

Facility ID: 0448010247 Issuance type: Title V Final Permit

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

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

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

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. None

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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; and
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.

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- [Go to Part III for Emissions Unit B002](#)
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- [Go to Part III for Emissions Unit B004](#)
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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010247 Emissions Unit ID: B001 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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 (Also, see A.I.2.a for the allowable emission rate for the emissions from the scrubber stack.)

2. Additional Terms and Conditions

- a. The combined emissions from boilers #1 through #4 (OEPA emissions units B001 through B004) shall not exceed 1.5 pounds of SO₂ per million Btu of actual heat input from the scrubber stack.
- b. When the scrubber system is in operation (e.g., when one or more lime slurry pumps are operating), 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 from the scrubber stack. 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.
- c. When the scrubber system is not in operation, but the quench water system is in operation (e.g., when one or more quench water solenoid valves are open) and the exhaust gases from this emissions unit exit through the scrubber stack at less than 250 degrees Fahrenheit, 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 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.

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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 rule 3745-18-04(F)

(1)].

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

1. The permittee shall operate and maintain existing equipment to continuously monitor and record the opacity of 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. The permittee shall operate and maintain a continuous monitor and recorder which measures and records those periods of time during which the scrubber system is in operation (e.g., when one or more lime slurry pump is operating) and the exhaust gases from this emissions unit exit through the scrubber stack. This monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
4. The permittee shall maintain records of all data obtained by the scrubber system monitoring system and records of any preventive maintenance, quality assurance and corrective action activities.
5. The permittee shall operate and maintain a continuous monitor and recorder which measures and records those periods of time during which the quench water system is operational (e.g. when one or more quench water solenoid valve is open) and the exhaust gases from this emissions unit exit through the scrubber stack. This monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
6. The permittee shall maintain records of all data obtained by the quench water system monitoring system and records of any preventive maintenance, quality assurance and corrective action activities.
7. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the scrubber stack exhaust gas temperature. Units shall be in degrees Fahrenheit. Accuracy for each thermocouple, monitor and recorder shall be guaranteed by the manufacturer to be within 0.75 percent of the temperature being measured or 2.5 degrees Fahrenheit, whichever is greater. The temperature monitors and recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
8. The permittee shall maintain records of all data obtained by the continuous temperature monitoring system and records of any preventive maintenance, quality assurance and corrective action activities.
9. 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 scrubber stack. 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.
10. During the period of time between the issuance of this permit and the certification of the opacity monitoring system, the permittee shall perform and record the results of daily visible emission readings of the particulate emissions from the scrubber stack in accordance with the methods and procedures of OAC rule 3745-17-03(B)(1). Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
11. 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.
12. 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 scrubber stack. 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.

13. The permittee shall record the SO₂ value(s) contemporaneous with all periods of time during which the scrubber system is operational (e.g., when one or more lime slurry pump is operating) and the exhaust gases exit through the scrubber stack. The permittee shall calculate and record:
 - a. the SO₂ emission rate as a daily average for those periods of time during which the scrubber system is operational and the exhaust gases from this emissions unit exited through the scrubber stack; and
 - b. the SO₂ emission rate as a 30-day rolling, time-weighted average for those periods of time during the most recent 30 days during which the scrubber is operational and the exhaust gases from this emissions unit exited through the scrubber stack.
14. The permittee shall also record the SO₂ value(s) contemporaneous with all periods of time during which the scrubber system is not in operation but the quench water system is operational (e.g., when one or more quench water solenoid valve is open) and the exhaust gases exit through the scrubber stack at less than 250 degrees Fahrenheit. The permittee shall calculate and record:
 - a. the SO₂ emission rate as a daily average for those periods of time during which the scrubber system is not in operation but the quench water system is operational and the exhaust gases from this emissions unit exited through the scrubber stack at less than 250 degrees Fahrenheit; and
 - b. the SO₂ emission rate as a 30-day rolling, time-weighted average for those periods of time during the most recent 30 days during which the scrubber system is not in operation but the quench water system is operational and the exhaust gases from this emissions unit exited through the scrubber stack at less than 250 degrees Fahrenheit.
15. Alternative, equivalent methods to monitor and record the SO₂ emissions from the scrubber stack. may be used upon written approval by the Toledo Division of Environmental Services.
16. During the period of time between the issuance of this permit and the certification of the scrubber stack SO₂ monitoring system, the permittee shall collect representative grab samples of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004) utilizing the methods and procedures described in paragraph 19 below. Monthly composite samples of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal) as described in paragraph 19 below. Compliance shall be determined by calculations performed in accordance with OAC 3745-18-04(F)(1). Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
17. 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.
18. 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.
19. 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 2 hours of commencing operation without the scrubber system and at a frequency of once every 8 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 Isotherm Bomb Calorimeters, respectively.

Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
20. 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.

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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 scrubber 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 scrubber stack (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 stack 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 scrubber stack 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 scrubber stack in excess of the applicable 1.5 pounds per million Btu limitation, or of any SO₂ emission values in excess of the applicable 1.1 pounds per million Btu limitation. These reports shall include the 30-day rolling, weighted average SO₂ emission rates, and the daily average SO₂ emission rates (in units of pounds of SO₂ per million Btu 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 scrubber stack (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 stack 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 stack 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 (OPEA 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 SO₂ emission rate (pounds of SO₂/mmBtu of 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.

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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:
 - 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 shall 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.
 - 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 shall 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.
 - c. Emission Limitation:

1.1 pounds of SO₂ emissions per million Btu of actual heat input when the scrubber system is not in operation but the quench water system is operational and the exhaust gases from this emissions unit exit through the scrubber stack at less than 250 degrees Fahrenheit

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section A.III.13. This emissions unit shall be considered to be in compliance if:

 - i. the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.1 pounds of SO₂ emissions per million Btu input for the most recent 30-days during which the scrubber system is not in operation but the quench water system was operational and the exhaust gases from this emissions unit exited through the scrubber stack at less than 250 degrees Fahrenheit; and
 - ii. 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) during all periods when the scrubber system is not in operation but the quench water system was operational and the exhaust gases from this emissions unit exit through the scrubber stack at less than an 250 degrees Fahrenheit.

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).
 - d. Emission Limitation:

1.1 pounds of SO₂ emissions per million Btu of actual heat input when the scrubber system is operational and the exhaust gases from this emissions unit exit through the scrubber stack

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section A.III.14. This emissions unit shall be considered to be in compliance if:

 - i. the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.1 pounds of SO₂ emissions per million Btu input for the most recent 30-days during which the scrubber system was operational and the exhaust gases from this emissions unit exited through the scrubber stack; and
 - ii. 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) during all periods when the scrubber system was operational and the exhaust gases from this emissions unit exit through the scrubber stack.

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).
 - e. Emission Limitation:

1.5 pounds of SO₂ emissions per million Btu of actual heat input when the exhaust gases from this emissions unit exit through the scrubber stack

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of sections A.III.12.

This emissions unit shall be considered to be in compliance if:

- i. the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.5 pounds of SO₂ emissions per million Btu input; and
- ii. the daily average emission rate of SO₂ in any one day does not exceed 1.5 times this limit, (i.e., 2.25 pounds of SO₂ emissions per million Btu of actual heat input), 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).

f. Emission Limitation:

1.5 pounds of SO₂ emissions per million Btu of actual heat input when the exhaust gases from this emissions unit exit through the electrostatic precipitator stack

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section A.III.20. This emissions unit shall be considered to be in compliance if the monthly, weighted average emission rate while the exhaust gases exited through the electrostatic precipitator stack does not exceed 1.5 pounds of SO₂ 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 scrubber stack shall be conducted within 3 months after start-up of the scrubber 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 of the ESP system being returned to routine service.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 1-5 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 of operation after start up, the permittee shall conduct certification tests on the scrubber system continuous opacity monitoring system equipment pursuant to ORC section 3704.03(I) 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(I), 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 of operation after start up, the permittee shall conduct certification tests of the continuous SO2 monitoring system pursuant to ORC section 3704.03(I) 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(I) and 40 CFR Part 60, Appendix B, Performance Specification 2.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010247 Emissions Unit ID: B001 Issuance type: Title V Final Permit

B. State Enforceable Section

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

1. None.

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

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

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

1. None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0448010247 Emissions Unit ID: B002 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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 (Also, see A.I.2.a for the allowable emission rate for the emissions from the scrubber stack.)

2. Additional Terms and Conditions

- a. The combined emissions from boilers #1 through #4 (OEPA emissions units B001 through B004) shall

not exceed 1.5 pounds of SO₂ per million Btu of actual heat input from the scrubber stack.

