



State of Ohio Environmental Protection Agency

Street Address:

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

TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

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

08/15/01

CERTIFIED MAIL

RE: Final Title V Chapter 3745-77 permit

08-55-10-0041
Piqua Municipal Power System
Roger C Wehrman
919 South Main Street
Piqua, OH 45356-5001

Dear Roger C Wehrman:

Enclosed is the Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully.

The Ohio EPA is encouraging 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.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Review Appeals Commission within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. It is also requested by the Director that a copy of the appeal be served upon the Environmental Enforcement Section of the Office of the Attorney General. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
236 East Town Street
Room 300
Columbus, Ohio 43215

If you have any questions, please contact RAPCA.

Very truly yours,

Thomas G. Rigo, Manager
Field Operations and Permit Section
Division of Air Pollution Control

cc: RAPCA
File, DAPC PMU



State of Ohio Environmental Protection Agency

FINAL TITLE V PERMIT

Issue Date: **08/15/01**

Effective Date: **08/15/01**

Expiration Date: **08/15/06**

This document constitutes issuance of a Title V permit for Facility ID: 08-55-10-0041 to:
Piqua Municipal Power System
919 South Main Street
Piqua, OH 45356-5001

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

B007 (C.T. #8) Fuel fired combustion turbine used for peaking and emergencies.	B009 (Steam Generator) 600hp natural gas and #2 fuel oil fired steam generator for the steam and hot water distribution systems	B011 (Steam Generator) 600hp natural gas and #2 fuel oil fired steam generator for the steam and hot water distribution systems
B008 (Steam Generator) 300hp natural gas and #2 fuel oil fired steam generator for the steam and hot water distribution systems	B010 (Steam Generator) 600hp natural gas and #2 fuel oil fired steam generator for the steam and hot water distribution systems	

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

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

RAPCA
451 West Third Street
PO Box 972
Dayton, OH 45422
(937) 225-4435

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

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 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 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 promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written reports shall be submitted quarterly, i.e., 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.) See B.8 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 to

the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting requirements. 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. 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.

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 submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

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

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 reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, reopened, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

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.

8. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

9. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these general terms and conditions shall apply to all operating scenarios authorized in this permit.

10. Reopening for Cause

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

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

11. Federal and State Enforceability

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

12. Compliance Requirements

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d. Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:
- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
 - ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.
 - (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
 - iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

13. Permit Shield

- a. Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but

excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.

- b. This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

14. Operational Flexibility

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

15. Emergencies

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

16. Off Permit Changes

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

- a. The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition;
- b. The permittee provides contemporaneous written notice of the change to the director and the administrator, except that no such notice shall be required for changes that qualify as insignificant emission levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or

pollutants emitted, and any federally applicable requirement that would apply as a result of the change;

- c. The change shall not qualify for the permit shield under OAC rule 3745-77-07(F);
- d. The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes; and
- e. The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

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

(For further clarification, the permittee can refer to Engineering Guide #63 that is available in their STARSHIP software package.)

17. Compliance Method Requirements

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

18. Insignificant Activity

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

B. State Only Enforceable Section

1. Permit to Install Requirement

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

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping 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 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 quarterly, i.e., 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. Records Retention Requirements

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

4. Inspections and Information Requests

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

this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

6. 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.

7. Air Pollution Nuisance

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

8. 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., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

1. Emissions unit B003 has not operated since 1992. Emissions units B001 and B002 have not operated since 1997. Before these emissions units are granted authorization to operate, the permittee shall comply with all federal and Ohio EPA new source review requirements and federal New Source Performance Standards that are applicable, and demonstrate compliance with all applicable emission limitations and control requirements by performing emission tests in accordance with approved U.S. EPA methods and procedures.

2. Applicable Rule:

OAC rule 3745-31-05
PTI #08-3566

Applicable Emission Limitation:

The maximum annual emissions of nitrogen oxides (NO_x) from this facility shall not exceed 561.98 tons, based upon a rolling, 12-month summation.

(The NO_x limitation above was originally established for emissions units B001, B002, B003, B007, B008, B009, B010 and B011, combined. However, emissions units B001, B002 and B003 are currently not in operation (see Section A.1 above). Therefore, the NO_x emission limitation above shall apply to emissions units B007, B008, B009, B010 and B011, combined, until such time when emissions units B001, B002 and B003 are reactivated and the permittee is able to demonstrate compliance in accordance with Section A.1 above.)

3. Record Keeping Requirements:

The permittee shall maintain monthly records of the following information:

a. the rolling, 12-month summation of the monthly NO_x emissions, in tons, for emissions units B008, B009, B010 and B011, combined (see section III.3.h for emissions units B008, B009, B010 and B011);

b. the rolling, 12-month summation of the monthly NO_x emissions, in tons, for emissions unit B007 (see section III.2.c for emissions unit B007); and

c. the rolling, 12-month summation of the monthly NO_x emissions, in tons, for emissions units B007, B008, B009, B010 and B011, combined (3.a + 3.b).

4. Reporting Requirements:

a. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 12-month summation of the monthly NO_x emission limitation of 561.98 tons. These reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

b. The permittee shall submit annual reports that specify the total emissions of NO_x from emissions units B007, B008, B009, B010 and B011, combined. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

5. Compliance and Testing Requirements:

Emission Limitation-
561.98 tons/yr NO_x, as a rolling, 12-month summation

Applicable Compliance Method:

Compliance shall be based upon the record keeping requirements specified in Section II.A.3 of this permit.

B. State Only Enforceable Section

1. The following insignificant emission units are located at this facility:

F001	Coal Storage Pile
F002	Parking & Roadways
F003	Ash Handling
T002	Fuel Oil Tank
T003	Fuel Oil Tank
Z001	Coal Elevator #2
Z002	Coal Elevator #3
Z003	Cold Solvent Cleaner
Z004	Cold Solvent Cleaner
Z005	Boiler Fuel Oil Tank

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a Permit to Install for the emissions unit.

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

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: C.T. #8 (B007)

Activity Description: Fuel fired combustion turbine used for peaking and emergencies.

