



State of Ohio Environmental Protection Agency

Street Address:

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

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

04/05/06

CERTIFIED MAIL

**RE: Preliminary Proposed Title V Significant Permit Modification
Chapter 3745-77 permit**

08-57-04-2072
DP&L Tait Generating Station
Dan Sweeney
9200 Chautauqua Road
Miamisburg, OH 45342-4103

Dear Dan Sweeney:

Enclosed is the Ohio EPA Preliminary Proposed Title V permit that was issued in draft form on 01/11/06. The comment period has ended. We are now ready to submit this permit to USEPA for approval.

We are submitting this for your review and comment. If you do not agree with the Preliminary Proposed Title V permit as written, you now have the opportunity to raise your concerns. **In order to facilitate our review of all the comments or concerns you may have with the enclosed preliminary proposed permit, please provide a hand marked-up copy of the permit showing the changes you think are necessary, along with any additional summary comments, within fourteen (14) days from your receipt of this letter to:**

**Andrew Hall
Permit Review/Development Section
Ohio EPA, Division of Air Pollution Control
122 South Front Street
Columbus, Ohio 43215**

and

RAPCA
117 South Main Street
Dayton, OH 45422-1280
(937) 225-4435

Also, if you believe that it is necessary to have an informal conference with us, then, as part of your written comments, you should request a conference concerning the written comments.

If comments are not submitted within fourteen (14) days of your receipt of this letter, we will forward the proposed permit to USEPA for approval. All comments received will be carefully considered before proceeding to the proposed permit.

Sincerely,

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

cc: RAPCA
File, DAPC PIER



State of Ohio Environmental Protection Agency

PRELIMINARY PROPOSED TITLE V SIGNIFICANT PERMIT MODIFICATION

Original Effective Date:	Expiration Date: 01/01/00	Modification Effective Date: <i>To be entered upon final issuance</i>
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This document constitutes issuance of a Title V permit for Facility ID: 08-57-04-2072 to:

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

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

B001 (Tait CT-1) 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 NOx reduction system.	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 NOx reduction system.	gas-combustion-turbine generator with No. 2 fuel oil backup; 1,115 MMBtu/hr maximum heat input; includes water injection and dry low-NOx cumbustor NOx reduction systems.
B002 (Tait CT-2)	B003 (Tait CT-3) Natural gas-fired simple cycle,	

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

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

RAPCA
117 South Main Street
Dayton, OH 45422-1280
(937) 225-4435

OHIO ENVIRONMENTAL PROTECTION AGENCY

Joseph P. Koncelik
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Record Keeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, i.e., in Section A.III of Part III of this Title V permit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))
- c. The permittee shall submit required reports in the following manner:

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

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

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

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

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

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

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

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

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

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

See B.6 below if no deviations occurred during the quarter.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

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

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; General Terms and Conditions: A.2, A.3, A.4, A.6.e, A.7, A.12, A.14, A.18, A.19, A.20, and A.22 of Part I of this Title V permit, as well as any deviations from the requirements in Section A.V or A.VI of Part III of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with General Term and Condition A.1.c.ii above shall be submitted (i.e.,

postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in Part II.A of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

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

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

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

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

- iv. Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."
(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))
- v. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
(Authority for term: OAC rule 3745-77-07(A)(3)(c))

2. Scheduled Maintenance

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

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

3. Risk Management Plans

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. ("Act"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

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

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

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.
(Authority for term: OAC rule 3745-77-07(A)(5))

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
(Authority for term: OAC rule 3745-77-07(A)(6))

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with A.10 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.
- f. Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable upon final issuance of all applicable OAC Chapter 3745-35 operating permits and/or registrations for all subject emissions units located at the facility and:
 - i. the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
 - ii. the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
 - iii. a combination of i. and ii. above.

The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law. (Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.
(Authority for term: OAC rule 3745-77-07(A)(8))

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.
(Authority for term: OAC rule 3745-77-07(A)(9))

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.
(Authority for term: OAC rule 3745-77-07(A)(10))

10. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

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

11. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

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

12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
 - i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.
 - ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.
 - (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.

- iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

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

13. Permit Shield

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

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

14. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

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

15. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

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

16. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.
- b. The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.
- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit to install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

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

17. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)

18. Insignificant Activities or Emissions Levels

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

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

19. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

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

20. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

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

21. Permanent Shutdown of an Emissions Unit

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

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

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

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

22. Title VI Provisions

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

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
(Authority for term: OAC rule 3745-77-01(H)(11))

B. State Only Enforceable Section

1. Reporting Requirements Related to Monitoring and Record Keeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

2. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

3. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

4. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with

paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

5. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

6. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

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

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

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforceable Section

1. Nitrogen Oxides (NOx) Budget Trading Program

OAC Chapter 3745-14

a. Office of Regulatory Information System Facility Code - 2847

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

Emissions Unit	Annual Allowance for Calendar Years 2004 and 2005	Annual Allowance for Calendar Years 2006 and 2007
B001 - Boiler CT-1	23	23
B002 - Boiler CT-2	25	24

Emissions unit B003 (Boiler CT-3) is a new regulated electrical generating unit. Annual NOx allowance allocations were not established for this new unit when OAC Chapter 3745-14 was promulgated. The annual NOx allowance allocations for emissions unit B003 for calendar years 2005 through 2007 will be established in accordance with OAC rule 3745-14-05(C)(4). Pursuant to OAC rule 3745-14-05(B)(2), the annual NOx allowance allocations for emissions units B001 through B003 for calendar years 2008 through 2012 will be established in accordance with OAC rules 3745-14-05(C)(1) and 3745-14-05(C)(2).

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

[Authority for term: OAC rule 3745-14-01(C)(1)(a)(i)]

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

[Authority for term: OAC rules 3745-14-01(E)(1)(a)(i), 3745-14-01(E)(1)(a)(i), and 3745-14-03(B)(1)]

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

[Authority for term: OAC rules 3745-14-01(E)(3)(a) and 3745-14-03(E)(3)(c)]

f. NOx allowances shall be held in, deducted from, or transferred among NOx allowance tracking system accounts in accordance with OAC rules 3745-14-05, 3745-14-06, 3745-14-07, and 3745-14-09.

[Authority for term: OAC rule 3745-14-01(E)(3)(d)]

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

[Authority for term: OAC rule 3745-14-01(E)(3)(e)]

A. State and Federally Enforceable Section (continued)

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

[Authority for term: OAC rules 3745-14-01(E)(3)(b), 3745-14-01(E)(4)(a), and 3745-14-01(E)(4)(b)]

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

[Authority for term: OAC rule 3745-14-01(E)(3)(h)]

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

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

[Authority for term: OAC rules 3745-14-03(D)(2) and 3745-14-03(E)(1)]

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

[Authority for term: OAC rule 3745-14-08(A)(5)]

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

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

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

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

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

[Authority for term: OAC rules 3745-14-01(E)(5)(a)(i) through (iv)]

m. The permittee shall operate and maintain equipment to continuously monitor and record nitrogen oxides emissions from these emissions units in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in Part III, Section A.III.2 and 40 CFR Part 75.

