



State of Ohio Environmental Protection Agency

Street Address:

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

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

09/29/00

CERTIFIED MAIL

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

04-48-01-0247

Medical College of Ohio at Toledo

Attn: Genevieve Damico AR-18J
United States Environmental Protection Agency
Region V
77 West Jackson Blvd.
Chicago, IL 60604-3590

Dear Ms. Damico:

The proposed **Significant Permit Modification** issuance of the Title V permit for Medical College of Ohio at Toledo, has been created in Ohio EPA's State Air Resources System (STARS) on 09/29/00, for review by USEPA. This proposed action is identified in STARS as  3-Title V Proposed Permit T+C covering the facility specific terms and conditions, and  Title V Proposed Permit covering the general terms and conditions. This proposed permit will be processed for issuance as a final action after forty-five (45) days from USEPA's receipt of this certified letter if USEPA does not object to the proposed permit. Please contact Mike Ahern, DAPC Permit Management Unit supervisor at (614) 644-3631 by the end of the forty-five (45) day review period if you wish to object to the proposed permit.

Very truly yours,



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

cc: Toledo Div of Environmental Services
Becky Castle, DAPC PMU

Ohio EPA

State of Ohio Environmental Protection Agency

TITLE V PERMIT

Date: 09/29/00

PROPOSED

Effective Date:

Expiration Date:

This document constitutes issuance to:

Medical College of Ohio at Toledo
348 South Erie Street
Toledo, OH 43602-1633

of a Title V permit for Facility ID: 04-48-01-0247

Emissions Unit ID (Company ID)/

Emissions Unit Activity Description:

B001 (Boiler No. 1)

Wickes 53.3 MMBTU/HR Coal Fired Boiler

B002 (Boiler No. 2)

Wickes 93.3 MMBTU/HR Coal Fired Boiler

B003 (Boiler No. 3)

Wickes 93.3 MMBTU/HR Coal/Natural Gas Fired Boiler

B004 (Boiler No. 4)

Keeler 93.3 MMBTU/HR Coal Fired Boiler

P001 (Powerhse Generator)

Powerhouse diesel generator-900kw-Peak shaving

P101 (Hospital-1 Gen)

Teaching Hospital diesel generator no. 1-750kw-Peak shaving

P102 (Hospital-2 Gen)

Teaching Hospital diesel generator no. 2-750kw-Peak shaving

P105 (Health Sci Gen)

Health Science/Health Ed. diesel generator-750kw-Peak shaving

You will be contacted approximately eighteen (18) months prior to the expiration date regarding the renewal of this permit. If you are not contacted, please contact the appropriate Ohio EPA District Office or local air agency listed below. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-04(A) and in accordance

with the terms of this permit beyond the expiration date, provided that a complete renewal application is submitted no earlier than eighteen (18) months and no later than one-hundred eighty (180) days prior to the expiration date.

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

Toledo Div of Environmental Services
(419) 936-3015

OHIO ENVIRONMENTAL PROTECTION AGENCY

Christopher Jones
Director

PART I - GENERAL TERMS AND CONDITIONS

A. State and Federally Enforceable Section

1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - i. The date, place (as defined in the permit), and time of sampling or measurements.
 - ii. The date(s) analyses were performed.
 - iii. The company or entity that performed the analyses.
 - iv. The analytical techniques or methods used.
 - v. The results of such analyses.
 - vi. The operating conditions existing at the time of sampling or measurement.
- b. Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - i. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
 - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. These quarterly written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the submission of monitoring reports every six months and OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of all deviations except malfunctions, which shall be reported in accordance with OAC rule 3745-15-06. The written reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.) See B.8 below if no deviations occurred during the quarter.
 - iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the appropriate Ohio EPA District Office or local air agency every six months, i.e., by January 31 and July 31 of each year for the previous six calendar months. These semi-annual written reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(i) and (ii) pertaining to the reporting of any deviations related to the monitoring, recordkeeping, and reporting

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

- iv. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

2. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports submitted pursuant to OAC rule 3745-15-06 shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c)(iii) pertaining to the prompt reporting of deviations caused by malfunctions or upsets.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

4. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

5. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

6. General Requirements

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.

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

7. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

8. Marketable Permit Programs

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

9. Reasonably Anticipated Operating Scenarios

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

10. Reopening for Cause

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

- a. Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b. This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.

- c. The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d. The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

11. Federal and State Enforceability

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

12. Compliance Requirements

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

the appropriate Ohio EPA District Office or local air agency in the following manner and with the following content:

- i. Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted on or before April 30th of each year during the permit term.
- ii. Compliance certifications shall include the following:
 - (a) An identification of each term or condition of this permit that is the basis of the certification.
 - (b) The permittee's current compliance status.
 - (c) Whether compliance was continuous or intermittent.
 - (d) The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - (e) Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
- iii. Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

13. Permit Shield

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

14. Operational Flexibility

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

15. Emergencies

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

16. Off Permit Changes

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

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

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

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

17. Compliance Method Requirements

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

B. State Only Enforceable Section

1. Permit to Install Requirement

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

2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

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

3. Records Retention Requirements

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

4. Inspections and Information Requests

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

5. Scheduled Maintenance/Malfunction Reporting

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

6. Permit Transfers

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

7. Air Pollution Nuisance

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

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

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

Part II - Specific Facility Terms and Conditions

A. State and Federally Enforcable Section

None

B. State Only Enforceable Section

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

- F001 - roads
- F002 - coal storage
- F003 - coal receiving
- G001 - gas dispensing
- P103 - health center generator
- P104 - Dowling Hall generator
- Z001 - ash system
- Z002 - tank 1
- Z003 - tank 2
- Z004 - tank 3
- Z005 - tank 4
- Z008 - tank 7
- Z012 - lab fume hoods
- Z013 - dietary-TMHC generator
- Z014 - GMC generator
- Z015 - lime silo vent
- Z016 - byproduct silo unloader
- Z018 - coroner generator
- Z019 - coroner generator tank

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

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler No. 1 (B001)
Activity Description: Wickes 53.3 MMBTU/HR Coal Fired Boiler

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Wickes 53.3 million Btu per hour coal-fired boiler with electrostatic precipitator, or rapid absorption sulfur dioxide scrubber and nitrogen oxides reduction system and baghouse	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10(C)(1)	0.14 pound of particulate emissions per million Btu of actual heat input
	OAC rule 3745-18-54(P)	1.5 pounds of sulfur dioxide (SO ₂) emissions per million Btu of actual heat input from the electrostatic precipitator stack

2. Additional Terms and Conditions

- 2.a When the exhaust gases from this emissions unit exit through the scrubber stack, the combined emissions from boilers #1 through #4 (OEPA emissions units B001 through B004) shall not exceed 1.1 pounds of SO₂ per million Btu of actual heat input.

This emissions limitation is necessary to protect the National Ambient Air Quality Standards (NAAQS) for SO₂ because of the different release parameters inherent in the recently installed control technology (SO₂ scrubber), i.e., stack height, stack diameter, exhaust gas temperature.