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
293 mmBtu/hr, emergency, no. 2 fuel oil-fired, stationary combustion turbine; C.T. #8	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a six-minute average, except as provided by rule.
	OAC rule 3745-17-11(B)(4)	0.040 lb of PE/mmBtu of actual heat input
	OAC rule 3745-18-61(B)(2)	0.5 pound of sulfur dioxide (SO ₂) per mmBtu of actual heat input

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The quality of oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable SO₂ emission limitation specified in section A.1 above.
- The permittee shall burn only no.2 fuel oil in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

- For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated 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. Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

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

2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. the total amount of fuel oil burned in this emissions unit, in gallons of no. 2 fuel oil;
 - b. the total NOx emissions, in tons, calculated by multiplying the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 3.1, Table 3.1-1 (revised 4/2000) emission factor of 122 lbs NOx/1000 gallons of no. 2 fuel oil, and then dividing by 2000; and
 - c. the rolling, 12-month summation of the monthly NOx emissions, in tons.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports of the fuel supplier certifications to the Director (the appropriate Ohio EPA District Office or local air agency) which specify the following:
 - a. the name of the supplier; and
 - b. a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c, which states that distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 and 2, as defined by the American Society for Testing and Materials in ASTM D396-78, "Standard Specification for Fuel Oils."

These reports shall be submitted by January 31, April 30, July 31, and October 31 and shall cover the previous three calendar months. If no fuel oil is burned in this emissions unit during the calendar quarter, a statement to that effect shall be submitted.

2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III. above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA 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 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.1 of these terms and conditions shall be determined in accordance with the following method(s):
 - 1.a Emission Limitation-
20% opacity, as a six-minute average

Applicable Compliance Method-
If required, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).
 - 1.b Emission Limitation-
0.040 pound of PE per mmBtu of actual heat input

Applicable Compliance Method-
Compliance shall be demonstrated based upon the emission factor specified in AP-42, Section 3.1, Table 3.1-2a (revised 4/2000) of 0.0043 lb PE/mmBtu.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with the methods specified in OAC 3745-17-03 (B)(10).

V. Testing Requirements (continued)

- 1.c** Emission Limitation-
0.5 lb/mmBtu of sulfur dioxide

Applicable Compliance Method-

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

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis or if the sulfur content of each shipment of oil does not comply with the allowable emission limitation on an "as-burned" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil received during the calendar month.

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with USEPA reference Method 6, Method 6A, Method 6B, or Method 6c, whichever is appropriate, of 40 CFR, Part 60, Appendix A.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Steam Generator (B008)

Activity Description: 300hp natural gas and #2 fuel oil fired steam generator for the steam and hot water distribution systems

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
12.6 mmBtu/hr, natural gas and no. 2 fuel oil-fired steam generator (300 hp)	40 CFR, Part 60, Subpart Dc	0.50 lb of sulfur dioxide (SO ₂)/mmBtu of actual heat input
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulate emissions (PE) per mmBtu of actual heat input
	OAC rule 3745-18-06 (D)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR, Part 60, Subpart Dc.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-31-05 PTI #08-3566	<p>0.13 lb of nitrogen oxides (NOx)/mmBtu of actual heat input (when burning only natural gas)</p> <p>0.14 lb of NOx/mmBtu of actual heat input (when burning only no. 2 fuel oil)</p> <p>1.10 TPY of PE</p> <p>2.76 TPY of SO₂</p> <p>1.06 lbs/hr and 4.16 TPY of carbon monoxide (CO)</p> <p>0.07 lb/hr and 0.30 TPY of organic compounds (OC)</p> <p>7.20 TPY of NOx</p> <p>Opacity shall not exceed 5 %, as a six-minute average.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-10(B)(1).</p> <p>See Sections A.I.2 and A.II.2 and 3.</p>

2. Additional Terms and Conditions

- 2.a** The permittee operates four natural gas/no. 2 oil-fired boilers (emissions units B008, B009, B010 and B011). Emissions unit B008 has a maximum rated capacity of 12.6 mmBtu/hr; B009, 25.1 mmBtu/hr; B010, 25.1 mmBtu/hr; and B011, 25.1 mmBtu/hr.
- 2.b** The annual emissions of NOx from emissions units B008, B009, B010 and B011, combined, shall not exceed 45.0 tons, based upon a rolling, 12-month summation.
- 2.c** The annual emissions of SO₂ from emissions units B008, B009, B010 and B011, combined, shall not exceed 18.8 tons, based upon a rolling, 12-month summation.
- 2.d** The hourly CO and OC limitations were developed for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

II. Operational Restrictions

- 1. The permittee shall burn only natural gas and/or no.2 fuel oil in this emissions unit.
- 2. The maximum annual natural gas usage for emissions units B008, B009, B010 and B011, combined, shall not exceed 693 million cubic feet (mm cu. ft), based upon a rolling, 12-month summation of the monthly natural gas usage rates.
- 3. The maximum annual no. 2 oil usage for emissions units B008, B009, B010 and B011, combined, shall not exceed 536,462 gallons, based upon a rolling, 12-month summation of the monthly no. 2 fuel oil usage rates.
- 4. The quality of oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable SO₂ emission limitation specified in section A.1. above.

III. Monitoring and/or Record Keeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated 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. Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The total amount of fuel burned in this emissions unit, in mm cu. ft of natural gas and in gallons of no. 2 fuel oil.
 - b. The monthly NO_x emissions, in tons, calculated as follows:
 - i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs NO_x/mm cu. ft of natural gas, and then divide by 2000;
 - ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 20 lbs NO_x/1000 gallons of no. 2 fuel oil, and then divide by 2000; and
 - iii. add 2.b.i + 2.b.ii.
 - c. The monthly SO₂ emissions, in tons, calculated as follows:
 - i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 0.6 lb SO₂/mm cu. ft of natural gas, and then divide by 2000;
 - ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 142 x S* lbs SO₂/1000 gallons of no. 2 fuel oil, and then divide by 2000; and
 - iii. add 2.c.i + 2.c.ii.
- * S is the monthly volume-weighted average of the weight percent of sulfur in the oil. For example, if the fuel oil is 1% sulfur, then S = 1.

