

Facility ID: 1409040243 Issuance type: Title V Final Permit

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In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. This facility is subject to the applicable requirements specified in OAC Chapter 3745-25. In accordance with Ohio EPA Engineering Guide #64, the emission control action programs, as specified in OAC rule 3745-25-03, shall be developed and submitted within 60 days after receiving notification from the Ohio EPA.
2. All asbestos renovation and demolition activities conducted at this facility shall be performed in accordance with the applicable requirements specified in 40 CFR Part 61 and OAC Chapter 3745-20.
3. Nitrogen Oxides (NOx) Budget Trading Program
 - OAC Chapter 3745-14
 - a. Office of Regulatory Information System Facility Code - 2917
 - b. The following regulated electrical generating unit is subject to the applicable requirements specified in OAC Chapter 3745-14. The annual NOx allowance allocation for this unit is determined in accordance with OAC rule 3745-14-05. The annual NOx allowance allocations for calendar years 2004 through 2007 are listed below:
 - . Annual Allowance for Annual Allowance for
 - . Calendar Years Calendar Years
 - Emissions Unit 2004 and 2005 2006 and 2007

B009 - Boiler #9 110 108
 - c. The emissions units identified in Section A.3.b above are NOx budget units under OAC rule 3745-14-01(C)(1).
[OAC rule 3745-14-01(C)(1)(a)(i)]
 - d. The NOx authorized account representative shall submit a complete NOx budget permit application in accordance with the deadlines specified in paragraphs (B)(2) and (B)(3) of OAC rule 3745-14-03. The NOx authorized account representative shall also submit, in a timely manner, any supplemental information that the Director determines is necessary in order to review a NOx budget permit application and issue or deny a NOx budget permit.
[OAC rules 3745-14-01(E)(1)(a)(i), 3745-14-01(E)(1)(a)(ii), and 3745-14-03(B)(1)]
 - e. Beginning May 31, 2004, the owners and operators of each NOx budget source and each NOx budget unit at the source shall hold NOx allowances available for compliance deductions under paragraph (E) of OAC rule 3745-14-06, as of the NOx allowance transfer deadline, in the unit's compliance account and the source's overdraft account in an amount not less than the total NOx emissions for the control period from the unit, as determined in accordance with OAC rule 3745-14-08, plus any amount necessary to account for actual utilization under paragraph (C)(5) of OAC rule 3745-14-05 for the control period.
[OAC rules 3745-14-01(E)(3)(a) and 3745-14-01(E)(3)(c)]
 - f. NOx allowances shall be held in, deducted from, or transferred among NOx allowance tracking system accounts in accordance with OAC rules 3745-14-05, 3745-14-06, 3745-14-07, and 3745-14-09.
[OAC rule 3745-14-01(E)(3)(d)]
 - g. A NOx allowance shall not be deducted, in order to comply with the requirement under paragraph (E)(3)(a) of OAC rule 3745-14-01, for a control period in a year prior to the year for which the NOx allowance was allocated.
[OAC rule 3745-14-01(E)(3)(e)]
 - h. Each ton of NOx emitted in excess of the NOx budget emission limitation, as defined in OAC rule 3745-14-

- 01(B)(2)(yy), shall constitute a separate violation of OAC Chapter 3745-14, the Clean Air Act, and applicable Ohio law. The owners and operators of a NOx budget unit that has excess emissions in any control period shall surrender the NOx allowances required for deduction under paragraph (E)(4)(a) of OAC rule 3745-14-06 and pay any fine, penalty, or assessment or comply with any other remedy imposed under paragraph (E)(4)(c) of OAC rule 3745-14-06.
[OAC rules 3745-14-01(E)(3)(b), 3745-14-01(E)(4)(a) and 3745-14-01(E)(4)(b)]
- i. hen recorded by the Administrator pursuant to OAC rules 3745-14-06 and 3745-14-07, every allocation, transfer, or deduction of a NOx allowance to or from a NOx budget unit's compliance account or the overdraft account of the source where the unit is located is deemed to amend automatically, and become a part of, any NOx budget permit of the NOx budget unit by operation of law without any further review.
[OAC rule 3745-14-01(E)(3)(h)]
- j. Except as provided below, the Director shall revise the NOx budget permit, as necessary, in accordance with OAC rule 3745-77-08.
- Each NOx budget permit is deemed to incorporate automatically the definitions of terms under paragraph (B) of OAC rule 3745-14-01 and, when recorded by the Administrator, in accordance with OAC rules 3745-14-06 and 3745-14-07, every allocation, transfer, or deduction of a NOx allowance to or from the compliance accounts of the NOx budget units covered by the permit or the overdraft account of the NOx budget source covered by the permit.
[OAC rules 3745-14-03(D)(2) and 3745-14-03(E)(1)]
- k. The owner or operator of a NOx budget unit shall comply with the prohibitions under OAC rule 3745-14-08 (A)(5).
[OAC rule 3745-14-08(A)(5)]
- l. The owners and operators of the NOx budget unit shall keep on site at the source each of the following documents for a period of five years from the date the document is created: (This period may be extended for cause, at any time prior to the end of five years, in writing by the Director or Administrator.)
- i. the account certificate of representation for the NOx authorized account representative for the NOx budget unit and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with paragraph (D) of OAC rule 3745-14-02, provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new account certificate or representation changing the NOx authorized account representative;
- ii. all emission monitoring information, in accordance with OAC rule 3745-14-08;
- iii. copies of all reports, compliance certifications, and other submissions and all records made or required under the NOx budget trading program; and
- iv. copies of all documents used to complete a NOx budget permit application and any other submission under the NOx budget trading program or to demonstrate compliance with the requirements of the NOx budget trading program.
[OAC rule 3745-14-01(E)(5)(a)(i) through (iv)]
- m. The permittee shall operate and maintain equipment to continuously monitor and record nitrogen oxides emissions from these emissions units in units of the applicable standard(s). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 75.
- Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software. This includes all systems required to monitor the NOx emission rate, NOx concentration, heat input rate, and stack flow rate, in accordance with 40 CFR Parts 75.71 and 75.72.
- The permittee shall comply with the initial and re-certification procedures of 40 CFR Part 75. The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous nitrogen oxides monitoring system has been certified in accordance with 40 CFR Part 75. The letter of certification shall be made available to the Director upon request.
- The permittee shall maintain records of the following data obtained by the continuous nitrogen oxides monitoring system: emissions of nitrogen oxides in lb/mmBtu actual heat input on an hourly average basis, emissions of nitrogen oxides in lbs/hr, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.
- Whenever the monitoring system fails to meet the quality assurance or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable procedures in Subpart D, Appendix D, or Appendix E of 40 CFR Part 75.
[OAC rules 3745-14-01(E)(2)(a), 3745-14-01(E)(5)(a)(ii), 3745-14-08(A)(2)(a) through (A)(2)(d), 3745-14-08(B)(1), and 3745-14-08(C)(1)]
- n. The permittee shall comply with the monitoring plan requirements of 40 CFR Part 75.62, except that the monitoring plan shall also include all of the information required by Subpart H of 40 CFR Part 75.
[OAC rule 3745-14-08(E)(2)(a)]

