas turbine load during each excess emission.

For emissions units using operating mode monitoring, an excess emission shall be any unit operating hour which the emissions unit was not operating in the pre-mix steady state mode, as measured by the excepted monitoring system. Each report shall include the operating mode, ambient conditions (temperature, pressure, and humidity), and gas turbine load during each excess emission.

b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous monitoring system downtime while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the continuous monitoring system while the emissions unit was on line shall also be included in the quarterly report.

For emissions units using water or steam to fuel ratio monitoring, a period of monitor downtime shall be any unit operating hour in which water or steam is injected into the emissions unit, but the essential parametric data needed to determine the steam or water to fuel ratio are unavailable or invalid.

For emissions units using combustion reference temperature monitoring, a period of monitor downtime shall be any unit operating hour in which the essential parametric data needed to determine the combustion reference temperature is unavailable or invalid.

For emissions units using operating mode monitoring, a period of monitor downtime shall be any unit operating hour in which the essential parametric data needed to determine the operating mode is unavailable or invalid.

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

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(3) Continuous CO Emissions Reporting:

a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of CO values in excess of the applicable emission limitations specified in the terms and conditions of this permit. These reports shall also contain the total CO emissions for the calendar quarter (in tons).

b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous CO monitoring system downtime (if used) while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the continuous CO monitoring system (if used) while the emissions unit was on line shall also be included in the quarterly report.

c. If there are no excess CO emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the continuous CO monitoring system (if used) while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(4) The permittee shall submit quarterly deviation (excursion) reports to the Regional Air Pollution Control Agency that identify any exceedances of the following information:

a. The rolling, 12-month usage limitation for number two fuel oil of 8,580,000 gallons (for this emissions unit).

b. The rolling, 12-month usage limitation for natural gas of 2,580 MMCF (for this emissions unit).

c. The rolling, 12-month NO_X emission limitation of 110 tons (for this emissions unit).

d. The rolling, 12-month CO emission limitation of 160.8 tons, including periods of start-up and shutdown, for this emissions unit.

e. The rolling, 12-month CO emission limitation of 160.8 tons, including periods of start-up and shutdown, for emissions units P005, P006, and P007, combined.

f. The rolling, 12-month SO_2 emission limitation of 30.86 tons, for this emissions unit.

g. All time periods during which the duration for all start-up and/or shutdown periods did not comply with the requirements established in b)(2)c.

h. For the number two fuel oil, any exceedances of the 0.05%, by weight, sulfur content and the calculated SO_2 emissions rate, in lb/MMBtu.

i. Any time during which the permittee burns a fuel other than pipeline quality natural gas or number two fuel oil.

j. The rolling, 12-month formaldehyde emission limitation of 4.20 tons, for emissions units P005, P006, and P007, combined.

These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(5) The permittee shall submit quarterly reports which identify each period during which an exemption for ice-fog provided in 40 CFR Part 60.332(f) is in effect. The reports shall include the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time when the air pollution control system was reactivated. These reports shall be postmarked by April 30, July 30, October 30, and January 30 and each report shall cover the previous calendar quarter.

[Authority for term: 40 CFR Part 60, OAC rule 3745-77-07(C)(1), and PTI 08-04888]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:

a. <u>Emission Limitations</u>

Particulate/PM_{10} emissions from this emissions unit shall not exceed 8 lbs/hr and 0.0072 lb/mmBtu during natural gas combustion and 15.0 lbs/hr and 0.013 lb/mmBtu during number two fuel oil combustion.

<u>Applicable Compliance Method</u>

If required, compliance shall be based upon stack testing in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A and, 40 CFR Part 51, Appendix M, Method 201 or 201A and 202.

[Authority for term: OAC rules 3745-17-03(B)(10) and 3745-77-07(C)(1), and PTI 08-04888]

b. Emission Limitation

Particulate/PM_{10} emissions from this emissions unit shall not exceed 15.5 TPY.

Applicable Compliance Method

Compliance with the annual allowable particulate/PM_{10} emissions limitation may be determined as follows:

i. When combusting number two fuel oil, multiply the hourly particulate/PM_{10} emissions derived from the most recent stack test by the annual number of hours of operation when combusting number two fuel oil (summation of the monthly values from d)(5)i for the calendar year), and then divide by 2000 lbs/ton.

ii. When combusting natural gas, multiply the manufacturer-supplied emission factor of 0.0072 lb/mmBtu or the emissions factor derived from the most recent stack test, by the maximum rated heat input capacity of the emissions unit (1115 mmBtu/hr), and then multiply the result by the annual number of hours of operation when combusting natural gas (summation of the monthly values from b)(5)h for the calendar year), and then divide by 2000 lbs/ton.

iii. Add f)(1)b.i + f)(1)b.ii.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

c. Emission Limitations

NO_X emissions from this emissions unit shall not exceed 15 ppmvd at 15% oxygen at full load and 62 lbs/hr during natural gas combustion; 42 ppmvd at 15% oxygen at full load and 195 lbs/hr during number two fuel oil combustion.

Applicable Compliance Method

If a continuous NO_X monitoring system is used to determine compliance with these allowable NO_X emissions limitations above, compliance shall be based on the use of the continuous NO_X monitoring system specified in d)(2) and the applicable 40 CFR Part 60 and 75 requirements. Emissions calculated using the 40 CFR Part 75 bias adjustment factor or using missing data procedures due to monitor downtime shall not be used to determine compliance with the hourly emission limitation.

When combusting natural gas and using a monitoring system in compliance with 40 CFR 75.19, compliance shall be determined by multiplying the heat input (mmBtu/hr) by 0.05 lb/mmBtu, which is the NO_X emissions rate determined in accordance with 40 CFR 75.19(c)(1)(iv)(G), or by an emissions factor determined in accordance with 40 CFR 75.19(c)(1)(iv)(A).

When combusting number two fuel oil and using a monitoring system in compliance with 40 CFR 75.19, compliance shall be determined by conducting an emissions test in accordance with 40 CFR 75.19(c)(1)(iv)(A) within 60 days of commencing fuel oil combustion.

If required, compliance with the allowable NO_X emission limitations above, shall be determined based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Reference Methods 1 - 4 and Method 7 or 7E, using an arithmetic average of three (3) one-hour test runs.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

d. Emission Limitation

NO_X emissions from this emissions unit shall not exceed 110 tons per rolling, 12-month period.

