



State of Ohio Environmental Protection Agency

Street Address:

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:  
Lazarus Gov.  
Center

**RE: DRAFT PERMIT TO INSTALL MODIFICATION  
MIAMI COUNTY  
Application No: 08-03566  
Fac ID: 0855100041**

**CERTIFIED MAIL**

**DATE: 6/26/2007**

Piqua Municipal Power Plant  
Roger Wehrman  
919 South Main Street  
Piqua, OH 45356

You are hereby notified that the Ohio Environmental Protection Agency has made a draft action recommending that the Director issue a Permit to Install modification for the air contaminant source(s) [emissions unit(s)] shown on the enclosed draft permit modification. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the facility will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper. Any comments you have on the draft permit modification should be directed to the appropriate field office within the comment period. A copy of your comments should also be mailed to Robert Hodanbosi, Division of Air Pollution Control, Ohio EPA, P.O. Box 1049, Columbus, OH, 43266-0149.

A Permit to Install modification may be issued in proposed or final form based on the draft action, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting. Upon issuance of a final Permit to Install modification a fee of \$ 0 will be due. Please do not submit any payment now.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469. If you have any questions about this draft permit, please contact the field office where you submitted your application, or Mike Ahern, Permit Issuance and Data Management Section at (614) 644-3631.

Sincerely,

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

CC: USEPA

RAPCA

Miami Valley Regional Planning Commission

IN

**MIAMI COUNTY**

**PUBLIC NOTICE**  
**ISSUANCE OF DRAFT PERMIT TO INSTALL 08-03566 FOR AN AIR CONTAMINANT SOURCE**  
**FOR Piqua Municipal Power Plant**

On 6/26/2007 the Director of the Ohio Environmental Protection Agency issued a draft action of a Permit To Install an air contaminant source for **Piqua Municipal Power Plant**, located at **919 S. Main St., Piqua**, Ohio.

Installation of the air contaminant source identified below may proceed upon final issuance of Permit To Install 08-03566:

**administrative modification to revise emission limits of four natural gas and oil fired boilers.**

Comments concerning this draft action, or a request for a public meeting, must be sent in writing to the address identified below no later than thirty (30) days from the date this notice is published. All inquiries concerning this draft action may be directed to the contact identified below.

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



**Permit To Install  
Terms and Conditions**

**Issue Date: To be entered upon final issuance  
Effective Date: To be entered upon final issuance**

**DRAFT MODIFICATION OF PERMIT TO INSTALL 08-03566**

Application Number: 08-03566  
Facility ID: 0855100041  
Permit Fee: **To be entered upon final issuance**  
Name of Facility: Piqua Municipal Power Plant  
Person to Contact: Roger Wehrman  
Address: 919 South Main Street  
Piqua, OH 45356

Location of proposed air contaminant source(s) [emissions unit(s)]:

**919 S. Main St.  
Piqua, Ohio**

Description of proposed emissions unit(s):

**Administrative modification to revise emission limits of four natural gas and oil fired boilers.**

The above named entity is hereby granted a modification to the permit to install described above pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this modification does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans included in the application, the above described source(s) of pollutants will be granted the necessary operating permits.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

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Chris Korleski  
Director

Piqua Municipal Power Plant

Facility ID: 0855100041

PTI Application: 08-03566

Issued: To be entered upon final issuance

## Part I - GENERAL TERMS AND CONDITIONS

### A. State and Federally Enforceable Permit-To-Install General Terms and Conditions

#### 1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, 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.
- 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, 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written

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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. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
  - iv. If this permit is for an emissions unit located at a Title V facility, then 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 are true, accurate, and complete.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## **2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

## **3. Risk Management Plans**

If the permittee is required to 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"), the

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permittee shall comply with the requirement to register such a plan.

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**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.

**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.

**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 re-issuance, or modification
- 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, revoked, or revoked and reissued, for cause. 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 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

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permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

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**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. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

**8. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any 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 and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

**9. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this 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 ORC section 3704.08.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.

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- 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.

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- 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.

#### **10. Permit-To-Operate Application**

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. Permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within ninety (90) days after commencing operation of the source(s) covered by this permit.

#### **11. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

#### **12. Air Pollution Nuisance**

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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.

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### **13. Permit-To-Install**

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

## **B. State Only Enforceable Permit-To-Install General Terms and Conditions**

### **1. Compliance Requirements**

The emissions unit(s) identified in this Permit shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

### **2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable 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 (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) 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. 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.)

### **3. 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.

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**4. Authorization To Install or Modify**

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**5. Construction of New Sources(s)**

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.

**6. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**7. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit To Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**8. Construction Compliance Certification**

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If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) that the facility has been constructed in accordance with the permit-to-install application and the terms and conditions of the permit-to-install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**9. 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 deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly (i.e., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

**C. Permit-To-Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

SUMMARY (for informational purposes only)  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons Per Year</u>
Particulate	7.7
NO <sub>x</sub>	50.4
SO <sub>2</sub>	19.3
CO	30.4
OC	4.0

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**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

**A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment -(B008) - 12.553 mmBtu/hr (300 hp) natural gas and No. 2 oil fired boiler**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
-------------------------------	---------------------------------------------------

Emissions Unit ID: B008

<p>OAC rule 3745-31-05(C) (Netting to avoid PSD)</p>	<p>Nitrogen oxides (NO<sub>x</sub>) emissions from this emissions unit shall not exceed 0.13 lb/mmBtu of actual heat input while combusting natural gas and 0.14 lb/mmBtu of actual heat input while combusting No. 2 fuel oil.</p> <p>NO<sub>x</sub> emissions from emissions units B008, B009, B010 and B011 shall not exceed 50.4 tons per rolling 12-month period.</p> <p>Sulfur dioxide (SO<sub>2</sub>) emissions from emissions units B008, B009, B010 and B011 shall not exceed 19.3 tons per rolling 12-month period.</p> <p>Organic compound (OC) emissions from this emissions unit shall not exceed 0.14 lb/hr.</p> <p>OC emissions from emissions units B008, B009, B010 and B011 shall not exceed 4.0 tons per rolling 12-month period.</p> <p>Carbon monoxide (CO) emissions from this emissions unit shall not exceed 1.05 lbs/hr.</p> <p>CO emissions from emissions units B008, B009, B010 and B011 shall not exceed 30.4 tons per rolling 12-month period.</p> <p>Particulate emissions (PE) from emissions units B008, B009, B010 and B011 shall not exceed 7.7 tons per rolling 12-month period.</p> <p>Visible PE from any stack shall not exceed 5% opacity as a six-minute average.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B)(1) 40 CFR Part 60, Subpart Dc.</p>
<p>OAC rule 3745-17-07(A) OAC rule 3745-18-06(D)</p>	<p>The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).</p>
<p>OAC rule 3745-17-10(B)(1)</p>	<p>PE from this emissions unit shall not exceed 0.020 lb/mmBtu of actual heat input.</p>
<p>OAC rule 3745-21-08(B)</p>	<p>See Section A.I.2.b below.</p>
<p>40 CFR Part 60, Subpart Dc</p>	<p>SO<sub>2</sub> emissions from this emissions unit shall not exceed 0.50 lb/mmBtu of actual heat input.</p>

**2. Additional Terms and Conditions**

**2.a** The 1.05 lbs CO/hour and 0.14 lb OC/hour emissions limitations were

Emissions Unit ID: B008

established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with these emissions limitations.