- o. The NOx authorized account representative of the NOx budget unit shall submit the reports and compliance certifications required under the NOx budget trading program, including those under OAC rules 3745-14-04 and 3745-14-08, to the Director and Administrator.
[OAC rule 3745-14-01(E)(5)(b)]
- p. Each submission under the NOx budget trading program shall be submitted, signed, and certified by the NOx authorized account representative for each NOx budget source on behalf of which the submission is made. Each such submission shall include the following certification statement by the NOx authorized account representative:
- "I am authorized to make this submission on behalf of the owners and operators of the NOx budget sources or NOx budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."
- If the NOx authorized account representative for a NOx budget unit subject to an acid rain emission limitation who signed and certified any submission that is made under Subpart F or G of 40 CFR Part 75 and which includes data and information required under OAC rule 3745-14-08 or Subpart H of 40 CFR Part 75 is not the same person as the designated representative or the alternate designated representative for the unit under 40 CFR Part 72, then the submission shall also be signed by the designated representative or the alternate designated representative.
[OAC rules 3745-14-02(A)(5) and 3745-14-08(E)(1)(b)]
- q. The NOx authorized account representative shall submit quarterly reports that include all of the data and information required in Subpart H of 40 CFR Part 75 for each NOx budget unit (or group of units using a common stack) and the data and information in Subpart G of 40 CFR Part 75. These quarterly excess emission reports shall be submitted by January 30, April 30, July 30 and October 30 of each year and shall be submitted in the manner specified in Subpart H of 40 CFR Part 75 and 40 CFR Part 75.64.
[OAC rules 3745-14-08(E)(4)(a) and 3745-14-08(E)(4)(c)(i)]
- r. The NOx authorized account representative shall submit to the Administrator a compliance certification in support of each quarterly report based on a reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The compliance certification shall state that:
- i. the monitoring data submitted were recorded in accordance with the applicable requirements of OAC rule 3745-14-08 and 40 CFR Part 75, including the quality assurance procedures and specifications; and
- ii. for a unit with add-on NOx emission controls and for all hours where data are substituted in accordance with 40 CFR Part 75.34(a)(1), the add-on emission control were operating within the range of parameters listed in the quality assurance program under Appendix B of 40 CFR Part 75 and the substitute values do not systematically underestimate the NOx emissions.
[OAC rule 3745-14-08(E)(4)(d)(i) and (ii)]
- s. The NOx authorized account representative for a NOx budget unit shall submit written notice of monitoring system certification and re-certification test dates to the Director and the Administrator in accordance with 40 CFR Part 75.61. The NOx authorized account representative shall submit a certification application to the Administrator, U.S. EPA, Region V Office, and the Director within forty-five days after completing all initial or re-certification tests required under paragraph (B) of OAC rule 3745-14-08, including the information required under Subpart H of 40 CFR Part 75.
[OAC rules 3745-14-08(D) and 3745-14-08(E)(3)]
- t. For each control period in which one or more NOx budget units at a source are subject to the NOx budget emission limitation, the NOx authorized account representative of the source shall submit to the Director and the Administrator, by November 30 of that year, a compliance certification report for each source covering all such units.
- The NOx authorized account representative shall include the following elements in the compliance certification report, in a format prescribed by the Administrator, concerning each unit at the source and subject to the NOx budget emission limitation for the control period covered by the report:
- i. identification of each NOx budget unit;
- ii. at the NOx authorized account representative's option, the serial numbers of the NOx allowances that are to be deducted from each unit's compliance account under paragraph (E) of OAC rule 3745-14-06 for the control period;
- iii. at the NOx authorized account representative's option, for units sharing a common stack and having NOx emissions that are not monitored separately or apportioned in accordance with OAC rule 3745-14-08, the percentage of allowances that is to be deducted from each unit's compliance account under paragraph (E)(5) of OAC rule 3745-14-06; and
- iv. the compliance certification under paragraph (A)(3) of OAC rule 3745-14-04.
[OAC rules 3745-14-04(A)(1) and 3745-14-04(A)(2)]

- u. In the compliance certification report under Section A.3.t.iv above, the NOx authorized account representative shall certify, based upon reasonable inquiry of those persons with the primary responsibility for operating the source and the NOx budget units at the source in compliance with the NOx budget trading program, whether each NOx budget unit for which the compliance certification is submitted was operated during the calendar year covered by the report in compliance with the requirements of the NOx budget trading program applicable to the unit, including all the following:
 - i. whether the unit was operated in compliance with the NOx budget emission limitation;
 - ii. whether the monitoring plan that governs the unit has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute NOx emissions to the unit, in accordance with OAC rule 3745-14-08;
 - iii. whether all the NOx emissions from the unit, or group of units (including the unit) using a common stack, were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with OAC rule 3745-14-08, and if conditional data were reported, the permittee shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report submissions have been made; and
 - iv. whether the facts that form the basis for certification under OAC rule 3745-14-08 of each monitor at the unit or group of units (including the unit) using a common stack, or for using an excepted monitoring method or alternative monitoring method approved under OAC rule 3745-14-08, if any, have changed.
 - u. If a change is required to be reported under Section A.3.u.iv above, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor re-certification.
[OAC rule 3745-14-04(A)(3)]
 - v. The NOx authorized account representative shall submit a complete NOx budget permit renewal application for the NOx budget source covering the NOx budget units at the source in accordance with paragraph (E) of OAC rule 3745-77-08.
[OAC rule 3745-14-03(B)(3)(a)]
 - w. The emission measurements recorded and reported in accordance with OAC rule 3745-14-08 shall be used to determine compliance by the unit with the NOx budget emission limitation under paragraph (E)(3) of OAC rule 3745-14-01.
[OAC rule 3745-14-01(E)(2)(b)]
 - x. The permittee shall develop and maintain a written quality assurance/quality control plan for each continuous NOx monitoring system designed to ensure continuous valid and representative readings of NOx emissions in units of the applicable standard. The plan shall follow the requirements of 40 CFR Part 75, Appendix B. The quality assurance/quality control plan and a logbook dedicated to the continuous NOx monitoring system must be kept on-site and available for inspection during regular office hours.
[OAC rules 3745-14-08(A)(2)(c) and 3745-14-08(A)(2)(d)]
4. Nitrogen Oxides (NOx) Budget Trading Program
- OAC Chapter 3745-14
- a. Office of Regulatory Information System Facility Code - 2917
 - b. The following regulated electrical generating unit is a NOx budget unit under the opt-in provisions of OAC rule 3745-14-09 and is subject to the applicable requirements specified in OAC Chapter 3745-14.