- b. When the scrubber system is in operation (e.g., when one or more lime slurry pumps are operating), 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 from the scrubber stack. 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.
- c. When the scrubber system is not in operation, but the quench water system is in operation (e.g., when one or more quench water solenoid valves are open) and the exhaust gases from this emissions unit exit through the scrubber stack at less than 250 degrees Fahrenheit, 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 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.

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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 rule 3745-18-04(F)(1)].

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain existing equipment to continuously monitor and record the opacity of 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. The permittee shall operate and maintain a continuous monitor and recorder which measures and records those periods of time during which the scrubber system is in operation (e.g., when one or more lime slurry pump is operating) and the exhaust gases from this emissions unit exit through the scrubber stack. This monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
4. The permittee shall maintain records of all data obtained by the scrubber system monitoring system and records of any preventive maintenance, quality assurance and corrective action activities.
5. The permittee shall operate and maintain a continuous monitor and recorder which measures and records those periods of time during which the quench water system is operational (e.g. when one or more quench water solenoid valve is open) and the exhaust gases from this emissions unit exit through the scrubber stack. This monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
6. The permittee shall maintain records of all data obtained by the quench water system monitoring system and records of any preventive maintenance, quality assurance and corrective action activities.
7. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the scrubber stack exhaust gas temperature. Units shall be in degrees Fahrenheit. Accuracy for each thermocouple, monitor and recorder shall be guaranteed by the manufacturer to be within 0.75 percent of the temperature being measured or 2.5 degrees Fahrenheit, whichever is greater. The temperature monitors and recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
8. The permittee shall maintain records of all data obtained by the continuous temperature monitoring system and records of any preventive maintenance, quality assurance and corrective action activities.
9. 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 scrubber stack. 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.

10. During the period of time between the issuance of this permit and the certification of the opacity monitoring system, the permittee shall perform and record the results of daily visible emission readings of the particulate emissions from the scrubber stack in accordance with the methods and procedures of OAC rule 3745-17-03(B)(1). Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
11. 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.
12. 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 scrubber stack. 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.
13. The permittee shall record the SO₂ value(s) contemporaneous with all periods of time during which the scrubber system is operational (e.g., when one or more lime slurry pump is operating) and the exhaust gases exit through the scrubber stack. The permittee shall calculate and record:
 - a. the SO₂ emission rate as a daily average for those periods of time during which the scrubber system is operational and the exhaust gases from this emissions unit exited through the scrubber stack; and
 - b. the SO₂ emission rate as a 30-day rolling, time-weighted average for those periods of time during the most recent 30 days during which the scrubber is operational and the exhaust gases from this emissions unit exited through the scrubber stack.
14. The permittee shall also record the SO₂ value(s) contemporaneous with all periods of time during which the scrubber system is not in operation but the quench water system is operational (e.g., when one or more quench water solenoid valve is open) and the exhaust gases exit through the scrubber stack at less than 250 degrees Fahrenheit. The permittee shall calculate and record:
 - a. the SO₂ emission rate as a daily average for those periods of time during which the scrubber system is not in operation but the quench water system is operational and the exhaust gases from this emissions unit exited through the scrubber stack at less than 250 degrees Fahrenheit; and
 - b. the SO₂ emission rate as a 30-day rolling, time-weighted average for those periods of time during the most recent 30 days during which the scrubber system is not in operation but the quench water system is operational and the exhaust gases from this emissions unit exited through the scrubber stack at less than 250 degrees Fahrenheit.
15. Alternative, equivalent methods to monitor and record the SO₂ emissions from the scrubber stack. may be used upon written approval by the Toledo Division of Environmental Services.
16. During the period of time between the issuance of this permit and the certification of the scrubber stack SO₂ monitoring system, the permittee shall collect representative grab samples of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004) utilizing the methods and procedures described in paragraph 19 below. Monthly composite samples of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal) as described in paragraph 19 below. Compliance shall be determined by calculations performed in accordance with OAC 3745-18-04(F)(1). Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
17. 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.
18. 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.
19. 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 2 hours of commencing operation without the scrubber system and at a frequency of once every 8 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 Isothermal Bomb Calorimeters, respectively.

Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.

20. 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.

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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 scrubber 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 scrubber stack (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 stack 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 scrubber stack 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 scrubber stack in excess of the applicable 1.5 pounds per million Btu limitation, or of any SO₂ emission values in excess of the applicable 1.1 pounds per million Btu limitation. These reports shall include the 30-day rolling, weighted average SO₂ emission rates, and the daily average SO₂ emission rates (in units of pounds of SO₂ per million Btu 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 scrubber stack (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 stack 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 stack 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 SO₂ emission rate (pounds of SO₂/mmBtu of 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.