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

A. State and Federally Enforceable Section (continued)

n. The permittee shall comply with the monitoring plan requirements of 40 CFR Part 75.62, except that the monitoring plan shall also include all of the information required by Subpart H of 40 CFR Part 75.

[Authority for term: OAC rule 3745-14-08(E)(2)(a)]

o. The NOx authorized account representative of the NOx budget unit shall submit the reports and compliance certifications required under the NOx budget trading program, including those under OAC rules 3745-14-04 and 3745-14-08, to the Director and Administrator.

[Authority for term: OAC rule 3745-14-01(E)(5)(b)]

p. Each submission under the NOx budget trading program shall be submitted, signed, and certified by the NOx authorized account representative for each NOx budget source on behalf of which the submission is made. Each such submission shall include the following certification statement by the NOx authorized account representative:

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

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

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

q. The NOx authorized account representative shall submit quarterly reports that include all of the data and information required in Subpart H of 40 CFR Part 75 for each NOx budget unit (or group of units using a common stack) and the data and information in Subpart G of 40 CFR Part 75. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30 and October 30 of each year and shall be submitted in the manner specified in Subpart H of 40 CFR Part 75 and 40 CFR Part 75.64.

[Authority for term: OAC rules 3745-14-08(E)(4)(a) and 3745-14-08(E)(4)(c)(i)]

r. The NOx authorized account representative shall submit to the Administrator a compliance certification in support of each quarterly report based on a reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The compliance certification shall state that:

i. the monitoring data submitted were recorded in accordance with the applicable requirements of OAC rule 3745-14-08 and 40 CFR Part 75, including the quality assurance procedures and specifications; and

ii. for a unit with add-on NOx emission controls and for all hours where data are substituted in accordance with 40 CFR Part 75.34(a)(1), the add-on emission control were operating within the range of parameters listed in the quality assurance program under Appendix B of 40 CFR Part 75 and the substitute values do not systematically underestimate the NOx emissions.

[Authority for term: OAC rule 3745-14-08(E)(4)(d)(i) and (ii)]

A. State and Federally Enforceable Section (continued)

s. The NOx authorized account representative for a NOx budget unit shall submit written notice of monitoring system certification and re-certification test dates to the Director and the Administrator in accordance with 40 CFR Part 75.61. The NOx authorized account representative shall submit a certification application to the Administrator, U.S. EPA, Region V Office, and the Director within forty-five days after completing all initial or re-certification tests required under paragraph (B) of OAC rule 3745-14-08, including the information required under Subpart H of 40 CFR Part 75.

[Authority for term: OAC rules 3745-14-08(D) and 3745-14-08(E)(3)]

t. For each control period in which one or more NOx budget units at a source are subject to the NOx budget emission limitation, the NOx authorized account representative of the source shall submit to the Director and the Administrator, by November 30 of that year, a compliance certification report for each source covering all such units.

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

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

[Authority for term: OAC rules 3745-14-04(A)(1) and 3745-14-04(A)(2)]

u. In the compliance certification report under Section A.1.t.iv above, the NOx authorized account representative shall certify, based upon reasonable inquiry of those persons with the primary responsibility for operating the source and the NOx budget units at the source in compliance with the NOx budget trading program, whether each NOx budget unit for which the compliance certification is submitted was operated during the calendar year covered by the report in compliance with the requirements of the NOx budget trading program applicable to the unit, including all the following:

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

A. State and Federally Enforceable Section (continued)

iv. whether the facts that form the basis for certification under OAC rule 3745-14-08 of each monitor at the unit or group of units (including the unit) using a common stack, or for using an excepted monitoring method or alternative monitoring method approved under OAC rule 3745-14-08, if any, have changed.

If a change is required to be reported under Section A.1.u.iv above, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor re-certification.

[Authority for term: OAC rule 3745-14-04(A)(3)]

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

[Authority for term: OAC rule 3745-14-03(B)(3)(a)]

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

[Authority for term: OAC rule 3745-14-01(E)(2)(b)]

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

[Authority for term: OAC rules 3745-14-08(A)(2)(c) and 3745-14-08(A)(2)(d)]

B. State Only Enforceable Section

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Tait CT-1 (B001)

Activity 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 NOx reduction system.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
B001 - 80 MW (1115 mmBtu/hr heat input) natural gas or fuel oil fired simple cycle turbine with water injection controls, CT-1	OAC rule 3745-31-05(A)(3) PTI 08-04380	<p>Sulfur dioxide (SO₂) 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 TPY.</p> <p>Volatile organic compound (VOC) emissions from this emissions unit shall not exceed 10.0 lbs/hr and 15.0 TPY.</p> <p>Particulate/PM₁₀ 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.</p>

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
		<p>Nitrogen oxides (NOx) emissions from this emissions unit shall not exceed 113 lbs/hr and 25 ppmvd at 15% oxygen at full load during natural gas combustion; 195 lbs/hr and 42 ppmvd at 15% oxygen at full load during number two fuel oil combustion; and 132 TPY, as a rolling, 12-month period.</p> <p>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).</p> <p>CO emissions from this emissions unit shall not exceed 160.8 TPY as a rolling 12-month period, with the total combined CO emissions from emissions units B001, B002, and B003 not to exceed 160.8 TPY, as a rolling 12-month period.</p> <p>Visible particulate emissions (PE) shall not exceed 10% opacity, as a six-minute average, except for cold start-up and shutdown periods.</p> <p>See A.I.2.d.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 3745-31-20, 3745-23-06(B), 3745-21-08(B) and 3745-31-05(C) and 40 CFR Part 52, Section 52.21.</p> <p>See Part I, term A.4.</p> <p>The SO₂ emissions from this emissions unit shall not exceed 30.86 tons per rolling, 12-month period.</p> <p>The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to 40 CFR Part 52, Sections 52.21 and OAC rules 3745-31-05 (A)(3), and 3745-31-10 through 3745-31-20.</p> <p>See Part II, Term A.1.</p>
	40 CFR Part 75	
	OAC rules 3745-31-10 through 3745-31-20	
	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	
	OAC rule 3745-14	

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-31-05(C) (Synthetic minor to avoid MACT rule requirements)	Total combined formaldehyde emissions from emissions units B001, B002, and B003 shall not exceed 4.20 tons per rolling, 12-month period.
	OAC rule 3745-23-06(B) and OAC rule 3745-21-08(B)	See Section A.I.2.g.