B008 - Boiler #8

[OAC rule 3745-14-09(E)(7)]
 - c. This emissions unit is subject to the requirements of sections A.3.e through A.3.u, A.3.w and A.3.x of these terms and conditions.
 - d. The NOx budget opt-in permit.
 - i. The NOx authorized account representative of a unit qualified under paragraph (A) of OAC rule 3745-14-09 may submit the following to the Director at any time a complete NOx budget permit application under paragraph (C) of OAC rule 3745-14-03, except as provided under paragraph (G)(7) of OAC rule 3745-14-09. (The permittee has submitted a complete NOx budget opt-in permit.)
 - ii. The NOx authorized account representative of a NOx budget opt-in unit shall submit a complete NOx budget permit application under paragraph (C) of OAC rule 3745-14-03 to renew the NOx budget opt-in permit in accordance with paragraph (B)(3) of OAC rule 3745-14-03 and, if applicable, an updated monitoring plan in accordance with OAC rule 3745-14-08.
[OAC rule 3745-14-09(D)]

- e. The permittee shall comply with the requirements of paragraph (G) of OAC rule 3745-14-09 when withdrawing this emissions unit from the NOx budget trading program.
[OAC rule 3745-14-09(G)]
- f. NOx allowance allocations to opt-in unit B008.
- i. NOx allowance allocation.
- (a) By April 1 immediately before the first control period for which the NOx budget opt-in permit is effective, the Director shall allocate NOx allowances to opt-in unit B008 and submit to the Administrator the allocation for the control period in accordance with section A.4.f.ii below.
- (b) By no later than April 1, after the first control period for which the NOx budget opt-in permit is in effect, and April 1 of each year thereafter, the Director shall allocate NOx allowances to opt-in unit B008, and submit to the Administrator allocations for the next control period, in accordance with section A.4.f.ii below.
- ii. For each control period for which opt-in unit B008 has an approved NOx budget opt-in permit, opt-in unit B008 shall be allocated NOx allowances in accordance with the following procedures:
- (a) The heat input (in mmBtu) used for calculating NOx allowance allocations shall be the lesser of:
- (i) the baseline heat input for opt-in unit B008 of 1,213,842 mmBtu, determined during the compliance period in 2003 pursuant to paragraph (E)(3) of OAC rule 3745-14-09; or
- (ii) the heat input for opt-in unit B008, as determined in accordance with OAC rule 3745-14-08, for the control period in the year prior to the year of the control period for which the NOx allocations are being calculated.
- (b) The Director shall allocate NOx allowances to opt-in unit B008 in an amount equaling the heat input (in mmBtu) determined under section A.4.f.ii.(a) above multiplied by the lesser of:
- (i) opt-in unit B008's baseline NOx emissions rate of 0.93 lb/mmBtu, determined pursuant to paragraph (E)(3) of OAC rule 3745-14-09; or
- (ii) the most stringent state or federal NOx emission limitation applicable to opt-in unit B008 during the control period.
[OAC rule 3745-14-09(I)]
5. The following insignificant emissions units are located at this facility:

F001 - plant roadways and parking areas;
 F002 - coal handling system;
 F003 - coal storage piles;
 F004 - ash handling system;
 T001 - 158,000-gallon fixed roof fuel oil storage tank;
 Z001 - 60 KW generator;
 Z002 - ash steam jet;
 Z006 - 330-gallon caustic soda storage tote;
 Z007 - 700-gallon sulfuric acid storage tank;
 Z008 - abrasive glass bead blaster;
 Z009 - detergent steam cleaner;
 Z010 - maintenance welding;
 Z011 - fly ash storage piles;
 Z012 - kerosene storage tank; and
 Z013 - lime storage system.

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

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b State Only Enforceable Section

1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirement (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:
- Z004 - TG lube oil system; and
 Z005 - miscellaneous chemical use.

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Facility ID: 1409040243 Emissions Unit ID: B001 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific 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>
Natural gas-fired boiler having a rated heat input capacity of 173 MMBtu/hr.	OAC rule 3745-18-15(M)(1)	Sulfur dioxide emissions shall not exceed 0.0 lb/MMBtu.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 lb/MMBtu of actual heat input.

2. **Additional Terms and Conditions**

- (a) None

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II. Operational Restrictions

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

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III. Monitoring and/or Record Keeping Requirements

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

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IV. Reporting Requirements

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

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V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

2. Emission Limitation:
 Particulate emissions shall not exceed 0.020 lb/MMBtu actual heat input.

 Applicable Compliance Method:
 Compliance may be determined by multiplying an emission factor of 1.9 lbs of particulates/MM standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (0.169 MM standard cu. ft./hr) and dividing by the emissions unit's rated heat input capacity (173 MMBtu/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

 If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).
3. Emission Limitation:
 Sulfur dioxide emissions shall not exceed 0.0 lb/MMBtu.