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

d. The monthly CO emissions, in tons, calculated as follows:

i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 84 lbs CO/mm cu. ft of natural gas, and then divide by 2000;

ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 5 lbs CO/1000 gallons of no. 2 fuel oil, and then divide by 2000; and

iii. add 2.d.i + 2.d.ii.

e. The monthly OC emissions, in tons, calculated as follows:

i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 5.5 lbs OC/mm cu. ft of natural gas, and then divide by 2000;

ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-3 (revised 9/98) emission factor of 0.2 lb OC/1000 gallons of no. 2 fuel oil, and then divide by 2000; and

iii. add 2.e.i + 2.e.ii.

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

a. the total amount of no. 2 fuel oil burned [calculated by adding the monthly usage rates (from section 2.a) for emissions units B008 - B011], in gallons;

b. the total amount of natural gas burned [calculated by adding the monthly usage rates (from section 2.a) for emissions units B008 - B011], in mm cu. ft;

c. the total monthly SO₂ emissions [calculated by adding the monthly SO₂ emission rates (from section 2.c.iii) for emissions units B008 - B011], in tons;

d. the total monthly NO_x emissions [calculated by adding the monthly NO_x emission rates (from section 2.b.iii) for emissions units B008 - B011], in tons;

e. the rolling, 12-month summation of the monthly no. 2 oil usage rates for emissions units B008, B009, B010 and B011, combined, in gallons;

f. the rolling, 12-month summation of the monthly natural gas usage rates for emissions units B008, B009, B010 and B011, combined, in mm cu. ft;

g. the rolling, 12-month summation of the monthly SO₂ emission rates for emissions units B008, B009, B010 and B011, combined, in tons; and

h. the rolling, 12-month summation of the monthly NO_x emission rates for emissions units B008, B009, B010 and B011, combined, in tons.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports of the fuel supplier certifications to the Director (the appropriate Ohio EPA District Office or local air agency) which specify the following:
 - a. the name of the supplier; and
 - b. a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c, which states that distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 and 2, as defined by the American Society for Testing and Materials in ASTM D396-78, "Standard Specification for Fuel Oils."

These reports shall be submitted by January 31, April 30, July 31, and October 31 and shall cover the previous three calendar months. If no fuel oil is burned in this emissions unit during the calendar quarter, a statement to that effect shall be submitted.

2. 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.
3. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month NO_x limitation of 45 tons for emissions units B008, B009, B010 and B011, combined;
 - b. all exceedances of the rolling, 12-month SO₂ limitation of 18.8 tons for emissions units B008, B009, B010 and B011, combined;
 - c. all exceedances of the rolling, 12-month natural gas usage restriction of 693 mm cu. ft for emissions units B008, B009, B010 and B011, combined; and
 - d. all exceedances of the rolling, 12-month no. 2 fuel oil usage restriction of 536,462 gallons for emissions units B008, B009, B010 and B011, combined.

These reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

4. The permittee shall submit annual reports that summarize the following information for this emissions unit:
 - a. the actual annual NO_x emissions, in tons;
 - b. the actual annual SO₂ emissions, in tons;
 - c. the actual annual CO emissions, in tons; and
 - d. the actual annual OC emissions, in tons.

These reports shall cover the previous calendar year and shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

- 1.a** Emission Limitations-
0.020 lb of PE/mmBtu of actual heat input
1.10 TPY of PE

Applicable Compliance Method-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (mm cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/mm cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2.0 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance with the lb/mmBtu limitation is maintained (the annual limitation was calculated by multiplying the lb/mmBtu limitation by the maximum heat input capacity of the emissions unit and by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limit above pursuant to OAC rule 3745-17-03(B)(9).

- 1.b** Emission Limitations -
0.50 lb of SO₂/mmBtu of actual heat input
2.76 TPY of SO₂

Applicable Compliance Method -

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

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis or if the sulfur content of each shipment of oil does not comply with the allowable emission limitation on an "as-burned" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil received during the calendar month.

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly SO₂ emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation in accordance with USEPA reference Method 6, Method 6A, Method 6B, or Method 6c, whichever is appropriate, of 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 1.c** Emission Limitations-
0.13 lb of NO_x/mmBtu of actual heat input (when burning natural gas)
0.14 lb of NO_x/mmBtu of actual heat input (when burning no. 2 fuel oil)
7.20 TPY of NO_x

Applicable Compliance Method-

For the use of natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs NO_x/mm cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 20 lbs NO_x/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly NO_x emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the lb/mmBtu limitations in accordance with Method 7, 40 CFR, Part 60, Appendix A.

- 1.d** Emission Limitation-
45 tons of NO_x/rolling, 12-month period (for emissions units B008, B009, B010 and B011, combined)

Applicable Compliance Method-

The permittee shall demonstrate compliance based upon the record keeping requirements in Section A.III of this permit.

- 1.e** Emission Limitation-
18.8 tons of SO₂/rolling, 12-month period (for emissions units B008, B009, B010 and B011, combined)

Applicable Compliance Method-

The permittee shall demonstrate compliance based upon the record keeping requirements in Section A.III of this permit.

- 1.f** Emission Limitations-
1.06 lbs of CO/hr
4.16 TPY of CO

Applicable Compliance Method-

For the use of natural gas, compliance may be determined by multiplying the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 84 lbs CO/mm cu. ft by the maximum hourly natural gas usage (mm cu. ft/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 5 lbs CO/1000 gallons of fuel oil.

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly CO emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the hourly limitation in accordance with Method 10, 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 1.g** Emission Limitations-
0.07 lb of OC/hr
0.30 TPY of OC

Applicable Compliance Method -

For the use of natural gas, compliance may be determined by multiplying the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 5.5 lbs OC/mm cu. ft by the maximum hourly natural gas usage rate (mm cu. ft/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-3 (revised 9/98) emission factor of 0.2 lb OC/1000 gallons of fuel oil.

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly OC emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the hourly limitation in accordance with Method 25, 40 CFR, Part 60, Appendix A.