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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:
 - 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 shall 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.
 - 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 shall 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.
 - c. Emission Limitation:

1.1 pounds of SO₂ emissions per million Btu of actual heat input when the scrubber system is not in operation but the quench water system is operational and the exhaust gases from this emissions unit exit through the scrubber stack at less than 250 degrees Fahrenheit

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section A.III.13. This emissions unit shall be considered to be in compliance if:

 - i. the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.1 pounds of SO₂ emissions per million Btu input for the most recent 30-days during which the scrubber system is not in operation but the quench water system was operational and the exhaust gases from this emissions unit exited through the scrubber stack at less than 250 degrees Fahrenheit; and
 - ii. 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) during all periods when the scrubber system is not in operation but the quench water system was operational and the exhaust gases from this emissions unit exit through the scrubber stack at less than an 250 degrees Fahrenheit.

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).
 - d. Emission Limitation:

1.1 pounds of SO₂ emissions per million Btu of actual heat input when the scrubber system is

operational and the exhaust gases from this emissions unit exit through the scrubber stack

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section A.III.14. This emissions unit shall be considered to be in compliance if:

i. the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.1 pounds of SO₂ emissions per million Btu input for the most recent 30-days during which the scrubber system was operational and the exhaust gases from this emissions unit exited through the scrubber stack; and

ii. 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) during all periods when the scrubber system was operational and the exhaust gases from this emissions unit exit through the scrubber stack.

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).

e. Emission Limitation:

1.5 pounds of SO₂ emissions per million Btu of actual heat input when the exhaust gases from this emissions unit exit through the scrubber stack

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of sections A.III.12. This emissions unit shall be considered to be in compliance if:

i. the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.5 pounds of SO₂ emissions per million Btu input; and

ii. the daily average emission rate of SO₂ in any one day does not exceed 1.5 times this limit, (i.e., 2.25 pounds of SO₂ emissions per million Btu of actual heat input), 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).

f. Emission Limitation:

1.5 pounds of SO₂ emissions per million Btu of actual heat input when the exhaust gases from this emissions unit exit through the electrostatic precipitator stack

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section A.III.20. This emissions unit shall be considered to be in compliance if the monthly, weighted average emission rate while the exhaust gases exited through the electrostatic precipitator stack does not exceed 1.5 pounds of SO₂ 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 scrubber stack shall be conducted within 3 months after start-up of the scrubber 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 of the ESP system being returned to routine service.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 1-5 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 of operation after start up, the permittee shall conduct certification tests on the scrubber system continuous opacity monitoring system equipment pursuant to ORC section 3704.03(I) 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(I), 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 of operation after start up, the permittee shall conduct certification tests of the continuous SO₂ monitoring system pursuant to ORC section 3704.03(I) 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(I) and 40 CFR Part 60, Appendix B, Performance Specification 2.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010247 Emissions Unit ID: B002 Issuance type: Title V Final Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010247 Emissions Unit ID: B003 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Wickes 93.3 million Btu per hour natural gas or 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 through the combustion of coal
	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 (Also, see A.I.2.a for the allowable emission rate for the emissions from the scrubber stack.)

2. Additional Terms and Conditions

- a. The combined emissions from boilers #1 through #4 (OEPA emissions units B001 through B004) shall not exceed 1.5 pounds of SO₂ per million Btu of actual heat input from the scrubber stack.
- b. When the scrubber system is in operation (e.g., when one or more lime slurry pumps are operating), 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 from the scrubber stack. 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.
- c. When the scrubber system is not in operation, but the quench water system is in operation (e.g., when one or more quench water solenoid valves are open) and the exhaust gases from this emissions unit exit through the scrubber stack at less than 250 degrees Fahrenheit, 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 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.

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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 rule 3745-18-04(F)(1)].
2. 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.