 Applicable Compliance Method:
 Pursuant to OAC rule 3745-18-04(F)(4), the sulfur dioxide emission rate for this emissions unit shall be considered to be equal to 0.0 lb/MMBtu if fired with natural gas fired which has a heat content greater than 950 Btu/scf and a sulfur content less than 0.6 lb/MMscf. Based upon information in the permittee's Title V application, the natural gas fired in this emissions unit satisfies the provisions of OAC rule 3745-18-04(F)(4).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1409040243 Emissions Unit ID: B001 Issuance type: Title V Final Permit

B. State Enforceable Section

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

1. None.

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

1. The specific 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>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

1. None

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III. **Monitoring and/or Record Keeping Requirements**

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1409040243 Emissions Unit ID: B002 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

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

1. The specific 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>
Natural gas-fired boiler having a rated heat input capacity of 305 MMBtu/hr.	OAC rule 3745-18-15(M)(1)	Sulfur dioxide emissions shall not exceed 0.0 lb/MMBtu.
	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 lb/MMBtu of actual heat input.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

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

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III. **Monitoring and/or Record Keeping Requirements**

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

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IV. **Reporting Requirements**

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

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V. **Testing Requirements**

1. Emission Limitation:
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. Emission Limitation:
Particulate emissions shall not exceed 0.020 lb/MMBtu actual heat input.

Applicable Compliance Method:
Compliance may be determined by multiplying an emission factor of 1.9 lbs of particulates/MM standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (0.289 MM standard cu. ft./hr) and dividing by the emissions unit's rated heat input capacity (305 MMBtu/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).
3. Emission Limitation:
Sulfur dioxide emissions shall not exceed 0.0 lb/MMBtu.

Applicable Compliance Method:
Pursuant to OAC rule 3745-18-04(F)(4), the sulfur dioxide emission rate for this emissions unit shall be considered to be equal to 0.0 lb/MMBtu if fired with natural gas fired which has a heat content greater than 950 Btu/scf and a sulfur content less than 0.6 lb/MMscf. Based upon information in the permittee's Title V application, the natural gas fired in this emissions unit satisfies the provisions of OAC rule 3745-18-04(F)(4).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1409040243 Emissions Unit ID: B002 Issuance type: Title V Final Permit

B. State Enforceable Section

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

1. None.

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

1. The specific 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>
2. Additional Terms and Conditions		
1. None		

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II. **Operational Restrictions**

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 1409040243 Emissions Unit ID: B003 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific 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>
Natural gas and distillate oil-fired (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil) stationary gas turbine having a rated heat input capacity of 186.63 MMBtu/hr (Turbine #1).	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(4)	Particulate emissions shall not exceed 0.040 lb/MMBtu of actual heat input.
	OAC rule 3745-18-15(M)(5)	Sulfur dioxide emissions shall not exceed 0.5 lb/MMBtu of actual heat input.

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

- 1. The permittee shall burn only natural gas and/or distillate oil in this emissions unit.

2. The quality of the oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 lb/MMBtu actual heat input.

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a prohibited fuel (i.e., one other than natural gas and/or distillate oil), the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the 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, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier. In lieu of performing on-site sampling, representative fuel analyses performed by fuel suppliers is acceptable.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a prohibited fuel (i.e., one other than natural gas and/or distillate oil) was burned in this emissions unit. Each report shall be submitted within 45 days after the deviation occurs.
2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

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V. Testing Requirements

1. **Emission Limitation:**
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. **Emission Limitation:**
Particulate emissions shall not exceed 0.040 lb/mmBtu actual heat input.

Applicable Compliance Method:
When firing distillate oil, compliance may be based upon an emission factor of 0.0043 lb/MMBtu. When firing natural gas, compliance may be based upon an emission factor of 0.0019 lb/MMBtu. These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (04/00).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).
3. **Emission Limitation:**
Sulfur dioxide emissions shall not exceed 0.5 lb/MMBtu actual heat input.

Applicable Compliance Method:
When firing distillate oil, compliance with the allowable sulfur dioxide emission limitation may be determined based upon the records required pursuant to Section A.III.2.

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

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

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1409040243 Emissions Unit ID: B003 Issuance type: Title V Final Permit

B. State Enforceable Section

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

- 1. None.

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

- 1. The specific 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>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

- 1. None

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III. **Monitoring and/or Record Keeping Requirements**

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1409040243 Emissions Unit ID: B004 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific 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>
Natural gas and distillate oil-fired (number 1 and number 2 fuel oil, kerosene and diesel fuel, but excluding number 4 fuel oil) stationary gas turbine having a rated heat input capacity of 250 MMBtu/hr (Turbine #2).	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(4)	Particulate emissions shall not exceed 0.040 lb/MMBtu of actual heat input.
	OAC rule 3745-18-15(M)(5)	Sulfur dioxide emissions shall not exceed 0.5 lb/MMBtu of actual heat input.

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

1. The permittee shall burn only natural gas and/or distillate oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall have a combination of heat and sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.5 lb/MMBtu actual heat input.

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III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a prohibited fuel (i.e., one other than natural gas and/or distillate oil), the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the 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, and the quality of the oil for those loads may be represented by a single batch analysis from the supplier. In lieu of performing on-site sampling, representative fuel analyses performed by fuel suppliers is acceptable.

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods (such as, ASTM methods D240 and D4294), or equivalent methods as approved by the Director.

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a prohibited fuel (i.e., one other than natural gas and/or distillate oil) was burned in this emissions unit. Each report shall be submitted within 45 days after the deviation occurs.
2. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.

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V. **Testing Requirements**

1. **Emission Limitation:**
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. **Emission Limitation:**
Particulate emissions shall not exceed 0.040 lb/mmBtu actual heat input.

Applicable Compliance Method:
When firing distillate oil, compliance may be based upon an emission factor of 0.0043 lb/MMBtu. When firing natural gas, compliance may be based upon an emission factor of 0.0019 lb/MMBtu. These emission factors are specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 3.1, Table 3.1-2a (04/00).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).
3. **Emission Limitation:**
Sulfur dioxide emissions shall not exceed 0.5 lb/MMBtu actual heat input.

Applicable Compliance Method:
When firing distillate oil, compliance with the allowable sulfur dioxide emission limitation may be determined based upon the records required pursuant to Section A.III.2.

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

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

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1409040243 Emissions Unit ID: B004 Issuance type: Title V Final Permit

B. State Enforceable Section

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

1. None.

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

1. The specific 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**

1. None

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II. **Operational Restrictions**

- 1. None

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III. **Monitoring and/or Record Keeping Requirements**

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1409040243 Emissions Unit ID: B008 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

- 1. None.