- 1.h** Emission Limitation-
5% opacity limitation, as a six-minute average

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Steam Generator (B009)

Activity Description: 600hp natural gas and #2 fuel oil fired steam generator for the steam and hot water distribution systems

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
25.1 mmBtu/hr, natural gas and no. 2 fuel oil-fired steam generator (600 hp)	40 CFR, Part 60, Subpart Dc	0.50 lb of sulfur dioxide (SO ₂)/mmBtu of actual heat input
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulate emissions (PE) per mmBtu of actual heat input
	OAC rule 3745-18-06 (D)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR, Part 60, Subpart Dc.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-31-05 PTI #08-3566	<p>0.13 lb of nitrogen oxides (NOx)/mmBtu of actual heat input (when burning only natural gas)</p> <p>0.14 lb of NOx/mmBtu of actual heat input (when burning only no. 2 fuel oil)</p> <p>2.20 TPY of PE</p> <p>5.51 TPY of SO₂</p> <p>0.88 lb/hr and 3.85 TPY of carbon monoxide (CO)</p> <p>0.14 lb/hr and 0.60 TPY of organic compounds (OC)</p> <p>14.4 TPY of NOx</p> <p>Opacity shall not exceed 5 %, as a six-minute average.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-10(B)(1).</p> <p>See Sections A.I.2 and A.II.2 and 3.</p>

2. Additional Terms and Conditions

- 2.a** The permittee operates four natural gas/no. 2 oil-fired boilers (emissions units B008, B009, B010 and B011). Emissions unit B008 has a maximum rated capacity of 12.6 mmBtu/hr; B009, 25.1 mmBtu/hr; B010, 25.1 mmBtu/hr; and B011, 25.1 mmBtu/hr.
- 2.b** The annual emissions of NOx from emissions units B008, B009, B010 and B011, combined, shall not exceed 45.0 tons, based upon a rolling, 12-month summation.
- 2.c** The annual emissions of SO₂ from emissions units B008, B009, B010 and B011, combined, shall not exceed 18.8 tons, based upon a rolling, 12-month summation.
- 2.d** The hourly CO and OC limitations were developed for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

II. Operational Restrictions

- 1. The permittee shall burn only natural gas and/or no.2 fuel oil in this emissions unit.
- 2. The maximum annual natural gas usage for emissions units B008, B009, B010 and B011, combined, shall not exceed 693 million cubic feet (mm cu. ft), based upon a rolling, 12-month summation of the monthly natural gas usage rates.
- 3. The maximum annual no. 2 oil usage for emissions units B008, B009, B010 and B011, combined, shall not exceed 536,462 gallons, based upon a rolling, 12-month summation of the monthly no. 2 fuel oil usage rates.
- 4. The quality of oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable SO₂ emission limitation specified in section A.1. above.

III. Monitoring and/or Record Keeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated 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. Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The total amount of fuel burned in this emissions unit, in mm cu. ft of natural gas and in gallons of no. 2 fuel oil.
 - b. The monthly NO_x emissions, in tons, calculated as follows:
 - i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs NO_x/mm cu. ft of natural gas, and then divide by 2000;
 - ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 20 lbs NO_x/1000 gallons of no. 2 fuel oil, and then divide by 2000; and
 - iii. add 2.b.i + 2.b.ii.
 - c. The monthly SO₂ emissions, in tons, calculated as follows:
 - i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 0.6 lb SO₂/mm cu. ft of natural gas, and then divide by 2000;
 - ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 142 x S* lbs SO₂/1000 gallons of no. 2 fuel oil, and then divide by 2000; and
 - iii. add 2.c.i + 2.c.ii.

* S is the monthly volume-weighted average of the weight percent of sulfur in the oil. For example, if the fuel oil is 1% sulfur, then S = 1.

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

d. The monthly CO emissions, in tons, calculated as follows:

i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 84 lbs CO/mm cu. ft of natural gas, and then divide by 2000;

ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 5 lbs CO/1000 gallons of no. 2 fuel oil, and then divide by 2000; and

iii. add 2.d.i + 2.d.ii.

e. The monthly OC emissions, in tons, calculated as follows:

i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 5.5 lbs OC/mm cu. ft of natural gas, and then divide by 2000;

ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-3 (revised 9/98) emission factor of 0.2 lb OC/1000 gallons of no. 2 fuel oil, and then divide by 2000; and

iii. add 2.e.i + 2.e.ii.

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

a. the total amount of no. 2 fuel oil burned [calculated by adding the monthly usage rates (from section 2.a) for emissions units B008 - B011], in gallons;

b. the total amount of natural gas burned [calculated by adding the monthly usage rates (from section 2.a) for emissions units B008 - B011], in mm cu. ft;

c. the total monthly SO₂ emissions [calculated by adding the monthly SO₂ emission rates (from section 2.c.iii) for emissions units B008 - B011], in tons;

d. the total monthly NO_x emissions [calculated by adding the monthly NO_x emission rates (from section 2.b.iii) for emissions units B008 - B011], in tons;

e. the rolling, 12-month summation of the monthly no. 2 oil usage rates for emissions units B008, B009, B010 and B011, combined, in gallons;

f. the rolling, 12-month summation of the monthly natural gas usage rates for emissions units B008, B009, B010 and B011, combined, in mm cu. ft;

g. the rolling, 12-month summation of the monthly SO₂ emission rates for emissions units B008, B009, B010 and B011, combined, in tons; and

h. the rolling, 12-month summation of the monthly NO_x emission rates for emissions units B008, B009, B010 and B011, combined, in tons.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports of the fuel supplier certifications to the Director (the appropriate Ohio EPA District Office or local air agency) which specify the following:
 - a. the name of the supplier; and
 - b. a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c, which states that distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 and 2, as defined by the American Society for Testing and Materials in ASTM D396-78, "Standard Specification for Fuel Oils."

These reports shall be submitted by January 31, April 30, July 31, and October 31 and shall cover the previous three calendar months. If no fuel oil is burned in this emissions unit during the calendar quarter, a statement to that effect shall be submitted.