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall operate and maintain existing equipment to continuously monitor and record the opacity of 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. The permittee shall operate and maintain a continuous monitor and recorder which measures and records those periods of time during which the scrubber system is in operation (e.g., when one or more lime slurry pump is operating) and the exhaust gases from this emissions unit exit through the scrubber stack. This monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
4. The permittee shall maintain records of all data obtained by the scrubber system monitoring system and records of any preventive maintenance, quality assurance and corrective action activities.
5. The permittee shall operate and maintain a continuous monitor and recorder which measures and records those periods of time during which the quench water system is operational (e.g. when one or more quench water solenoid valve is open) and the exhaust gases from this emissions unit exit through the scrubber stack. This monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
6. The permittee shall maintain records of all data obtained by the quench water system monitoring system and records of any preventive maintenance, quality assurance and corrective action activities.
7. The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the scrubber stack exhaust gas temperature. Units shall be in degrees Fahrenheit. Accuracy for each thermocouple, monitor and recorder shall be guaranteed by the manufacturer to be within 0.75 percent of the temperature being measured or 2.5 degrees Fahrenheit, whichever is greater. The temperature monitors and recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
8. The permittee shall maintain records of all data obtained by the continuous temperature monitoring system and records of any preventive maintenance, quality assurance and corrective action activities.
9. 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 scrubber stack. 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.
10. During the period of time between the issuance of this permit and the certification of the opacity monitoring system, the permittee shall perform and record the results of daily visible emission readings of the particulate emissions from the scrubber stack in accordance with the methods and procedures of OAC rule 3745-17-03(B)(1). Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
11. 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.
12. 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 scrubber stack. 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.
13. The permittee shall record the SO₂ value(s) contemporaneous with all periods of time during which the scrubber system is operational (e.g., when one or more lime slurry pump is operating) and the exhaust gases exit through the scrubber stack. The permittee shall calculate and record:
 - a. the SO₂ emission rate as a daily average for those periods of time during which the scrubber system is operational and the exhaust gases from this emissions unit exited through the scrubber stack; and
 - b. the SO₂ emission rate as a 30-day rolling, time-weighted average for those periods of time during the most recent 30 days during which the scrubber is operational and the exhaust gases from this emissions unit exited through the scrubber stack.
14. The permittee shall also record the SO₂ value(s) contemporaneous with all periods of time during which the scrubber system is not in operation but the quench water system is operational (e.g., when one or more quench water solenoid valve is open) and the exhaust gases exit through the scrubber stack at less than 250 degrees Fahrenheit. The permittee shall calculate and record:
 - a. the SO₂ emission rate as a daily average for those periods of time during which the scrubber system is not in operation but the quench water system is operational and the exhaust gases from this emissions unit exited through the scrubber stack at less than 250 degrees Fahrenheit; and
 - b. the SO₂ emission rate as a 30-day rolling, time-weighted average for those periods of time during the most recent 30 days during which the scrubber system is not in operation but the quench water system is

operational and the exhaust gases from this emissions unit exited through the scrubber stack at less than 250 degrees Fahrenheit.

15. Alternative, equivalent methods to monitor and record the SO₂ emissions from the scrubber stack. may be used upon written approval by the Toledo Division of Environmental Services.
16. During the period of time between the issuance of this permit and the certification of the scrubber stack SO₂ monitoring system, the permittee shall collect representative grab samples of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004) utilizing the methods and procedures described in paragraph 19 below. Monthly composite samples of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal) as described in paragraph 19 below. Compliance shall be determined by calculations performed in accordance with OAC 3745-18-04(F)(1). Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
17. 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.
18. 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.
19. 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 2 hours of commencing operation without the scrubber system and at a frequency of once every 8 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 Isothermal Bomb Calorimeters, respectively.

Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.

20. 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.

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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 scrubber 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 scrubber stack (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 stack 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 scrubber stack 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 scrubber stack in excess of the applicable 1.5 pounds per million Btu limitation, or of any SO₂ emission values in excess of the applicable 1.1 pounds per million Btu limitation. These reports shall include the 30-day rolling, weighted average SO₂ emission rates, and the daily average SO₂ emission rates (in units of pounds of SO₂ per million Btu 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 scrubber stack (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 stack 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 stack 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 (OPEA 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 SO₂ emission rate (pounds of SO₂/mmBtu of 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.

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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:
 - 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 shall be considered to be in compliance if the combined emissions from the common stack discharge from boilers #1 through #4 (OPEA emissions units B001 through B004) do not exceed 20% opacity as a 6-minute average.
 - 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 foot of natural gas (0.002 pound of particulate emission 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).

c. Emission Limitation:

0.14 pound of particulate emissions per million Btu of actual heat input through the combustion of coal

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 shall 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.

d. Emission Limitation:

1.1 pounds of SO₂ emissions per million Btu of actual heat input when the scrubber system is not in operation but the quench water system is operational and the exhaust gases from this emissions unit exit through the scrubber stack at less than 250 degrees Fahrenheit

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section A.III.13. This emissions unit shall be considered to be in compliance if:

i. the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.1 pounds of SO₂ emissions per million Btu input for the most recent 30-days during which the scrubber system is not in operation but the quench water system was operational and the exhaust gases from this emissions unit exited through the scrubber stack at less than 250 degrees Fahrenheit; and

ii. 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) during all periods when the scrubber system is not in operation but the quench water system was operational and the exhaust gases from this emissions unit exit through the scrubber stack at less than an 250 degrees Fahrenheit.