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

## II. Operational Restrictions

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
2. The annual natural gas usage for emissions units B008, B009, B010 and B011 shall not exceed 693 million cubic feet (mmcf) based upon a rolling, 12-month summation of the natural gas usage rates.
3. The annual No. 2 fuel oil usage for emissions units B008, B009, B010 and B011 shall not exceed 536,462 gallons based upon a rolling, 12-month summation of the No. 2 fuel oil usage rates.
4. The annual coal usage for emissions unit B003 shall not exceed 51,751 tons based upon a rolling, 12-month summation of the coal usage rates.
5. NO<sub>x</sub> emissions from emissions unit B003 shall not exceed 311.9 tons per rolling 12-month period.
6. NO<sub>x</sub> emissions from emissions units B001, B002, B003, B007, B008, B009, B010 and B011 shall not exceed 561.98 tons per rolling 12-month period.
7. The quality of oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable SO<sub>2</sub> emissions limitation specified in Section A.I.1 above.

## III. Monitoring and/or Recordkeeping Requirements

1. The permittee shall maintain monthly records of the following information for emissions units B008, B009, B010 and B011:

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- a. The total combined quantity of natural gas burned, in mmcf.
  - b. The total combined quantity of No. 2 fuel oil burned, in gallons.
  - c. The rolling, 12-month summation of natural gas usage, in mmcf.
  - d. The rolling, 12-month summation of the No. 2 fuel oil usage, in gallons.
  - e. The monthly PE, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions rates, in tons.
  - f. The rolling, 12-month summation of the PE, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions rates, in tons.
2. The permittee shall maintain monthly records of the following information for emissions unit B003:
    - a. The quantity of coal burned, in tons.
    - b. The rolling, 12-month summation of coal usage, in tons.
    - c. The monthly NO<sub>x</sub> emissions rate, in tons.
    - d. The rolling, 12-month summation of the NO<sub>x</sub> emissions rate, in tons.
3. The permittee shall maintain monthly records of the following information for emissions units B001, B002, B003, B007, B008, B009, B010 and B011:
    - a. The monthly NO<sub>x</sub> emissions rate, in tons.
    - b. The rolling, 12-month summation of the NO<sub>x</sub> emissions rate, in tons.
4. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.
    - a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur

Emissions Unit ID: B008

dioxide emission rate (in lbs/mmBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

b. Alternative 2:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the director.

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

#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the following:
- a. The rolling, 12-month natural gas usage limitation for emissions units B008, B009, B010 and B011.
  - b. The rolling, 12-month No. 2 fuel oil usage limitation for emissions units B008, B009, B010 and B011.

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- c. The rolling, 12-month PE, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions limitations for emissions units B008, B009, B010 and B011.
- d. The rolling, 12-month coal usage limitation for emissions unit B003.
- e. The rolling, 12-month NO<sub>x</sub> emissions limitation for emissions unit B003.
- f. The rolling, 12-month NO<sub>x</sub> emissions limitation for emissions units B001, B002, B003, B007, B008, B009, B010 and B011.

The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

2. The permittee shall notify the director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III of this permit. The notification shall include a copy of such record and shall be sent to the director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

**V. Testing Requirements**

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation -  
NO<sub>x</sub> emissions from this emissions unit shall not exceed 0.13 lb NO<sub>x</sub>/mmBtu of actual heat input while combusting natural gas.  
  
Applicable Compliance Method -  
The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 7.
  - b. Emission Limitation -  
NO<sub>x</sub> emissions from this emissions unit shall not exceed 0.14 lb NO<sub>x</sub>/mmBtu of actual heat input while combusting No. 2 fuel oil.

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Emissions Unit ID: B008

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Applicable Compliance Method -

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 7.

c. Emission Limitation -

NO<sub>x</sub> emissions from emissions units B008, B009, B010 and B011 shall not exceed 50.4 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 0.13 lb NO<sub>x</sub>/mmBtu, by 1000 mmBtu/mmcf and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 0.14 lb NO<sub>x</sub>/mmBtu, by 1000 mmBtu/mmcf and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month NO<sub>x</sub> emission rate shall be the sum of i and ii above for the rolling, 12-month period.

d. Emission Limitation -

SO<sub>2</sub> emissions from this emissions unit shall not exceed 0.50 lb/mmBtu of actual heat input.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by dividing the emission factor 0.6 lb SO<sub>2</sub>/mmcf (AP-42, Table 1.4-2, 7/98) by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation shall be determined by the monitoring and record keeping requirements specified in A.III.4 of this permit.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 6.

e. Emission Limitation -

SO<sub>2</sub> emissions from emissions units B008, B009, B010 and B011 shall not exceed 19.3 tons per rolling 12-month period.

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Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 0.6 lb SO<sub>2</sub>/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor determined by the monitoring and record keeping requirements specified in A.III.4 of this permit and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month SO<sub>2</sub> emission rate shall be the sum of i and ii above for the rolling, 12-month period.

f. Emission Limitation -

OC emissions from this emissions unit shall not exceed 0.14 lb/hr.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (12.553 mmBtu/hr) by the emission factor 11 lbs OC/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (12.553 mmBtu/hr) by the emission factor 0.556 lb OC/1000 gal (AP-42, Table 1.3-3, 9/98) and dividing by 140 mmBtu/1000 gal.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Methods 18, 25 or 25A, as appropriate.

g. Emission Limitation -

OC emissions from emissions units B008, B009, B010 and B011 shall not exceed 4.0 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 11

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lbs OC/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 2000 lbs/ton.

- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 0.556 lb OC/1000 gal (AP-42, Table 1.3-3, 9/98) and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month OC emission rate shall be the sum of i and ii above for the rolling, 12-month period.

h. Emission Limitation -

CO emissions from this emissions unit shall not exceed 1.05 lbs/hr.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (12.553 mmBtu/hr) by the emission factor 84 lbs CO/mmcf (AP-42, Table 1.4-1, 7/98) and dividing by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (12.553 mmBtu/hr) by the emission factor 5 lbs CO/1000 gal (AP-42, Table 1.3-1, 9/98) and dividing by 140 mmBtu/1000 gal.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 10.

i. Emission Limitation -

CO emissions from emissions units B008, B009, B010 and B011 shall not exceed 30.4 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 84 lbs CO/mmcf (AP-42, Table 1.4-1, 7/98) and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 5 lbs CO/1000 gal (AP-42, Table 1.3-1, 9/98) and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month CO emission rate shall be the sum of i and ii above

for the rolling, 12-month period.

j. Emission Limitation -

PE from this emissions unit shall not exceed 0.020 lb/mmBtu of actual heat input.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by dividing the emission factor 7.6 lbs PE/mmcf (AP-42, Table 1.4-2, 7/98) by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation may be determined by dividing the emission factor 2 lbs PE/1000 gal (AP-42, Table 1.3-1, 9/98) by 140 mmBtu/1000 gal.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 5.

k. Emission Limitation -

PE from emissions units B008, B009, B010 and B011 shall not exceed 7.7 tons per rolling 12-month period.