2. 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.
3. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month NO_x limitation of 45 tons for emissions units B008, B009, B010 and B011, combined;
 - b. all exceedances of the rolling, 12-month SO₂ limitation of 18.8 tons for emissions units B008, B009, B010 and B011, combined;
 - c. all exceedances of the rolling, 12-month natural gas usage restriction of 693 mm cu. ft for emissions units B008, B009, B010 and B011, combined; and
 - d. all exceedances of the rolling, 12-month no. 2 fuel oil usage restriction of 536,462 gallons for emissions units B008, B009, B010 and B011, combined.

These reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

4. The permittee shall submit annual reports that summarize the following information for this emissions unit:
 - a. the actual annual NO_x emissions, in tons;
 - b. the actual annual SO₂ emissions, in tons;
 - c. the actual annual CO emissions, in tons; and
 - d. the actual annual OC emissions, in tons.

These reports shall cover the previous calendar year and shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

- 1.a** Emission Limitation-
0.020 lb of PE/mmBtu of actual heat input
2.20 TPY of PE

Applicable Compliance Method-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (mm cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/mm cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2.0 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance with the lb/mmBtu limitation is maintained (the annual limitation was calculated by multiplying the lb/mmBtu limitation by the maximum heat input capacity of the emissions unit and by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limit above pursuant to OAC rule 3745-17-03(B)(9).

- 1.b** Emission Limitations -
0.50 lb of SO₂/mmBtu of actual heat input
5.51 TPY of SO₂

Applicable Compliance Method -

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

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis or if the sulfur content of each shipment of oil does not comply with the allowable emission limitation on an "as-burned" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil received during the calendar month.

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly SO₂ emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation in accordance with USEPA reference Method 6, Method 6A, Method 6B, or Method 6c, whichever is appropriate, of 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 1.c** Emission Limitations-
0.13 lb of NO_x/mmBtu of actual heat input (when burning natural gas)
0.14 lb of NO_x/mmBtu of actual heat input (when burning no. 2 fuel oil)
14.4 TPY of NO_x

Applicable Compliance Method-

For the use of natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs NO_x/mm cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 20 lbs NO_x/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly NO_x emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the lb/mmBtu limitations in accordance with Method 7, 40 CFR, Part 60, Appendix A.

- 1.d** Emission Limitation-
45 tons of NO_x/rolling, 12-month period (for emissions units B008, B009, B010 and B011, combined)

Applicable Compliance Method-

The permittee shall demonstrate compliance based upon the record keeping requirements in Section A.III of this permit.

- 1.e** Emission Limitation-
18.8 tons of SO₂/rolling, 12-month period (for emissions units B008, B009, B010 and B011, combined)

Applicable Compliance Method-

The permittee shall demonstrate compliance based upon the record keeping requirements in Section A.III of this permit.

- 1.f** Emission Limitations-
0.88 lb of CO/hr
3.85 TPY of CO

Applicable Compliance Method-

For the use of natural gas, compliance may be determined by multiplying the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 84 lbs CO/mm cu. ft by the maximum hourly natural gas usage (mm cu. ft/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 5 lbs CO/1000 gallons of fuel oil.

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly CO emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the hourly limitation in accordance with Method 10, 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 1.g** Emission Limitations-
0.14 lb of OC/hr
0.60 TPY of OC

Applicable Compliance Method -

For the use of natural gas, compliance may be determined by multiplying the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 5.5 lbs OC/mm cu. ft by the maximum hourly natural gas usage rate (mm cu. ft/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-3 (revised 9/98) emission factor of 0.2 lb OC/1000 gallons of fuel oil.

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly OC emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the hourly limitation in accordance with Method 25, 40 CFR, Part 60, Appendix A.

- 1.h** Emission Limitation-
5% opacity limitation, as a six-minute average

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Steam Generator (B010)

Activity Description: 600hp natural gas and #2 fuel oil fired steam generator for the steam and hot water distribution systems

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
25.1 mmBtu/hr, natural gas and no. 2 fuel oil-fired steam generator (600 hp)	40 CFR, Part 60, Subpart Dc	0.50 lb of sulfur dioxide (SO ₂)/mmBtu of actual heat input
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulate emissions (PE) per mmBtu of actual heat input
	OAC rule 3745-18-06 (D)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR, Part 60, Subpart Dc.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-31-05 PTI #08-3566	<p>0.13 lb of nitrogen oxides (NOx)/mmBtu of actual heat input (when burning only natural gas)</p> <p>0.14 lb of NOx/mmBtu of actual heat input (when burning only no. 2 fuel oil)</p> <p>2.20 TPY of PE</p> <p>5.51 TPY of SO₂</p> <p>0.88 lb/hr and 3.85 TPY of carbon monoxide (CO)</p> <p>0.14 lb/hr and 0.60 TPY of organic compounds (OC)</p> <p>14.4 TPY of NOx</p> <p>Opacity shall not exceed 5 %, as a six-minute average.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-10(B)(1).</p> <p>See Sections A.I.2 and A.II.2 and 3.</p>

2. Additional Terms and Conditions

- 2.a** The permittee operates four natural gas/no. 2 oil-fired boilers (emissions units B008, B009, B010 and B011). Emissions unit B008 has a maximum rated capacity of 12.6 mmBtu/hr; B009, 25.1 mmBtu/hr; B010, 25.1 mmBtu/hr; and B011, 25.1 mmBtu/hr.
- 2.b** The annual emissions of NOx from emissions units B008, B009, B010 and B011, combined, shall not exceed 45.0 tons, based upon a rolling, 12-month summation.
- 2.c** The annual emissions of SO₂ from emissions units B008, B009, B010 and B011, combined, shall not exceed 18.8 tons, based upon a rolling, 12-month summation.
- 2.d** The hourly CO and OC limitations were developed for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

II. Operational Restrictions

- 1.** The permittee shall burn only natural gas and/or no.2 fuel oil in this emissions unit.
- 2.** The maximum annual natural gas usage for emissions units B008, B009, B010 and B011, combined, shall not exceed 693 million cubic feet (mm cu. ft), based upon a rolling, 12-month summation of the monthly natural gas usage rates.
- 3.** The maximum annual no. 2 oil usage for emissions units B008, B009, B010 and B011, combined, shall not exceed 536,462 gallons, based upon a rolling, 12-month summation of the monthly no. 2 fuel oil usage rates.
- 4.** The quality of oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable SO₂ emission limitation specified in section A.1. above.