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).

e. Emission Limitation:

1.1 pounds of SO₂ emissions per million Btu of actual heat input when the scrubber system is operational and the exhaust gases from this emissions unit exit through the scrubber stack

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section A.III.14. This emissions unit shall be considered to be in compliance if:

i. the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.1 pounds of SO₂ emissions per million Btu input for the most recent 30-days during which the scrubber system was operational and the exhaust gases from this emissions unit exited through the scrubber stack; and

ii. 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) during all periods when the scrubber system was operational and the exhaust gases from this emissions unit exit through the scrubber stack.

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).

f. Emission Limitation:

1.5 pounds of SO₂ emissions per million Btu of actual heat input when the exhaust gases from this emissions unit exit through the scrubber stack

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of sections A.III.12. This emissions unit shall be considered to be in compliance if:

i. the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.5 pounds of SO₂ emissions per million Btu input; and

ii. the daily average emission rate of SO₂ in any one day does not exceed 1.5 times this limit, (i.e., 2.25 pounds of SO₂ emissions per million Btu of actual heat input), 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).

g. Emission Limitation:

1.5 pounds of SO₂ emissions per million Btu of actual heat input when the exhaust gases from this emissions unit exit through the electrostatic precipitator stack

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section A.III.20. This emissions unit shall be considered to be in compliance if the monthly, weighted average emission rate while the exhaust gases exited through the electrostatic precipitator stack does not exceed 1.5 pounds of SO₂ 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 scrubber stack shall be conducted within 3 months after start-up of the scrubber 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 of the ESP system being returned to routine service.

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

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 1-5 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 of operation 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 of operation 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.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010247 Emissions Unit ID: B003 Issuance type: Title V Final Permit

B. State Enforceable Section

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

1. None.

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

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

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

1. None

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II. **Operational Restrictions**

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 0448010247 Emissions Unit ID: B004 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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)	1.5 pounds of sulfur dioxide (SO2) emissions per million Btu of actual heat input from the electrostatic precipitator stack (Also, see A.I.2.a for the allowable emission rate for the emissions from the scrubber stack.)

2. Additional Terms and Conditions

- a. The combined emissions from boilers #1 through #4 (OEPA emissions units B001 through B004) shall not exceed 1.5 pounds of SO2 per million Btu of actual heat input from the scrubber stack.
- b. When the scrubber system is in operation (e.g., when one or more lime slurry pumps are operating), 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 from the scrubber stack. 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.

- c. When the scrubber system is not in operation, but the quench water system is in operation (e.g., when one or more quench water solenoid valves are open) and the exhaust gases from this emissions unit exit through the scrubber stack at less than 250 degrees Fahrenheit, 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 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.

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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 rule 3745-18-04(F) (1)].

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III. Monitoring and/or Record Keeping Requirements

- 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.
- 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.
- The permittee shall operate and maintain a continuous monitor and recorder which measures and records those periods of time during which the scrubber system is in operation (e.g., when one or more lime slurry pump is operating) and the exhaust gases from this emissions unit exit through the scrubber stack. This monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
- The permittee shall maintain records of all data obtained by the scrubber system monitoring system and records of any preventive maintenance, quality assurance and corrective action activities.
- The permittee shall operate and maintain a continuous monitor and recorder which measures and records those periods of time during which the quench water system is operational (e.g., when one or more quench water solenoid valve is open) and the exhaust gases from this emissions unit exit through the scrubber stack. This monitor and recorder shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
- The permittee shall maintain records of all data obtained by the quench water system monitoring system and records of any preventive maintenance, quality assurance and corrective action activities.
- The permittee shall operate and maintain a continuous temperature monitor and recorder which measures and records the scrubber stack exhaust gas temperature. Units shall be in degrees Fahrenheit. Accuracy for each thermocouple, monitor and recorder shall be guaranteed by the manufacturer to be within 0.75 percent of the temperature being measured or 2.5 degrees Fahrenheit, whichever is greater. The temperature monitors and recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
- The permittee shall maintain records of all data obtained by the continuous temperature monitoring system and records of any preventive maintenance, quality assurance and corrective action activities.
- 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 scrubber stack. 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.
- During the period of time between the issuance of this permit and the certification of the opacity monitoring system, the permittee shall perform and record the results of daily visible emission readings of the particulate emissions from the scrubber stack in accordance with the methods and procedures of OAC rule 3745-17-03(B)(1). Alternative, equivalent methods may be used upon written approval by the Toledo

Division of Environmental Services.