II. Operational Restrictions

1. When the exhaust gases from this emissions unit exit through the electrostatic precipitator stack, the quality of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004) shall be restricted to a sulfur content which is sufficient to comply with the allowable SO₂ emission limitation of 1.5 pounds of SO₂ per million Btu input [as determined by calculations performed in accordance with OAC 3745-18-04(F)(1)].

III. Monitoring and/or Record Keeping Requirements

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

The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (1-minute) and 6-minute block average basis, the results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

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

2. A statement of certification of the existing continuous opacity monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. Proof of certification shall be made available to the Director upon request.
3. Within 60 days of the effective date of this permit, the permittee shall operate and maintain the continuous opacity monitoring system equipment to continuously monitor and record the opacity of the particulate emissions from the SO₂ scrubber serving this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (one-minute) basis and 6-minute block average basis, the results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

4. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.
5. Within 60 days of the effective date of this permit, the permittee shall install, operate, and maintain equipment to continuously monitor and record the SO₂ emissions from the SO₂ scrubber controlling boilers #1 through #4 (OEPA emissions units B001 through B004). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous SO₂ monitoring system including, but not limited to, parts per million SO₂ on a once every 15-minute basis, emissions of SO₂ in units of the applicable standard in the appropriate averaging period (pounds per million Btu of actual heat input, as a daily average and as a 30-day rolling, weighted average), the results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

6. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous SO₂ monitoring system designed to ensure continuous valid and representative readings of SO₂. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous SO₂ monitoring system must be kept on site and available for inspection during regular office hours.
7. The permittee shall maintain daily records that document any time periods when the exhaust gases from this emissions unit exit through the electrostatic precipitator stack when the emissions unit was in operation and burning coal.

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

8. At any time during which the exhaust gases from this emissions unit exit through the electrostatic precipitator stack while the emissions unit is in operation and burning coal, the permittee shall collect representative grab samples of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004). Sampling shall occur within 1 hour of commencing operation without the scrubber system and at a frequency of once every 6 hours thereafter. Each sample shall be collected from the coal storage bunker(s) feeding the operating emissions unit(s). The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal. At the end of each calendar month, all of the grab samples collected during that calendar month shall be combined into one composite sample.

Each monthly composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal). The analytical methods for ash content, sulfur content, and heat content shall be: ASTM method D3174, Ash in the Analysis of Coal and Coke; 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 D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isooperibol Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

9. At any time during which the exhaust gases from this emissions unit exit through the electrostatic precipitator stack while the emissions unit is in operation and burning coal, the permittee shall maintain monthly records of the total quantity of coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004), the results of the analyses for ash content, sulfur content, and heat content, and the calculated SO₂ emission rate (in pounds per million Btu) for each month.

IV. Reporting Requirements

1. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting all instances of opacity values from the electrostatic precipitator stack 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 actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

The permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting any continuous opacity monitoring system(s) downtime while the emissions unit was on line and vented through the electrostatic precipitator (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time while vented through the electrostatic precipitator 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 and vented through the electrostatic precipitator 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 emissions unit operating time while vented through the electrostatic precipitator during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system(s) malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line and vented through the electrostatic precipitator 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.

2. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting all instances of opacity values from the SO₂ scrubber system 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 actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

IV. Reporting Requirements (continued)

The permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting any continuous opacity monitoring system(s) downtime while the emissions unit was on line and vented through the SO₂ scrubber system (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time while vented through the SO₂ scrubber system 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 and vented through the scrubber system 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 emissions unit operating time while vented through the scrubber system during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system(s) malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line and vented through the SO₂ scrubber system 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. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the Toledo Division of Environmental Services documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO₂ emission values from the SO₂ scrubber system in excess of the applicable 1.1 pounds per million Btu limitation, the 30-day rolling, weighted average SO₂ emission rates, and the daily average SO₂ emission rates (in units of pounds of SO₂ per million Btus of actual heat input).

The permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting any continuous SO₂ monitoring system downtime while the emissions unit was on line and vented through the SO₂ scrubber system (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time while vented through the scrubber system 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 and vented through the SO₂ scrubber system 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 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, control equipment, and/or monitoring system malfunctions. 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. Quarterly reports shall be submitted concerning the quality and quantity of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004) while the exhaust gases exited through the electrostatic precipitator stack. These reports shall include the following information for the emissions unit(s) for each calendar month during the calendar quarter:
 - a. the total quantity of coal burned (tons);
 - b. the average ash content (percent) of the coal burned;
 - c. the average sulfur content (percent) of the coal burned;
 - d. the average heat content (Btu/pound) of the coal burned; and
 - e. the average sulfur dioxide emissions rate (pounds sulfur dioxide/mmBtu actual heat input) from the coal burned.

These quarterly reports shall be submitted to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(1). This emissions unit will be considered to be in compliance if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004) do not exceed 20% opacity as a 6-minute average.

1.b Emission Limitation:

0.14 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through stack testing performed in accordance with the method(s) and procedures specified in OAC rule 3745-17-03(B)(9). This emissions unit will be considered to be in compliance if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions unit B001 through B004) do not exceed 0.14 pound of particulate emissions per million Btu input.

1.c Emission Limitation:

1.1 pounds of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of sections A.III.5 through A.III.7. This emissions unit will be considered to be in compliance if the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.1 pounds of sulfur dioxide emissions per million Btu input, and the daily average emission rate of SO₂ in any one day does not exceed 1.5 times this limit, for the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004). If required the permittee shall also demonstrate compliance with this limitation in accordance with the method(s) and procedures specified in OAC rule 3745-18-04(D).

1.d Emission Limitation:

1.5 pounds of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of sections A.III.8 and A.III.9. This emissions unit will be considered to be in compliance if the 30-day rolling, weighted average emission rate while the exhaust gases exited through the electrostatic precipitator stack does not exceed 1.5 pounds of sulfur dioxide emissions per million Btu input for the combined emissions from boilers #1 through #4 (OEPA emissions units B001 through B004). If required, the permittee shall also demonstrate compliance with this limitation in accordance with the method(s) and procedures specified in OAC rule 3745-18-04(D) and/or calculations performed in accordance with OAC rule 3745-18-04(F)(1).

V. Testing Requirements (continued)

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing of the SO₂ scrubber system shall be conducted within 3 months after start-up of the system.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulate and SO₂ emissions.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A; and for SO₂, Method 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the combined steam production from boilers #1 through #4 (OEPA emissions units B001 through B004) is at or near the maximum system capacity of 90,000 pounds per hour, unless otherwise specified or approved by the Toledo Division of Environmental Services.
 - e. This emissions unit will be considered to be in compliance for particulate emissions if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004) do not exceed 0.14 pound of particulate emissions per million Btu input.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. 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 Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Toledo Division of Environmental Services 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 Toledo Division of Environmental Services.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing of the ESP shall be conducted within 3 months after start-up of the system.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulate and SO₂ emissions.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A; and for SO₂, Method 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the combined steam production from boilers #1 through #4 (OEPA emissions units B001 through B004) is at or near the maximum system capacity, unless otherwise specified or approved by the Toledo Division of Environmental Services.
 - e. This emissions unit will be considered to be in compliance for particulate emissions if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004) do not exceed 0.14 pound of particulate emissions per million Btu input.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. 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 Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Toledo Division of Environmental Services 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 Toledo Division of Environmental Services.

