

Facility ID: 0247100408 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:
  - P001 - 55 kW emergency generator, natural gas-fired engine for the East Hall;
  - P002 - 55 kW emergency generator, natural gas-fired engine for Warner Gym;
  - P003 - 100 kW emergency generator, natural gas-fired engine for the Music Conservatory;
  - Z001 - 30,000-gallon underground diesel fuel storage tank;
  - Z002 - 30,000-gallon underground diesel fuel storage tank;
  - Z003 - 1,000-gallon above ground diesel storage tank;
  - Z004 - 2,000-gallon above ground gasoline storage tank;
  - Z006 - 38 hp natural gas-fired internal combustion engine at Peters Hall;
  - Z007 - 144 hp natural gas-fired internal combustion engine at South Hall;
  - Z008 - 5.44 million Btu per hour water heater at Dascomb Hall;
  - Z009 - 4.8 million Btu per hour water heater at Oberlin Inn;
  - Z010 - Service Building paint booth; and
  - Z011 - 18 kW natural gas-fired internal combustion engine at Fairchild Dorm.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emissions 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: 0247100408 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>
Babcock and Wilcox coal-fired boiler, having a rated heat input capacity of 50.0 million Btu per hour and controlled with an electrostatic precipitator (ESP).	OAC rule 3745-17-07(A)	Visible particulate emissions 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 0.20 pound per million Btu actual heat input.
	OAC rule 3745-18-53(F)(1)	See Section A.I.2.a below. Sulfur dioxide emissions shall not exceed 7.19 pounds per million Btu actual heat input.

**2. Additional Terms and Conditions**

- a. The particulate emission limitation is based upon the total heat input from emissions units B001 and B002, pursuant to OAC rule 3745-17-10(B).

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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 of 7.19 pounds per million Btu actual heat input.
2. The average total combined power input (in kilowatts) to all fields of the ESP, for any 3-hour block of time when the emissions unit is in operation, shall be no less than 90% of the total combined power input, as a 3-hour average, during the most recent emissions test that demonstrated the emissions unit was in compliance with the particulate emission limitation.
3. The permittee shall operate the ESP during any operation of this emissions unit, except the ESP may not be operated during periods of start up until the exhaust gases have achieved a temperature of 250 degrees Fahrenheit at the inlet of the ESP or during periods of shutdown when the temperature of the exhaust gases has dropped below 250 degrees Fahrenheit at the inlet of the ESP.

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

1. The permittee shall collect or require the coal supplier to collect a representative sample of coal for each shipment of coal which is received for burning in this emissions unit. The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal.

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

- 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 from the Ohio EPA, Northeast District Office.
2. The permittee shall maintain records of the total quantity of coal received and the results of the analyses for sulfur content and heat content for each shipment of coal received for burning in this emissions unit and the calculated weighted average sulfur dioxide emission rate (in lbs/mmBtu) for all shipments of coal during a calendar month.
  3. The permittee shall properly operate and maintain equipment to continuously monitor the secondary voltage, in kilovolts and the secondary current, in amps, in all fields of the ESP while the emissions unit is in operation. The secondary voltage and secondary current monitors shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
 

The permittee shall monitor and record the following on an hourly basis during any operation of the ESP:

    - a. the secondary voltage, in kilovolts (kV), and the secondary current in amps, for each transformer rectifier (TR) set in the ESP;
    - b. the power input (in kilowatts) of each TR set for each hour (calculated by multiplying the secondary voltage (in kV) by the secondary current (in amps) for each TR set); and
    - c. the total power input to the ESP for each hour (add together the power inputs for the TR sets operating during the hour).
  4. The permittee shall record the following information for each day:
    - a. all 3-hour blocks of time during which the average total combined power input to the ESP, when the emissions unit was in operation, was less than 90% of the total combined power input, as a 3-hour average, during the most recent emissions test that demonstrated the emissions unit was in compliance with the particulate emission limitation; and
    - b. the duration of the downtime for the monitoring equipment specified in Section A.III.3 above, the ESP sections that are out of service, and the duration of the downtime for each section, when the associated emissions unit was in operation.
  5. If exemptions from the visible particulate emission limitations are requested during start up or shutdown of this emissions unit, the permittee shall operate and maintain a temperature monitor and recorder that measures and records the temperature of the boiler exhaust gases entering the ESP as follows:
    - a. during all periods of start up until the ESP is operational or until the inlet temperature of the ESP achieves the temperature level specified in OAC rule 3745-17-07(A)(3)(a)(i); and
    - b. during all periods of shutdown until the inlet temperature to the ESP drops below the temperature level specified in OAC rule 3745-17-07(A)(3)(b)(i).