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

- 1. The specific 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>
Pulverized coal-fired boiler, having a rated heat input capacity of 305 MMBtu/hr and controlled with an electrostatic precipitator (ESP)	OAC rule 3745-18-15(M)(2)	Sulfur dioxide emissions shall not exceed 1.45 lbs/MMBtu of actual heat input.
	OAC rule 3745-17-07(A)(1)	See Section A.II.2 below.
	OAC rule 3745-17-10(C)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule. Particulate emissions shall not exceed 0.14 lb/MMBtu of actual heat input.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. The quality of the coal burned in this emissions unit shall have a combination of sulfur content and heat content sufficient to meet the sulfur dioxide emission limitation of 1.45 lbs/MMBtu of actual heat input.
2. The daily average operating rate for this emissions unit shall not exceed 312 MMBtu/hr.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect or require the coal supplier to collect a representative sample of coal for each shipment of coal which is received for burning in this emissions unit. The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal. At the end of each month, the representative samples of coal for all shipments of coal which were received during that month shall be combined into one composite sample.

Each monthly composite sample of coal shall be analyzed for sulfur content (percent) and heat content (Btu/pound of coal). The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the most recent version of the following ASTM methods: ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method D5865, Gross Calorific Value of Coal and Coke, respectively. Alternative, equivalent methods may be used upon written approval from the appropriate Ohio EPA District Office or local air agency.

2. The permittee shall maintain monthly records of the total quantity of coal burned and the results of the analyses for sulfur content and heat content and the calculated sulfur dioxide emission rate (in lbs/MMBtu) for all shipments of coal during a calendar month.
3. The permittee shall operate and maintain existing equipment to continuously monitor and record the opacity of particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13

Each continuous emission monitoring system consists of all equipment used to acquire data and includes the data recording/processing hardware and software.

The permittee shall maintain a certification letter from Ohio EPA documenting that the continuous opacity monitoring system has been certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous opacity monitoring system: percent opacity on a 6-minute block average basis, results of daily zero/span calibration checks and magnitude of manual calibration adjustments.

4. To obtain an exemption pursuant to OAC rule 3745-17-07(A)(3)(a)(i) or (A)(3)(b)(i), the permittee shall operate and maintain temperature monitors and recorders that measure and record the temperature of the boiler exhaust gases entering the ESPs during (a) all periods of start-up until the ESPs are operational or until the inlet temperatures of the ESPs achieve the temperature level specified in OAC rule 3745-17-07(A)(3)(a)(i) and (b) all periods of shutdown until the inlet temperatures of the ESPs drop below the temperature level specified in OAC rule 3745-17-07(A)(3)(b)(i). An electronic or hardcopy record of the temperatures during periods of start-up and shutdown shall be maintained.

The temperature monitors and recorders shall be installed, calibrated, operated, and maintained in accordance with manufacturer's recommendations, with any modifications deemed necessary by the permittee, and shall be capable of accurately measuring the temperature of the boiler exhaust gases in units of degrees Fahrenheit.

5. The permittee shall maintain daily records of the total actual heat input for this emissions unit, the total hours of operation, and the daily average operating rate (in MMBtu/hr).

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IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from Section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 45 days after the deviation occurs.
2. The permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the Hamilton County Department of Environmental Services documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07, detailing the date, commencement and completion times, duration, magnitude(percent opacity), reason (if known), and corrective action(s) taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

The reports shall also identify any excursions of the start-up and shutdown provisions specified in OAC rule 3745-17-07(A)(3) and document any continuous opacity monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

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

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

3. The permittee shall notify the Director (appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the daily average operating rate exceeds the applicable limitation. 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 exceedance occurs.

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V. Testing Requirements

1. The permittee shall conduct, or have conducted, particulate emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate of 0.14 lb/MMBtu of actual heat input in accordance with the following requirements:

The particulate emission testing shall be conducted within 6 months after issuance of this permit and within 6 months prior to permit expiration.

Compliance with the allowable mass emission rate for particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in OAC rule 3745-17-03(B)(9).

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

The permittee may conduct emission testing if Ohio EPA personnel are not present, as long as all required notifications have been made in accordance with this requirement and the Ohio EPA has waived its right to observe the emission testing.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

3. Emission Limitation:
Sulfur dioxide emissions shall not exceed 1.45 lbs/MMBtu of actual heat input.

Applicable Compliance Method:

Compliance may be determined by using the fuel analysis records required pursuant to Sections A.III.1 and A.III.2 and the applicable equation in OAC rule 3745-18-04(F).

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

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VI. Miscellaneous Requirements

1. None

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Facility ID: 1409040243 Emissions Unit ID: B008 Issuance type: Title V Final Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific 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>
Pulverized coal-fired boiler, having a rated heat input capacity of 305 MMBtu/hr and controlled with an electrostatic precipitator (ESP)		

2. Additional Terms and Conditions

1. None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. A logbook documenting activities relating to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1409040243 Emissions Unit ID: B009 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific 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>
Pulverized coal-fired boiler, having a rated heat input capacity of 729 MMBtu/hr and controlled with a lime injection/dry scrubber system and a baghouse. An electrostatic precipitator (ESP) will be used as the back-up control device if the baghouse is not in service. (See Section A.1.2.b below.)	OAC rule 3745-18-15(M)(3) and 40 CFR Part 60.43(a)(2)	Sulfur dioxide emissions shall not exceed 1.2 lbs/MMBtu actual heat input.
	40 CFR Part 60.44(a)(3)	Nitrogen oxides emissions shall not exceed 0.70 lb/MMBtu actual heat input.
	40 CFR Part 60.42(a)(2)	Visible particulate emissions shall not exceed 20% opacity (6-minute average), except for one 6-minute period per hour of not more than 27% opacity.
	OAC rule 3745-17-07(A)(1)	The visible particulate emission limitations specified in this rule are less stringent than the visible particulate emission limitation specified in 40 CFR Part 60.42(a)(2).
	40 CFR Part 60.42(a)(1)	Particulate emissions shall not exceed 0.10 lb/MMBtu actual heat input.
	OAC rule 3745-17-10(C)(1)	The particulate emission limitation specified in this rule is less stringent than the visible particulate emission limitation specified in 40 CFR Part 60.42(a)(1).
	OAC rule 3745-21-08(B)	See Section A.1.2.a below.
	OAC rule 3745-23-06(C)(3)	The nitrogen oxides emission limitation specified in OAC rule 3745-23-06(C)(3) is less stringent than the nitrogen oxides emission limitation specified in 40 CFR Part 60.44(a)(3).
	OAC rule 3745-31-05(A)(3) (PTI 18-011)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart D.
	OAC rule 3745-31-05(A)(3) (PTI 14-4614)	Organic compound emissions shall not exceed 1.94 lbs/hour and 8.5 TPY. Carbon monoxide emissions shall not exceed 16.2 lbs/hour and 71 TPY. Particulate emissions shall not exceed 319 TPY. Sulfur dioxide emissions shall not exceed 3832 TPY. Nitrogen oxides emissions shall not exceed 2235 TPY.