4. Within 60 days of reaching a full load, but no later than 180 days after start up, the permittee shall conduct certification tests on the scrubber system continuous opacity monitoring system equipment pursuant to ORC section 3704.03(l) and 40 CFR Part 60, Appendix B, Performance Specification 1. Personnel from the Toledo Division of Environmental Services shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. Two copies of the test results shall be submitted to the Toledo Division of Environmental Services pursuant to OAC rule 3745-15-04 within 30 days after the test is completed. Certification of the continuous opacity monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(l), and 40 CFR Part 60, Appendix B, Performance Specification 1, including section 5.1.9 (mandatory).
5. Within 60 days of reaching a full load, but no later than 180 days after start up, the permittee shall conduct certification tests of the continuous SO₂ monitoring system pursuant to ORC section 3704.03(l) and 40 CFR Part 60, Appendix B, Performance Specification 2. The test(s) shall be conducted while the combined steam production from boilers #1 through #4 (OEPA emissions units B001 through B004) is at or near the maximum system capacity of 90,000 pounds per hour, unless otherwise specified or approved by the Toledo Division of Environmental Services. Personnel from the Toledo Division of Environmental Services shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Toledo Division of Environmental Services within 30 days after the test is completed. Copies of the test results shall be sent to the Toledo Division of Environmental Services and the Ohio EPA, Central Office. Certification of the continuous SO₂ monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(l) and 40 CFR Part 60, Appendix B, Performance Specification 2.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Wickes 53.3 million Btu per hour coal-fired boiler with electrostatic precipitator, or rapid absorption sulfur dioxide scrubber and nitrogen oxide reduction system with baghouse	none	none

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler No. 2 (B002)
Activity Description: Wickes 93.3 MMBTU/HR Coal Fired Boiler

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Wickes 93.3 million Btu per hour coal-fired boiler with electrostatic precipitator, or rapid absorption sulfur dioxide scrubber and nitrogen oxides reduction system and baghouse	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10(C)(1)	0.14 pound of particulate emissions per million Btu of actual heat input
	OAC rule 3745-18-54(P)	1.5 pounds of sulfur dioxide (SO ₂) emissions per million Btu of actual heat input from the electrostatic precipitator stack

2. Additional Terms and Conditions

- 2.a When the exhaust gases from this emissions unit exit through the scrubber stack, the combined emissions from boilers #1 through #4 (OEPA emissions units B001 through B004) shall not exceed 1.1 pounds of SO₂ per million Btu of actual heat input.

This emissions limitation is necessary to protect the National Ambient Air Quality Standards (NAAQS) for SO₂ because of the different release parameters inherent in the recently installed control technology (SO₂ scrubber), i.e., stack height, stack diameter, exhaust gas temperature.

II. Operational Restrictions

1. When the exhaust gases from this emissions unit exit through the electrostatic precipitator stack, the quality of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004) shall be restricted to a sulfur content which is sufficient to comply with the allowable SO₂ emission limitation of 1.5 pounds of SO₂ per million Btu input [as determined by calculations performed in accordance with OAC 3745-18-04(F)(1)].

III. Monitoring and/or Record Keeping Requirements

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

The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (1-minute) and 6-minute block average basis, the results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

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

2. A statement of certification of the existing continuous opacity monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. Proof of certification shall be made available to the Director upon request.
3. Within 60 days of the effective date of this permit, the permittee shall operate and maintain the continuous opacity monitoring system equipment to continuously monitor and record the opacity of the particulate emissions from the SO₂ scrubber serving this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (one-minute) basis and 6-minute block average basis, the results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

4. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.
5. Within 60 days of the effective date of this permit, the permittee shall install, operate, and maintain equipment to continuously monitor and record the SO₂ emissions from the SO₂ scrubber controlling boilers #1 through #4 (OEPA emissions units B001 through B004). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous SO₂ monitoring system including, but not limited to, parts per million SO₂ on a once every 15-minute basis, emissions of SO₂ in units of the applicable standard in the appropriate averaging period (pounds per million Btu of actual heat input, as a daily average and as a 30-day rolling, weighted average), the results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

6. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous SO₂ monitoring system designed to ensure continuous valid and representative readings of SO₂. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous SO₂ monitoring system must be kept on site and available for inspection during regular office hours.
7. The permittee shall maintain daily records that document any time periods when the exhaust gases from this emissions unit exit through the electrostatic precipitator stack when the emissions unit was in operation and burning coal.

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

- At any time during which the exhaust gases from this emissions unit exit through the electrostatic precipitator stack while the emissions unit is in operation and burning coal, the permittee shall collect representative grab samples of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004). Sampling shall occur within 1 hour of commencing operation without the scrubber system and at a frequency of once every 6 hours thereafter. Each sample shall be collected from the coal storage bunker(s) feeding the operating emissions unit(s). The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal. At the end of each calendar month, all of the grab samples collected during that calendar month shall be combined into one composite sample.

Each monthly composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal). The analytical methods for ash content, sulfur content, and heat content shall be: ASTM method D3174, Ash in the Analysis of Coal and Coke; 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 D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isooperibol Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

- At any time during which the exhaust gases from this emissions unit exit through the electrostatic precipitator stack while the emissions unit is in operation and burning coal, the permittee shall maintain monthly records of the total quantity of coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004), the results of the analyses for ash content, sulfur content, and heat content, and the calculated SO₂ emission rate (in pounds per million Btu) for each month.

IV. Reporting Requirements

- Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting all instances of opacity values from the electrostatic precipitator stack 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 actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

The permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting any continuous opacity monitoring system(s) downtime while the emissions unit was on line and vented through the electrostatic precipitator (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time while vented through the electrostatic precipitator 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 and vented through the electrostatic precipitator 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 emissions unit operating time while vented through the electrostatic precipitator during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system(s) malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line and vented through the electrostatic precipitator 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.

- Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting all instances of opacity values from the SO₂ scrubber system 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 actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

IV. Reporting Requirements (continued)

The permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting any continuous opacity monitoring system(s) downtime while the emissions unit was on line and vented through the SO₂ scrubber system (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time while vented through the SO₂ scrubber system 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 and vented through the scrubber system 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 emissions unit operating time while vented through the scrubber system during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system(s) malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line and vented through the SO₂ scrubber system 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. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the Toledo Division of Environmental Services documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO₂ emission values from the SO₂ scrubber system in excess of the applicable 1.1 pounds per million Btu limitation, the 30-day rolling, weighted average SO₂ emission rates, and the daily average SO₂ emission rates (in units of pounds of SO₂ per million Btus of actual heat input).

The permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting any continuous SO₂ monitoring system downtime while the emissions unit was on line and vented through the SO₂ scrubber system (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time while vented through the scrubber system 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 and vented through the SO₂ scrubber system 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 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, control equipment, and/or monitoring system malfunctions. 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. Quarterly reports shall be submitted concerning the quality and quantity of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004) while the exhaust gases exited through the electrostatic precipitator stack. These reports shall include the following information for the emissions unit(s) for each calendar month during the calendar quarter:
 - a. the total quantity of coal burned (tons);
 - b. the average ash content (percent) of the coal burned;
 - c. the average sulfur content (percent) of the coal burned;
 - d. the average heat content (Btu/pound) of the coal burned; and
 - e. the average sulfur dioxide emissions rate (pounds sulfur dioxide/mmBtu actual heat input) from the coal burned.

These quarterly reports shall be submitted to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(1). This emissions unit will be considered to be in compliance if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004) do not exceed 20% opacity as a 6-minute average.

1.b Emission Limitation:

0.14 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through stack testing performed in accordance with the method(s) and procedures specified in OAC rule 3745-17-03(B)(9). This emissions unit will be considered to be in compliance if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions unit B001 through B004) do not exceed 0.14 pound of particulate emissions per million Btu input.

1.c Emission Limitation:

1.1 pounds of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of sections A.III.5 through A.III.7. This emissions unit will be considered to be in compliance if the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.1 pounds of sulfur dioxide emissions per million Btu input, and the daily average emission rate of SO₂ in any one day does not exceed 1.5 times this limit, for the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004). If required the permittee shall also demonstrate compliance with this limitation in accordance with the method(s) and procedures specified in OAC rule 3745-18-04(D).

1.d Emission Limitation:

1.5 pounds of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of sections A.III.8 and A.III.9. This emissions unit will be considered to be in compliance if the 30-day rolling, weighted average emission rate while the exhaust gases exited through the electrostatic precipitator stack does not exceed 1.5 pounds of sulfur dioxide emissions per million Btu input for the combined emissions from boilers #1 through #4 (OEPA emissions units B001 through B004). If required, the permittee shall also demonstrate compliance with this limitation in accordance with the method(s) and procedures specified in OAC rule 3745-18-04(D) and/or calculations performed in accordance with OAC rule 3745-18-04(F)(1).

V. Testing Requirements (continued)

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing of the SO₂ scrubber system shall be conducted within 3 months after start-up of the system.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulate and SO₂ emissions.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A; and for SO₂, Method 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the combined steam production from boilers #1 through #4 (OEPA emissions units B001 through B004) is at or near the maximum system capacity of 90,000 pounds per hour, unless otherwise specified or approved by the Toledo Division of Environmental Services.
 - e. This emissions unit will be considered to be in compliance for particulate emissions if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004) do not exceed 0.14 pound of particulate emissions per million Btu input.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. 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 Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Toledo Division of Environmental Services 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 Toledo Division of Environmental Services.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing of the ESP shall be conducted within 3 months after start-up of the system.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulate and SO₂ emissions.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A; and for SO₂, Method 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the combined steam production from boilers #1 through #4 (OEPA emissions units B001 through B004) is at or near the maximum system capacity, unless otherwise specified or approved by the Toledo Division of Environmental Services.
 - e. This emissions unit will be considered to be in compliance for particulate emissions if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004) do not exceed 0.14 pound of particulate emissions per million Btu input.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. 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 Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Toledo Division of Environmental Services 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 Toledo Division of Environmental Services.

4. Within 60 days of reaching a full load, but no later than 180 days after start up, the permittee shall conduct certification tests on the scrubber system continuous opacity monitoring system equipment pursuant to ORC section 3704.03(l) and 40 CFR Part 60, Appendix B, Performance Specification 1. Personnel from the Toledo Division of Environmental Services shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. Two copies of the test results shall be submitted to the Toledo Division of Environmental Services pursuant to OAC rule 3745-15-04 within 30 days after the test is completed. Certification of the continuous opacity monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(l), and 40 CFR Part 60, Appendix B, Performance Specification 1, including section 5.1.9 (mandatory).
5. Within 60 days of reaching a full load, but no later than 180 days after start up, the permittee shall conduct certification tests of the continuous SO₂ monitoring system pursuant to ORC section 3704.03(l) and 40 CFR Part 60, Appendix B, Performance Specification 2. The test(s) shall be conducted while the combined steam production from boilers #1 through #4 (OEPA emissions units B001 through B004) is at or near the maximum system capacity of 90,000 pounds per hour, unless otherwise specified or approved by the Toledo Division of Environmental Services. Personnel from the Toledo Division of Environmental Services shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Toledo Division of Environmental Services within 30 days after the test is completed. Copies of the test results shall be sent to the Toledo Division of Environmental Services and the Ohio EPA, Central Office. Certification of the continuous SO₂ monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(l) and 40 CFR Part 60, Appendix B, Performance Specification 2.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Wickes 93.3 million Btu per hour coal-fired boiler with electrostatic precipitator, or rapid absorption sulfur dioxide scrubber and nitrogen oxide reduction system with baghouse	none	none

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler No. 3 (B003)

Activity Description: Wickes 93.3 MMBTU/HR Coal/Natural Gas Fired Boiler

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Wickes 93.3 million Btu per hour coal-fired boiler with electrostatic precipitator, or rapid absorption sulfur dioxide scrubber and nitrogen oxides reduction system and baghouse	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10(B)(1)	0.020 pound of particulate emissions per million Btu of actual heat input through the combustion of natural gas
	OAC rule 3745-17-10(C)(1)	0.14 pound of particulate emissions per million Btu of actual heat input
	OAC rule 3745-18-54(P)	1.5 pounds of sulfur dioxide (SO ₂) emissions per million Btu of actual heat input from the electrostatic precipitator stack

2. Additional Terms and Conditions

- When the exhaust gases from this emissions unit exit through the scrubber stack, the combined emissions from boilers #1 through #4 (OEPA emissions units B001 through B004) shall not exceed 1.1 pounds of SO₂ per million Btu of actual heat input.

This emissions limitation is necessary to protect the National Ambient Air Quality Standards (NAAQS) for SO₂ because of the different release parameters inherent in the recently installed control technology (SO₂ scrubber), i.e., stack height, stack diameter, exhaust gas temperature.

II. Operational Restrictions

- When the exhaust gases from this emissions unit exit through the electrostatic precipitator stack, the quality of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004) shall be restricted to a sulfur content which is sufficient to comply with the allowable SO₂ emission limitation of 1.5 pounds of SO₂ per million Btu input [as determined by calculations performed in accordance with OAC 3745-18-04(F)(1)].
- The electrostatic precipitator and SO₂ scrubber system may be by-passed when combusting natural gas if compliance with the allowable particulate emission limitation is maintained.