III. Monitoring and/or Record Keeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated 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. Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The total amount of fuel burned in this emissions unit, in mm cu. ft of natural gas and in gallons of no. 2 fuel oil.
 - b. The monthly NO_x emissions, in tons, calculated as follows:
 - i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs NO_x/mm cu. ft of natural gas, and then divide by 2000;
 - ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 20 lbs NO_x/1000 gallons of no. 2 fuel oil, and then divide by 2000; and
 - iii. add 2.b.i + 2.b.ii.
 - c. The monthly SO₂ emissions, in tons, calculated as follows:
 - i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 0.6 lb SO₂/mm cu. ft of natural gas, and then divide by 2000;
 - ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 142 x S* lbs SO₂/1000 gallons of no. 2 fuel oil, and then divide by 2000; and
 - iii. add 2.c.i + 2.c.ii.

* S is the monthly volume-weighted average of the weight percent of sulfur in the oil. For example, if the fuel oil is 1% sulfur, then S = 1.

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

d. The monthly CO emissions, in tons, calculated as follows:

i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 84 lbs CO/mm cu. ft of natural gas, and then divide by 2000;

ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 5 lbs CO/1000 gallons of no. 2 fuel oil, and then divide by 2000; and

iii. add 2.d.i + 2.d.ii.

e. The monthly OC emissions, in tons, calculated as follows:

i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 5.5 lbs OC/mm cu. ft of natural gas, and then divide by 2000;

ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-3 (revised 9/98) emission factor of 0.2 lb OC/1000 gallons of no. 2 fuel oil, and then divide by 2000; and

iii. add 2.e.i + 2.e.ii.

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

a. the total amount of no. 2 fuel oil burned [calculated by adding the monthly usage rates (from section 2.a) for emissions units B008 - B011], in gallons;

b. the total amount of natural gas burned [calculated by adding the monthly usage rates (from section 2.a) for emissions units B008 - B011], in mm cu. ft;

c. the total monthly SO₂ emissions [calculated by adding the monthly SO₂ emission rates (from section 2.c.iii) for emissions units B008 - B011], in tons;

d. the total monthly NO_x emissions [calculated by adding the monthly NO_x emission rates (from section 2.b.iii) for emissions units B008 - B011], in tons;

e. the rolling, 12-month summation of the monthly no. 2 oil usage rates for emissions units B008, B009, B010 and B011, combined, in gallons;

f. the rolling, 12-month summation of the monthly natural gas usage rates for emissions units B008, B009, B010 and B011, combined, in mm cu. ft;

g. the rolling, 12-month summation of the monthly SO₂ emission rates for emissions units B008, B009, B010 and B011, combined, in tons; and

h. the rolling, 12-month summation of the monthly NO_x emission rates for emissions units B008, B009, B010 and B011, combined, in tons.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports of the fuel supplier certifications to the Director (the appropriate Ohio EPA District Office or local air agency) which specify the following:
 - a. the name of the supplier; and
 - b. a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c, which states that distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 and 2, as defined by the American Society for Testing and Materials in ASTM D396-78, "Standard Specification for Fuel Oils."

These reports shall be submitted by January 31, April 30, July 31, and October 31 and shall cover the previous three calendar months. If no fuel oil is burned in this emissions unit during the calendar quarter, a statement to that effect shall be submitted.

2. 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.
3. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month NO_x limitation of 45 tons for emissions units B008, B009, B010 and B011, combined;
 - b. all exceedances of the rolling, 12-month SO₂ limitation of 18.8 tons for emissions units B008, B009, B010 and B011, combined;
 - c. all exceedances of the rolling, 12-month natural gas usage restriction of 693 mm cu. ft for emissions units B008, B009, B010 and B011, combined; and
 - d. all exceedances of the rolling, 12-month no. 2 fuel oil usage restriction of 536,462 gallons for emissions units B008, B009, B010 and B011, combined.

These reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

4. The permittee shall submit annual reports that summarize the following information for this emissions unit:
 - a. the actual annual NO_x emissions, in tons;
 - b. the actual annual SO₂ emissions, in tons;
 - c. the actual annual CO emissions, in tons; and
 - d. the actual annual OC emissions, in tons.

These reports shall cover the previous calendar year and shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

- 1.a** Emission Limitation-
0.020 lb of PE/mmBtu of actual heat input
2.20 TPY of PE

Applicable Compliance Method-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (mm cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/mm cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2.0 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance with the lb/mmBtu limitation is maintained (the annual limitation was calculated by multiplying the lb/mmBtu limitation by the maximum heat input capacity of the emissions unit and by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limit above pursuant to OAC rule 3745-17-03(B)(9).

- 1.b** Emission Limitations -
0.50 lb of SO₂/mmBtu of actual heat input
5.51 TPY of SO₂

Applicable Compliance Method -

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

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis or if the sulfur content of each shipment of oil does not comply with the allowable emission limitation on an "as-burned" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil received during the calendar month.

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly SO₂ emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation in accordance with USEPA reference Method 6, Method 6A, Method 6B, or Method 6c, whichever is appropriate, of 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 1.c** Emission Limitations-
0.13 lb of NOx/mmBtu of actual heat input (when burning natural gas)
0.14 lb of NOx/mmBtu of actual heat input (when burning no. 2 fuel oil)
14.4 TPY of NOx

Applicable Compliance Method-

For the use of natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs NOx/mm cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 20 lbs NOx/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly NOx emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the lb/mmBtu limitations in accordance with Method 7, 40 CFR, Part 60, Appendix A.

- 1.d** Emission Limitation-
45 tons of NOx/rolling, 12-month period (for emissions units B008, B009, B010 and B011, combined)

Applicable Compliance Method-

The permittee shall demonstrate compliance based upon the record keeping requirements in Section A.III of this permit.