2. Additional Terms and Conditions

- 2.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 NOx 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.
- 2.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.
- 2.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.
- 2.d** The minimum stack height for this emissions unit shall be at least 88 feet above the ground.
- 2.e** "Full load" shall be defined as all periods when the hourly average electrical output exceeds 72 MW.
- 2.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 NOx 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 NOx) to meet these requirements. The relative accuracy requirements of Performance Specifications 6 shall apply to the NOx and CO continuous emissions monitoring systems.
- 2.g** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively 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.

On February 15, 2005, OAC rule 3745-23-06 was rescinded; therefore, it 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 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally approved SIP for Ohio.

II. 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: PTI 08-04380 and OAC rule 3745-77-07(A)(1)]

II. Operational Restrictions (continued)

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: PTI 08-04380 and OAC rule 3745-77-07(A)(1)]

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

[Authority for term: PTI 08-04380 and OAC rule 3745-77-07(A)(1)]

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

[Authority for term: PTI 08-04380 and OAC rule 3745-77-07(A)(1)]

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: PTI 08-04380 and OAC rule 3745-77-07(A)(1)]

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

[Authority for term: PTI 08-04380 and OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. Continuous SO₂ Emissions Monitoring:

- a. The permittee shall either operate and maintain equipment to continuously monitor and record SO₂ emissions from this emissions unit (SO₂ 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 (SO₂ 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 (SO₂ 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 SO₂ monitoring system (SO₂ 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 SO₂ monitoring system (SO₂ pollutant concentration and flow monitor): emissions of SO₂ in parts per million, emissions of SO₂ 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 SO₂ monitoring system (SO₂ pollutant concentration and flow monitor) or excepted system designed to ensure continuous valid and representative readings of SO₂ emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous SO₂ monitoring system must be kept on site and available for inspection during regular office hours.

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

f. The permittee may conduct the relative accuracy test audits for the continuous SO₂ monitoring system (SO₂ 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. Whenever the monitoring system or excepted system fails to meet the quality assurance or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1), and PTI 08-04380]

2. Continuous NO_x Emissions Monitoring:

a. The permittee shall operate and maintain equipment to continuously monitor and record NO_x emissions from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the applicable requirements specified in 40 CFR Part 60 and Part 75.

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

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1), and PTI 08-04380]

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

3. Continuous CO Emissions Monitoring:

- a. The permittee shall operate and maintain equipment to continuously monitor and record CO emissions from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.
- b. Each continuous 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. 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 40 CFR Part 60. The letter of certification shall be made available to the Director upon request.
- d. 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 carbon monoxide 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 08-04380]

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 08-04380]

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 rate, in gallons.
- c. The amount of natural gas burned, in million cubic feet (MMCF).
- d. The rolling, 12-month summation of natural gas usage rate, 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 SO₂ emissions, in tons.
- h. The number of hours the emissions unit is in operation when combusting natural gas.

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

- 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 Section A.I.2.c.).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

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 Section A.I.2.e.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

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 08-04380]

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 SO₂ emission rate (in lb/MMBtu).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

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 08-04380]

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 08-04380]

11. If the permittee uses 40 CFR Part 75 Appendix D to comply with the SO₂ 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 08-04380]

12. 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 08-04380]

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

13. The permittee shall maintain monthly records of the following information for emissions units B001, B002, and B003, combined:
 - a. The formaldehyde emissions, in tons (sum the formaldehyde emissions for emissions units B001, B002, and B003).
 - b. The CO emissions, in tons (sum the CO emissions for emissions units B001, B002, and B003).
 - 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 08-04380]

IV. Reporting Requirements

1. Continuous SO₂ 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 SO₂ values in excess of the applicable emission limitations specified in the terms and conditions of this permit. These reports shall also contain the total SO₂ 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 SO₂ monitoring system downtime while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.
 - c. If there are no excess SO₂ emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

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

2. 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).
 - 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 NO_x monitoring system downtime while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.

IV. Reporting Requirements (continued)

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 analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

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

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

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

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

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, for this emissions unit.
- g. The rolling, 12-month CO emission limitation of 160.8 tons, for emissions units B001, B002, and B003, combined.
- h. The rolling, 12-month SO₂ emission limitation of 30.86 tons, for this emissions unit.

IV. Reporting Requirements (continued)

- i. All time periods during which the duration for all start-up and/or shutdown periods did not comply with the requirements established in Section A.III.2.c of this permit.
- j. For the number two fuel oil, any exceedances of the 0.05%, by weight, sulfur content and the calculated SO₂ 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 B001, B002, and B003, combined.

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

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

- 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 08-04380]

V. Testing Requirements

- 1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations-
8 lbs/hr particulate/PM₁₀ emissions and 0.0072 lb/MMBtu actual heat input particulate/PM₁₀ emissions, when firing natural gas.

15 lbs/hr particulate/PM₁₀ emissions and 0.013 lb/MMBtu actual heat input particulate/PM₁₀ emissions, when firing number two fuel oil.

Applicable Compliance Method-

When combusting natural gas, compliance with the allowable lb/MMBtu particulate/PM₁₀ emission limitation above may be based on the AP-42, Table 3.1-2a (revised 4/00) emission factor of 0.0019 lb/MMBtu. Compliance with the allowable lb/hr particulate/PM₁₀ emission limitation above may be based on the AP-42, Table 3.1-2a (revised 4/00) emission factor of 0.0019 lb/MMBtu multiplied by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

When combusting number two fuel oil, compliance with the allowable lb/MMBtu particulate/PM₁₀ emission limitation specified above shall be based upon an emission factor of 0.0062 lb/MMBtu.* Compliance with the hourly allowable particulate/PM₁₀ emission limitation specified above may be based upon the emission factor of 0.0062 lb/MMBtu multiplied by the emissions unit's maximum rated heat input capacity (1115 MMBtu/hr).

If required, the permittee shall demonstrate compliance with the allowable particulate/PM₁₀ emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

*This emissions factor was established based upon emission data from the initial compliance demonstration conducted for emissions unit B001 on May 10, 1995.

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

V. Testing Requirements (continued)

b. Emission Limitation-
15.5 TPY particulate/PM10 emissions

Applicable Compliance Method-

Compliance with the annual allowable particulate/PM10 emissions limitation may be determined as follows:

- i. When combusting number two fuel oil, multiply the lbs/hr particulate/PM10 emissions, from Section A.V.1.a. above, by the annual number of hours of operation when combusting number two fuel oil (summation of the monthly values from Section A.III.5 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 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 Section A.III.5 for the calendar year), and then divide by 2000 lbs/ton.
- iii. Add i + ii.

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

c. Emission Limitations-
113 lbs/hr NOx emissions, when firing natural gas

195 lbs/hr NOx emissions, when firing number two fuel oil

Applicable Compliance Method-

Compliance with the hourly allowable NOx emission limitations above shall be based on the use of the CEM specified in A.III.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.

