

Facility ID: 0125040592 Issuance type: Title V Draft Permit

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

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

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. None

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b State Only Enforceable Section

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

B004 - Caterpillar generator;
B005 - Katolight generator;
B006 - Kohler generator;
B007 - Cummins generator;
T001 - underground storage tank;
Z003 - underground storage tank;
Z004 - underground storage tank;
Z005 - underground storage tank;
Z001 - coal unloading;
Z002 - coal ash unloading; and
Z006 - laboratory chemicals.

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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Part III - Terms and Conditions for Emissions Units

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Facility ID: 0125040592 Emissions Unit ID: B001 Issuance type: Title V Draft 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>
24 mmBTU/hr Keeler coal-fired boiler controlled with a multiclone	OAC rule 3745-17-07(A)	Visible particulate emissions from this stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(C)(1)	Particulate emissions shall not exceed 0.22 lb/mmBtu of actual heat input. (This emission limitation is based upon the combined heat input for emissions units B001, B002 and B003.)
	40 CFR Part 52.1881(b)(27)(i)	Sulfur dioxide emissions shall not exceed 2.1 lbs/mmBTU of actual heat input.

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

1. The quality of the coal burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I above.

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III. Monitoring and/or Record Keeping Requirements

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

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

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

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

2. 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.

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

Each monthly composite sample of coal shall be analyzed for sulfur content (percent) and heat content (Btu/pound of coal). The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method 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 from the Ohio EPA, Central District Office.

4. The permittee shall maintain monthly records of the total quantity of coal received and the results of the analyses for sulfur content and heat content and the calculated sulfur dioxide emission rate (in lbs/mmBtu) based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of coal during a calendar month.

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IV. Reporting Requirements

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

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

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.

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V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation -
20% opacity, as a 6-minute average, except as provided by rule

Applicable Compliance Method -
Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation -
0.22 lb of particulate emissions/mmBtu actual heat input

Applicable Compliance Method -
The permittee shall conduct, or have conducted, particulate emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate for particulate matter in accordance with the following requirements:
 - i. The emission testing shall be conducted approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.
 - ii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate: Methods 1 through 5, 40 CFR Part 60, Appendix A.

iii. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

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

Personnel from the Ohio EPA, Central District Office 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.

b. 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 Ohio EPA, Central District Office 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 Ohio EPA, Central District Office.

c. Emission Limitation -
2.1 lbs of sulfur dioxide/mmBtu actual heat input

Applicable Compliance Method -
Compliance shall be determined by using the fuel analysis records required pursuant to Section A.III.3 and the applicable equation in OAC rule 3745-18-04(F).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0125040592 Emissions Unit ID: B001 Issuance type: Title V Draft 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>
24 mmBTU/hr Keeler coal-fired boiler controlled with a multiclone	OAC rule 3745-18-31(O)	The sulfur dioxide limitation from this rule (3.8 lb/mmBtu) is less stringent than the limitation specified in 40 CFR Part 52.

See B.II.1 below.

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. The daily average operating rate for this emissions unit shall not exceed the following: first quarter, 28 mmBtu/hr; second quarter, 28 mmBtu/hr; third quarter, 21 mmBtu/hr; and fourth quarter, 28 mmBtu/hr.

(The mmBtu/hr rating for this emissions unit was incorrectly calculated during the development of OAC rule 3745-18-31(O). The correct maximum heat input is 24 mmBtu/hr. Because the daily average operating rate for the first, second and fourth quarters can not be exceeded, the records necessary to demonstrate compliance with this requirement will only be maintained for the third calendar quarter of each year. This permit will be modified upon completion of the revisions to OAC rule 3745-18-31(O).)

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day during the third calendar quarter of each year for this emissions unit:
 - a. The total amount of coal burned, in pound or tons.
 - b. The total number of hours the emissions unit was in operation.
 - c. The daily average operating rate, in mmBtu/hr. (The monthly volume-weighted heat content for the coal, from Section A.III.4, may be used to back calculate the daily average operating rate.)

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which document all exceedances of the daily average operating rate restriction during the third calendar quarter of each year.
2. If there are no excess opacity emissions during a 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 this quarterly report.