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Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 7.6 lbs PE/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 2 lbs PE/1000 gal (AP-42, Table 1.3-1, 9/98) and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month PE rate shall be the sum of i and ii above for the rolling, 12-month period.

I. Emission Limitation -

Visible PE from any stack shall not exceed 5% opacity as a six-minute average.

Applicable Compliance Method -

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

m. Emission Limitation -

NO<sub>x</sub> emissions from emissions unit B003 shall not exceed 311.9 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.2 and shall be determined by:

- i. multiplying the coal usage for the month by the emission factor obtained from the latest stack test (0.11 lb NO<sub>x</sub>/mmBtu from 7/22/93 stack test), by the heat content of the coal (25 mmBtu/ton coal) and dividing by 2000 lbs/ton.
- ii. the rolling, 12-month NO<sub>x</sub> rate shall be the sum of i above for the rolling, 12-month period.

n. Emission Limitation -

NO<sub>x</sub> emissions from emissions units B001, B002, B003, B007, B008, B009, B010 and B011 shall not exceed 561.98 tons per rolling 12-month period.

Emissions Unit ID: B008

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1, A.III.2 and A.III.3 and shall be determined by:

- i. for B001, multiplying the coal usage for the month by the emission factor obtained from the latest stack test (0.06 lb NO<sub>x</sub>/mmBtu from 2/23/95 stack test), by the heat content of the coal (25 mmBtu/ton coal) and dividing by 2000 lbs/ton.
- ii. for B002, multiplying the coal usage for the month by the emission factor obtained from the latest stack test (0.32 lb NO<sub>x</sub>/mmBtu from 11/29/84 stack test), by the heat content of the coal (25 mmBtu/ton coal) and dividing by 2000 lbs/ton.
- iii. for B007, multiplying the No. 2 fuel oil usage for the month by the emission factor 0.88 lb NO<sub>x</sub>/mmBtu (AP-42, Table 3.1-1, 4/00), by 140 mmBtu/1000 gal and dividing by 2000 lbs/ton.
- iv. the rolling, 12-month NO<sub>x</sub> rate shall be the sum of c.i, c.ii, m.i, n.i, n.ii, and n.iii above for the rolling, 12-month period.

**VI. Miscellaneous Requirements**

1. The permittee is accepting an operational limitation on emissions unit B003 in order to offset 11.0 TPY of NO<sub>x</sub> emissions from the proposed new source installations (see A.II.4 and A.II.5).

In conjunction with the operational restriction on emissions unit B003, the permittee is also accepting a facility-wide NO<sub>x</sub> emission limitation (see A.II.6).

As a result, the overall emission increase of NO<sub>x</sub> emissions at the facility is calculated to be 39.4 TPY.

This modification is therefore a minor modification and not subject to federal Prevention of Significant Deterioration (PSD) rules.

2. This is an administrative modification to PTI 08-03566 issued March 12, 1997 and represents a 2.42 TPY increase of CO emissions and 0.27 TPY increase of OC emissions.

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**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment - (B008) - 12.553 mmBtu/hr (300 hp) natural gas and No. 2 oil fired boiler**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment -(B009) - 25.106 mmBtu/hr (600 hp) natural gas and No. 2 oil fired boiler**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
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<p>OAC rule 3745-31-05(C) (Netting to avoid PSD)</p>	<p>Nitrogen oxides (NO<sub>x</sub>) emissions from this emissions unit shall not exceed 0.13 lb/mmBtu of actual heat input while combusting natural gas and 0.14 lb/mmBtu of actual heat input while combusting No. 2 fuel oil.</p> <p>NO<sub>x</sub> emissions from emissions units B008, B009, B010 and B011 shall not exceed 50.4 tons per rolling 12-month period.</p> <p>Sulfur dioxide (SO<sub>2</sub>) emissions from emissions units B008, B009, B010 and B011 shall not exceed 19.3 tons per rolling 12-month period.</p> <p>Organic compound (OC) emissions from this emissions unit shall not exceed 0.28 lb/hr.</p> <p>OC emissions from emissions units B008, B009, B010 and B011 shall not exceed 4.0 tons per rolling 12-month period.</p> <p>Carbon monoxide (CO) emissions from this emissions unit shall not exceed 2.11 lbs/hr.</p> <p>CO emissions from emissions units B008, B009, B010 and B011 shall not exceed 30.4 tons per rolling 12-month period.</p> <p>Particulate emissions (PE) from emissions units B008, B009, B010 and B011 shall not exceed 7.7 tons per rolling 12-month period.</p> <p>Visible PE from any stack shall not exceed 5% opacity as a six-minute average.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B)(1) 40 CFR Part 60, Subpart Dc.</p>
<p>OAC rule 3745-17-07(A) OAC rule 3745-18-06(D)</p>	<p>The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).</p>
<p>OAC rule 3745-17-10(B)(1)</p>	<p>PE from this emissions unit shall not exceed 0.020 lb/mmBtu of actual heat input.</p>
<p>OAC rule 3745-21-08(B)</p>	<p>See Section A.1.2.b below.</p>

40 CFR Part 60, Subpart Dc

SO<sub>2</sub> emissions from this emissions unit shall not exceed 0.50 lb/mmBtu of actual heat input.

## 2. Additional Terms and Conditions

- 2.a** The 2.11 lbs CO/hour and 0.28 lb OC/hour emissions limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with these emissions limitations.
- 2.b** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in 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.

## II. Operational Restrictions

1. The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
2. The annual natural gas usage for emissions units B008, B009, B010 and B011 shall not exceed 693 million cubic feet (mmcf) based upon a rolling, 12-month summation of the natural gas usage rates.
3. The annual No. 2 fuel oil usage for emissions units B008, B009, B010 and B011 shall not exceed 536,462 gallons based upon a rolling, 12-month summation of the No. 2 fuel oil usage rates.
4. The annual coal usage for emissions unit B003 shall not exceed 51,751 tons based upon a rolling, 12-month summation of the coal usage rates.
5. NO<sub>x</sub> emissions from emissions unit B003 shall not exceed 311.9 tons per rolling 12-month period.
6. NO<sub>x</sub> emissions from emissions units B001, B002, B003, B007, B008, B009, B010 and B011 shall not exceed 561.98 tons per rolling 12-month period.
7. The quality of oil burned in this emissions unit shall meet a sulfur content that is

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sufficient to comply with the allowable SO<sub>2</sub> emissions limitation specified in Section A.I.1 above.