If required, compliance with the allowable NOx 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)]

d. Emission Limitations-
25 ppmvd NOx emissions at 15% oxygen, at full load, when firing natural gas

42 ppmvd NOx emissions at 15% oxygen, at full load, when firing number two fuel oil

Applicable Compliance Method-

Compliance with the allowable NOx emission limitations above shall be based on the use of the CEM specified in A.III.2. and the applicable 40 CFR Part 60 and 75 requirements.

If required, compliance with the hourly allowable NOx 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)]

e. Emission Limitation-
132 TPY NOx emissions, as a rolling, 12-month period

Applicable Compliance Method-

Compliance with the annual allowable NOx emission limitation above shall be based upon the record keeping requirements established in Sections A.III.2. and A.III.5 of this permit.

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

V. Testing Requirements (continued)

f. Emission Limitation-
2000 lbs/hr CO emissions (maximum 1-hour limitation)

Applicable Compliance Method-

Compliance with the hourly allowable CO emission limitation above shall be based upon the data from the continuous CO emissions monitoring system requirement and the monitoring and record keeping requirements specified in Section A.III.3 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.

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)]

g. Emission Limitations-
1700 lbs/hr CO emissions, based on a 30-day average, when firing natural gas

350 lbs/hr CO emissions, based on a 30-day average, when firing number two fuel oil

Applicable Compliance Method-

Compliance with the hourly allowable CO emission limitations above shall be based upon the data from the continuous CO emissions monitoring system requirement and the monitoring and record keeping requirements specified in Sections A.III.3 and A.III.5 of this permit.

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

h. Emission Limitation-
160.8 TPY CO emissions, as a rolling, 12-month period (for this emissions unit)

Applicable Compliance Method-

Compliance with the annual allowable CO emission limitation above shall be based upon the use of CEM as specified in Section A.III.3 of this permit and the record keeping requirements specified in Section A.III.5 of this permit.

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

i. Emission Limitation-
160.8 TPY CO emissions from emissions units B001, B002, and B003, combined, as a rolling, 12-month period

Applicable Compliance Method-

Compliance with the annual allowable CO emission limitation above shall be based upon the use of CEM as specified in Section A.III.3 of this permit and the record keeping requirements specified in Sections A.III.5 and A.III.13 of this permit.

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

V. Testing Requirements (continued)

- j. Emission Limitation-
10.0 lbs/hr VOC emissions

Applicable Compliance Method-

When combusting natural gas, compliance with the hourly allowable VOC emission limitation shall be based on multiplying the emission factor of 0.004 lb VOC/MMBtu* by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

When combusting number 2 fuel oil, compliance with the hourly allowable VOC emission limitation shall be based on multiplying the emission factor of 0.003 lb VOC/MMBtu *by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

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.

* established based upon emission data from the initial compliance demonstration conducted for emissions unit B001 on May 10, 1995

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

- k. Emission Limitation-
15.0 TPY VOC emissions

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 Section A.III.5 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 Section A.III.5 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 i + ii

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

V. Testing Requirements (continued)

I. Emission Limitation-

0.0006 lb SO₂ emissions/MMBtu actual heat input, when firing natural gas

0.055 lb SO₂ emissions/MMBtu actual heat input, when firing number two fuel oil

Applicable Compliance Method -

When firing natural gas, compliance with the allowable SO₂ 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 SO₂ emission limitation above shall be based upon the fuel analysis and the record keeping requirements specified in Sections A.III.1, A.III.7 and A.III.8, and the use of the equations specified in OAC rule 3745-18-04(F).

If required, the permittee shall demonstrate with the allowable SO₂ 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 08-04380]

m. Emission Limitation-

30.86 TPY SO₂ emissions

Applicable Compliance Method-

Compliance with the annual allowable SO₂ emission limitation above shall be based upon the record keeping requirements established in Sections A.III.1., A.III.4 and A.III.5 of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

n. Emission Limitation-

4.20 TPY formaldehyde emissions from emissions units B001, B002, and B003 combined, as a 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 monthly amount of natural gas burned, in MMCF from Section A.III.5, and by the average heat content of natural gas, 1020 MMBtu/MMCF, and then divided by 2,000 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 monthly amount of number two fuel oil burned, in gallons from Section A.III.5, and by the average heat content of number two fuel oil, 0.139 MMBtu/gallon, and then divided by 2,000 lbs/ton.

iii. Add i + ii, and then sum the monthly formaldehyde emission rates for the calendar year.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

V. Testing Requirements (continued)

o. Emission Limitation-

Visible PE shall not exceed 10% opacity, as a 6-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 08-04380]

VI. Miscellaneous Requirements

1. The quality assurance/quality control plan for the continuous nitrogen oxides and sulfur dioxide 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 08-04380]

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Tait CT-2 (B002)

Activity 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 NOx reduction system.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
B002 - 80 MW (1115 mmBtu/hr heat input) natural gas or fuel oil fired simple cycle turbine with water injection controls, CT-2	OAC rule 3745-31-05(A)(3) PTI 08-04380	<p>Sulfur dioxide (SO₂) 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 TPY.</p> <p>Volatile organic compound (VOC) emissions from this emissions unit shall not exceed 10.0 lbs/hr and 15.0 TPY.</p> <p>Particulate/PM₁₀ 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.</p>

Facility Name: **DP&L Tait Generating Station**

Facility ID: **08-57-04-2072**

Emissions Unit: **Tait CT-2 (B002)**

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

**Applicable Rules/
Requirements**

**Applicable Emissions
Limitations/Control
Measures**

Nitrogen oxides (NOx) emissions from this emissions unit shall not exceed 113 lbs/hr and 25 ppmvd at 15% oxygen at full load during natural gas combustion; 195 lbs/hr and 42 ppmvd at 15% oxygen at full load during number two fuel oil combustion; and 132 TPY, as a rolling, 12-month period.

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 TPY as a rolling 12-month period, with the total combined CO emissions from emissions units B001, B002, and B003 not to exceed 160.8 TPY, as a rolling 12-month period.

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

See A.I.2.d.

The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 3745-31-20, 3745-23-06(B), 3745-21-08(B) and 3745-31-05(C) and 40 CFR Part 52, Section 52.21.

See Part I, term A.4.

The SO2 emissions from this emissions unit shall not exceed 30.86 tons per rolling, 12-month period.

The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to 40 CFR Part 52, Sections 52.21 and OAC rules 3745-31-05 (A)(3), and 3745-31-10 through 3745-31-20.

See Part II, Term A.1.

40 CFR Part 75

OAC rules 3745-31-10 through 3745-31-20

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

OAC rule 3745-14

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-31-05(C) (Synthetic minor to avoid MACT rule requirements)	Total combined formaldehyde emissions from emissions units B001, B002, and B003 shall not exceed 4.20 tons per rolling, 12-month period.
	OAC rule 3745-23-06(B) and OAC rule 3745-21-08(B)	See Section A.I.2.g.