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None

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Facility ID: 0125040592 Emissions Unit ID: B002 Issuance type: Title V Draft 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>
24 mmBTU/hr Keeler coal-fired boiler controlled with a multiclone	OAC rule 3745-17-07(A)	Visible particulate emissions from this stack shall not exceed 20% opacity, as a 6-minute average, except as

OAC rule 3745-17-10(C)(1)

provided by rule.

Particulate emissions shall not exceed 0.22 lb/mmBtu of actual heat input. (This emission limitation is based upon the combined heat input for emissions units B001, B002 and B003.)

40 CFR Part 52.1881(b)(27)(i)

Sulfur dioxide emissions shall not exceed 2.1 lbs/mmBTU of actual heat input.

2. Additional Terms and Conditions

- (a) None

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II. Operational Restrictions

- The quality of the coal burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I above.

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III. Monitoring and/or Record Keeping Requirements

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

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

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

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

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

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

- The permittee shall maintain monthly records of the total quantity of coal received and the results of the analyses for sulfur content and heat content and the calculated sulfur dioxide emission rate (in lbs/mmBtu) based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of coal during a calendar month.

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IV. Reporting Requirements

- The permittee shall notify the Director (the Ohio EPA, Central District Office) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon a volume-weighted average of the calculated sulfur dioxide emission rates from Section A.III above. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Central District Office) within 45 days after the deviation occurs.

2. The permittee shall submit reports (hardcopy or electronic format) within 30 days following the end of each calendar quarter to the Ohio EPA, Central District Office documenting all instances of opacity values in excess of the limitations specified in OAC rule 3745-17-07, detailing the date, commencement and completion times, duration, magnitude (percent opacity), reason (if known), and corrective actions taken (if any) of each 6-minute block average above the applicable opacity limitation(s).

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

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.

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V. Testing Requirements

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

- a. Emission Limitation -
20% opacity, as a 6-minute average, except as provided by rule

Applicable Compliance Method -

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

- b. Emission Limitation -
0.22 lb of particulate emissions/mmBtu actual heat input

Applicable Compliance Method -

The permittee shall conduct, or have conducted, particulate emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate for particulate matter in accordance with the following requirements:

- i. The emission testing shall be conducted approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.
- ii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate: Methods 1 through 5, 40 CFR Part 60, Appendix A.
- iii. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

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

Personnel from the Ohio EPA, Central District Office 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.

- b. 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 Ohio EPA, Central District Office 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 Ohio EPA, Central District Office.

- c. Emission Limitation -
2.1 lbs of sulfur dioxide/mmBtu actual heat input

Applicable Compliance Method -

Compliance shall be determined by using the fuel analysis records required pursuant to Section A.III.3 and the applicable equation in OAC rule 3745-18-04(F).

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VI. Miscellaneous Requirements

1. None

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B. State Enforceable Section

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

1. None.

I. Applicable Emissions Limitations and/or Control Requirements

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
24 mmBTU/hr Keeler coal-fired boiler controlled with a multiclone	OAC rule 3745-18-31(O)	The sulfur dioxide limitation from this rule (3.8 lb/mmBtu) is less stringent than the limitation specified in 40 CFR Part 52.

See B.II.1 below.

2. Additional Terms and Conditions

1. None

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II. Operational Restrictions

1. The daily average operating rate for this emissions unit shall not exceed the following: first quarter, 28 mmBtu/hr; second quarter, 28 mmBtu/hr; third quarter, 21 mmBtu/hr; and fourth quarter, 28 mmBtu/hr.

(The mmBtu/hr rating for this emissions unit was incorrectly calculated during the development of OAC rule 3745-18-31(O). The correct maximum heat input is 24 mmBtu/hr. Because the daily average operating rate for the first, second and fourth quarters can not be exceeded, the records necessary to demonstrate compliance with this requirement will only be maintained for the third calendar quarter of each year. This permit will be modified upon completion of the revisions to OAC rule 3745-18-31(O).)

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day during the third calendar quarter of each year for this emissions unit:
 - a. The total amount of coal burned, in pound or tons.
 - b. The total number of hours the emissions unit was in operation.
 - c. The daily average operating rate, in mmBtu/hr. (The monthly volume-weighted heat content for the coal, from Section A.III.4, may be used to back calculate the daily average operating rate.)