Applicable Compliance Method

Compliance with the annual allowable NO_X emission limitation above shall be based upon the record keeping requirements established in d)(2) and d)(5) if using a continuous NO_X monitoring system, or d)(5), d)(14) and d)(15) if using a monitoring system in compliance with 40 CFR 75.19.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

e. Emission Limitations

CO emissions from this emissions unit shall not exceed 301 lbs/hr at all operating loads, excluding start-up and shutdown periods when firing natural gas; 413 lbs/hr during start-up and shutdown periods when firing natural gas; and 800 lbs/hr when firing number two fuel oil.

Applicable Compliance Method

If a continuous CO monitoring system is used to determine compliance with the allowable CO emissions limitation above, compliance shall be based upon the data from the continuous CO emissions monitoring system and the monitoring and record keeping requirements specified in d)(3). Emissions calculated using missing data procedures due to monitor downtime shall not be used to determine compliance with the hourly emission limitation.

When combusting natural gas and using a monitoring system in compliance with 40 CFR 75.19, compliance shall be determined by multiplying the heat input (mmBtu/hr) by 0.03 lb/mmBtu, which is the CO emissions rate determined in accordance with 40 CFR 75.19(c)(1)(iv)(G), or by an emissions factor determined in accordance with 40 CFR 75.19(c)(1)(iv)(A).

When combusting number two fuel oil and using a monitoring system in compliance with 40 CFR 75.19, compliance shall be determined by conducting

an emissions test in accordance with 40 CFR 75.19(c)(1)(iv)(A) within 60 days of commencing fuel oil combustion.

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation through stack testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

f. Emission Limitation

CO emissions from this emissions unit shall not exceed 160.8 tons per rolling, 12-month period, including periods of start-up and shutdown.

Applicable Compliance Method

Compliance with the annual allowable CO emission limitation above shall be based upon the record keeping requirements established in d)(3) and d)(5) if using a continuous CO monitoring system, or d)(5), d)(14) and d)(15) if using a monitoring system in compliance with 40 CFR 75.19.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

g. Emission Limitation

Total combined CO emissions from emissions units P005, P006 and P007 shall not exceed 160.8 tons per rolling, 12-month period, including periods of start-up and shutdown.

Applicable Compliance Method

Compliance with the annual allowable CO emission limitation above shall be based upon the record keeping requirements established in d)(3), d)(5) and d)(13) if using a continuous CO monitoring system, or d)(5), d)(13), d)(14) and d)(15) if using a monitoring system in compliance with 40 CFR 75.19.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

h. Emission Limitation

VOC emissions from this emissions unit shall not exceed 10.0 lbs/hr.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the hourly allowable VOC emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25A.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

i. Emission Limitation

VOC emissions from this emissions unit shall not exceed 15.0 TPY.

Applicable Compliance Method

Compliance with the annual allowable VOC emission limitation may be determined as follows:

i. When combusting number two fuel oil, multiply the lb VOC/mmBtu emission factor derived from the most recent stack test by the annual amount of number two fuel oil burned, in gallons (summation of the monthly values from d)(5)i for the calendar year), and by the average heat content of number two fuel oil (0.139 mmBtu/gallon), and then divide by 2000 lbs/ton.

ii. When combusting natural gas, multiply the lb VOC/mmBtu emission factor derived from the most recent stack test by the annual amount of natural gas burned, in mmcf (summation of the monthly values from d)(5)h for the calendar year), and by the average heat content of natural gas (1020 mmBtu/mmcf), and then divide by 2000 lbs/ton.

iii. Add f)(1)i.i + f)(1)i.ii.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

j. Emission Limitations

SO_2 emissions from this emissions unit shall not exceed 0.0006 lb/MMBtu during natural gas combustion and 0.055 lb/MMBtu during number two fuel oil combustion.

Applicable Compliance Method

When firing natural gas, compliance with the allowable SO_2 emission limitation above will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall perform or require the supplier to perform an analysis of the natural gas for sulfur content, in accordance with the appropriate ASTM method, or an equivalent method as approved by the Director, in order to demonstrate compliance with this emission limitation using the appropriate equation specified in AP-42 Table 3.1-2a (4/00).

When firing number two fuel oil, compliance with the allowable SO_2 emission limitation above shall be based upon the fuel analysis and the record keeping requirements specified in d)(1), d)(7) and d)(8), and the use of the equations specified in OAC rule 3745-18-04(F).

If required, the permittee shall demonstrate with the allowable SO_2 emission limitations above through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6C.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

k. Emission Limitation

SO_2 emissions from this emissions unit shall not exceed 30.86 tons per rolling, 12-month period.

Applicable Compliance Method

Compliance with the annual allowable SO_2 emission limitation above shall be based upon the record keeping requirements established in d)(1), d)(4) and d)(5).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

l. Emission Limitation

Total combined formaldehyde emissions from emissions units P005, P006, and P007 shall not exceed 4.20 tons per rolling, 12-month period.

Applicable Compliance Method

Compliance with the annual allowable formaldehyde emission limitation may be determined as follows:

i. When combusting natural gas, multiply the emission factor of 0.00071 lb formaldehyde/MMBtu (AP-42, Table 3.1-3, revised 4/00) by the annual amount of natural gas burned, in mmcf (summation of the monthly values from d)(5)h for the calendar year), and by the average heat content of natural gas (1020 mmBtu/mmcf), and then divide by 2000 lbs/ton.

ii. When combusting number two fuel oil, multiply the emission factor of 0.00028 lb formaldehyde/MMBtu (AP-42, Table 3.1-4, revised 4/00) by the annual amount of number two fuel oil burned, in gallons (summation of the monthly values from d)(5)i for the calendar year), and by the average heat content of number two fuel oil (0.139 mmBtu/gallon), and then divide by 2000 lbs/ton.

iii. Add f)(1)l.i + f)(1)l.ii.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

m. Emission Limitation

Visible PE shall not exceed 10% opacity, as a six-minute average, except for cold start-up and shutdown periods.