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

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#### IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northeast District Office) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated weighted average 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, Northeast District Office) within 45 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. all 3-hour blocks of time during which the average total combined power input to all fields of the ESP does not comply with the operational restriction specified in Section A.II.2 of this permit; and
  - b. all periods of time during start up and shutdown of the emissions unit when the ESP was not in operation and the temperature of the boiler exhaust gases exceeded the temperature levels specified in OAC rule 3745-17-07(A)(3)(a)(i) and (b)(i).

The deviation (excursion) reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall also submit quarterly reports which identify the sections of the ESP that were out of service along with the time period(s) involved.

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#### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in

accordance with the following methods:

2. Emission Limitation:  
Visible particulate emissions shall not exceed 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).
3. Emission Limitation:  
Particulate emissions shall not exceed 0.20 pound per million Btu 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:  
  
The emission testing shall be conducted twice during the term of this permit. Once between years 2 and 3, and once during the last year of the permit.  
  
Compliance with the allowable mass emission rate for particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).  
  
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, Northeast 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, Northeast 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, Northeast District Office's refusal to accept the results of the emission test(s).  
Personnel from the Ohio EPA 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 Ohio EPA, Northeast 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, Northeast District Office.
4. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 7.19 pounds per million Btu actual heat input.  
  
Applicable Compliance Method:  
Compliance shall be determined by using the fuel analysis records required pursuant to Section A.III.2 and the applicable equation in OAC rule 3745-18-04(F).  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

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VI. **Miscellaneous Requirements**

1. None

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**Facility ID: 0247100408 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>
Babcock and Wilcox coal-fired boiler, having a rated heat input capacity of 50.0 million Btu per hour and controlled with an ESP.	none	none

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: 0247100408 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>
Babcock and Wilcox coal-fired boiler,	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20%

having a rated heat input capacity of 50.0 million Btu per hour and controlled with an electrostatic precipitator (ESP).

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

opacity as a 6-minute average, except as provided by rule.

Particulate emissions shall not exceed 0.20 pound per million Btu actual heat input.

OAC rule 3745-18-53(F)(1)

See Section A.1.2.a below.

Sulfur dioxide emissions shall not exceed 7.19 pounds per million Btu actual heat input.

## 2. Additional Terms and Conditions

- a. The particulate emission limitation is based upon the total heat input from emissions units B001 and B002, pursuant to OAC rule 3745-17-10(B).

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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 of 7.19 pounds per million Btu actual heat input.
2. The average total combined power input (in kilowatts) to all fields of the ESP, for any 3-hour block of time when the emissions unit is in operation, shall be no less than 90% of the total combined power input, as a 3-hour average, during the most recent emissions test that demonstrated the emissions unit was in compliance with the particulate emission limitation.
3. The permittee shall operate the ESP during any operation of this emissions unit, except the ESP may not be operated during periods of start up until the exhaust gases have achieved a temperature of 250 degrees Fahrenheit at the inlet of the ESP or during periods of shutdown when the temperature of the exhaust gases has dropped below 250 degrees Fahrenheit at the inlet of the ESP.

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

1. The permittee shall collect or require the coal supplier to collect a representative sample of coal for each shipment of coal which is received for burning in this emissions unit. The coal sampling shall be performed in accordance with ASTM method D2234, Collection of a Gross Sample of Coal.
 

Each sample of coal shall be analyzed for sulfur content (percent) and heat content (Btu/pound of coal). The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the most recent version of the following ASTM methods: ASTM method D3177, Total Sulfur in the Analysis Sample of Coal and Coke or ASTM method D4239, Sulfur in the Analysis Sample of Coal and Coke Using High Temperature Tube Furnace Combustion Methods; and ASTM method 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, Northeast District Office.
2. The permittee shall maintain records of the total quantity of coal received and the results of the analyses for sulfur content and heat content for each shipment of coal received for burning in this emissions unit and the calculated weighted average sulfur dioxide emission rate (in lbs/mmBtu) for all shipments of coal during a calendar month.
3. The permittee shall properly operate and maintain equipment to continuously monitor the secondary voltage, in kilovolts and the secondary current, in amps, in all fields of the ESP while the emissions unit is in operation. The secondary voltage and secondary current monitors shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.
 