III. Monitoring and/or Record Keeping Requirements

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

The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (1-minute) and 6-minute block average basis, the results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

2. A statement of certification of the existing continuous opacity monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. Proof of certification shall be made available to the Director upon request.

3. Within 60 days of the effective date of this permit, the permittee shall operate and maintain the continuous opacity monitoring system equipment to continuously monitor and record the opacity of the particulate emissions from the SO₂ scrubber serving this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (one-minute) basis and 6-minute block average basis, the results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

4. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.

5. Within 60 days of the effective date of this permit, the permittee shall install, operate, and maintain equipment to continuously monitor and record the SO₂ emissions from the SO₂ scrubber controlling boilers #1 through #4 (OEPA emissions units B001 through B004). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous SO₂ monitoring system including, but not limited to, parts per million SO₂ on a once every 15-minute basis, emissions of SO₂ in units of the applicable standard in the appropriate averaging period (pounds per million Btu of actual heat input, as a daily average and as a 30-day rolling, weighted average), the results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

6. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous SO₂ monitoring system designed to ensure continuous valid and representative readings of SO₂. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous SO₂ monitoring system must be kept on site and available for inspection during regular office hours.

7. The permittee shall maintain daily records that document any time periods when the exhaust gases from this emissions unit exit through the electrostatic precipitator stack when the emissions unit was in operation and burning coal.

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

8. At any time during which the exhaust gases from this emissions unit exit through the electrostatic precipitator stack while the emissions unit is in operation and burning coal, the permittee shall collect representative grab samples of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004). Sampling shall occur within 1 hour of commencing operation without the scrubber system and at a frequency of once every 6 hours thereafter. Each sample shall be collected from the coal storage bunker(s) feeding the operating emissions unit(s). The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal. At the end of each calendar month, all of the grab samples collected during that calendar month shall be combined into one composite sample.

Each monthly composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal). The analytical methods for ash content, sulfur content, and heat content shall be: ASTM method D3174, Ash in the Analysis of Coal and Coke; 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 D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isooperibol Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

9. At any time during which the exhaust gases from this emissions unit exit through the electrostatic precipitator stack while the emissions unit is in operation and burning coal, the permittee shall maintain monthly records of the total quantity of coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004), the results of the analyses for ash content, sulfur content, and heat content, and the calculated SO₂ emission rate (in pounds per million Btu) for each month.

IV. Reporting Requirements

1. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting all instances of opacity values from the electrostatic precipitator stack 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 actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

The permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting any continuous opacity monitoring system(s) downtime while the emissions unit was on line and vented through the electrostatic precipitator (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time while vented through the electrostatic precipitator 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 and vented through the electrostatic precipitator 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 emissions unit operating time while vented through the electrostatic precipitator during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system(s) malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line and vented through the electrostatic precipitator 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.

2. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting all instances of opacity values from the SO₂ scrubber system 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 actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

IV. Reporting Requirements (continued)

The permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting any continuous opacity monitoring system(s) downtime while the emissions unit was on line and vented through the SO₂ scrubber system (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time while vented through the SO₂ scrubber system 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 and vented through the scrubber system 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 emissions unit operating time while vented through the scrubber system during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system(s) malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line and vented through the SO₂ scrubber system 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. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the Toledo Division of Environmental Services documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO₂ emission values from the SO₂ scrubber system in excess of the applicable 1.1 pounds per million Btu limitation, the 30-day rolling, weighted average SO₂ emission rates, and the daily average SO₂ emission rates (in units of pounds of SO₂ per million Btus of actual heat input).

The permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting any continuous SO₂ monitoring system downtime while the emissions unit was on line and vented through the SO₂ scrubber system (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time while vented through the scrubber system 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 and vented through the SO₂ scrubber system 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 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, control equipment, and/or monitoring system malfunctions. 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. Quarterly reports shall be submitted concerning the quality and quantity of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004) while the exhaust gases exited through the electrostatic precipitator stack. These reports shall include the following information for the emissions unit(s) for each calendar month during the calendar quarter:
 - a. the total quantity of coal burned (tons);
 - b. the average ash content (percent) of the coal burned;
 - c. the average sulfur content (percent) of the coal burned;
 - d. the average heat content (Btu/pound) of the coal burned; and
 - e. the average sulfur dioxide emissions rate (pounds sulfur dioxide/mmBtu actual heat input) from the coal burned.

These quarterly reports shall be submitted to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(1). This emissions unit will be considered to be in compliance if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004) do not exceed 20% opacity as a 6-minute average.

1.b Emission Limitation:

0.020 pound of particulate emissions per million Btu of actual heat input through the combustion of natural gas

Applicable Compliance Method:

Compliance shall be demonstrated based upon the AP-42 emission factor for natural gas combustion of 1.9 pounds of particulate emissions per million standard cubic feet of natural gas (0.002 pound of particulate emissions per million Btu input and 1,020 Btu per standard cubic foot of natural gas, Table 1.4-2, dated 3/98). If required, the permittee shall also demonstrate compliance with this limitation through stack testing performed in accordance with the method(s) and procedures specified in OAC rule 3745-17-03(B)(9).

1.c Emission Limitation:

0.14 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through stack testing performed in accordance with the method(s) and procedures specified in OAC rule 3745-17-03(B)(9). This emissions unit will be considered to be in compliance if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions unit B001 through B004) do not exceed 0.14 pound of particulate emissions per million Btu input.

1.d Emission Limitation:

1.1 pounds of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of sections A.III.5 through A.III.7. This emissions unit will be considered to be in compliance if the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.1 pounds of sulfur dioxide emissions per million Btu input, and the daily average emission rate of SO₂ in any one day does not exceed 1.5 times this limit, for the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004). If required the permittee shall also demonstrate compliance with this limitation in accordance with the method(s) and procedures specified in OAC rule 3745-18-04(D).

V. Testing Requirements (continued)

1.e Emission Limitation:

1.5 pounds of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of sections A.III.8 and A.III.9. This emissions unit will be considered to be in compliance if the 30-day rolling, weighted average emission rate while the exhaust gases exited through the electrostatic precipitator stack does not exceed 1.5 pounds of sulfur dioxide emissions per million Btu input for the combined emissions from boilers #1 through #4 (OEPA emissions units B001 through B004). If required, the permittee shall also demonstrate compliance with this limitation in accordance with the method(s) and procedures specified in OAC rule 3745-18-04(D) and/or calculations performed in accordance with OAC rule 3745-18-04(F)(1).

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

a. The emission testing of the SO₂ scrubber system shall be conducted within 3 months after start-up of the system.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulate and SO₂ emissions.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A; and for SO₂, Method 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

d. The test(s) shall be conducted while the combined steam production from boilers #1 through #4 (OEPA emissions units B001 through B004) is at or near the maximum system capacity of 90,000 pounds per hour, unless otherwise specified or approved by the Toledo Division of Environmental Services.

e. This emissions unit will be considered to be in compliance for particulate emissions if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004) do not exceed 0.14 pound of particulate emissions per million Btu input.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. 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 Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Toledo Division of Environmental Services 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 Toledo Division of Environmental Services.