**III. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information for emissions units B008, B009, B010 and B011:
  - a. The total combined quantity of natural gas burned, in mmcf.
  - b. The total combined quantity of No. 2 fuel oil burned, in gallons.
  - c. The rolling, 12-month summation of natural gas usage, in mmcf.
  - d. The rolling, 12-month summation of the No. 2 fuel oil usage, in gallons.
  - e. The monthly PE, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions rates, in tons.
  - f. The rolling, 12-month summation of the PE, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions rates, in tons.
2. The permittee shall maintain monthly records of the following information for emissions unit B003:
  - a. The quantity of coal burned, in tons.
  - b. The rolling, 12-month summation of coal usage, in tons.
  - c. The monthly NO<sub>x</sub> emissions rate, in tons.
  - d. The rolling, 12-month summation of the NO<sub>x</sub> emissions rate, in tons.
3. The permittee shall maintain monthly records of the following information for emissions units B001, B002, B003, B007, B008, B009, B010 and B011:
  - a. The monthly NO<sub>x</sub> emissions rate, in tons.
  - b. The rolling, 12-month summation of the NO<sub>x</sub> emissions rate, in tons.
4. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

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

b. Alternative 2:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the director.

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

#### IV. Reporting Requirements

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

Emissions Unit ID: B009

- a. The rolling, 12-month natural gas usage limitation for emissions units B008, B009, B010 and B011.
- b. The rolling, 12-month No. 2 fuel oil usage limitation for emissions units B008, B009, B010 and B011.
- c. The rolling, 12-month PE, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions limitations for emissions units B008, B009, B010 and B011.
- d. The rolling, 12-month coal usage limitation for emissions unit B003.
- e. The rolling, 12-month NO<sub>x</sub> emissions limitation for emissions unit B003.
- f. The rolling, 12-month NO<sub>x</sub> emissions limitation for emissions units B001, B002, B003, B007, B008, B009, B010 and B011.

The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

2. The permittee shall notify the director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III of this permit. The notification shall include a copy of such record and shall be sent to the director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

## V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation -  
NO<sub>x</sub> emissions from this emissions unit shall not exceed 0.13 lb NO<sub>x</sub>/mmBtu of actual heat input while combusting natural gas.  
  
Applicable Compliance Method -  
The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 7.
  - b. Emission Limitation -  
NO<sub>x</sub> emissions from this emissions unit shall not exceed 0.14 lb NO<sub>x</sub>/mmBtu of

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actual heat input while combusting No. 2 fuel oil.

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Applicable Compliance Method -

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 7.

c. Emission Limitation -

NO<sub>x</sub> emissions from emissions units B008, B009, B010 and B011 shall not exceed 50.4 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 0.13 lb NO<sub>x</sub>/mmBtu, by 1000 mmBtu/mmcf and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 0.14 lb NO<sub>x</sub>/mmBtu, by 1000 mmBtu/mmcf and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month NO<sub>x</sub> emission rate shall be the sum of i and ii above for the rolling, 12-month period.

d. Emission Limitation -

SO<sub>2</sub> emissions from this emissions unit shall not exceed 0.50 lb/mmBtu of actual heat input.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by dividing the emission factor 0.6 lb SO<sub>2</sub>/mmcf (AP-42, Table 1.4-2, 7/98) by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation shall be determined by the monitoring and record keeping requirements specified in A.III.4 of this permit.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 6.

e. Emission Limitation -

SO<sub>2</sub> emissions from emissions units B008, B009, B010 and B011 shall not exceed 19.3 tons per rolling 12-month period.

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Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 0.6 lb SO<sub>2</sub>/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor determined by the monitoring and record keeping requirements specified in A.III.4 of this permit and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month SO<sub>2</sub> emission rate shall be the sum of i and ii above for the rolling, 12-month period.

f. Emission Limitation -

OC emissions from this emissions unit shall not exceed 0.28 lb/hr.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (25.106 mmBtu/hr) by the emission factor 11 lbs OC/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (25.106 mmBtu/hr) by the emission factor 0.556 lb OC/1000 gal (AP-42, Table 1.3-3, 9/98) and dividing by 140 mmBtu/1000 gal.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Methods 18, 25 or 25A, as appropriate.

g. Emission Limitation -

OC emissions from emissions units B008, B009, B010 and B011 shall not exceed 4.0 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 11

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lbs OC/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 2000 lbs/ton.

- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 0.556 lb OC/1000 gal (AP-42, Table 1.3-3, 9/98) and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month OC emission rate shall be the sum of i and ii above for the rolling, 12-month period.

h. Emission Limitation -

CO emissions from this emissions unit shall not exceed 2.11 lbs/hr.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (25.106 mmBtu/hr) by the emission factor 84 lbs CO/mmcf (AP-42, Table 1.4-1, 7/98) and dividing by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (25.106 mmBtu/hr) by the emission factor 5 lbs CO/1000 gal (AP-42, Table 1.3-1, 9/98) and dividing by 140 mmBtu/1000 gal.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 10.

i. Emission Limitation -

CO emissions from emissions units B008, B009, B010 and B011 shall not exceed 30.4 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 84 lbs CO/mmcf (AP-42, Table 1.4-1, 7/98) and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 5 lbs CO/1000 gal (AP-42, Table 1.3-1, 9/98) and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month CO emission rate shall be the sum of i and ii above

for the rolling, 12-month period.

j. Emission Limitation -

PE from this emissions unit shall not exceed 0.020 lb/mmBtu of actual heat input.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by dividing the emission factor 7.6 lbs PE/mmcf (AP-42, Table 1.4-2, 7/98) by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation may be determined by dividing the emission factor 2 lbs PE/1000 gal (AP-42, Table 1.3-1, 9/98) by 140 mmBtu/1000 gal.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 5.

k. Emission Limitation -

PE from emissions units B008, B009, B010 and B011 shall not exceed 7.7 tons per rolling 12-month period.

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Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 7.6 lbs PE/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 2 lbs PE/1000 gal (AP-42, Table 1.3-1, 9/98) and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month PE rate shall be the sum of i and ii above for the rolling, 12-month period.

I. Emission Limitation -

Visible PE from any stack shall not exceed 5% opacity as a six-minute average.

Applicable Compliance Method -

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

m. Emission Limitation -

NO<sub>x</sub> emissions from emissions unit B003 shall not exceed 311.9 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.2 and shall be determined by:

- i. multiplying the coal usage for the month by the emission factor obtained from the latest stack test (0.11 lb NO<sub>x</sub>/mmBtu from 7/22/93 stack test), by the heat content of the coal (25 mmBtu/ton coal) and dividing by 2000 lbs/ton.
- ii. the rolling, 12-month NO<sub>x</sub> rate shall be the sum of i above for the rolling, 12-month period.

n. Emission Limitation -

NO<sub>x</sub> emissions from emissions units B001, B002, B003, B007, B008, B009, B010 and B011 shall not exceed 561.98 tons per rolling 12-month period.