2. Additional Terms and Conditions

- a. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4614.
- (a) On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- b. The permittee may operate this emissions unit in accordance with any one of the following operating scenarios:
 - i. The emissions unit may be fired with low sulfur coal and the unit's exhaust emissions will be controlled with the baghouse or ESP. The lime injection/dry scrubber system would not be in service under this operating scenario.
 - ii. The emissions unit may be fired with high sulfur coal and the unit's exhaust emissions will be controlled with the lime injection/dry scrubber system and the baghouse or ESP. The lime feed rate

for this operating scenario will be determined based upon the data obtained from the sulfur dioxide continuous monitoring system.

iii. The emissions unit may be fired with a blend of high and low sulfur coal and the unit's exhaust emissions will be controlled with the lime injection/dry scrubber system and the baghouse or ESP. The lime feed rate for this operating scenario will be determined based upon the data obtained from the sulfur dioxide continuous monitoring system.

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II. Operational Restrictions

1. The quality of the coal burned in this emissions unit shall have a combination of sulfur content and heat content sufficient to meet the sulfur dioxide emission limitation of 1.2 lbs/MMBtu of actual heat input.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain existing equipment to continuously monitor and record the opacity of particulate emissions from this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13

Each continuous emission monitoring system consists of all equipment used to acquire data and includes the data recording/processing hardware and software.

The permittee shall maintain a certification letter from Ohio EPA documenting that the continuous opacity monitoring system has been certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous opacity monitoring system: percent opacity on a 6-minute block average basis, results of daily zero/span calibration checks and magnitude of manual calibration adjustments.

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

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous sulfur dioxide monitoring system has been certified in accordance with 40 CFR Part 60 and/or 40 CFR Part 75. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous sulfur dioxide monitoring system: emissions of sulfur dioxide in lb/MMBtu actual heat input on an hourly average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

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

Each continuous monitoring system consists of all the equipment used to acquire data and includes the sample extraction and transport hardware, sample conditioning hardware, analyzers, and data recording/processing hardware and software.

The permittee shall maintain on-site documentation from the USEPA or the Ohio EPA that the continuous nitrogen oxides monitoring system has been certified in accordance with 40 CFR Part 60 and/or 40 CFR Part 75. The letter of certification shall be made available to the Director upon request.

The permittee shall maintain records of the following data obtained by the continuous nitrogen oxides monitoring system: emissions of nitrogen oxides in lb/MMBtu actual heat input on an hourly average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

4. The permittee shall operate and maintain equipment to continuously monitor and record carbon dioxide from this emissions unit in percent carbon dioxide. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13 and/or 40 CFR Part 75.

The permittee shall maintain records of the following data obtained by the continuous carbon dioxide monitoring system: emissions of carbon dioxide in percent carbon dioxide on an hourly average basis, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments.

5. The permittee shall maintain daily records of the total actual heat input values as determined through F-Factor and carbon dioxide calculations as specified in 40 CFR Part 60, Appendix A, Method 19.

6. To obtain an exemption pursuant to OAC rule 3745-17-07(A)(3)(a)(i) or (A)(3)(b)(i), the permittee shall operate and maintain a temperature monitors and recorders that measure and record the temperature of the boiler exhaust gases entering the ESPs during (a) all periods of start-up until the ESPs are operational or until the inlet temperatures of the ESPs achieve the temperature level specified in OAC rule 3745-17-07(A)(3)(a)(i)

and (b) all periods of shutdown until the inlet temperatures of the ESPs drop below the temperature level specified in OAC rule 3745-17-07(A)(3)(b)(i). An electronic or hardcopy record of the temperatures during periods of start-up and shutdown shall be maintained.

The temperature monitors and recorders shall be installed, calibrated, operated, and maintained in accordance with manufacturer's recommendations, with any modifications deemed necessary by the permittee, and shall be capable of accurately measuring the temperature of the boiler exhaust gases in units of degrees Fahrenheit.

7. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping requirements specified above are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permits to Install # 18-011 and 14-4614: Sections A.III.1 through A.III.6. The monitoring and record keeping requirements contained in the above-referenced Permits to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permits to Install.

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IV. Reporting Requirements

1. The permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting all instances of opacity values in excess of the limitation specified in 40 CFR Part 60.42(a)(2), detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective action(s) taken (if any) of each 6-minute block average above the applicable opacity limitation.

The reports shall also identify any excursions of the start-up and shutdown provisions specified in OAC rule 3745-17-07(A)(3) and document any continuous opacity monitoring system downtime while the emissions unit was on line (date, time, duration and reason), along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and control equipment malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line shall be included in the quarterly report.

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

These quarterly excess emission reports shall be submitted by January 30, April 30, July 30 and October 30 of each year and shall address the data obtained during the previous calendar year.

2. The permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all 3-hour average sulfur dioxide values in excess of the applicable sulfur dioxide emission rate (lb/MMBtu).

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

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

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

3. The permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency documenting the date, commencement and completion time, duration, magnitude, reason (if known), and corrective actions taken (if any), of all 3-hour average nitrogen oxides values in excess of the applicable nitrogen oxides emission rate (lb/MMBtu).

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

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

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

4. The permittee shall also submit annual reports that specify the total organic compound, carbon monoxide, particulate, sulfur dioxide, and nitrogen oxides emissions from this emissions unit for the previous calendar year. The reports shall be submitted by January 31 of each year.
5. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the reporting requirements specified above are as stringent as or more stringent than the reporting requirements contained in Permits to Install # 18-011 and 14-4614: Sections A.IV.1 through A.IV.4. The reporting requirements contained in the above-referenced Permits to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permits to Install.

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V. Testing Requirements

1. The permittee shall conduct, or have conducted, particulate emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate of 0.10 lb/MMBtu of actual heat input in accordance with the following requirements:

The particulate emission testing shall be conducted within 6 months after issuance of this permit and within 6 months prior to permit expiration.