11. 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.
12. 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 scrubber stack. 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.
13. The permittee shall record the SO₂ value(s) contemporaneous with all periods of time during which the scrubber system is operational (e.g., when one or more lime slurry pump is operating) and the exhaust gases exit through the scrubber stack. The permittee shall calculate and record:
 - a. the SO₂ emission rate as a daily average for those periods of time during which the scrubber system is operational and the exhaust gases from this emissions unit exited through the scrubber stack; and
 - b. the SO₂ emission rate as a 30-day rolling, time-weighted average for those periods of time during the most recent 30 days during which the scrubber is operational and the exhaust gases from this emissions unit exited through the scrubber stack.
14. The permittee shall also record the SO₂ value(s) contemporaneous with all periods of time during which the scrubber system is not in operation but the quench water system is operational (e.g., when one or more quench water solenoid valve is open) and the exhaust gases exit through the scrubber stack at less than 250 degrees Fahrenheit. The permittee shall calculate and record:
 - a. the SO₂ emission rate as a daily average for those periods of time during which the scrubber system is not in operation but the quench water system is operational and the exhaust gases from this emissions unit exited through the scrubber stack at less than 250 degrees Fahrenheit; and
 - b. the SO₂ emission rate as a 30-day rolling, time-weighted average for those periods of time during the most recent 30 days during which the scrubber system is not in operation but the quench water system is operational and the exhaust gases from this emissions unit exited through the scrubber stack at less than 250 degrees Fahrenheit.
15. Alternative, equivalent methods to monitor and record the SO₂ emissions from the scrubber stack. may be used upon written approval by the Toledo Division of Environmental Services.
16. During the period of time between the issuance of this permit and the certification of the scrubber stack SO₂ monitoring system, the permittee shall collect representative grab samples of the coal burned in boilers #1 through #4 (OEPA emissions units B001 through B004) utilizing the methods and procedures described in paragraph 19 below. Monthly composite samples of coal shall be analyzed for ash content (percent), sulfur content (percent), and heat content (Btu/pound of coal) as described in paragraph 19 below. Compliance shall be determined by calculations performed in accordance with OAC 3745-18-04(F)(1). Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.
17. 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.
18. 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.
19. 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 2 hours of commencing operation without the scrubber system and at a frequency of once every 8 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 Isothermal Calorimeters, respectively.

Alternative, equivalent methods may be used upon written approval by the Toledo Division of Environmental Services.

20. 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.

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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 scrubber 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 scrubber stack (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 stack 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 scrubber stack 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 scrubber stack in excess of the applicable 1.5 pounds per million Btu limitation, or of any SO₂ emission values in excess of the applicable 1.1 pounds per million Btu limitation. These reports shall include the 30-day rolling, weighted average SO₂ emission rates, and the daily average SO₂ emission rates (in units of pounds of SO₂ per million Btu 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 scrubber stack (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 stack 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 stack 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 SO₂ emission rate (pounds of SO₂/mmBtu of 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.

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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:
 - 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 shall 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.
 - 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 shall 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.
 - c. Emission Limitation:

1.1 pounds of SO₂ emissions per million Btu of actual heat input when the scrubber system is not in operation but the quench water system is operational and the exhaust gases from this emissions unit exit through the scrubber stack at less than 250 degrees Fahrenheit

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section A.III.13. This emissions unit shall be considered to be in compliance if:

 - i. the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.1 pounds of SO₂ emissions per million Btu input for the most recent 30-days during which the scrubber system is not in operation but the quench water system was operational and the exhaust gases from this emissions unit exited through the scrubber stack at less than 250 degrees Fahrenheit; and
 - ii. 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) during all periods when the scrubber system is not in operation but the quench water system was operational and the exhaust gases from this emissions unit exit through the scrubber stack at less than an 250 degrees Fahrenheit.