Applicable Compliance Method

Compliance shall be determined through visible emissions observations performed in accordance with the methods and procedures specified in USEPA Reference Method 9 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1), and PTI 08-04888]

g) Miscellaneous Requirements

(1) If continuous SO_2 and NO_X monitoring system is used to determine compliance with the allowable emissions limitations above, the quality assurance/quality control plan for the continuous NO_X and SO_2 monitoring systems required pursuant to 40 CFR Part 75, Appendix B must be made available during scheduled inspections and upon request by the Ohio EPA and/or Regional Air Pollution Control Agency.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(2) If a continuous monitoring system in compliance with 40 CFR 75.19 is used to determine compliance with the allowable emissions limitations above, the quality assurance/quality control plan required pursuant to 40 CFR Part 75.19(e)(5) must be made available during scheduled inspections and upon request by the Ohio EPA and/or Regional Air Pollution Control Agency.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

2. Emissions Unit Group - CT-1 and CT-2 Turbines: P005, P006,

EU ID	Operations, Property and/or Equipment Description
P005	Natural gas-fired simple cycle, gas-combustion-turbine generator with No. 2 fuel oil backup; 1,115 MMBtu/hr maximum heat input; includes water injection NO_X reduction system
P006	Natural gas-fired simple cycle, gas-combustion-turbine generator with No. 2 fuel oil backup; 1,115 MMBtu/hr maximum heat input; includes water injection NO_X reduction system

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 operations(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. 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 08-04888	Sulfur dioxide (SO_2) emissions from this emissions unit shall not exceed 0.0006 lb/mmBtu during natural gas combustion, 0.055 lb/mmBtu during number two fuel oil combustion, and 30.86 tons per year (TPY). Volatile organic compound (VOC) emissions from this emissions unit shall not exceed 10.0 lbs/hr and 15.0 TPY. Particulate/PM_{10} emissions from this emissions unit shall not exceed 8 lbs/hr and 0.0072 lb/mmBtu during natural gas combustion; 15.0 lbs/hr and 0.013 lb/mmBtu during number two fuel oil combustion; and 15.5 TPY. Nitrogen oxides (NO_X) emissions from this emissions unit shall not exceed 25 ppmvd at 15% oxygen at full load and 113 lbs/hr during natural gas combustion; 42 ppmvd at 15% oxygen at full load and 195 lbs/hr during number two fuel oil combustion; and 132 tons per rolling, 12-

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		month period.
	OAC rule 3745-31-05(A)(3) PTI 08-04888	The maximum one-hour carbon monoxide (CO) emissions from this emissions unit shall not exceed 2000 lbs/hr (1700 lbs/hr during natural gas combustion or 350 lbs/hr during number two fuel oil combustion, based on a 30-day average). CO emissions from this emissions unit shall not exceed 160.8 tons per rolling 12-month period, including periods of start-up and shutdown, with the total combined CO emissions from emissions units P005, P006 and P007 not to exceed 160.8 tons per rolling, 12-month period, including periods of start-up and shutdown. Visible particulate emissions (PE) shall not exceed 10% opacity, as a six-minute average, except for cold start-up and shutdown periods. See b)(2)d. The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 3745-31-20, 3745-21-08(B), 3745-31-05(C) and 40 CFR Part 52, Section 52.21.
b.	40 CFR Part 75	See Section A.5.
c.	OAC rules 3745-31-10 through 3745-31-20	The SO_2 emissions from this emissions unit shall not exceed 30.86 tons per rolling, 12-month period.
d.	OAC rule 3745-17-07(A)(1) OAC rule 3745-17-11(B)(4) OAC rule 3745-18-06(F) 40 CFR Part 60 Subpart GG OAC rule 3745-16-02	The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to 40 CFR Part 52, Section 52.21 and OAC rules 3745-31-05(A)(3), and 3745-31-10 through 3745-31-20.
e.	OAC rule 3745-14	See Section B.2.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	OAC rule 3745-31-05(D) (Synthetic minor to avoid MACT rule requirements)	The total combined formaldehyde emissions from this emissions units P005, P006, and P007 shall not exceed 4.20 tons per rolling, 12-month period.
g.	OAC rule 3745-21-08(B)	See b)(2)g.

(2) Additional Terms and Conditions

a. In accordance with OAC rules 3745-31-10 through 3745-31-20 and 40 CFR Part 52.21, the permittee shall use water injection to reduce NO_X emissions to 25 ppmvd at 15% oxygen, at full load, when burning natural gas, and 42 ppmvd at 15% oxygen, at full load, when burning number two fuel oil.

b. In accordance with OAC rules 3745-31-10 through 3745-31-20 and 40 CFR Part 52.21, the permittee shall use natural gas as the primary fuel and number two fuel oil with a maximum sulfur content of 0.05 percent by weight, as the back-up fuel.

c. "Start-up" shall be defined as the time necessary to bring a turbine on line from a no load condition to fully activated water injection, not to exceed thirty (30) minutes. Shutdown periods shall not exceed thirty (30) minutes.

d. The minimum stack height for this emissions unit shall be at least 88 feet above the ground.

e. "Full load" shall be defined as all periods when the hourly average electrical output exceeds 72 MW.

f. If exhaust stack gas flowrate is not monitored as required by 40 CFR Part 60, Appendix B - Performance Specification 6, the permittee shall use a certified NO_X continuous emissions monitoring system in conjunction with a fuel flow monitor as described in 40 CFR Part 75, and certified CO continuous emissions monitoring system in conjunction with a fuel flow monitor (in a manner similar to that used for NO_X) to meet these requirements, except as provided in 40 CFR 75.12(e). If used, the relative accuracy requirements of Performance Specifications 6 shall apply to the NO_X and CO continuous emissions monitoring systems.

g. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08 by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in this permit to install.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However,

that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

h. If this emissions unit meets the requirements of 40 CFR 75.19(a)(1), (a)(2) and (b), the low mass emissions (LME) excepted methodology in 40 CFR 75.19(c) may be used in lieu of continuous emission monitoring systems or, if applicable, in lieu of methods under Appendices D, E, and G to 40 CFR Part 75, for the purpose of determining the unit heat input, NO_X, SO_2, and CO_2 mass emissions, and the NO_X emission rate under 40 CFR Part75. If the permittee of a qualifying emissions unit elects to use the LME methodology, it must be used for all parameters that are required to be monitored by the applicable program(s). For example, for an Acid Rain Program LME unit, the methodology must be used to estimate SO_2, NO_X, and CO_2 mass emissions, NO_X emission rate, and unit heat input.