- 1.e** Emission Limitation-
18.8 tons of SO₂/rolling, 12-month period (for emissions units B008, B009, B010 and B011, combined)

Applicable Compliance Method-

The permittee shall demonstrate compliance based upon the record keeping requirements in Section A.III of this permit.

- 1.f** Emission Limitations-
0.88 lb of CO/hr
3.85 TPY of CO

Applicable Compliance Method-

For the use of natural gas, compliance may be determined by multiplying the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 84 lbs CO/mm cu. ft by the maximum hourly natural gas usage (mm cu. ft/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 5 lbs CO/1000 gallons of fuel oil.

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly CO emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the hourly limitation in accordance with Method 10, 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 1.g** Emission Limitations-
0.14 lb of OC/hr
0.60 TPY of OC

Applicable Compliance Method -

For the use of natural gas, compliance may be determined by multiplying the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 5.5 lbs OC/mm cu. ft by the maximum hourly natural gas usage rate (mm cu. ft/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-3 (revised 9/98) emission factor of 0.2 lb OC/1000 gallons of fuel oil.

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly OC emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the hourly limitation in accordance with Method 25, 40 CFR, Part 60, Appendix A.

- 1.h** Emission Limitation-
5% opacity limitation, as a six-minute average

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Steam Generator (B011)

Activity Description: 600hp natural gas and #2 fuel oil fired steam generator for the steam and hot water distribution systems

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
25.1 mmBtu/hr, natural gas and no. 2 fuel oil-fired steam generator (600 hp)	40 CFR, Part 60, Subpart Dc	0.50 lb of sulfur dioxide (SO ₂)/mmBtu of actual heat input
	OAC rule 3745-17-07(A)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulate emissions (PE) per mmBtu of actual heat input
	OAC rule 3745-18-06 (D)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to 40 CFR, Part 60, Subpart Dc.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
	OAC rule 3745-31-05 PTI #08-3566	<p>0.13 lb of nitrogen oxides (NOx)/mmBtu of actual heat input (when burning only natural gas)</p> <p>0.14 lb of NOx/mmBtu of actual heat input (when burning only no. 2 fuel oil)</p> <p>2.20 TPY of PE</p> <p>5.51 TPY of SO₂</p> <p>0.88 lb/hr and 3.85 TPY of carbon monoxide (CO)</p> <p>0.14 lb/hr and 0.60 TPY of organic compounds (OC)</p> <p>14.4 TPY of NOx</p> <p>Opacity shall not exceed 5 %, as a six-minute average.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-10(B)(1).</p> <p>See Sections A.I.2 and A.II.2 and 3.</p>

2. Additional Terms and Conditions

- 2.a** The permittee operates four natural gas/no. 2 oil-fired boilers (emissions units B008, B009, B010 and B011). Emissions unit B008 has a maximum rated capacity of 12.6 mmBtu/hr; B009, 25.1 mmBtu/hr; B010, 25.1 mmBtu/hr; and B011, 25.1 mmBtu/hr.
- 2.b** The annual emissions of NOx from emissions units B008, B009, B010 and B011, combined, shall not exceed 45.0 tons, based upon a rolling, 12-month summation.
- 2.c** The annual emissions of SO₂ from emissions units B008, B009, B010 and B011, combined, shall not exceed 18.8 tons, based upon a rolling, 12-month summation.
- 2.d** The hourly CO and OC limitations were developed for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

II. Operational Restrictions

- 1.** The permittee shall burn only natural gas and/or no.2 fuel oil in this emissions unit.
- 2.** The maximum annual natural gas usage for emissions units B008, B009, B010 and B011, combined, shall not exceed 693 million cubic feet (mm cu. ft), based upon a rolling, 12-month summation of the monthly natural gas usage rates.
- 3.** The maximum annual no. 2 oil usage for emissions units B008, B009, B010 and B011, combined, shall not exceed 536,462 gallons, based upon a rolling, 12-month summation of the monthly no. 2 fuel oil usage rates.
- 4.** The quality of oil burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable SO₂ emission limitation specified in section A.1. above.

III. Monitoring and/or Record Keeping Requirements

1. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated 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. Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

2. The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The total amount of fuel burned in this emissions unit, in mm cu. ft of natural gas and in gallons of no. 2 fuel oil.
 - b. The monthly NO_x emissions, in tons, calculated as follows:
 - i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs NO_x/mm cu. ft of natural gas, and then divide by 2000;
 - ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 20 lbs NO_x/1000 gallons of no. 2 fuel oil, and then divide by 2000; and
 - iii. add 2.b.i + 2.b.ii.
 - c. The monthly SO₂ emissions, in tons, calculated as follows:
 - i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 0.6 lb SO₂/mm cu. ft of natural gas, and then divide by 2000;
 - ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 142 x S* lbs SO₂/1000 gallons of no. 2 fuel oil, and then divide by 2000; and
 - iii. add 2.c.i + 2.c.ii.

* S is the monthly volume-weighted average of the weight percent of sulfur in the oil. For example, if the fuel oil is 1% sulfur, then S = 1.

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

d. The monthly CO emissions, in tons, calculated as follows:

i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 84 lbs CO/mm cu. ft of natural gas, and then divide by 2000;

ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 5 lbs CO/1000 gallons of no. 2 fuel oil, and then divide by 2000; and

iii. add 2.d.i + 2.d.ii.

e. The monthly OC emissions, in tons, calculated as follows:

i. multiply the amount of natural gas employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 5.5 lbs OC/mm cu. ft of natural gas, and then divide by 2000;

ii. multiply the amount of no. 2 fuel oil employed (from section 2.a) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-3 (revised 9/98) emission factor of 0.2 lb OC/1000 gallons of no. 2 fuel oil, and then divide by 2000; and

iii. add 2.e.i + 2.e.ii.