Emissions Unit ID: B009

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1, A.III.2 and A.III.3 and shall be determined by:

- i. for B001, multiplying the coal usage for the month by the emission factor obtained from the latest stack test (0.06 lb NO<sub>x</sub>/mmBtu from 2/23/95 stack test), by the heat content of the coal (25 mmBtu/ton coal) and dividing by 2000 lbs/ton.
- ii. for B002, multiplying the coal usage for the month by the emission factor obtained from the latest stack test (0.32 lb NO<sub>x</sub>/mmBtu from 11/29/84 stack test), by the heat content of the coal (25 mmBtu/ton coal) and dividing by 2000 lbs/ton.
- iii. for B007, multiplying the No. 2 fuel oil usage for the month by the emission factor 0.88 lb NO<sub>x</sub>/mmBtu (AP-42, Table 3.1-1, 4/00), by 140 mmBtu/1000 gal and dividing by 2000 lbs/ton.
- iv. the rolling, 12-month NO<sub>x</sub> rate shall be the sum of c.i, c.ii, m.i, n.i, n.ii, and n.iii above for the rolling, 12-month period.

**VI. Miscellaneous Requirements**

1. The permittee is accepting an operational limitation on emissions unit B003 in order to offset 11.0 TPY of NO<sub>x</sub> emissions from the proposed new source installations (see A.II.4 and A.II.5).

In conjunction with the operational restriction on emissions unit B003, the permittee is also accepting a facility-wide NO<sub>x</sub> emission limitation (see A.II.6).

As a result, the overall emission increase of NO<sub>x</sub> emissions at the facility is calculated to be 39.4 TPY.

This modification is therefore a minor modification and not subject to federal Prevention of Significant Deterioration (PSD) rules.

2. This is an administrative modification to PTI 08-03566 issued March 12, 1997 and represents a 4.85 TPY increase of CO emissions and 0.53 TPY increase of OC emissions.

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**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment -(B009) - 25.106 mmBtu/hr (600 hp) natural gas and No. 2 oil fired boiler**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment -(B010) - 25.106 mmBtu/hr (600 hp) natural gas and No. 2 oil fired boiler**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
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<p>OAC rule 3745-31-05(C) (Netting to avoid PSD)</p>	<p>Nitrogen oxides (NO<sub>x</sub>) emissions from this emissions unit shall not exceed 0.13 lb/mmBtu of actual heat input while combusting natural gas and 0.14 lb/mmBtu of actual heat input while combusting No. 2 fuel oil.</p> <p>NO<sub>x</sub> emissions from emissions units B008, B009, B010 and B011 shall not exceed 50.4 tons per rolling 12-month period.</p> <p>Sulfur dioxide (SO<sub>2</sub>) emissions from emissions units B008, B009, B010 and B011 shall not exceed 19.3 tons per rolling 12-month period.</p> <p>Organic compound (OC) emissions from this emissions unit shall not exceed 0.28 lb/hr.</p> <p>OC emissions from emissions units B008, B009, B010 and B011 shall not exceed 4.0 tons per rolling 12-month period.</p> <p>Carbon monoxide (CO) emissions from this emissions unit shall not exceed 2.11 lbs/hr.</p> <p>CO emissions from emissions units B008, B009, B010 and B011 shall not exceed 30.4 tons per rolling 12-month period.</p> <p>Particulate emissions (PE) from emissions units B008, B009, B010 and B011 shall not exceed 7.7 tons per rolling 12-month period.</p> <p>Visible PE from any stack shall not exceed 5% opacity as a six-minute average.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B)(1) 40 CFR Part 60, Subpart Dc.</p>
<p>OAC rule 3745-17-07(A) OAC rule 3745-18-06(D)</p>	<p>The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).</p>
<p>OAC rule 3745-17-10(B)(1)</p>	<p>PE from this emissions unit shall not exceed 0.020 lb/mmBtu of actual heat input.</p>
<p>OAC rule 3745-21-08(B)</p>	<p>See Section A.1.2.b below.</p>

Emissions Unit ID: B010

40 CFR Part 60, Subpart Dc	SO <sub>2</sub> emissions from this emissions unit shall not exceed 0.50 lb/mmBtu of actual heat input.
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## 2. Additional Terms and Conditions

- 2.a** The 2.11 lbs CO/hour and 0.28 lb OC/hour emissions limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with these emissions limitations.
- 2.b** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in 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.

## II. Operational Restrictions

- The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
- The annual natural gas usage for emissions units B008, B009, B010 and B011 shall not exceed 693 million cubic feet (mmcf) based upon a rolling, 12-month summation of the natural gas usage rates.
- The annual No. 2 fuel oil usage for emissions units B008, B009, B010 and B011 shall not exceed 536,462 gallons based upon a rolling, 12-month summation of the No. 2 fuel oil usage rates.
- The annual coal usage for emissions unit B003 shall not exceed 51,751 tons based upon a rolling, 12-month summation of the coal usage rates.
- NO<sub>x</sub> emissions from emissions unit B003 shall not exceed 311.9 tons per rolling 12-month period.
- NO<sub>x</sub> emissions from emissions units B001, B002, B003, B007, B008, B009, B010 and B011 shall not exceed 561.98 tons per rolling 12-month period.
- The quality of oil burned in this emissions unit shall meet a sulfur content that is

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sufficient to comply with the allowable SO<sub>2</sub> emissions limitation specified in Section A.I.1 above.

**III. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information for emissions units B008, B009, B010 and B011:
  - a. The total combined quantity of natural gas burned, in mmcf.
  - b. The total combined quantity of No. 2 fuel oil burned, in gallons.
  - c. The rolling, 12-month summation of natural gas usage, in mmcf.
  - d. The rolling, 12-month summation of the No. 2 fuel oil usage, in gallons.
  - e. The monthly PE, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions rates, in tons.
  - f. The rolling, 12-month summation of the PE, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions rates, in tons.
2. The permittee shall maintain monthly records of the following information for emissions unit B003:
  - a. The quantity of coal burned, in tons.
  - b. The rolling, 12-month summation of coal usage, in tons.
  - c. The monthly NO<sub>x</sub> emissions rate, in tons.
  - d. The rolling, 12-month summation of the NO<sub>x</sub> emissions rate, in tons.
3. The permittee shall maintain monthly records of the following information for emissions units B001, B002, B003, B007, B008, B009, B010 and B011:
  - a. The monthly NO<sub>x</sub> emissions rate, in tons.
  - b. The rolling, 12-month summation of the NO<sub>x</sub> emissions rate, in tons.
4. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

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

b. Alternative 2:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the director.

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

#### IV. Reporting Requirements

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

Emissions Unit ID: B010

- a. The rolling, 12-month natural gas usage limitation for emissions units B008, B009, B010 and B011.
- b. The rolling, 12-month No. 2 fuel oil usage limitation for emissions units B008, B009, B010 and B011.
- c. The rolling, 12-month PE, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions limitations for emissions units B008, B009, B010 and B011.
- d. The rolling, 12-month coal usage limitation for emissions unit B003.
- e. The rolling, 12-month NO<sub>x</sub> emissions limitation for emissions unit B003.
- f. The rolling, 12-month NO<sub>x</sub> emissions limitation for emissions units B001, B002, B003, B007, B008, B009, B010 and B011.