c) Operational Restrictions

(1) The sulfur content of the number two fuel oil fired in this emissions unit shall not exceed 0.05%, by weight.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 08-04888]

(2) The permittee shall be prohibited from combusting fuel oil in this emissions unit from April 1 through September 30 of each year, except for one-half hour of each month or under emergency conditions when natural gas supplies are not available. This exclusion is permitted contingent upon the submittal to the Regional Air Pollution Control Agency of adequate documentation from the permittee that natural gas was not available.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 08-04888]

(3) The number two fuel oil usage in this emissions unit shall not exceed 8,580,000 gallons, per rolling, 12-month period.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 08-04888]

(4) The natural gas usage in this emissions unit shall not exceed 2,580,000,000 cubic feet, per rolling, 12-month period.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 08-04888]

(5) In lieu of complying with the natural gas usage restriction specified above, the permittee may combust an additional 150 cubic feet of natural gas in this emissions unit for each gallon of number two fuel oil which is not combusted by this emissions unit. Under no circumstance shall the natural gas consumption exceed 3,870,000,000 cubic feet, per rolling, 12-month period.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 08-04888]

(6) The permittee shall burn only pipeline quality natural gas or number two fuel oil in this emissions unit.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI 08-04888]

d) Monitoring and/or Recordkeeping Requirements

(1) Continuous SO_2 Emissions Monitoring:

a. The permittee shall either operate and maintain equipment to continuously monitor and record SO_2 emissions from this emissions unit (SO_2 pollutant concentration and flow monitor), in units of the applicable standard(s) or meet the requirements of 40 CFR Part 75 Appendix D or 40 CFR Part 75.19(c). Such continuous monitoring and recording equipment (SO_2 pollutant concentration and flow monitor) shall comply with the requirements specified in 40 CFR part 60 and 40 CFR Part 75.

b. If used, each continuous monitoring system (SO_2 pollutant concentration and flow monitor) consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.

c. If used, the permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous SO_2 monitoring system (SO_2 pollutant concentration and flow monitor) has been certified in accordance with the applicable requirements specified in 40 CFR Part 60 and Part 75. The letter of certification shall be made available to the Director upon request.

d. If used, the permittee shall maintain records of the following data obtained by the continuous SO_2 monitoring system (SO_2 pollutant concentration and flow monitor): emissions of SO_2 in parts per million, emissions of SO_2 in lb/MMBTU in the appropriate averaging period (e.g., hourly), results of quarterly cylinder gas audits, linearity check, or relative accuracy test audits, and magnitude of manual calibration adjustments.

e. The permittee shall develop a written quality assurance/quality control plan for the continuous SO_2 monitoring system (SO_2 pollutant concentration and flow monitor) or excepted system designed to ensure continuous valid and representative readings of SO_2 emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous SO_2 monitoring system must be kept on site and available for inspection during regular office hours.

f. The permittee may conduct the relative accuracy test audits for the continuous SO_2 monitoring system (SO_2 pollutant concentration and flow monitor) in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. In addition, linearity checks conducted pursuant to 40 CFR Part 75,

Appendix B, may be used in place of quarterly cylinder gas audits, as required in 40 CFR Part 60.

g. Data substitution, when required by 40 CFR Part 75, shall be performed in accordance with the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(2) Continuous NO_X Emissions Monitoring:

a. The permittee shall either operate and maintain equipment to continuously monitor and record NO_X emissions from this emissions unit in units of the applicable standard(s) or an excepted monitoring system that meets the requirements of 40 CFR 75.19 (water-to-fuel ratio for water injection controls, as specified in the quality assurance plan specified in 40 CFR 75.19(e)(5)). Such continuous NO_X monitoring and recording equipment shall comply with the applicable requirements specified in 40 CFR Part 60 and Part 75.

b. If used, each continuous NO_X monitoring system consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.

c. If used, the permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous NO_X monitoring system has been certified in accordance with the applicable requirements specified in 40 CFR Part 60 and Part 75. The letter of certification shall be made available to the Director upon request.

d. If used, the permittee shall maintain records of the following data obtained by the continuous NO_X monitoring system: emissions of NO_X in ppmvd at 15% oxygen at full load, emissions of NO_X in lbs/hr, and results of daily zero/span calibration checks, results of quarterly cylinder gas audits, linearity check, or relative accuracy test audits, and magnitude of manual calibration adjustments.

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

f. The permittee may conduct the relative accuracy test audits for the continuous nitrogen oxides monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. Cylinder gas audits may be

conducted in accordance with the frequencies specified in 40 CFR Part 75, Appendix B for linearity checks. In addition, linearity checks conducted pursuant to 40 CFR Part 75, Appendix B, may be used in place of quarterly cylinder gas audits, as required in 40 CFR Part 60.

g. Data substitution, when required by 40 CFR Part 75, shall be performed in accordance with the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

h. For each low mass emissions unit for which fuel-and-unit-specific NO_X emission rates are determined in accordance with 40 CFR 75.19(c)(1)(iv) and which has add-on NO_X emission controls of any kind or uses dry low- NO_X technology, the permittee shall develop and keep on-site a quality assurance plan which explains the procedures used to document proper operation of the NO_X emission controls. The plan shall include the parameters monitored (e.g., water-to-fuel ratio) and the acceptable ranges for each parameter used to determine proper operation of the unit's NO_X controls.

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(3) Continuous CO Emissions Monitoring:

a. The permittee shall either operate and maintain equipment to continuously monitor and record CO emissions from this emissions unit in units of the applicable standard(s) or, if the emissions unit meets the requirements of 40 CFR 75.19 for SO_2, NO_X and CO_2, establish fuel-and-unit-specific CO emissions rates using the same methodology as specified for NO_X in 40 CFR 75.19(c)(1)(iv)(G). Note that the requirements of 40 CFR 75 do not apply to CO emissions. Such continuous CO monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

b. If used, each continuous CO monitoring system consists of all the equipment used to acquire and record data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data processing hardware and software.

c. If used, the permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous CO monitoring system has been certified in accordance with the applicable requirements specified in 40 CFR Part 60. The letter of certification shall be made available to the Director upon request.

d. If used, the permittee shall maintain records of the following data obtained by the continuous CO monitoring system: emissions of CO in lbs/hr, results of daily zero/span calibration checks, results of quarterly cylinder gas audits, or relative accuracy test audits, and magnitude of manual calibration adjustments.

e. The permittee shall develop a written quality assurance/quality control plan for the continuous CO monitoring system designed to ensure continuous valid and representative readings of CO emissions in units of the applicable standard(s).