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

a. the total amount of no. 2 fuel oil burned [calculated by adding the monthly usage rates (from section 2.a) for emissions units B008 - B011], in gallons;

b. the total amount of natural gas burned [calculated by adding the monthly usage rates (from section 2.a) for emissions units B008 - B011], in mm cu. ft;

c. the total monthly SO₂ emissions [calculated by adding the monthly SO₂ emission rates (from section 2.c.iii) for emissions units B008 - B011], in tons;

d. the total monthly NO_x emissions [calculated by adding the monthly NO_x emission rates (from section 2.b.iii) for emissions units B008 - B011], in tons;

e. the rolling, 12-month summation of the monthly no. 2 oil usage rates for emissions units B008, B009, B010 and B011, combined, in gallons;

f. the rolling, 12-month summation of the monthly natural gas usage rates for emissions units B008, B009, B010 and B011, combined, in mm cu. ft;

g. the rolling, 12-month summation of the monthly SO₂ emission rates for emissions units B008, B009, B010 and B011, combined, in tons; and

h. the rolling, 12-month summation of the monthly NO_x emission rates for emissions units B008, B009, B010 and B011, combined, in tons.

IV. Reporting Requirements

1. The permittee shall submit quarterly reports of the fuel supplier certifications to the Director (the appropriate Ohio EPA District Office or local air agency) which specify the following:
 - a. the name of the supplier; and
 - b. a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c, which states that distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 and 2, as defined by the American Society for Testing and Materials in ASTM D396-78, "Standard Specification for Fuel Oils."

These reports shall be submitted by January 31, April 30, July 31, and October 31 and shall cover the previous three calendar months. If no fuel oil is burned in this emissions unit during the calendar quarter, a statement to that effect shall be submitted.

2. 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.
3. The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month NO_x limitation of 45 tons for emissions units B008, B009, B010 and B011, combined;
 - b. all exceedances of the rolling, 12-month SO₂ limitation of 18.8 tons for emissions units B008, B009, B010 and B011, combined;
 - c. all exceedances of the rolling, 12-month natural gas usage restriction of 693 mm cu. ft for emissions units B008, B009, B010 and B011, combined; and
 - d. all exceedances of the rolling, 12-month no. 2 fuel oil usage restriction of 536,462 gallons for emissions units B008, B009, B010 and B011, combined.

These reports shall be submitted in accordance with paragraph A.1.c of the General Terms and Conditions of this permit.

4. The permittee shall submit annual reports that summarize the following information for this emissions unit:
 - a. the actual annual NO_x emissions, in tons;
 - b. the actual annual SO₂ emissions, in tons;
 - c. the actual annual CO emissions, in tons; and
 - d. the actual annual OC emissions, in tons.

These reports shall cover the previous calendar year and shall be submitted by January 31 of each year.

V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1 of these terms and conditions shall be determined in accordance with the following method(s):

V. Testing Requirements (continued)

- 1.a** Emission Limitation-
0.020 lb of PE/mmBtu of actual heat input
2.20 TPY of PE

Applicable Compliance Method-

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (mm cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/mm cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 2.0 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

Compliance with the annual emission limitation shall be assumed as long as compliance with the lb/mmBtu limitation is maintained (the annual limitation was calculated by multiplying the lb/mmBtu limitation by the maximum heat input capacity of the emissions unit and by 8760, and then dividing by 2000).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limit above pursuant to OAC rule 3745-17-03(B)(9).

- 1.b** Emission Limitations -
0.50 lb of SO₂/mmBtu of actual heat input
5.51 TPY of SO₂

Applicable Compliance Method -

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

If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis or if the sulfur content of each shipment of oil does not comply with the allowable emission limitation on an "as-burned" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil received during the calendar month.

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly SO₂ emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation in accordance with USEPA reference Method 6, Method 6A, Method 6B, or Method 6c, whichever is appropriate, of 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 1.c** Emission Limitations-
0.13 lb of NO_x/mmBtu of actual heat input (when burning natural gas)
0.14 lb of NO_x/mmBtu of actual heat input (when burning no. 2 fuel oil)
14.4 TPY of NO_x

Applicable Compliance Method-

For the use of natural gas, compliance may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (mm cu.ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-1 (revised 7/98) emission factor of 100 lbs NO_x/mm cu. ft of natural gas, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 20 lbs NO_x/1000 gallons of fuel oil, and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hr).

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly NO_x emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the lb/mmBtu limitations in accordance with Method 7, 40 CFR, Part 60, Appendix A.

- 1.d** Emission Limitation-
45 tons of NO_x/rolling, 12-month period (for emissions units B008, B009, B010 and B011, combined)

Applicable Compliance Method-

The permittee shall demonstrate compliance based upon the record keeping requirements in Section A.III of this permit.

- 1.e** Emission Limitation-
18.8 tons of SO₂/rolling, 12-month period (for emissions units B008, B009, B010 and B011, combined)

Applicable Compliance Method-

The permittee shall demonstrate compliance based upon the record keeping requirements in Section A.III of this permit.

- 1.f** Emission Limitations-
0.88 lb of CO/hr
3.85 TPY of CO

Applicable Compliance Method-

For the use of natural gas, compliance may be determined by multiplying the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 84 lbs CO/mm cu. ft by the maximum hourly natural gas usage (mm cu. ft/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 5 lbs CO/1000 gallons of fuel oil.

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly CO emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the hourly limitation in accordance with Method 10, 40 CFR, Part 60, Appendix A.

V. Testing Requirements (continued)

- 1.g** Emission Limitations-
0.14 lb of OC/hr
0.60 TPY of OC

Applicable Compliance Method -

For the use of natural gas, compliance may be determined by multiplying the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 5.5 lbs OC/mm cu. ft by the maximum hourly natural gas usage rate (mm cu. ft/hr).

For the use of no. 2 fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-3 (revised 9/98) emission factor of 0.2 lb OC/1000 gallons of fuel oil.

Compliance with the annual limitation shall be based upon the record keeping requirements specified in A.III.2 of this permit and shall be the summation of the 12 monthly OC emission rates for the calendar year.

If required, the permittee shall demonstrate compliance with the hourly limitation in accordance with Method 25, 40 CFR, Part 60, Appendix A.

- 1.h** Emission Limitation-
5% opacity limitation, as a six-minute average

Applicable Compliance Method-

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

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

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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