2. Additional Terms and Conditions

- 2.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 NOx 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.
- 2.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.
- 2.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.
- 2.d** The minimum stack height for this emissions unit shall be at least 88 feet above the ground.
- 2.e** "Full load" shall be defined as all periods when the hourly average electrical output exceeds 72 MW.
- 2.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 NOx 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 NOx) to meet these requirements. The relative accuracy requirements of Performance Specifications 6 shall apply to the NOx and CO continuous emissions monitoring systems.
- 2.g** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively 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.

On February 15, 2005, OAC rule 3745-23-06 was rescinded; therefore, it 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 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally approved SIP for Ohio.

II. 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: PTI 08-04380 and OAC rule 3745-77-07(A)(1)]

II. Operational Restrictions (continued)

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: PTI 08-04380 and OAC rule 3745-77-07(A)(1)]

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

[Authority for term: PTI 08-04380 and OAC rule 3745-77-07(A)(1)]

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

[Authority for term: PTI 08-04380 and OAC rule 3745-77-07(A)(1)]

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: PTI 08-04380 and OAC rule 3745-77-07(A)(1)]

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

[Authority for term: PTI 08-04380 and OAC rule 3745-77-07(A)(1)]

III. Monitoring and/or Record Keeping Requirements

1. Continuous SO₂ Emissions Monitoring:

- a. The permittee shall either operate and maintain equipment to continuously monitor and record SO₂ emissions from this emissions unit (SO₂ 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 (SO₂ 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 (SO₂ 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 SO₂ monitoring system (SO₂ 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 SO₂ monitoring system (SO₂ pollutant concentration and flow monitor): emissions of SO₂ in parts per million, emissions of SO₂ 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 SO₂ monitoring system (SO₂ pollutant concentration and flow monitor) or excepted system designed to ensure continuous valid and representative readings of SO₂ emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous SO₂ monitoring system must be kept on site and available for inspection during regular office hours.

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

f. The permittee may conduct the relative accuracy test audits for the continuous SO₂ monitoring system (SO₂ 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. Whenever the monitoring system or excepted system fails to meet the quality assurance or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1), and PTI 08-04380]

2. Continuous NO_x Emissions Monitoring:

a. The permittee shall operate and maintain equipment to continuously monitor and record NO_x emissions from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the applicable requirements specified in 40 CFR Part 60 and Part 75.

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

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1), and PTI 08-04380]

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

3. Continuous CO Emissions Monitoring:

- a. The permittee shall operate and maintain equipment to continuously monitor and record CO emissions from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.
- b. Each continuous 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. 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 40 CFR Part 60. The letter of certification shall be made available to the Director upon request.
- d. 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 carbon monoxide 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 08-04380]

- 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 08-04380]

- 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 rate, in gallons.
- c. The amount of natural gas burned, in million cubic feet (MMCF).
- d. The rolling, 12-month summation of natural gas usage rate, 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 SO₂ emissions, in tons.
- h. The number of hours the emissions unit is in operation when combusting natural gas.

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

- 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 Section A.I.2.c.).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

- 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 Section A.I.2.e.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

- 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 08-04380]

- 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 SO₂ emission rate (in lb/MMBtu).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

- 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 08-04380]

- 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 08-04380]

- 11.** If the permittee uses 40 CFR Part 75 Appendix D to comply with the SO₂ 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 08-04380]

- 12.** 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 08-04380]

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

13. The permittee shall maintain monthly records of the following information for emissions units B001, B002, and B003, combined:
 - a. The formaldehyde emissions, in tons (sum the formaldehyde emissions for emissions units B001, B002, and B003).
 - b. The CO emissions, in tons (sum the CO emissions for emissions units B001, B002, and B003).
 - 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 08-04380]

IV. Reporting Requirements

1. Continuous SO₂ 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 SO₂ values in excess of the applicable emission limitations specified in the terms and conditions of this permit. These reports shall also contain the total SO₂ 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 SO₂ monitoring system downtime while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.
 - c. If there are no excess SO₂ emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

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

IV. Reporting Requirements (continued)

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 analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

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

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

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, for this emissions unit.
- g. The rolling, 12-month CO emission limitation of 160.8 tons, for emissions units B001, B002, and B003, combined.
- h. The rolling, 12-month SO₂ emission limitation of 30.86 tons, for this emissions unit.

IV. Reporting Requirements (continued)

- i. All time periods during which the duration for all start-up and/or shutdown periods did not comply with the requirements established in Section A.III.2.c of this permit.
- j. For the number two fuel oil, any exceedances of the 0.05%, by weight, sulfur content and the calculated SO₂ 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 B001, B002, and B003, combined.

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

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 and PTI 08-04380]

V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitations-
8 lbs/hr particulate/PM₁₀ emissions and 0.0072 lb/MMBtu actual heat input particulate/PM₁₀ emissions, when firing natural gas.

15 lbs/hr particulate/PM₁₀ emissions and 0.013 lb/MMBtu actual heat input particulate/PM₁₀ emissions, when firing number two fuel oil.

Applicable Compliance Method-

When combusting natural gas, compliance with the allowable lb/MMBtu particulate/PM₁₀ emission limitation above may be based on the AP-42, Table 3.1-2a (revised 4/00) emission factor of 0.0019 lb/MMBtu. Compliance with the allowable lb/hr particulate/PM₁₀ emission limitation above may be based on the AP-42, Table 3.1-2a (revised 4/00) emission factor of 0.0019 lb/MMBtu multiplied by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

When combusting number two fuel oil, compliance with the allowable lb/MMBtu particulate/PM₁₀ emission limitation specified above shall be based upon an emission factor of 0.0062 lb/MMBtu.* Compliance with the hourly allowable particulate/PM₁₀ emission limitation specified above may be based upon the emission factor of 0.0062 lb/MMBtu multiplied by the emissions unit's maximum rated heat input capacity (1115 MMBtu/hr).

If required, the permittee shall demonstrate compliance with the allowable particulate/PM₁₀ emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

*This emissions factor was established based upon emission data from the initial compliance demonstration conducted for emissions unit B001 on May 10, 1995.

[Authority for term: OAC rules 3745-17-03(B)(10), 3745-77-07(C)(1) and PTI 08-04380]

V. Testing Requirements (continued)

b. Emission Limitation-
15.5 TPY particulate/PM10 emissions

Applicable Compliance Method-

Compliance with the annual allowable particulate/PM10 emissions limitation may be determined as follows:

- i. When combusting number two fuel oil, multiply the lbs/hr particulate/PM10 emissions, from Section A.V.1.a. above, by the annual number of hours of operation when combusting number two fuel oil (summation of the monthly values from Section A.III.5 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 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 Section A.III.5 for the calendar year), and then divide by 2000 lbs/ton.
- iii. Add i + ii.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

c. Emission Limitations-
113 lbs/hr NOx emissions, when firing natural gas

195 lbs/hr NOx emissions, when firing number two fuel oil

Applicable Compliance Method-

Compliance with the hourly allowable NOx emission limitations above shall be based on the use of the CEM specified in A.III.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.