The plan shall follow the applicable requirements for 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous CO monitoring system must be kept on site and available for inspection during regular office hours.

f. The permittee may conduct the relative accuracy test audits for the continuous CO monitoring system in accordance with the frequencies required for monitoring systems subject to 40 CFR Part 75, Appendix B; however, the permittee is still required to provide the audit results in units of the applicable standard(s), in accordance with 40 CFR Part 60. Cylinder gas audits may be conducted in accordance with the frequencies specified in 40 CFR Part 75, Appendix B for linearity checks. In addition, linearity checks conducted pursuant to 40 CFR Part 75, Appendix B, may be used in place of quarterly cylinder gas audits, as required in 40 CFR Part 60.

[Authority for term: 40 CFR Part 60, OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(4) The permittee shall maintain hourly records of the total actual heat input values for this emissions unit, in MMBTU/hr. The total actual heat input values shall be determined using the applicable procedures specified in 40 CFR Part 75, Appendix F.

[Authority for term: 40 CFR Part 60, OAC rule 3745-77-07(C)(1) and PTI 08-04888]

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

a. The amount of number two fuel oil burned, in gallons.

b. The rolling, 12-month summation of number two fuel oil usage, in gallons.

c. The amount of natural gas burned, in million cubic feet (MMCF).

d. The rolling, 12-month summation of natural gas usage, in MMCF.

e. The rolling, 12-month summation of NO_X emissions, in tons.

f. The rolling, 12-month summation of CO emissions, in tons.

g. The rolling, 12-month summation of SO_2 emissions, in tons.

h. The number of hours the emissions unit is in operation when combusting natural gas.

i. The number of hours the emissions unit is in operation when combusting number two fuel oil.

j. The rolling, 12-month summation of formaldehyde emissions, in tons.

k. The 30-day average, hourly CO emission rate, in lbs/hr, when the emissions unit is combusting natural gas.

l. The 30-day average, hourly CO emission rate, in lbs/hr, when the emissions unit is combusting number two fuel oil.

m. The date, time and duration, in minutes, of each start-up and shutdown. (The terms start-up and shutdown are defined in b)(2)c.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(6) The permittee shall monitor and record all periods of time when the unit is operated at "full load" conditions, based upon the definition of full load in b)(2)e.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(7) In accordance with 40 CFR Part 60, Subpart GG, Section 60.334(h)(1), the permittee shall monitor the sulfur content of the fuel being fired in the turbine, except as provided in 40 CFR 60.334(h)(3). The frequency of determination of this value shall be in accordance with 40 CFR 60.334(i).

[Authority for term: 40 CFR Part 60, OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(8) For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received and the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated SO_2 emission rate (in lb/MMBtu).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(9) Pursuant to 40 CFR 60.334(i)(1) or (3), the permittee shall determine fuel sulfur content in accordance with the requirements of 40 CFR 60.335(b)(10)(i) and 60.335(b)(10)(ii).

[Authority for term: 40 CFR Part 60, OAC rule 3745-77-07(C)(1) and PTI 08-04888]

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(11) If the permittee uses 40 CFR Part 75 Appendix D to comply with the SO_2 emissions limit, the permittee shall operate and maintain equipment to continuously monitor and record the actual fuel flow to this emissions unit when the emissions unit is in operation. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75. If the fuel flow monitoring and/or recording equipment is (are) not in service when the emissions unit is in operation, the permittee shall comply with the appropriate missing data procedures specified in 40 CFR Part 75.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(12) If using a continuous diluent monitor, the permittee shall operate and maintain equipment to continuously monitor and record the percent oxygen in the stack serving this emissions unit when the emissions unit is in operation. Such continuous monitoring

and recording equipment shall comply with the requirements specified in 40 CFR Part 75. The monitoring and recording equipment shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(13) The permittee shall maintain monthly records of the following information for emissions units P005, P006, and P007, combined:

a. The formaldehyde emissions, in tons (sum the formaldehyde emissions for emissions units P005, P006, and P007).

b. The CO emissions, in tons (sum the CO emissions for emissions units P005, P006, and P007).

c. The rolling, 12-month summation of formaldehyde emissions, in tons.

d. The rolling, 12-month summation of CO emissions, in tons.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(14) If the permittee uses 40 CFR Part 75.19 to comply with the SO_2 and NO_X emissions limits, the permittee shall maintain hourly records of the following information:

a. Date and hour;

b. Unit operating time (units using the long term fuel flow methodology report operating time to be 1);

c. Fuel type (pipeline natural gas, natural gas, other gaseous fuel, residual oil, or diesel fuel). If more than one type of fuel is combusted in the hour, either:

i. Indicate the fuel type which results in the highest emission factors for NO_X (this option is in effect through December 31, 2008); or

ii. Indicate the fuel type resulting in the highest emission factor for each parameter (SO_2, NO_X emission rate, and CO_2) separately (this option is required on and after January 1, 2009);

d. Average hourly NO_X emission rate (lb/mmBtu, rounded to the nearest thousandth);

e. Hourly NO_X mass emissions (lbs, rounded to the nearest tenth);

f. Hourly SO_2 mass emissions (lbs, rounded to the nearest tenth);

g. Hourly CO_2 mass emissions (tons, rounded to the nearest tenth);

h. Hourly CO mass emissions (tons, rounded to the nearest tenth);

i. Hourly calculated unit heat input in mmBtu;

j. Hourly unit output in gross load or steam load;

k. The method of determining hourly heat input: unit maximum rated heat input, unit long term fuel flow or group long term fuel flow;

l. The method of determining NO_X emission rate used for the hour: default based on fuel combusted, unit specific default based on testing or historical data, group default based on representative testing of identical units, unit specific based on testing of a unit with NO_X controls operating, or missing data value;

m. Control status of the unit;

n. Base, peak or full load indicator (as applicable); and

o. Multiple fuel flag.