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which document all exceedances of the daily average operating rate restriction during the third calendar quarter of each year.
2. If there are no excess opacity emissions during a 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 this quarterly report.

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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: 0125040592 Emissions Unit ID: B003 Issuance type: Title V Draft 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>
24 mmBTU/hr Keeler coal-fired boiler controlled with a multiclone	OAC rule 3745-17-07(A)	Visible particulate emissions from this stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
	OAC rule 3745-17-10(C)(1)	Particulate emissions shall not exceed 0.22 lb/mmBtu of actual heat input. (This emission limitation is based upon the combined heat input for emissions units B001, B002 and B003.)
	40 CFR Part 52.1881(b)(27)(i)	Sulfur dioxide emissions shall not exceed 2.1 lbs/mmBTU of actual heat input.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. The quality of the coal burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation specified in Section A.I above.

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

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

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

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

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

2. 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.
3. The permittee shall collect or require the coal supplier to collect a representative sample of coal for each shipment of coal which is received for burning in this emissions unit. The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal. At the end of each month, the representative samples of coal for all shipments of coal which were received during that week shall be combined into one composite sample.

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

4. The permittee shall maintain monthly records of the total quantity of coal received and the results of the analyses for sulfur content and heat content and the calculated sulfur dioxide emission rate (in lbs/mmBtu) based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of coal during a calendar month.

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IV. Reporting Requirements

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

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

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.

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V. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.I of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation -
20% opacity, as a 6-minute average, except as provided by rule

Applicable Compliance Method -
Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
 - b. Emission Limitation -
0.22 lb of particulate emissions/mmBtu actual heat input

Applicable Compliance Method -

The permittee shall conduct, or have conducted, particulate emission testing for this emissions unit to demonstrate compliance with the allowable mass emission rate for particulate matter in accordance with the following requirements:

- i. The emission testing shall be conducted approximately 2.5 years after permit issuance and within 6 months prior to permit renewal.
- ii. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate: Methods 1 through 5, 40 CFR Part 60, Appendix A.
- iii. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Central District Office.

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

Personnel from the Ohio EPA, Central District Office 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.

- b. 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 Ohio EPA, Central District Office 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 Ohio EPA, Central District Office.
- c. Emission Limitation -
2.1 lbs of sulfur dioxide/mmBtu actual heat input

Applicable Compliance Method -
Compliance shall be determined by using the fuel analysis records required pursuant to Section A.III.3 and the applicable equation in OAC rule 3745-18-04(F).

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VI. **Miscellaneous Requirements**

- 1. None

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B. State Enforceable Section

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

- 1. None.

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

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

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
24 mmBTU/hr Keeler coal-fired boiler controlled with a multiclone	OAC rule 3745-18-31(O)	The sulfur dioxide limitation from this rule (3.8 lb/mmBtu) is less stringent than the limitation specified in 40 CFR Part 52.

See B.II.1 below.

- 2. **Additional Terms and Conditions**

1. None

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II. Operational Restrictions

1. The daily average operating rate for this emissions unit shall not exceed the following: first quarter, 28 mmBtu/hr; second quarter, 28 mmBtu/hr; third quarter, 21 mmBtu/hr; and fourth quarter, 28 mmBtu/hr.

(The mmBtu/hr rating for this emissions unit was incorrectly calculated during the development of OAC rule 3745-18-31(O). The correct maximum heat input is 24 mmBtu/hr. Because the daily average operating rate for the first, second and fourth quarters can not be exceeded, the records necessary to demonstrate compliance with this requirement will only be maintained for the third calendar quarter of each year. This permit will be modified upon completion of the revisions to OAC rule 3745-18-31(O).)

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each day during the third calendar quarter of each year for this emissions unit:
 - a. The total amount of coal burned, in pound or tons.
 - b. The total number of hours the emissions unit was in operation.
 - c. The daily average operating rate, in mmBtu/hr. (The monthly volume-weighted heat content for the coal, from Section A.III.4, may be used to back calculate the daily average operating rate.)

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IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which document all exceedances of the daily average operating rate restriction during the third calendar quarter of each year.
2. If there are no excess opacity emissions during a 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 this quarterly report.

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V. Testing Requirements

1. None

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VI. Miscellaneous Requirements

1. None