If required, compliance with the allowable NOx 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 08-04380]

d. Emission Limitations-
25 ppmvd NOx emissions at 15% oxygen, at full load, when firing natural gas

42 ppmvd NOx emissions at 15% oxygen, at full load, when firing number two fuel oil

Applicable Compliance Method-

Compliance with the allowable NOx emission limitations above shall be based on the use of the CEM specified in A.III.2. and the applicable 40 CFR Part 60 and 75 requirements.

If required, compliance with the hourly allowable NOx 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 08-04380]

e. Emission Limitation-
132 TPY NOx emissions, as a rolling, 12-month period

Applicable Compliance Method-

Compliance with the annual allowable NOx emission limitation above shall be based upon the record keeping requirements established in Sections A.III.2. and A.III.5 of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

V. Testing Requirements (continued)

f. Emission Limitation-
2000 lbs/hr CO emissions (maximum 1-hour limitation)

Applicable Compliance Method-

Compliance with the hourly allowable CO emission limitation above shall be based upon the data from the continuous CO emissions monitoring system requirement and the monitoring and record keeping requirements specified in Section A.III.3 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.

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 08-04380]

g. Emission Limitations-
1700 lbs/hr CO emissions, based on a 30-day average, when firing natural gas

350 lbs/hr CO emissions, based on a 30-day average, when firing number two fuel oil

Applicable Compliance Method-

Compliance with the hourly allowable CO emission limitations above shall be based upon the data from the continuous CO emissions monitoring system requirement and the monitoring and record keeping requirements specified in Sections A.III.3 and A.III.5 of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

h. Emission Limitation-
160.8 TPY CO emissions, as a rolling, 12-month period (for this emissions unit)

Applicable Compliance Method-

Compliance with the annual allowable CO emission limitation above shall be based upon the use of CEM as specified in Section A.III.3 of this permit and the record keeping requirements specified in Section A.III.5 of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

i. Emission Limitation-
160.8 TPY CO emissions from emissions units B001, B002, and B003, combined, as a rolling, 12-month period

Applicable Compliance Method-

Compliance with the annual allowable CO emission limitation above shall be based upon the use of CEM as specified in Section A.III.3 of this permit and the record keeping requirements specified in Sections A.III.5 and A.III.13 of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

V. Testing Requirements (continued)

- j. Emission Limitation-
10.0 lbs/hr VOC emissions

Applicable Compliance Method-

When combusting natural gas, compliance with the hourly allowable VOC emission limitation shall be based on multiplying the emission factor of 0.004 lb VOC/MMBtu* by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

When combusting number 2 fuel oil, compliance with the hourly allowable VOC emission limitation shall be based on multiplying the emission factor of 0.003 lb VOC/MMBtu *by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

* established based upon emission data from the initial compliance demonstration conducted for emissions unit B001 on May 10, 1995

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 08-04380]

- k. Emission Limitation-
15.0 TPY VOC emissions

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 Section A.III.5 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 Section A.III.5 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 i + ii

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

V. Testing Requirements (continued)

I. Emission Limitation-

0.0006 lb SO₂ emissions/MMBtu actual heat input, when firing natural gas

0.055 lb SO₂ emissions/MMBtu actual heat input, when firing number two fuel oil

Applicable Compliance Method -

When firing natural gas, compliance with the allowable SO₂ 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 SO₂ emission limitation above shall be based upon the fuel analysis and the record keeping requirements specified in Sections A.III.1, A.III.7 and A.III.8, and the use of the equations specified in OAC rule 3745-18-04(F).

If required, the permittee shall demonstrate with the allowable SO₂ 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 08-04380]

m. Emission Limitation-

30.86 TPY SO₂ emissions

Applicable Compliance Method-

Compliance with the annual allowable SO₂ emission limitation above shall be based upon the record keeping requirements established in Sections A.III.1., A.III.4 and A.III.5 of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

n. Emission Limitation-

4.20 TPY formaldehyde emissions from emissions units B001, B002, and B003 combined, as a 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 monthly amount of natural gas burned, in MMCF from Section A.III.5, and by the average heat content of natural gas, 1020 MMBtu/MMCF, and then divided by 2,000 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 monthly amount of number two fuel oil burned, in gallons from Section A.III.5, and by the average heat content of number two fuel oil, 0.139 MMBtu/gallon, and then divided by 2,000 lbs/ton.

iii. Add i + ii, and then sum the monthly formaldehyde emission rates for the calendar year.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

V. Testing Requirements (continued)

o. Emission Limitation-

Visible PE shall not exceed 10% opacity, as a 6-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 08-04380]

VI. Miscellaneous Requirements

1. The quality assurance/quality control plan for the continuous nitrogen oxides and sulfur dioxide 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 08-04380]

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Tait CT-3 (B003)

Activity 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-NOx combustor NOx reduction systems.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
B003 - 80 MW (1115 mmBtu/hr heat input) natural gas or fuel oil fired simple cycle turbine with water injection and dry low NOx (DLN) combustor controls, CT-3	OAC rule 3745-31-05(A)(3) PTI 08-04380	<p>Sulfur dioxide (SO₂) 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 TPY.</p> <p>Volatile organic compound (VOC) emissions from this emissions unit shall not exceed 10.0 lbs/hr and 15.0 TPY.</p> <p>Particulate/PM₁₀ 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.</p>

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
		<p>Nitrogen oxides (NOx) emissions from this emissions unit shall not exceed 62 lbs/hr and 15 ppmvd at 15% oxygen at full load during natural gas combustion; 195 lbs/hr and 42 ppmvd at 15% oxygen at full load during number two fuel oil combustion; and 110 TPY, as a rolling, 12-month period.</p> <p>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.</p> <p>CO emissions from this emissions unit shall not exceed 160.8 TPY, as a rolling 12-month limit, including periods of start-up and shutdown, with the total combined CO emissions from emissions units B001, B002, and B003 not to exceed 160.8 TPY, as a rolling 12-month period, including periods of start-up and shutdown.</p> <p>Visible particulate emissions (PE) shall not exceed 10% opacity, as a six-minute average, except for cold start-up and shutdown periods.</p> <p>See A.I.2.d.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-10 through 3745-31-20, 3745-23-06(B), 3745-21-08(B) and 3745-31-05(C) and 40 CFR Part 52, Section 52.21.</p> <p>See Part I, Term A.4.</p> <p>SO2 emissions from this emissions unit shall not exceed 30.86 tons per rolling, 12-month period.</p> <p>The emission limitations specified by these rules are less stringent than the emission limitations established pursuant to 40 CFR Part 52, Sections 52.21 and OAC rules 3745-31-05 (A)(3), and 3745-31-10 through 3745-31-20.</p>
	40 CFR Part 75	
	OAC rules 3745-31-10 through 3745-31-20	
	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	

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-14	See Part II, Term A.1.
	OAC rule 3745-31-05(C) (Synthetic minor to avoid MACT rule requirements)	Total combined formaldehyde emissions from emissions units B001, B002, and B003 shall not exceed 4.20 tons per rolling, 12-month period.
	OAC rule 3745-23-06(B) and OAC rule 3745-21-08(B)	See Section A.I.2.g.