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(15) If the permittee uses 40 CFR Part 75.19 to comply with the SO_2 and NO_X emissions limits, the permittee shall maintain quarterly records of the following information:

a. Type of fuel;

b. Beginning date and hour of long term fuel flow measurement period;

c. End date and hour of long term fuel flow period;

d. Quantity of fuel measured;

e. Units of measure;

f. Fuel gross calorific value (GCV) value used to calculate heat input;

g. Units of GCV;

h. Method of determining fuel GCV used;

i. Method of determining fuel flow over period;

j. Component-system identification code;

k. Quarter and year;

l. Total heat input (mmBtu); and

m. Operating hours in period.

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1) and PTI 08-04888]

e) Reporting Requirements

(1) Continuous SO_2 Emissions Reporting:

a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO_2 values in excess of the applicable emission limitations specified in the terms and conditions of this permit. These reports shall also contain the total SO_2 emissions for the calendar quarter (in tons).

b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous SO_2 monitoring system downtime (if used) while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the continuous SO_2 monitoring system (if used) while the emissions unit was on line shall also be included in the quarterly report.

c. If there are no excess SO_2 emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the continuous SO_2 monitoring system (if used) while the emissions unit was on line shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(2) Continuous NO_X Emissions Reporting:

a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of NO_X values in excess of the applicable emission limitations specified in the terms and conditions of this permit. These reports shall also contain the total NO_X emissions for the calendar quarter (in tons).

For emissions units using water to fuel ratio monitoring, an excess emission shall be any unit operating hour for which the average water to fuel ratio, as measured by the excepted monitoring system, falls below the water to fuel ratio defined in the quality assurance plan required by 40 CFR 75.19(e)(5). Any unit operating hour in which no water or steam is injected into the emissions unit shall also be

considered an excess emission. Each report shall include the average steam or water to fuel ratio, average fuel consumption, ambient conditions (temperature, pressure, and humidity), and gas turbine load during each excess emission.

b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous monitoring system downtime while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the continuous monitoring system while the emissions unit was on line shall also be included in the quarterly report.

For emissions units using water or steam to fuel ratio monitoring, a period of monitor downtime shall be any unit operating hour in which water or steam is injected into the emissions unit, but the essential parametric data needed to determine the steam or water to fuel ratio are unavailable or invalid.

c. If there are no excess NO_X emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the continuous monitoring system while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(3) Continuous CO Emissions Reporting:

a. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of CO values in excess of the applicable emission limitations specified in the terms and conditions of this permit. These reports shall also contain the total CO emissions for the calendar quarter (in tons).

b. The permittee shall submit reports within 30 days following the end of each calendar quarter to the Regional Air Pollution Control Agency documenting any continuous CO monitoring system downtime (if used) while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the

continuous CO monitoring system (if used) while the emissions unit was on line shall also be included in the quarterly report.

c. If there are no excess CO emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the continuous CO monitoring system (if used) while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(4) The permittee shall submit quarterly deviation (excursion) reports to the Regional Air Pollution Control Agency that identify any exceedances of the following information:

a. The rolling, 12-month usage limitation for number two fuel oil of 8,580,000 gallons (for this emissions unit).

b. The rolling, 12-month usage limitation for natural gas of 2,580 MMCF (for this emissions unit).

c. The rolling, 12-month NO_X emission limitation of 132 tons (for this emissions unit).

d. The 30-day average, hourly CO emission limitation, when the emissions unit was combusting natural gas, of 1700 lbs/hr (for this emissions unit).

e. The 30-day average, hourly CO emission limitation when the emissions unit was combusting number two fuel oil, of 350 lbs/hr (for this emissions unit).

f. The rolling, 12-month CO emission limitation of 160.8 tons, including periods of start-up and shutdown, for this emissions unit.

g. The rolling, 12-month CO emission limitation of 160.8 tons, including periods of start-up and shutdown, for emissions units P005, P006, and P007, combined.

h. The rolling, 12-month SO_2 emission limitation of 30.86 tons, for this emissions unit.

i. All time periods during which the duration for all start-up and/or shutdown periods did not comply with the requirements established in b)(2)c.

j. For the number two fuel oil, any exceedances of the 0.05%, by weight, sulfur content and the calculated SO_2 emissions rate, in lb/MMBtu.

k. Any time during which the permittee burns a fuel other than pipeline quality natural gas or number two fuel oil.

l. The rolling, 12-month formaldehyde emission limitation of 4.20 tons, for emissions units P005, P006, and P007, combined.

These reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(5) The permittee shall submit quarterly reports which identify each period during which an exemption for ice-fog provided in 40 CFR Part 60.332(f) is in effect. The reports shall include the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time when the air pollution control system was reactivated. These reports shall be postmarked by January 30, April 30, July 30, and October 30 and each report shall cover the previous calendar quarter.

[Authority for term: 40 CFR Part 60, OAC rule 3745-77-07(C)(1) and PTI 08-04888]

f) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:

a. <u>Emission Limitations</u>

Particulate/PM_{10} emissions from this emissions unit shall not exceed 8 lbs/hr and 0.0072 lb/mmBtu during natural gas combustion and 15.0 lbs/hr and 0.013 lb/mmBtu during number two fuel oil combustion.

<u>Applicable Compliance Method</u>

If required, compliance shall be based upon stack testing in accordance with Methods 1 through 5 of 40 CFR Part 60, Appendix A and, 40 CFR Part 51, Appendix M, Method 201 or 201A and 202.

[Authority for term: OAC rules 3745-17-03(B)(10) and 3745-77-07(C)(1), and PTI 08-04888]

b. <u>Emission Limitation</u>

Particulate/PM_{10} emissions from this emissions unit shall not exceed 15.5 TPY.