The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

2. The permittee shall notify the director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III of this permit. The notification shall include a copy of such record and shall be sent to the director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

## V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation -  
NO<sub>x</sub> emissions from this emissions unit shall not exceed 0.13 lb NO<sub>x</sub>/mmBtu of actual heat input while combusting natural gas.  
  
Applicable Compliance Method -  
The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 7.
  - b. Emission Limitation -  
NO<sub>x</sub> emissions from this emissions unit shall not exceed 0.14 lb NO<sub>x</sub>/mmBtu of

actual heat input while combusting No. 2 fuel oil.

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Applicable Compliance Method -

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 7.

c. Emission Limitation -

NO<sub>x</sub> emissions from emissions units B008, B009, B010 and B011 shall not exceed 50.4 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 0.13 lb NO<sub>x</sub>/mmBtu, by 1000 mmBtu/mmcf and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 0.14 lb NO<sub>x</sub>/mmBtu, by 1000 mmBtu/mmcf and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month NO<sub>x</sub> emission rate shall be the sum of i and ii above for the rolling, 12-month period.

d. Emission Limitation -

SO<sub>2</sub> emissions from this emissions unit shall not exceed 0.50 lb/mmBtu of actual heat input.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by dividing the emission factor 0.6 lb SO<sub>2</sub>/mmcf (AP-42, Table 1.4-2, 7/98) by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation shall be determined by the monitoring and record keeping requirements specified in A.III.4 of this permit.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 6.

e. Emission Limitation -

SO<sub>2</sub> emissions from emissions units B008, B009, B010 and B011 shall not exceed 19.3 tons per rolling 12-month period.

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Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 0.6 lb SO<sub>2</sub>/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor determined by the monitoring and record keeping requirements specified in A.III.4 of this permit and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month SO<sub>2</sub> emission rate shall be the sum of i and ii above for the rolling, 12-month period.

f. Emission Limitation -

OC emissions from this emissions unit shall not exceed 0.28 lb/hr.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (25.106 mmBtu/hr) by the emission factor 11 lbs OC/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (25.106 mmBtu/hr) by the emission factor 0.556 lb OC/1000 gal (AP-42, Table 1.3-3, 9/98) and dividing by 140 mmBtu/1000 gal.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Methods 18, 25 or 25A, as appropriate.

g. Emission Limitation -

OC emissions from emissions units B008, B009, B010 and B011 shall not exceed 4.0 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 11

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lbs OC/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 2000 lbs/ton.

- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 0.556 lb OC/1000 gal (AP-42, Table 1.3-3, 9/98) and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month OC emission rate shall be the sum of i and ii above for the rolling, 12-month period.

h. Emission Limitation -

CO emissions from this emissions unit shall not exceed 2.11 lbs/hr.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (25.106 mmBtu/hr) by the emission factor 84 lbs CO/mmcf (AP-42, Table 1.4-1, 7/98) and dividing by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (25.106 mmBtu/hr) by the emission factor 5 lbs CO/1000 gal (AP-42, Table 1.3-1, 9/98) and dividing by 140 mmBtu/1000 gal.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 10.

i. Emission Limitation -

CO emissions from emissions units B008, B009, B010 and B011 shall not exceed 30.4 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 84 lbs CO/mmcf (AP-42, Table 1.4-1, 7/98) and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 5 lbs CO/1000 gal (AP-42, Table 1.3-1, 9/98) and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month CO emission rate shall be the sum of i and ii above

Emissions Unit ID: B010

for the rolling, 12-month period.

j. Emission Limitation -

PE from this emissions unit shall not exceed 0.020 lb/mmBtu of actual heat input.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by dividing the emission factor 7.6 lbs PE/mmcf (AP-42, Table 1.4-2, 7/98) by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation may be determined by dividing the emission factor 2 lbs PE/1000 gal (AP-42, Table 1.3-1, 9/98) by 140 mmBtu/1000 gal.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 5.

k. Emission Limitation -

PE from emissions units B008, B009, B010 and B011 shall not exceed 7.7 tons per rolling 12-month period.

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Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 7.6 lbs PE/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 2 lbs PE/1000 gal (AP-42, Table 1.3-1, 9/98) and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month PE rate shall be the sum of i and ii above for the rolling, 12-month period.

I. Emission Limitation -

Visible PE from any stack shall not exceed 5% opacity as a six-minute average.

Applicable Compliance Method -

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

m. Emission Limitation -

NO<sub>x</sub> emissions from emissions unit B003 shall not exceed 311.9 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.2 and shall be determined by:

- i. multiplying the coal usage for the month by the emission factor obtained from the latest stack test (0.11 lb NO<sub>x</sub>/mmBtu from 7/22/93 stack test), by the heat content of the coal (25 mmBtu/ton coal) and dividing by 2000 lbs/ton.
- ii. the rolling, 12-month NO<sub>x</sub> rate shall be the sum of i above for the rolling, 12-month period.

n. Emission Limitation -

NO<sub>x</sub> emissions from emissions units B001, B002, B003, B007, B008, B009, B010 and B011 shall not exceed 561.98 tons per rolling 12-month period.

Emissions Unit ID: B010

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1, A.III.2 and A.III.3 and shall be determined by:

- i. for B001, multiplying the coal usage for the month by the emission factor obtained from the latest stack test (0.06 lb NO<sub>x</sub>/mmBtu from 2/23/95 stack test), by the heat content of the coal (25 mmBtu/ton coal) and dividing by 2000 lbs/ton.
- ii. for B002, multiplying the coal usage for the month by the emission factor obtained from the latest stack test (0.32 lb NO<sub>x</sub>/mmBtu from 11/29/84 stack test), by the heat content of the coal (25 mmBtu/ton coal) and dividing by 2000 lbs/ton.
- iii. for B007, multiplying the No. 2 fuel oil usage for the month by the emission factor 0.88 lb NO<sub>x</sub>/mmBtu (AP-42, Table 3.1-1, 4/00), by 140 mmBtu/1000 gal and dividing by 2000 lbs/ton.
- iv. the rolling, 12-month NO<sub>x</sub> rate shall be the sum of c.i, c.ii, m.i, n.i, n.ii, and n.iii above for the rolling, 12-month period.

**VI. Miscellaneous Requirements**

1. The permittee is accepting an operational limitation on emissions unit B003 in order to offset 11.0 TPY of NO<sub>x</sub> emissions from the proposed new source installations (see A.II.4 and A.II.5).

In conjunction with the operational restriction on emissions unit B003, the permittee is also accepting a facility-wide NO<sub>x</sub> emission limitation (see A.II.6).

As a result, the overall emission increase of NO<sub>x</sub> emissions at the facility is calculated to be 39.4 TPY.

This modification is therefore a minor modification and not subject to federal Prevention of Significant Deterioration (PSD) rules.

2. This is an administrative modification to PTI 08-03566 issued March 12, 1997 and represents a 4.85 TPY increase of CO emissions and 0.53 TPY increase of OC emissions.