2. Additional Terms and Conditions

- 2.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 NOx (DLN) combustion technology to reduce NOx emissions to 15 ppmvd at 15% oxygen, at full load, when burning natural gas, and shall use water injection to reduce NOx emissions to 42 ppmvd at 15% oxygen, at full load, when burning number two fuel oil.
- 2.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.
- 2.c** "Start-up" shall be defined as the time necessary to bring a turbine on line from a no load condition to dry low NOx 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.
- 2.d** The minimum stack height for this emissions unit shall be at least 88 feet above the ground.
- 2.e** "Full load" shall be defined as all periods when the hourly average electrical output exceeds 72 MW.
- 2.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 NOx 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 NOx) to meet these requirements. The relative accuracy requirements of Performance Specifications 6 shall apply to the NOx and CO continuous emissions monitoring systems.
- 2.g** The permittee has satisfied the "best available control techniques and operating practices" and "latest available control techniques and operating practices" required pursuant to OAC rules 3745-21-08 and 3745-23-06, respectively 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.

On February 15, 2005, OAC rule 3745-23-06 was rescinded; therefore, it 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 3745-23-06, the requirement to satisfy the "latest available control techniques and operating practices" still exists as part of the federally approved SIP for Ohio.

II. 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: PTI 08-04380, OAC rule 3745-77-07(A)(1), and PTI 08-04380]
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: PTI 08-04380, OAC rule 3745-77-07(A)(1), and PTI 08-04380]
3. The maximum number two fuel oil usage in this emissions unit shall not exceed 8,580,000 gallons, per rolling, 12-month period.
[Authority for term: PTI 08-04380, OAC rule 3745-77-07(A)(1), and PTI 08-04380]
4. The maximum natural gas usage in this emissions unit shall not exceed 2,580,000,000 cubic feet, per rolling, 12-month period.
[Authority for term: PTI 08-04380, OAC rule 3745-77-07(A)(1), and PTI 08-04380]
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: PTI 08-04380, OAC rule 3745-77-07(A)(1), and PTI 08-04380]
6. The permittee shall burn only pipeline quality natural gas or number two fuel oil in this emissions unit.
[Authority for term: PTI 08-04380, OAC rule 3745-77-07(A)(1), and PTI 08-04380]

III. Monitoring and/or Record Keeping Requirements

1. Continuous SO₂ Emissions Monitoring:
 - a. The permittee shall either operate and maintain equipment to continuously monitor and record SO₂ emissions from this emissions unit (SO₂ 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 (SO₂ 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 (SO₂ 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 SO₂ monitoring system (SO₂ 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.

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

- d. If used, the permittee shall maintain records of the following data obtained by the continuous SO₂ monitoring system (SO₂ pollutant concentration and flow monitor): emissions of SO₂ in parts per million, emissions of SO₂ 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 SO₂ monitoring system (SO₂ pollutant concentration and flow monitor) or excepted system designed to ensure continuous valid and representative readings of SO₂ emissions in units of the applicable standard(s). The plan shall follow the applicable requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook documenting the activities related to the continuous SO₂ monitoring system must be kept on site and available for inspection during regular office hours.
- f. The permittee may conduct the relative accuracy test audits for the continuous SO₂ monitoring system (SO₂ 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. Whenever the monitoring system or excepted system fails to meet the quality assurance or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1), and PTI 08-04380]

2. Continuous NO_x Emissions Monitoring:

- a. The permittee shall operate and maintain equipment to continuously monitor and record NO_x emissions from this emissions unit in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the applicable requirements specified in 40 CFR Part 60 and Part 75.
- b. Each continuous 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. 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. 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.

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

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

[Authority for term: 40 CFR Part 75, OAC rule 3745-77-07(C)(1), and PTI 08-04380]

3. Continuous CO Emissions Monitoring:

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

b. Each continuous 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. 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 40 CFR Part 60. The letter of certification shall be made available to the Director upon request.

d. 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 carbon monoxide 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 08-04380]

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 08-04380]

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

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 rate, in gallons.
 - c. The amount of natural gas burned, in million cubic feet (MMCF).
 - d. The rolling, 12-month summation of natural gas usage rate, in MMCF.
 - e. The rolling, 12-month summation of NOx emissions, in tons.
 - f. The rolling, 12-month summation of CO emissions, in tons.
 - g. The rolling, 12-month summation of SO2 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 Section A.I.2.c.)

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

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 Section A.I.2.e.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

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 08-04380]

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 SO2 emission rate (in lb/MMBtu).

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

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 08-04380]

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 08-04380]

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

11. If the permittee uses 40 CFR Part 75 Appendix D to comply with the SO₂ 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 08-04380]

12. 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 08-04380]

13. The permittee shall maintain monthly records of the following information for emissions units B001, B002, and B003, combined:
- The formaldehyde emissions, in tons (sum the formaldehyde emissions for emissions units B001, B002, and B003).
 - The CO emissions, in tons (sum the CO emissions for emissions units B001, B002, and B003).
 - The rolling, 12-month summation of formaldehyde emissions, in tons.
 - The rolling, 12-month summation of CO emissions, in tons.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

IV. Reporting Requirements

1. Continuous SO₂ Emissions Reporting:

- 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 SO₂ values in excess of the applicable emission limitations specified in the terms and conditions of this permit. These reports shall also contain the total SO₂ emissions for the calendar quarter (in tons).
- 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 SO₂ monitoring system downtime while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.
- If there are no excess SO₂ emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

IV. Reporting Requirements (continued)

2. Continuous NOx 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 NOx values in excess of the applicable emission limitations specified in the terms and conditions of this permit. These reports shall also contain the total NOx 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 NOx monitoring system downtime while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall also be included in the quarterly report.
- c. If there are no excess NOx emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

IV. Reporting Requirements (continued)

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, for this emissions unit.
 - e. The rolling, 12-month CO emission limitation of 160.8 tons, for emissions units B001, B002, and B003, combined.
 - f. The rolling, 12-month SO₂ 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 Section A.III.2.c of this permit.
 - h. For the number 2 fuel oil, any exceedances of the 0.05%, by weight, sulfur content and the calculated SO₂ 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 B001, B002, and B003, combined.

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

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 08-04380]

V. Testing Requirements

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

- a. Emission Limitations-

- a. 8 lbs/hr particulate/PM10 emissions and 0.0072 lb/MMBtu actual heat input particulate/PM10 emissions, when firing natural gas.