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).
 - d. Emission Limitation:

1.1 pounds of SO₂ emissions per million Btu of actual heat input when the scrubber system is operational and the exhaust gases from this emissions unit exit through the scrubber stack

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section A.III.14. This emissions unit shall be considered to be in compliance if:

i. the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.1 pounds of SO₂ emissions per million Btu input for the most recent 30-days during which the scrubber system was operational and the exhaust gases from this emissions unit exited through the scrubber stack; and

ii. 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) during all periods when the scrubber system was operational and the exhaust gases from this emissions unit exit through the scrubber stack.

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).

e. Emission Limitation:

1.5 pounds of SO₂ emissions per million Btu of actual heat input when the exhaust gases from this emissions unit exit through the scrubber stack

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of sections A.III.12. This emissions unit shall be considered to be in compliance if:

i. the 30-day rolling, weighted average emission rate from the scrubber stack does not exceed 1.5 pounds of SO₂ emissions per million Btu input; and

ii. the daily average emission rate of SO₂ in any one day does not exceed 1.5 times this limit, (i.e., 2.25 pounds of SO₂ emissions per million Btu of actual heat input), 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).

f. Emission Limitation:

1.5 pounds of SO₂ emissions per million Btu of actual heat input when the exhaust gases from this emissions unit exit through the electrostatic precipitator stack

Applicable Compliance Method:

Compliance shall be demonstrated based upon the record keeping requirements of section A.III.20. This emissions unit shall be considered to be in compliance if the monthly, weighted average emission rate while the exhaust gases exited through the electrostatic precipitator stack does not exceed 1.5 pounds of SO₂ 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 scrubber stack shall be conducted within 3 months after start-up of the scrubber 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 of the ESP system being returned to routine service.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): Methods 1-5 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 of operation after start up, the permittee shall conduct certification tests on the scrubber system continuous opacity monitoring system equipment pursuant to ORC section 3704.03(I) 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(I), 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 of operation after start up, the permittee shall conduct certification tests of the continuous SO₂ monitoring system pursuant to ORC section 3704.03(I) 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(I) and 40 CFR Part 60, Appendix B, Performance Specification 2.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010247 Emissions Unit ID: B004 Issuance type: Title V Final Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010247 Emissions Unit ID: P001 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**

- (a) None

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- II. **Operational Restrictions**

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

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

1. 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.

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- IV. **Reporting Requirements**

1. 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.

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- V. **Testing Requirements**

1. Compliance with the emission limitations in section A.1.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 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).
 - 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).

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- VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0448010247 Emissions Unit ID: P001 Issuance type: Title V Final Permit

B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

1. None

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II. Operational Restrictions

1. None

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III. Monitoring and/or Record Keeping Requirements

1. None

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IV. Reporting Requirements

1. None

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010247 Emissions Unit ID: P101 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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

- (a) None

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II. Operational Restrictions

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

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III. Monitoring and/or Record Keeping Requirements

1. 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.

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IV. Reporting Requirements

1. 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.

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V. Testing Requirements

1. Compliance with the emission limitations in section A.1.1 of these terms and conditions shall be determined in accordance with the following methods:
 - 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).
 - 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).

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0448010247 Emissions Unit ID: P101 Issuance type: Title V Final Permit

B. State Enforceable Section

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

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

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

- 1. None

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II. Operational Restrictions

- 1. None

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III. Monitoring and/or Record Keeping Requirements

- 1. None

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IV. Reporting Requirements

- 1. None

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V. Testing Requirements

- 1. None

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VI. Miscellaneous Requirements

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010247 Emissions Unit ID: P102 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**

- (a) None

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II. Operational Restrictions

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

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III. Monitoring and/or Record Keeping Requirements

1. 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.

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IV. Reporting Requirements

1. 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.

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V. Testing Requirements

1. Compliance with the emission limitations in section A.1.1 of these terms and conditions shall be determined in accordance with the following methods:

- 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).

- 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).

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0448010247 Emissions Unit ID: P102 Issuance type: Title V Final Permit

B. State Enforceable Section

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

- 1. None.

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

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

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

- 1. None

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0448010247 Emissions Unit ID: P105 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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**

- (a) None

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II. Operational Restrictions

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

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III. Monitoring and/or Record Keeping Requirements

1. 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.

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IV. Reporting Requirements

1. 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.

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V. Testing Requirements

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

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0448010247 Emissions Unit ID: P105 Issuance type: Title V Final Permit

B. State Enforceable Section

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

- 1. None.

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

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

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

- 1. None

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II. **Operational Restrictions**

- 1. None

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

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None