Compliance with the allowable mass emission rate for particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures in 40 CFR Part 60.46.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

The permittee may conduct emission testing if Ohio EPA personnel are not present, as long as all required notifications have been made in accordance with this requirement and the Ohio EPA has waived its right to observe the emission testing.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

The annual particulate emission limitation was established by multiplying the lb/MMBtu emission limitation by the emissions unit's maximum heat input rating by 8760 hours/year and dividing by 2000 lbs/ton. Therefore, provided that the permittee complies with the lb/MMBtu emission limitation compliance with the annual emission limitation will be ensured.

2. Compliance with the visible emission limitations in 40 CFR Part 60.42(a)(2) may be determined based upon the records required pursuant to Section A.III.1.

If required, the permittee shall demonstrate compliance with the visible emission limitations in 40 CFR Part 60.42(a)(2) in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures in 40 CFR Part 60.46.

3. Compliance with the 1.2 lbs/MMBtu actual heat input sulfur dioxide emission limitation may be based upon the records and report data specified in Sections A.III.2, A.III.5, and A.IV.2.

If required, the permittee shall demonstrate compliance with the allowable mass emission rate for sulfur dioxide in accordance with the methods and procedures specified in 40 CFR Part 60.46.

The annual sulfur dioxide emission limitation was established by multiplying the lb/MMBtu emission limitation by the emissions unit's maximum heat input rating by 8760 hours/year and dividing by 2000 lbs/ton. Therefore, provided that the permittee complies with the lb/MMBtu emission limitation compliance with the annual emission limitation will be ensured.

4. Compliance with the 0.70 lb/MMBtu actual heat input nitrogen oxides emission limitation shall be based upon the records and report data specified in Sections A.III.3, A.III.5, and A.IV.3.

If required, the permittee shall demonstrate compliance with the allowable mass emission rate for nitrogen oxides in accordance with the methods and procedures specified in 40 CFR Part 60.46.

The annual nitrogen oxides emission limitation was established by multiplying the lb/MMBtu emission limitation by the emissions unit's maximum heat input rating by 8760 hours/year and dividing by 2000 lbs/ton. Therefore, provided that the permittee complies with the lb/MMBtu emission limitation compliance with the annual emission limitation will be ensured.

5. Compliance with the hourly carbon monoxide emission limitation may be determined by multiplying the carbon monoxide emission factor (0.5 lb of CO/ton of coal) in AP-42 Section 1.1, Fifth Edition (Table 1.1-3) by the emissions unit's maximum anticipated coal usage rate of 32.383 tons/hour. The maximum anticipated

hourly coal usage rate was derived by dividing the emissions unit's maximum heat input rating of 729 MMBtu/hour by a coal heat content value of 11,256 Btu/lb (the heat content value referenced in permittee's air permit to install application number 14-4614, June 6, 1998).

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10 or other USEPA-approved methods.

The annual carbon monoxide emission limitation was established by multiplying the hourly emission limitation by 8760 hours/year and dividing by 2000 lbs/ton. Therefore, provided that the permittee complies with the hourly emission limitation compliance with the annual emission limitation will be ensured.

- 6. Compliance with the hourly organic compound emission limitation may be determined by multiplying the organic compound emission factor (0.06 lb of OC/ton of coal) in AP-42 Section 1.1, Fifth Edition (Table 1.1-19) by the emissions unit's maximum anticipated coal usage rate of 32.383 tons/hour. The maximum anticipated hourly coal usage rate was derived by dividing the emissions unit's maximum heat input rating of 729 MMBtu/hour by a coal heat content value of 11,256 Btu/lb (the heat content value referenced in permittee's air permit to install application number 14-4614, June 6, 1998).

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25 or other USEPA-approved methods.

The annual organic compound emission limitation was established by multiplying the hourly emission limitation by 8760 hours/year and dividing by 2000 lbs/ton. Therefore, provided that the permittee complies with the hourly emission limitation compliance with the annual emission limitation will be ensured.

- 7. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the testing requirements specified above are as stringent as or more stringent than the testing requirements contained in Permits to Install # 18-011 and 14-4614: Sections A.V.1 through A.V.6. The testing requirements contained in the above-referenced Permits to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permits to Install.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1409040243 Emissions Unit ID: B009 Issuance type: Title V Final Permit

B. State Enforceable Section

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

- 1. None.

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

- 1. The specific 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>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

- 1. None

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III. **Monitoring and/or Record Keeping Requirements**

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. A logbook(s) documenting activities relating to the continuous opacity, sulfur dioxide, and nitrogen oxides monitoring systems must be kept on site and available for inspection during regular office hours.

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 1409040243 Emissions Unit ID: B010 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific 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>
Natural gas-fired heat recovery boiler having a rated heat input capacity of 98 MMBtu/hr. See Section A.I.2.a below.	OAC rule 3745-31-05(A)(3) (PTI 14-3052)	The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart Dc and OAC rules 3745-17-07(A)(1), 3745-17-10(B)(1), and 3745-31-05(D).
	OAC rule 3745-31-05(D) (PTI 14-3052)	Particulate emissions shall not exceed 6.8 tons per rolling, 365-day period.
		PM10 emissions shall not exceed 2.5 tons per rolling, 365-day period.
		Carbon monoxide emissions shall not exceed 0.082 lb/MMBtu and 27.72 tons per rolling, 365-day period.
		Volatile organic compound emissions shall not exceed 0.0054 lb/MMBtu and 1.82 tons per rolling, 365-day period.
		Nitrogen oxides emissions shall not exceed 0.10 lb/MMBtu of actual heat input and 33 tons per rolling, 365-day period.
		Sulfur dioxide emissions shall not exceed 0.0006 lb/MMBtu of actual heat input and 0.2 ton per rolling, 365-day period.

40 CFR Part 60, Subpart Dc	See Sections A.I.2.b and A.II.1 below.
OAC rule 3745-17-07(A)(1)	See Section A.III.1 below.
OAC rule 3745-17-10(B)(1)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
OAC rule 3745-18-15(M)(4)	Particulate emissions shall not exceed 0.020 lb/MMBtu of actual heat input.
	The emission limitation specified in this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(D).