- a. 15 lbs/hr particulate/PM10 emissions and 0.013 lb/MMBtu actual heat input particulate/PM10 emissions, when firing number two fuel oil.

- a. Applicable Compliance Method-

- a. When combusting natural gas, compliance with the allowable lb/MMBtu particulate/PM10 emission limitation above may be based on the AP-42, Table 3.1-2a (revised 4/00) emission factor of 0.0019 lb/MMBtu. Compliance with the allowable lb/hr particulate/PM10 emission limitation above may be based on the AP-42, Table 3.1-2a (revised 4/00) emission factor of 0.0019 lb/MMBtu multiplied by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

- a. When combusting number two fuel oil, compliance with the allowable lb/MMBtu particulate/PM10 emission limitation specified above shall be based upon an emission factor of 0.0062 lb/MMBtu.* Compliance with the hourly allowable particulate/PM10 emission limitation specified above may be based upon the emission factor of 0.0062 lb/MMBtu multiplied by the emissions unit's maximum rated heat input capacity (1115 MMBtu/hr).

- a. If required, the permittee shall demonstrate compliance with the allowable particulate/PM10 emission limitations through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

- a. *This emissions factor was established based upon emission data from the initial compliance demonstration conducted for emissions unit B001 on May 10, 1995.

- a. [Authority for term: OAC rules 3745-17-03(B)(10) and 3745-77-07(C)(1), and PTI 08-04380]

- b. Emission Limitation-

- b. 15.5 TPY particulate/PM10 emissions

- b. Applicable Compliance Method-

- b. Compliance with the annual allowable particulate/PM10 emissions limitation may be determined as follows:

- i. When combusting number two fuel oil, multiply the lbs/hr particulate/PM10 emissions, from Section A.V.1.a. above, by the annual number of hours of operation when combusting number two fuel oil (summation of the monthly values from Section A.III.5 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 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 Section A.III.5 for the calendar year), and then divide by 2000 lbs/ton.

- iii. Add i + ii.

- b. [Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

V. Testing Requirements (continued)

c. Emission Limitations-
62 lbs/hr NOx emissions, when firing natural gas

195 lbs/hr NOx emissions, when firing number two fuel oil

Applicable Compliance Method-

Compliance with the hourly allowable NOx emission limitations above shall be based on the use of the CEM specified in A.III.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.

If required, compliance with the allowable NOx 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 08-04380]

d. Emission Limitations-
15 ppmvd NOx emissions at 15% oxygen, at full load, when firing natural gas

42 ppmvd NOx emissions at 15% oxygen, at full load, when firing number two fuel oil

Applicable Compliance Method-

Compliance with the allowable NOx emission limitations above shall be based on the use of the CEM specified in A.III.2. and the applicable 40 CFR Part 60 and 75 requirements.

If required, compliance with the hourly allowable NOx 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 08-04380]

e. Emission Limitation-
110 TPY NOx emissions, as a rolling, 12-month period

Applicable Compliance Method-

Compliance with the annual allowable NOx emission limitation above shall be based upon the record keeping requirements established in Sections A.III.2. and A.III.5 of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

V. Testing Requirements (continued)

f. Emission Limitations-

301 lbs/hr CO emissions at all operating loads, excluding start-up and shutdown periods when firing natural gas

413 lbs/hr CO emissions during start-up and shutdown periods, when firing natural gas

800 lbs/hr CO emissions, when firing number two fuel oil.

Applicable Compliance Method-

Compliance with the hourly allowable CO emission limitations above shall be based upon the data from the continuous CO emissions monitoring system requirement and the monitoring and record keeping requirements specified in Sections A.III.3 and A.III.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.

If required, the permittee shall demonstrate compliance with the hourly allowable CO emission limitations 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 08-04380]

g. Emission Limitation-

160.8 TPY CO emissions, as a rolling, 12-month period (for this emissions unit)

Applicable Compliance Method-

Compliance with the annual allowable CO emission limitation above shall be based upon the use of CEM as specified in Section A.III.3 of this permit and the record keeping requirements specified in Section A.III.5 of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

h. Emission Limitation-

160.8 TPY CO emissions from emissions units B001, B002, and B003, combined, as a rolling, 12-month period

Applicable Compliance Method-

Compliance with the annual allowable CO emission limitation above shall be based upon the use of CEM as specified in Section A.III.3 of this permit and the record keeping requirements specified in Sections A.III.5 and A.III.13 of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

V. Testing Requirements (continued)

- i. Emission Limitation-
10.0 lbs/hr VOC emissions

Applicable Compliance Method-

When combusting natural gas, compliance with the hourly allowable VOC emission limitation shall be based on multiplying the emission factor of 0.004 lb VOC/MMBtu* by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

When combusting number 2 fuel oil, compliance with the hourly allowable VOC emission limitation shall be based on multiplying the emission factor of 0.003 lb VOC/MMBtu *by the maximum rated heat input capacity of the emissions unit (1115 MMBtu/hr).

* established based upon emission data from the initial compliance demonstration conducted for emissions unit B001 on May 10, 1995

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 08-04380]

- j. Emission Limitation-
15.0 TPY VOC emissions

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 Section A.III.5 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 Section A.III.5 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 i + ii

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

V. Testing Requirements (continued)

- k. Emission Limitation-
0.0006 lb SO₂ emissions/MMBtu actual heat input, when firing natural gas
0.055 lb SO₂ emissions/MMBtu actual heat input, when firing number two fuel oil

Applicable Compliance Method -

When firing natural gas, compliance with the allowable SO₂ 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 SO₂ emission limitation above shall be based upon the fuel analysis and the record keeping requirements specified in Sections A.III.1, A.III.7 and A.III.8, and the use of the equations specified in OAC rule 3745-18-04(F).

If required, the permittee shall demonstrate with the allowable SO₂ 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 08-04380]

- l. Emission Limitation-
30.86 TPY SO₂ emissions

Applicable Compliance Method-

Compliance with the annual allowable SO₂ emission limitation above shall be based upon the record keeping requirements established in Sections A.III.1., A.III.4 and A.III.5 of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

- m. Emission Limitation-
4.20 TPY formaldehyde emissions from emissions units B001, B002, and B003 combined, as a 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 monthly amount of natural gas burned, in MMCF from Section A.III.5, and by the average heat content of natural gas, 1020 MMBtu/MMCF, and then divided by 2,000 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 monthly amount of number two fuel oil burned, in gallons from Section A.III.5, and by the average heat content of number two fuel oil, 0.139 MMBtu/gallon, and then divided by 2,000 lbs/ton.
- iii. Add i + ii, and then sum the monthly formaldehyde emission rates for the calendar year.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-04380]

V. Testing Requirements (continued)

n. Emission Limitation-

Visible PE shall not exceed 10% opacity, as a 6-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 08-04380]

VI. Miscellaneous Requirements

1. The quality assurance/quality control plan for the continuous nitrogen oxides and sulfur dioxide 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 08-04380]

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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