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**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment -(B010) - 25.106 mmBtu/hr (600 hp) natural gas and No. 2 oil fired boiler**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None

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**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment -(B011) - 25.106 mmBtu/hr (600 hp) natural gas and No. 2 oil fired boiler**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
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<p>OAC rule 3745-31-05(C) (Netting to avoid PSD)</p>	<p>Nitrogen oxides (NO<sub>x</sub>) emissions from this emissions unit shall not exceed 0.13 lb/mmBtu of actual heat input while combusting natural gas and 0.14 lb/mmBtu of actual heat input while combusting No. 2 fuel oil.</p> <p>NO<sub>x</sub> emissions from emissions units B008, B009, B010 and B011 shall not exceed 50.4 tons per rolling 12-month period.</p> <p>Sulfur dioxide (SO<sub>2</sub>) emissions from emissions units B008, B009, B010 and B011 shall not exceed 19.3 tons per rolling 12-month period.</p> <p>Organic compound (OC) emissions from this emissions unit shall not exceed 0.28 lb/hr.</p> <p>OC emissions from emissions units B008, B009, B010 and B011 shall not exceed 4.0 tons per rolling 12-month period.</p> <p>Carbon monoxide (CO) emissions from this emissions unit shall not exceed 2.11 lbs/hr.</p> <p>CO emissions from emissions units B008, B009, B010 and B011 shall not exceed 30.4 tons per rolling 12-month period.</p> <p>Particulate emissions (PE) from emissions units B008, B009, B010 and B011 shall not exceed 7.7 tons per rolling 12-month period.</p> <p>Visible PE from any stack shall not exceed 5% opacity as a six-minute average.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B)(1) 40 CFR Part 60, Subpart Dc.</p>
<p>OAC rule 3745-17-07(A) OAC rule 3745-18-06(D)</p>	<p>The emissions limitations specified by these rules are less stringent than the emissions limitations established pursuant to OAC rule 3745-31-05(A)(3).</p>
<p>OAC rule 3745-17-10(B)(1)</p>	<p>PE from this emissions unit shall not exceed 0.020 lb/mmBtu of actual heat input.</p>
<p>OAC rule 3745-21-08(B)</p>	<p>See Section A.I.2.b below.</p>

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40 CFR Part 60, Subpart Dc	SO <sub>2</sub> emissions from this emissions unit shall not exceed 0.50 lb/mmBtu of actual heat input.
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## 2. Additional Terms and Conditions

- 2.a** The 2.11 lbs CO/hour and 0.28 lb OC/hour emissions limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop monitoring, record keeping and/or reporting requirements to ensure compliance with these emissions limitations.
- 2.b** The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in 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.

## II. Operational Restrictions

- The permittee shall burn only natural gas and/or No. 2 fuel oil in this emissions unit.
- The annual natural gas usage for emissions units B008, B009, B010 and B011 shall not exceed 693 million cubic feet (mmcf) based upon a rolling, 12-month summation of the natural gas usage rates.
- The annual No. 2 fuel oil usage for emissions units B008, B009, B010 and B011 shall not exceed 536,462 gallons based upon a rolling, 12-month summation of the No. 2 fuel oil usage rates.
- The annual coal usage for emissions unit B003 shall not exceed 51,751 tons based upon a rolling, 12-month summation of the coal usage rates.
- NO<sub>x</sub> emissions from emissions unit B003 shall not exceed 311.9 tons per rolling 12-month period.
- NO<sub>x</sub> emissions from emissions units B001, B002, B003, B007, B008, B009, B010 and B011 shall not exceed 561.98 tons per rolling 12-month period.
- The quality of oil burned in this emissions unit shall meet a sulfur content that is

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sufficient to comply with the allowable SO<sub>2</sub> emissions limitation specified in Section A.I.1 above.

**III. Monitoring and/or Recordkeeping Requirements**

1. The permittee shall maintain monthly records of the following information for emissions units B008, B009, B010 and B011:
  - a. The total combined quantity of natural gas burned, in mmcf.
  - b. The total combined quantity of No. 2 fuel oil burned, in gallons.
  - c. The rolling, 12-month summation of natural gas usage, in mmcf.
  - d. The rolling, 12-month summation of the No. 2 fuel oil usage, in gallons.
  - e. The monthly PE, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions rates, in tons.
  - f. The rolling, 12-month summation of the PE, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions rates, in tons.
2. The permittee shall maintain monthly records of the following information for emissions unit B003:
  - a. The quantity of coal burned, in tons.
  - b. The rolling, 12-month summation of coal usage, in tons.
  - c. The monthly NO<sub>x</sub> emissions rate, in tons.
  - d. The rolling, 12-month summation of the NO<sub>x</sub> emissions rate, in tons.
3. The permittee shall maintain monthly records of the following information for emissions units B001, B002, B003, B007, B008, B009, B010 and B011:
  - a. The monthly NO<sub>x</sub> emissions rate, in tons.
  - b. The rolling, 12-month summation of the NO<sub>x</sub> emissions rate, in tons.
4. The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below.

a. Alternative 1:

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

b. Alternative 2:

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

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the director.

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

#### IV. Reporting Requirements

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

- a. The rolling, 12-month natural gas usage limitation for emissions units B008, B009, B010 and B011.
- b. The rolling, 12-month No. 2 fuel oil usage limitation for emissions units B008, B009, B010 and B011.
- c. The rolling, 12-month PE, NO<sub>x</sub>, SO<sub>2</sub>, CO, and VOC emissions limitations for emissions units B008, B009, B010 and B011.
- d. The rolling, 12-month coal usage limitation for emissions unit B003.
- e. The rolling, 12-month NO<sub>x</sub> emissions limitation for emissions unit B003.
- f. The rolling, 12-month NO<sub>x</sub> emissions limitation for emissions units B001, B002, B003, B007, B008, B009, B010 and B011.

The permittee shall submit quarterly deviation (excursion) reports in accordance with the General Terms and Conditions of this permit.

2. The permittee shall notify the director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III of this permit. The notification shall include a copy of such record and shall be sent to the director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or No. 2 fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

## V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I. of these terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation -  
NO<sub>x</sub> emissions from this emissions unit shall not exceed 0.13 lb NO<sub>x</sub>/mmBtu of actual heat input while combusting natural gas.  
  
Applicable Compliance Method -  
The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 7.
  - b. Emission Limitation -  
NO<sub>x</sub> emissions from this emissions unit shall not exceed 0.14 lb NO<sub>x</sub>/mmBtu of

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actual heat input while combusting No. 2 fuel oil.

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Applicable Compliance Method -

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 7.

c. Emission Limitation -

NO<sub>x</sub> emissions from emissions units B008, B009, B010 and B011 shall not exceed 50.4 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 0.13 lb NO<sub>x</sub>/mmBtu, by 1000 mmBtu/mmcf and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 0.14 lb NO<sub>x</sub>/mmBtu, by 1000 mmBtu/mmcf and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month NO<sub>x</sub> emission rate shall be the sum of i and ii above for the rolling, 12-month period.

d. Emission Limitation -

SO<sub>2</sub> emissions from this emissions unit shall not exceed 0.50 lb/mmBtu of actual heat input.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by dividing the emission factor 0.6 lb SO<sub>2</sub>/mmcf (AP-42, Table 1.4-2, 7/98) by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation shall be determined by the monitoring and record keeping requirements specified in A.III.4 of this permit.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 6.

e. Emission Limitation -

SO<sub>2</sub> emissions from emissions units B008, B009, B010 and B011 shall not exceed 19.3 tons per rolling 12-month period.