<u>Applicable Compliance Method</u>

Compliance with the annual allowable particulate/PM_{10} emissions limitation may be determined as follows:

i. When combusting number two fuel oil, multiply the hourly particulate/PM_{10} emissions derived from the most recent stack test by the annual number of hours of operation when combusting number two fuel oil (summation of the monthly values from d)(5)i for the calendar year), and then divide by 2000 lbs/ton.

ii. When combusting natural gas, multiply the manufacturer-supplied emission factor of 0.0072 lb/mmBtu or the emissions factor derived from the most recent stack test, by the maximum rated heat input capacity of the emissions unit (1115 mmBtu/hr), and then multiply the result by the annual number of hours of operation when combusting natural gas (summation of the monthly values from b)(5)h for the calendar year), and then divide by 2000 lbs/ton.

iii. Add f)(1)b.i + f)(1)b.ii.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

c. Emission Limitations

NO_X emissions from this emissions unit shall not exceed 25 ppmvd at 15% oxygen at full load and 113 lbs/hr during natural gas combustion; and 42 ppmvd at 15% oxygen at full load and 195 lbs/hr during number two fuel oil combustion

Applicable Compliance Method

If a continuous NO_X monitoring system is used to determine compliance with these allowable NO_X emissions limitations above, compliance shall be based on the use of the continuous NO_X monitoring system specified in d)(2) and the applicable 40 CFR Part 60 and 75 requirements. Emissions calculated using the 40 CFR Part 75 bias adjustment factor or using missing data procedures due to monitor downtime shall not be used to determine compliance with the hourly emission limitation.

When combusting natural gas and using a monitoring system in compliance with 40 CFR 75.19, compliance shall be determined by multiplying the heat input (mmBtu/hr) by 0.09 lb/mmBtu for both P005 and P006, which is the NO_X emissions rate determined in accordance with 40 CFR 75.19(c)(1)(iv)(G), or by an emissions factor determined in accordance with 40 CFR 75.19(c)(1)(iv)(A).

When combusting number two fuel oil and using a monitoring system in compliance with 40 CFR 75.19, compliance shall be determined by conducting an emissions test in accordance with 40 CFR 75.19(c)(1)(iv)(A) within 60 days of commencing fuel oil combustion.

If required, compliance with the allowable NO_X emission limitations above, shall be determined based on the results of emission testing conducted in accordance with 40 CFR Part 60, Appendix A, Reference Methods 1 - 4 and Method 7 or 7E, using an arithmetic average of three (3) one-hour test runs.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

d. Emission Limitation

NO_X emissions from this emissions unit shall not exceed 132 tons per rolling, 12-month period.

Applicable Compliance Method

Compliance with the annual allowable NO_X emission limitation above shall be based upon the record keeping requirements established in d)(2) and d)(5) if using a continuous NO_X monitoring system, or d)(5), d)(14) and d)(15) if using a monitoring system in compliance with 40 CFR 75.19.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

e. Emission Limitation

The maximum one-hour CO emissions from this emissions unit shall not exceed 2000 lbs/hr.

Applicable Compliance Method

If a continuous CO monitoring system is used to determine compliance with the allowable CO emissions limitation above, compliance shall be based upon the data from the continuous CO emissions monitoring system and the monitoring and record keeping requirements specified in d)(3). Emissions calculated using missing data procedures due to monitor downtime shall not be used to determine compliance with the hourly emission limitation.

When combusting natural gas and using a monitoring system in compliance with 40 CFR 75.19, compliance shall be determined by multiplying the heat input (mmBtu/hr) by 0.35 lb/mmBtu for P005 or 0.31 lb/mmBtu for P006, which are the CO emissions rates determined in accordance with 40 CFR 75.19(c)(1)(iv)(G), or by an emissions factor determined in accordance with 40 CFR 75.19(c)(1)(iv)(A).

When combusting number two fuel oil and using a monitoring system in compliance with 40 CFR 75.19, compliance shall be determined by conducting an emissions test in accordance with 40 CFR 75.19(c)(1)(iv)(A) within 60 days of commencing fuel oil combustion.

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation through stack testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

f. Emission Limitations

CO emissions from this emissions unit shall not exceed 1700 lbs/hr during natural gas combustion or 350 lbs/hr during number two fuel oil combustion, based on a 30-day average.

Applicable Compliance Method

If a continuous CO monitoring system is used to determine compliance with these allowable CO emissions limitations above, compliance shall be based upon the data from the continuous CO emissions monitoring system and the

monitoring and record keeping requirements specified in d)(3) and d)(5) of this permit. Emissions calculated using missing data procedures due to monitor downtime shall not be used to determine compliance with the hourly emission limitation.

When combusting natural gas and using a monitoring system in compliance with 40 CFR 75.19, compliance shall be determined by multiplying the heat input (mmBtu/hr) by 0.35 lb/mmBtu for P005 or 0.31 lb/mmBtu for P006, which are the CO emissions rates determined in accordance with 40 CFR 75.19(c)(1)(iv)(G), or by an emissions factor determined in accordance with 40 CFR 75.19(c)(1)(iv)(A).

When combusting number two fuel oil and using a monitoring system in compliance with 40 CFR 75.19, compliance shall be determined by conducting an emissions test in accordance with 40 CFR 75.19(c)(1)(iv)(A) within 60 days of commencing fuel oil combustion.

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation through stack testing conducted in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

g. Emission Limitation

CO emissions from this emissions unit shall not exceed 160.8 tons per rolling, 12-month period, including periods of start-up and shutdown.

Applicable Compliance Method

Compliance with the annual allowable CO emission limitation above shall be based upon the record keeping requirements established in d)(3) and d)(5) if using a continuous CO monitoring system, or d)(5), d)(14) and d)(15) if using a monitoring system in compliance with 40 CFR 75.19.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

h. Emission Limitation

Total combined CO emissions from emissions units P005, P006 and P007 shall not exceed 160.8 tons per rolling, 12-month period, including periods of start-up and shutdown.

Applicable Compliance Method

Compliance with the annual allowable CO emission limitation above shall be based upon the record keeping requirements established in d)(3), d)(5) and d)(13) if using a continuous CO monitoring system, or d)(5), d)(13), d)(14) and d)(15) if using a monitoring system in compliance with 40 CFR 75.19.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

i. Emission Limitation

VOC emissions from this emissions unit shall not exceed 10.0 lbs/hr.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the hourly allowable VOC emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25A.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

j. Emission Limitation

VOC emissions from this emissions unit shall not exceed 15.0 TPY.