V. Testing Requirements (continued)

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing of the ESP shall be conducted within 3 months after start-up of the system.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulate and SO₂ emissions.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A; and for SO₂, Method 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the combined steam production from boilers #1 through #4 (OEPA emissions units B001 through B004) is at or near the maximum system capacity, unless otherwise specified or approved by the Toledo Division of Environmental Services.
 - e. This emissions unit will be considered to be in compliance for particulate emissions if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004) do not exceed 0.14 pound of particulate emissions per million Btu input.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. 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 Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Toledo Division of Environmental Services 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 Toledo Division of Environmental Services.

4. Within 60 days of reaching a full load, but no later than 180 days after start up, the permittee shall conduct certification tests on the scrubber system continuous opacity monitoring system equipment pursuant to ORC section 3704.03(l) and 40 CFR Part 60, Appendix B, Performance Specification 1. Personnel from the Toledo Division of Environmental Services shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. Two copies of the test results shall be submitted to the Toledo Division of Environmental Services pursuant to OAC rule 3745-15-04 within 30 days after the test is completed. Certification of the continuous opacity monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(l), and 40 CFR Part 60, Appendix B, Performance Specification 1, including section 5.1.9 (mandatory).

V. Testing Requirements (continued)

5. Within 60 days of reaching a full load, but no later than 180 days after start up, the permittee shall conduct certification tests of the continuous SO₂ monitoring system pursuant to ORC section 3704.03(l) and 40 CFR Part 60, Appendix B, Performance Specification 2. The test(s) shall be conducted while the combined steam production from boilers #1 through #4 (OEPA emissions units B001 through B004) is at or near the maximum system capacity of 90,000 pounds per hour, unless otherwise specified or approved by the Toledo Division of Environmental Services. Personnel from the Toledo Division of Environmental Services shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Toledo Division of Environmental Services within 30 days after the test is completed. Copies of the test results shall be sent to the Toledo Division of Environmental Services and the Ohio EPA, Central Office. Certification of the continuous SO₂ monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(l) and 40 CFR Part 60, Appendix B, Performance Specification 2.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Wickes 93.3 million Btu per hour coal-fired boiler with electrostatic precipitator, or rapid absorption sulfur dioxide scrubber and nitrogen oxide reduction system with baghouse	none	none

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Boiler No. 4 (B004)
Activity Description: Keeler 93.3 MMBTU/HR Coal Fired Boiler

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Keeler 93.3 million Btu per hour coal-fired boiler with electrostatic precipitator, or rapid absorption sulfur dioxide scrubber and nitrogen oxides reduction system and baghouse	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-10(C)(1)	0.14 pound of particulate emissions per million Btu of actual heat input
	OAC rule 3745-18-54(P)	1.6 pounds of sulfur dioxide (SO ₂) emissions per million Btu of actual heat input from the electrostatic precipitator stack

2. Additional Terms and Conditions

- 2.a When the exhaust gases from this emissions unit exit through the scrubber stack, the combined emissions from boilers #1 through #4 (OEPA emissions units B001 through B004) shall not exceed 1.1 pounds of SO₂ per million Btu of actual heat input.

This emissions limitation is necessary to protect the National Ambient Air Quality Standards (NAAQS) for SO₂ because of the different release parameters inherent in the recently installed control technology (SO₂ scrubber), i.e., stack height, stack diameter, exhaust gas temperature.
- 2.b Pursuant to OAC rule 3745-17-10, the total heat input for B004 is derated from 93.3 mmBtu/hr to 80.3 mmBtu/hr. (The derated total heat input of 80.3 mmBtu/hr corresponds to a steam load of 66,000 pounds per hour.) Using the derated total heat input for B001 - B004, the allowable particulate emission rate for B004 remains unchanged at 0.14 pound per million Btu.

II. Operational Restrictions

1. When the exhaust gases from this emissions unit exit through the electrostatic precipitator stack, the quality of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004) shall be restricted to a sulfur content which is sufficient to comply with the allowable SO₂ emission limitation of 1.6 pounds of SO₂ per million Btu input [as determined by calculations performed in accordance with OAC 3745-18-04(F)(1)].

II. Operational Restrictions (continued)

2. The heat input rate for this emissions unit shall not exceed 80.3 million Btu per hour. This is based on the heat input rate during the most recent stack test which demonstrated compliance with the allowable mass emission rate for particulates. The permittee may increase the allowable heat input rate by demonstrating compliance during a stack test, performed in accordance with the procedures and method(s) as detailed in OAC rule 3745-17-03(B)(9), at the higher heat input rate.
3. At no time shall the steam flow rate from B004 exceed 66,000 pounds per hour (as an average over any one-hour period).

III. Monitoring and/or Record Keeping Requirements

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

The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (1-minute) and 6-minute block average basis, the results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

2. A statement of certification of the existing continuous opacity monitoring system shall be maintained on site and shall consist of a letter from the Ohio EPA detailing the results of an Agency review of the certification tests and a statement by the Agency that the system is considered certified in accordance with the requirements of 40 CFR Part 60, Appendix B, Performance Specification 1. Proof of certification shall be made available to the Director upon request.
3. Within 60 days of the effective date of this permit, the permittee shall operate and maintain the continuous opacity monitoring system equipment to continuously monitor and record the opacity of the particulate emissions from the SO₂ scrubber serving this emissions unit. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous opacity monitoring system including, but not limited to, percent opacity on an instantaneous (one-minute) basis and 6-minute block average basis, the results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

4. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous opacity monitoring system designed to ensure continuous valid and representative readings of opacity. The plan shall include, as a minimum, conducting and recording daily automatic zero/span checks, provisions for conducting a quarterly audit of the continuous opacity monitoring system, and a description of preventive maintenance activities. The plan shall describe step by step procedures for ensuring that sections 7.1.4, 7.4.1, 7.4.2, and Table 1-1 of Performance Specification 1 are maintained on a continuous basis. The quality assurance/quality control plan and a logbook dedicated to the continuous opacity monitoring system must be kept on site and available for inspection during regular office hours.
5. Within 60 days of the effective date of this permit, the permittee shall install, operate, and maintain equipment to continuously monitor and record the SO₂ emissions from the SO₂ scrubber controlling boilers #1 through #4 (OEPA emissions units B001 through B004). Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.13.

The permittee shall maintain records of all data obtained by the continuous SO₂ monitoring system including, but not limited to, parts per million SO₂ on a once every 15-minute basis, emissions of SO₂ in units of the applicable standard in the appropriate averaging period (pounds per million Btu of actual heat input, as a daily average and as a 30-day rolling, weighted average), the results of daily zero/span calibration checks, and the magnitude of manual calibration adjustments.