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Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 0.6 lb SO<sub>2</sub>/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor determined by the monitoring and record keeping requirements specified in A.III.4 of this permit and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month SO<sub>2</sub> emission rate shall be the sum of i and ii above for the rolling, 12-month period.

f. Emission Limitation -

OC emissions from this emissions unit shall not exceed 0.28 lb/hr.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (25.106 mmBtu/hr) by the emission factor 11 lbs OC/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (25.106 mmBtu/hr) by the emission factor 0.556 lb OC/1000 gal (AP-42, Table 1.3-3, 9/98) and dividing by 140 mmBtu/1000 gal.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Methods 18, 25 or 25A, as appropriate.

g. Emission Limitation -

OC emissions from emissions units B008, B009, B010 and B011 shall not exceed 4.0 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 11

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lbs OC/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 2000 lbs/ton.

- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 0.556 lb OC/1000 gal (AP-42, Table 1.3-3, 9/98) and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month OC emission rate shall be the sum of i and ii above for the rolling, 12-month period.

h. Emission Limitation -

CO emissions from this emissions unit shall not exceed 2.11 lbs/hr.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (25.106 mmBtu/hr) by the emission factor 84 lbs CO/mmcf (AP-42, Table 1.4-1, 7/98) and dividing by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation may be determined by multiplying the maximum hourly heat input of the emissions unit (25.106 mmBtu/hr) by the emission factor 5 lbs CO/1000 gal (AP-42, Table 1.3-1, 9/98) and dividing by 140 mmBtu/1000 gal.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 10.

i. Emission Limitation -

CO emissions from emissions units B008, B009, B010 and B011 shall not exceed 30.4 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 84 lbs CO/mmcf (AP-42, Table 1.4-1, 7/98) and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 5 lbs CO/1000 gal (AP-42, Table 1.3-1, 9/98) and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month CO emission rate shall be the sum of i and ii above

for the rolling, 12-month period.

j. Emission Limitation -

PE from this emissions unit shall not exceed 0.020 lb/mmBtu of actual heat input.

Applicable Compliance Method -

When firing natural gas, compliance with the emissions limitation may be determined by dividing the emission factor 7.6 lbs PE/mmcf (AP-42, Table 1.4-2, 7/98) by 1000 mmBtu/mmcf.

When firing No. 2 fuel oil, compliance with the emissions limitation may be determined by dividing the emission factor 2 lbs PE/1000 gal (AP-42, Table 1.3-1, 9/98) by 140 mmBtu/1000 gal.

The permittee may demonstrate compliance with this emission limitation in accordance 40 CFR, Part 60, Appendix A, Method 5.

k. Emission Limitation -

PE from emissions units B008, B009, B010 and B011 shall not exceed 7.7 tons per rolling 12-month period.

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Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1 and shall be determined by:

- i. multiplying the natural gas usage for the month by the emission factor 7.6 lbs PE/mmcf (AP-42, Table 1.4-2, 7/98) and dividing by 2000 lbs/ton.
- ii. multiplying the No. 2 fuel oil usage for the month by the emission factor 2 lbs PE/1000 gal (AP-42, Table 1.3-1, 9/98) and dividing by 2000 lbs/ton.
- iii. the rolling, 12-month PE rate shall be the sum of i and ii above for the rolling, 12-month period.

I. Emission Limitation -

Visible PE from any stack shall not exceed 5% opacity as a six-minute average.

Applicable Compliance Method -

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

m. Emission Limitation -

NO<sub>x</sub> emissions from emissions unit B003 shall not exceed 311.9 tons per rolling 12-month period.

Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.2 and shall be determined by:

- i. multiplying the coal usage for the month by the emission factor obtained from the latest stack test (0.11 lb NO<sub>x</sub>/mmBtu from 7/22/93 stack test), by the heat content of the coal (25 mmBtu/ton coal) and dividing by 2000 lbs/ton.
- ii. the rolling, 12-month NO<sub>x</sub> rate shall be the sum of i above for the rolling, 12-month period.

n. Emission Limitation -

NO<sub>x</sub> emissions from emissions units B001, B002, B003, B007, B008, B009, B010 and B011 shall not exceed 561.98 tons per rolling 12-month period.

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Applicable Compliance Method -

Compliance with the emissions limitation shall be based upon record keeping specified in A.III.1, A.III.2 and A.III.3 and shall be determined by:

- i. for B001, multiplying the coal usage for the month by the emission factor obtained from the latest stack test (0.06 lb NO<sub>x</sub>/mmBtu from 2/23/95 stack test), by the heat content of the coal (25 mmBtu/ton coal) and dividing by 2000 lbs/ton.
- ii. for B002, multiplying the coal usage for the month by the emission factor obtained from the latest stack test (0.32 lb NO<sub>x</sub>/mmBtu from 11/29/84 stack test), by the heat content of the coal (25 mmBtu/ton coal) and dividing by 2000 lbs/ton.
- iii. for B007, multiplying the No. 2 fuel oil usage for the month by the emission factor 0.88 lb NO<sub>x</sub>/mmBtu (AP-42, Table 3.1-1, 4/00), by 140 mmBtu/1000 gal and dividing by 2000 lbs/ton.
- iv. the rolling, 12-month NO<sub>x</sub> rate shall be the sum of c.i, c.ii, m.i, n.i, n.ii, and n.iii above for the rolling, 12-month period.

**VI. Miscellaneous Requirements**

1. The permittee is accepting an operational limitation on emissions unit B003 in order to offset 11.0 TPY of NO<sub>x</sub> emissions from the proposed new source installations (see A.II.4 and A.II.5).

In conjunction with the operational restriction on emissions unit B003, the permittee is also accepting a facility-wide NO<sub>x</sub> emission limitation (see A.II.6).

As a result, the overall emission increase of NO<sub>x</sub> emissions at the facility is calculated to be 39.4 TPY.

This modification is therefore a minor modification and not subject to federal Prevention of Significant Deterioration (PSD) rules.

2. This is an administrative modification to PTI 08-03566 issued March 12, 1997 and represents a 4.85 TPY increase of CO emissions and 0.53 TPY increase of OC emissions.

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**B. State Only Enforceable Section**

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operations(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 specified in narrative form following the table.

**Operations, Property, and/or Equipment -(B011) - 25.106 mmBtu/hr (600 hp) natural gas and No. 2 oil fired boiler**

Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
None	None

2. **Additional Terms and Conditions**

- 2.a None

**II. Operational Restrictions**

None

**III. Monitoring and/or Recordkeeping Requirements**

None

**IV. Reporting Requirements**

None

**V. Testing Requirements**

None

**VI. Miscellaneous Requirements**

None