Applicable Compliance Method

Compliance with the annual allowable VOC emission limitation may be determined as follows:

i. When combusting number two fuel oil, multiply the 0.003 lb VOC/mmBtu emission factor by the annual amount of number two fuel oil burned, in gallons (summation of the monthly values from d)(5)i for the calendar year), and by the average heat content of number two fuel oil (0.139 mmBtu/gallon), and then divide by 2000 lbs/ton.

ii. When combusting natural gas, multiply the 0.004 lb VOC/mmBtu emission factor by the annual amount of natural gas burned, in mmcf (summation of the monthly values from d)(5)h for the calendar year), and by the average heat content of natural gas (1020 mmBtu/mmcf), and then divide by 2000 lbs/ton.

iii. Add j)(1)j.i + j)(1)j.ii.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

k. Emission Limitation

SO_2 emissions from this emissions unit shall not exceed 0.0006 lb/MMBtu during natural gas combustion and 0.055 lb/MMBtu during number two fuel oil combustion.

Applicable Compliance Method

When firing natural gas, compliance with the allowable SO_2 emission limitation above will be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall perform or require the supplier to perform an analysis of the natural gas for sulfur content, in accordance with the appropriate ASTM method, or an equivalent method as approved by the Director, in order to

demonstrate compliance with this emission limitation using the appropriate equation specified in AP-42 Table 3.1-2a (4/00).

When firing number two fuel oil, compliance with the allowable SO_2 emission limitation above shall be based upon the fuel analysis and the record keeping requirements specified in d)(1), d)(7) and d)(8), and the use of the equations specified in OAC rule 3745-18-04(F).

If required, the permittee shall demonstrate with the allowable SO_2 emission limitations above through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6C.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

l. Emission Limitation

SO_2 emissions from this emissions unit shall not exceed 30.86 tons per rolling, 12-month period.

Applicable Compliance Method

Compliance with the annual allowable SO_2 emission limitation above shall be based upon the record keeping requirements established in d)(1), d)(4) and d)(5).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

m. Emission Limitation

Total combined formaldehyde emissions from emissions units P005, P006, and P007 shall not exceed 4.20 tons per rolling, 12-month period.

Applicable Compliance Method

Compliance with the annual allowable formaldehyde emission limitation may be determined as follows:

i. When combusting natural gas, multiply the emission factor of 0.00071 lb formaldehyde/MMBtu (AP-42, Table 3.1-3, revised 4/00) by the annual amount of natural gas burned, in mmcf (summation of the monthly values from d)(5)h for the calendar year), and by the average heat content of natural gas (1020 mmBtu/mmcf), and then divide by 2000 lbs/ton.

ii. When combusting number two fuel oil, multiply the emission factor of 0.00028 lb formaldehyde/MMBtu (AP-42, Table 3.1-4, revised 4/00) by the annual amount of number two fuel oil burned, in gallons (summation of the monthly values from d)(5)i for the calendar year), and by the average heat content of number two fuel oil (0.139 mmBtu/gallon), and then divide by 2000 lbs/ton.

iii. Add f)(1)m.i + f)(1)m.ii.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

n. Emission Limitation

Visible PE shall not exceed 10% opacity, as a six-minute average, except for cold start-up and shutdown periods.

Applicable Compliance Method

Compliance shall be determined through visible emissions observations performed in accordance with the methods and procedures specified in USEPA Reference Method 9 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rules 3745-17-03(B)(1) and 3745-77-07(C)(1), and PTI 08-04888]

g) Miscellaneous Requirements

(1) If continuous SO_2 and NO_X monitoring system is used to determine compliance with the allowable emissions limitations above, the quality assurance/quality control plan for the continuous NO_X and SO_2 monitoring systems required pursuant to 40 CFR Part 75, Appendix B must be made available during scheduled inspections and upon request by the Ohio EPA and/or Regional Air Pollution Control Agency.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

(2) If a continuous monitoring system in compliance with 40 CFR 75.19 is used to determine compliance with the allowable emissions limitations above, the quality assurance/quality control plan required pursuant to 40 CFR Part 75.19(e)(5) must be made available during scheduled inspections and upon request by the Ohio EPA and/or Regional Air Pollution Control Agency.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04888]

3. Emissions Unit Group - Generator Engines: B507, B508, B509, B510,

EU ID	Operations, Property and/or Equipment Description
B507	Stationary internal combustion engine, large bore No.2 fuel oil-fired electric generator (General Motors Model MP45A); 30 MMBTU/hr maximum heat input
B508	Stationary internal combustion engine, large bore No.2 fuel oil-fired electric generator (General Motors Model MP45A); 30 MMBTU/hr maximum heat input
B509	Stationary internal combustion engine, large bore No.2 fuel oil-fired electric generator (General Motors Model MP45A); 30 MMBTU/hr maximum heat input
B510	Stationary internal combustion engine, large bore No.2 fuel oil-fired electric generator (General Motors Model MP45A); 30 MMBTU/hr maximum heat input

h) 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.

i) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operations(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. 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 (PE) shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
b.	OAC rule 3745-17-11(B)(5)(b)	PE shall not exceed 0.062 lb/mmBtu of actual heat input.
c.	OAC rule 3745-18-63(I)(3)	Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu actual heat input.

(2) Additional Terms and Conditions

a. None.

j) 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 b)(1)c.

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

(2) The permittee shall burn only No. 2 fuel oil in this emissions unit.

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

k) Monitoring and/or Recordkeeping Requirements

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

a. Alternative 1:

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

b. Alternative 2:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 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 3745-77-07(C)(1)]

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

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

l) Reporting Requirements

(1) The permittee shall notify the director (the appropriate District Office or local air agency) 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 b)(1). The notification shall include a copy of such record and shall be sent to the director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

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

(2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

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

m) Testing Requirements

(1) Compliance with the emission limitations in b)(1) shall be determined in accordance with the following methods:

a. <u>Emission Limitation</u>

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

<u>Applicable Compliance Method</u>

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

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

b. <u>Emission Limitation</u>

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

<u>Applicable Compliance Method</u>

Compliance shall be based upon an emission factor of 0.062 lb/mmBtu. This emission factor is specified in the U.S. EPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.4, Table 3.4-2 (10/96).

The permittee may demonstrate compliance with this emission limitation in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(10).

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

c. Emission Limitation

Sulfur dioxide emissions shall not exceed 0.5 lb/mmBtu actual heat input.

Applicable Compliance Method

Compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received or each daily sample collected during a calendar month meets the limitation. The permittee may 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(F) and 3745-77-07(C)(1)]

n) Miscellaneous Requirements

(1) None.