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

6. Within 180 days of the effective date of this permit, the permittee shall develop a written quality assurance/quality control plan for the continuous SO₂ monitoring system designed to ensure continuous valid and representative readings of SO₂. The plan shall follow the requirements of 40 CFR Part 60, Appendix F. The quality assurance/quality control plan and a logbook dedicated to the continuous SO₂ monitoring system must be kept on site and available for inspection during regular office hours.
7. The permittee shall maintain daily records that document any time periods when the exhaust gases from this emissions unit exit through the electrostatic precipitator stack when the emissions unit was in operation and burning coal.
8. At any time during which the exhaust gases from this emissions unit exit through the electrostatic precipitator stack while the emissions unit is in operation and burning coal, the permittee shall collect representative grab samples of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004). Sampling shall occur within 1 hour of commencing operation without the scrubber system and at a frequency of once every 6 hours thereafter. Each sample shall be collected from the coal storage bunker(s) feeding the operating emissions unit(s). The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal. At the end of each calendar month, all of the grab samples collected during that calendar month shall be combined into one composite sample.

Each monthly composite sample of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal). The analytical methods for ash content, sulfur content, and heat content shall be: ASTM method D3174, Ash in the Analysis of Coal and Coke; 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 D2015, Gross Calorific Value of Solid Fuel by the Adiabatic Bomb Calorimeter, ASTM method D3286, Gross Calorific Value of Coal and Coke by the Isothermal Bomb Calorimeter, or ASTM method D1989, Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isooperibol Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.

9. At any time during which the exhaust gases from this emissions unit exit through the electrostatic precipitator stack while the emissions unit is in operation and burning coal, the permittee shall maintain monthly records of the total quantity of coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004), the results of the analyses for ash content, sulfur content, and heat content, and the calculated SO₂ emission rate (in pounds per million Btu) for each month.
10. The permittee shall continuously monitor and record the steam flow rate from B004.

IV. Reporting Requirements

1. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting all instances of opacity values from the electrostatic precipitator stack 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 actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

IV. Reporting Requirements (continued)

The permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting any continuous opacity monitoring system(s) downtime while the emissions unit was on line and vented through the electrostatic precipitator (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time while vented through the electrostatic precipitator 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 and vented through the electrostatic precipitator 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 emissions unit operating time while vented through the electrostatic precipitator during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system(s) malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line and vented through the electrostatic precipitator 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.

2. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting all instances of opacity values from the SO₂ scrubber system 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 actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

The permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting any continuous opacity monitoring system(s) downtime while the emissions unit was on line and vented through the SO₂ scrubber system (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time while vented through the SO₂ scrubber system 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 and vented through the scrubber system 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 emissions unit operating time while vented through the scrubber system during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit, control equipment, and/or monitoring system(s) malfunctions. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line and vented through the SO₂ scrubber system 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. Pursuant to 40 CFR Parts 60.7 and 60.13(h), the permittee shall submit reports within 30 days following the end of each calendar quarter to the Toledo Division of Environmental Services documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective actions taken (if any), of all instances of SO₂ emission values from the SO₂ scrubber system in excess of the applicable 1.1 pounds per million Btu limitation, the 30-day rolling, weighted average SO₂ emission rates, and the daily average SO₂ emission rates (in units of pounds of SO₂ per million Btus of actual heat input).

The permittee shall submit reports to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter documenting any continuous SO₂ monitoring system downtime while the emissions unit was on line and vented through the SO₂ scrubber system (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time while vented through the scrubber system 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 and vented through the SO₂ scrubber system shall also be included in the quarterly report.

IV. Reporting Requirements (continued)

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with 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, control equipment, and/or monitoring system malfunctions. 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. Quarterly reports shall be submitted concerning the quality and quantity of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004) while the exhaust gases exited through the electrostatic precipitator stack. These reports shall include the following information for the emissions unit(s) for each calendar month during the calendar quarter:
 - a. the total quantity of coal burned (tons);
 - b. the average ash content (percent) of the coal burned;
 - c. the average sulfur content (percent) of the coal burned;
 - d. the average heat content (Btu/pound) of the coal burned; and
 - e. the average sulfur dioxide emissions rate (pounds sulfur dioxide/mmBtu actual heat input) from the coal burned.

These quarterly reports shall be submitted to the Toledo Division of Environmental Services within 30 days following the end of each calendar quarter.

5. If, for any reason, the steam flow rate from B004 exceeds 66,000 pounds per hour, the following information shall be reported within 5 business days after the exceedance:
 - a. the date of the exceedance;
 - b. the time interval over which the exceedance occurred;
 - c. the value of the exceedance;
 - d. the cause(s) of the exceedance;
 - e. the corrective action which has been or will be taken to prevent similar exceedances in the future; and
 - f. a copy of the steam chart which shows the exceedance.

V. Testing Requirements

1. Compliance with the emission limitations in sections A.I.1 and A.I.2 of these terms and conditions shall be determined in accordance with the following methods:

- 1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance through visible emissions readings performed in accordance with OAC rule 3745-17-03(B)(1). This emissions unit will be considered to be in compliance if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004) do not exceed 20% opacity as a 6-minute average.

V. Testing Requirements (continued)

1.b Emission Limitation:

0.14 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through stack testing performed in accordance with the method(s) and procedures specified in OAC rule 3745-17-03(B)(9). This emissions unit will be considered to be in compliance if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions unit B001 through B004) do not exceed 0.14 pound of particulate emissions per million Btu input.

1.c Emission Limitation:

1.1 pounds of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of sections A.III.5 through A.III.7. This emissions unit will be considered to be in compliance if the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.1 pounds of sulfur dioxide emissions per million Btu input, and the daily average emission rate of SO₂ in any one day does not exceed 1.5 times this limit, for the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004). If required the permittee shall also demonstrate compliance with this limitation in accordance with the method(s) and procedures specified in OAC rule 3745-18-04(D).

1.d Emission Limitation:

1.6 pounds of sulfur dioxide emissions per million Btu of actual heat input

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of sections A.III.8 and A.III.9. This emissions unit will be considered to be in compliance if the 30-day rolling, weighted average emission rate while the exhaust gases exited through the electrostatic precipitator stack does not exceed 1.6 pounds of sulfur dioxide emissions per million Btu input for the combined emissions from boilers #1 through #4 (OEPA emissions units B001 through B004). If required, the permittee shall also demonstrate compliance with this limitation in accordance with the method(s) and procedures specified in OAC rule 3745-18-04(D) and/or calculations performed in accordance with OAC rule 3745-18-04(F)(1).

V. Testing Requirements (continued)

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing of the SO₂ scrubber system shall be conducted within 3 months after start-up of the system.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulate and SO₂ emissions.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A; and for SO₂, Method 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the combined steam production from boilers #1 through #4 (OEPA emissions units B001 through B004) is at or near the maximum system capacity of 90,000 pounds per hour, unless otherwise specified or approved by the Toledo Division of Environmental Services.
 - e. This emissions unit will be considered to be in compliance for particulate emissions if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004) do not exceed 0.14 pound of particulate emissions per million Btu input.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. 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 Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Toledo Division of Environmental Services 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 Toledo Division of Environmental Services.

3. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
 - a. The emission testing of the ESP shall be conducted within 3 months after start-up of the system.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for particulate and SO₂ emissions.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Methods 1-5 of 40 CFR Part 60, Appendix A; and for SO₂, Method 6 of 40 CFR Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the combined steam production from boilers #1 through #4 (OEPA emissions units B001 through B004) is at or near the maximum system capacity, unless otherwise specified or approved by the Toledo Division of Environmental Services.
 - e. This emissions unit will be considered to be in compliance for particulate emissions if the combined emissions from the common stack discharge from boilers #1 through #4 (OEPA emissions units B001 through B004) do not exceed 0.14 pound of particulate emissions per million Btu input.

V. Testing Requirements (continued)

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Toledo Division of Environmental Services. 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 Toledo Division of Environmental Services' refusal to accept the results of the emission test(s).

Personnel from the Toledo Division of Environmental Services 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.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Toledo Division of Environmental Services 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 Toledo Division of Environmental Services.

4. Within 60 days of reaching a full load, but no later than 180 days after start up, the permittee shall conduct certification tests on the scrubber system continuous opacity monitoring system equipment pursuant to ORC section 3704.03(l) and 40 CFR Part 60, Appendix B, Performance Specification 1. Personnel from the Toledo Division of Environmental Services shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. Two copies of the test results shall be submitted to the Toledo Division of Environmental Services pursuant to OAC rule 3745-15-04 within 30 days after the test is completed. Certification of the continuous opacity monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(l), and 40 CFR Part 60, Appendix B, Performance Specification 1, including section 5.1.9 (mandatory).
5. Within 60 days of reaching a full load, but no later than 180 days after start up, the permittee shall conduct certification tests of the continuous SO₂ monitoring system pursuant to ORC section 3704.03(l) and 40 CFR Part 60, Appendix B, Performance Specification 2. The test(s) shall be conducted while the combined steam production from boilers #1 through #4 (OEPA emissions units B001 through B004) is at or near the maximum system capacity of 90,000 pounds per hour, unless otherwise specified or approved by the Toledo Division of Environmental Services. Personnel from the Toledo Division of Environmental Services shall be notified 30 days prior to initiation of the applicable tests and shall be permitted to examine equipment and witness the certification tests. In accordance with OAC rule 3745-15-04, all copies of the test results shall be submitted to the Toledo Division of Environmental Services within 30 days after the test is completed. Copies of the test results shall be sent to the Toledo Division of Environmental Services and the Ohio EPA, Central Office. Certification of the continuous SO₂ monitoring system shall be granted upon determination by the Ohio EPA, Central Office that the system meets all requirements of ORC section 3704.03(l) and 40 CFR Part 60, Appendix B, Performance Specification 2.

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Keeler 93.3 million Btu per hour coal-fired boiler with electrostatic precipitator, or rapid absorption sulfur dioxide scrubber and nitrogen oxide reduction system with baghouse	none	none

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Powerhse Generator (P001)

Activity Description: Powerhouse diesel generator-900kw-Peak shaving

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
900 kw, peak shaving, powerhouse diesel generator	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)(a)	0.25 pound of particulate emissions per million Btu of actual heat input

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The permittee shall burn only number two fuel oil in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

- For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

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

V. Testing Requirements

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

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance through the methods and procedures of OAC rule 3745-17-03(B)(1).

1.b Emission Limitation:

0.25 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

Either use the AP-42 particulate emission factor of 0.1 pound of particulate emissions per million Btu of heat input or conduct an emissions test in accordance with OAC rule 3745-17-03(B)(10).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
900 kw, peak shaving, powerhouse diesel generator	none	none

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Hospital-1 Gen (P101)

Activity Description: Teaching Hospital diesel generator no. 1-750kw-Peak shaving

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Teaching Hospital diesel generator no. 1 - 750kw - peak shaving	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)(a)	0.25 pound of particulate emissions per million Btu of actual heat input

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The permittee shall burn only number two fuel oil in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

- For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

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

V. Testing Requirements

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

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance through the methods and procedures of OAC rule 3745-17-03(B)(1)

1.b Emission Limitation:

0.25 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

Either use the AP-42 particulate emissions factor of 0.1 pound of particulate emission per million Btu of heat input or conduct an emissions test in accordance with OAC rule 3745-17-03(B)(10).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Teaching Hospital diesel generator no. 1 - 750kw - peak shaving	none	none

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Hospital-2 Gen (P102)

Activity Description: Teaching Hospital diesel generator no. 2-750kw-Peak shaving

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Teaching Hospital diesel generator no. 2 - 750kw - peak shaving	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)(a)	0.25 pound of particulate emissions per million Btu of actual heat input

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The permittee shall burn only number two fuel oil in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

- For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

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

V. Testing Requirements

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

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance through the methods and procedures of OAC rule 3745-17-03(B)(1)

1.b Emission Limitation:

0.25 pound of particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

Either use the AP-42 particulate emissions factor of 0.1 pound of particulate emission per million Btu of heat input or conduct an emissions test in accordance with OAC rule 3745-17-03(B)(10).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Teaching Hospital diesel generator no. 2 - 750kw - peak shaving	none	none

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

Part III - Terms and Conditions for Emissions Units

Emissions Unit ID: Health Sci Gen (P105)

Activity Description: Health Science/Health Ed. diesel generator-750kw-Peak shaving

A. State and Federally Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Health Science/Health Ed. diesel generator - 750kw - peak shaving	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
	OAC rule 3745-17-11(B)(5)(a)	0.25 pound of particulate emissions per million Btu of actual heat input

2. Additional Terms and Conditions

None

II. Operational Restrictions

- The permittee shall burn only number two fuel oil in this emissions unit.

III. Monitoring and/or Record Keeping Requirements

- For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

IV. Reporting Requirements

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

V. Testing Requirements

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

V. Testing Requirements (continued)

1.a Emission Limitation:

20% opacity as a 6-minute average

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance through the methods and procedures of OAC rule 3745-17-03(B)(1)

1.b Emission Limitation:

0.25 pound particulate emissions per million Btu of actual heat input

Applicable Compliance Method:

Either multiply the AP-42 particulate emission factor of 0.0686 pound of particulate emissions per million Btu of heat input by the weighted average heat content (Btu/gallon) of the oil received each calendar month or conduct an emissions test in accordance with OAC rule 3745-17-03(B)(10).

VI. Miscellaneous Requirements

None

B. State Enforceable Section

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/ Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Health Science/Health Ed. diesel generator - 750kw - peak shaving	none	none

2. Additional Terms and Conditions

None

II. Operational Restrictions

None

III. Monitoring and/or Record Keeping Requirements

None

IV. Reporting Requirements

None

V. Testing Requirements

None

VI. Miscellaneous Requirements

None

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