2. Additional Terms and Conditions

- a. This emissions unit receives exhaust gas from Gas Turbine No.2 (emissions unit B004) and supplements the recovered heat from emissions unit B004 through the firing of natural gas. The emission limitations specified for this emissions unit are only related to the firing of natural gas. If emission testing is required for any of the emission limitations, compliance shall be demonstrated by subtracting the emissions in the outlet duct for emissions unit B004 (i.e., inlet to this emissions unit) from the emissions in the outlet duct for this emissions unit.
- b. The rolling, 365-day particulate, PM10, carbon monoxide, volatile organic compound, sulfur dioxide, and nitrogen oxides emission limitations were established using current AP-42 emission factors (except for the particulate emission limitation which is based upon the emission limitation in OAC rule 3745-17-10 (B)(1)), the heat content of natural gas (1026 Btu/cu. ft.), and the restricted natural gas usage limitation (660 million cu. ft/rolling, 365-day period.) Provided that the permittee complies with the restricted natural gas usage limitation and the applicable AP-42 emission factors (or the particulate emission limitation specified in OAC rule 3745-17-10(B)(1)) are not increased, compliance with the rolling, 365-day emission limitations will be demonstrated. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to ensure compliance with these emission limitations.

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II. Operational Restrictions

1. The maximum natural gas usage for this emissions unit shall not exceed 660 million cubic feet per rolling, 365-day period.
2. The permittee shall burn only natural gas and exhaust gas from emissions unit B004 in this emissions unit.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record on a daily basis the following information:
 - a. the amount of natural gas burned, in cubic feet; and
 - b. the rolling, 365-day summation of the natural gas burned (the summation of the information contained in A.III.1.a for the previous 365 days).
2. For each day during which the permittee burns a fuel other than natural gas and exhaust gas from emissions unit B004, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
3. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping requirements specified above are as stringent as or more stringent than the monitoring and record keeping requirements contained in Permit to Install # 14-3052: Sections A.III.1 and A.III.2. The monitoring and record keeping requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping requirements in the Permit to Install.

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IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedances of the rolling, 365-day natural gas usage limitation. The quarterly deviation reports shall be submitted in accordance with General Term and Condition A.1.c.ii.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and exhaust gas from emissions unit B004 was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
3. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the reporting requirements specified above are as stringent as or more stringent than the reporting requirements contained in Permit to Install # 14-3052: Sections A.IV.1 and A.IV.2. The reporting requirements contained in the above-referenced Permit to Install are subsumed into the reporting requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying reporting requirements in the Permit to Install.

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V. **Testing Requirements**

1. **Emission Limitation:**
Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with this emission limitation through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. **Emission Limitation:**
Particulate emissions shall not exceed 0.020 lb/MMBtu actual heat input.

Applicable Compliance Method:
Compliance may be determined by multiplying an emission factor of 1.9 lbs of particulate/MM standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (0.0957 MM cu. ft./hr), and dividing by the emissions unit's rated heat input capacity (98 MMBtu/hr). The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with this emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and procedures specified in OAC rule 3745-17-03(B)(10).
3. **Emission Limitations:**
Nitrogen oxides emissions shall not exceed 0.10 lb/MMBtu of actual heat input and 33 tons per rolling, 365-day period.

Applicable Compliance Method:
Compliance with the lb/MMBtu emission limitation may be determined by multiplying an emission factor of 100 lbs of nitrogen oxides/MM standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (0.0957 MM cu. ft./hr), and dividing by the emissions unit's rated heat input capacity (98 MMBtu/hr). The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1 (2/98).

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7 or other USEPA-approved methods.

Compliance with the annual emission limitation shall be based upon the emission factor referenced above and the records required pursuant to Section A.III.
4. **Emission Limitation:**
Particulate emissions shall not exceed 6.8 tons per rolling, 365-day period.

Applicable Compliance Method:
Compliance with this emission limitation shall be based upon using an emission factor of 1.9 lbs of particulate/MM standard cu. ft. of natural gas fired and the natural gas usage records required pursuant to Section A.III. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).
5. **Emission Limitation:**
PM10 emissions shall not exceed 2.5 tons per rolling, 365-day period.

Applicable Compliance Method:
Compliance with this emission limitation shall be based upon using an emission factor of 7.6 lbs of particulate/MM standard cu. ft. of natural gas fired and the natural gas usage records required pursuant to Section A.III. The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).
6. **Emission Limitations:**
Carbon monoxide emissions shall not exceed 0.082 lb/MMBtu and 27.72 tons per rolling, 365-day period.

Applicable Compliance Method:
Compliance with the lb/MMBtu emission limitation may be determined by multiplying an emission factor of 84 lbs of carbon monoxide/MM standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (0.0957 MM cu. ft./hr), and dividing by the emissions unit's rated heat input capacity (98 MMBtu/hr). The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1 (2/98).

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 10 or other USEPA-approved methods.

Compliance with the annual emission limitation shall be based upon the emission factor referenced above and the records required pursuant to Section A.III.
7. **Emission Limitations:**
Sulfur dioxide emissions shall not exceed 0.0006 lb/MMBtu of actual heat input and 0.2 ton per rolling, 365-day period.

Applicable Compliance Method:

Compliance with the lb/MMBtu emission limitation may be determined by multiplying an emission factor of 0.6 lb of sulfur dioxide/MM standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (0.0957 MM cu. ft./hr), and dividing by the emissions unit's rated heat input capacity (98 MMBtu/hr). The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-1 (2/98).

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6 or other USEPA-approved methods.

Compliance with the annual emission limitation shall be based upon the emission factor referenced above and the records required pursuant to Section A.III.

8. Emission Limitations:
Volatile organic compound emissions shall not exceed 0.0054 lb/MMBtu and 1.82 tons per rolling, 365-day period.

Applicable Compliance Method:

Compliance with the lb/MMBtu emission limitation may be determined by multiplying an emission factor of 5.5 lbs of volatile organic compounds/MM standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (0.0957 MM cu. ft./hr), and dividing by the emissions unit's rated heat input capacity (98 MMBtu/hr). The emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 25 or other USEPA-approved methods.

Compliance with the annual emission limitation shall be based upon the emission factor referenced above and the records required pursuant to Section A.III.

9. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the testing requirements specified above are as stringent as or more stringent than the testing requirements contained in Permit to Install # 14-3052: Sections A.V.1 through A.V.8. The testing requirements contained in the above-referenced Permit to Install are subsumed into the testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying testing requirements in the Permit to Install.

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VI. **Miscellaneous Requirements**

1. None

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B. State Enforceable Section

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

1. None.

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

1. The specific 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>
2. Additional Terms and Conditions			
1.	None		

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II. **Operational Restrictions**

1. None

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III. **Monitoring and/or Record Keeping Requirements**

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None