The permittee shall monitor and record the following on an hourly basis during any operation of the ESP:

  - a. the secondary voltage, in kilovolts (kV), and the secondary current in amps, for each transformer rectifier (TR) set in the ESP;
  - b. the power input (in kilowatts) of each TR set for each hour (calculated by multiplying the secondary voltage (in kV) by the secondary current (in amps) for each TR set); and
  - c. the total power input to the ESP for each hour (add together the power inputs for the TR sets operating during the hour).
4. The permittee shall record the following information for each day:
  - a. all 3-hour blocks of time during which the average total combined power input to the ESP, when the emissions unit was in operation, was less than 90% of the total combined power input, as a 3-hour average, during the most recent emissions test that demonstrated the emissions unit was in compliance with the particulate emission limitation; and
  - b. the duration of the downtime for the monitoring equipment specified in Section A.III.3 above, the ESP sections that are out of service, and the duration of the downtime for each section, when the associated emissions unit was in operation.

5. If exemptions from the visible particulate emission limitations are requested during start up or shutdown of this emissions unit, the permittee shall operate and maintain a temperature monitor and recorder that measures and records the temperature of the boiler exhaust gases entering the ESP as follows:

- a. during all periods of start up until the ESP is operational or until the inlet temperature of the ESP achieves the temperature level specified in OAC rule 3745-17-07(A)(3)(a)(i); and
- b. during all periods of shutdown until the inlet temperature to the ESP drops below the temperature level specified in OAC rule 3745-17-07(A)(3)(b)(i).

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

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#### IV. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Northeast District Office) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated weighted average 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, Northeast District Office) within 45 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports which identify the following:
  - a. all 3-hour blocks of time during which the average total combined power input to all fields of the ESP does not comply with the operational restriction specified in Section A.II.2 of this permit; and
  - b. all periods of time during start up and shutdown of the emissions unit when the ESP was not in operation and the temperature of the boiler exhaust gases exceeded the temperature levels specified in OAC rule 3745-17-07(A)(3)(a)(i) and (b)(i).

The deviation (excursion) reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall also submit quarterly reports which identify the sections of the ESP that were out of service along with the time period(s) involved.

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#### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
2. Emission Limitation:  
Visible particulate emissions shall not exceed 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).
3. Emission Limitation:  
Particulate emissions shall not exceed 0.20 pound per million Btu 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:  
  
The emission testing shall be conducted twice during the term of this permit. Once between years 2 and 3, and once during the last year of the permit.  
  
Compliance with the allowable mass emission rate for particulates shall be determined in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9).  
  
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, Northeast 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, Northeast 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, Northeast District Office's refusal to accept the results of the emission test(s).  
Personnel from the Ohio EPA 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 Ohio EPA, Northeast 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, Northeast District Office.

- 4. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 7.19 pounds per million Btu actual heat input.

Applicable Compliance Method:  
Compliance shall be determined by using the fuel analysis records required pursuant to Section A.III.2 and the applicable equation in OAC rule 3745-18-04(F).

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

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0247100408 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>
Babcock and Wilcox coal-fired boiler, having a rated heat input capacity of 50.0 million Btu per hour and controlled with an ESP.	none	none

2. **Additional Terms and Conditions**

- 1. None

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II. **Operational Restrictions**

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

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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: 0247100408 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>
Babcock and Wilcox natural gas and/or number two fuel oil-fired boiler, having a rated heat input capacity of 61.5 million Btu per hour.	OAC rule 3745-17-07(A)	Visible particulate emissions shall not exceed 20% opacity as a 6-minute average, except as provided by rule.
	OAC rule 3745-18-53(F)(2)	Sulfur dioxide emissions shall not exceed 0.36 pound per million Btu actual heat input.
	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed .020 pound per million Btu actual heat input.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.
2. The quality of the oil burned in this emissions unit shall meet a sulfur content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.36 pound per million Btu of actual heat input.

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

1. For each day during which the permittee burns a fuel other than natural gas and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. The permittee shall perform or require the supplier to perform the analysis for sulfur content and heat content in accordance with the most recent versions of the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the Ohio EPA, Northeast District Office.

3. For each shipment of oil received for burning in this emissions unit, the permittee shall maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).) Also, if necessary, the permittee shall maintain monthly records of the calculated sulfur dioxide emission rate based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all shipments of oil during a calendar month.

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#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas and/or number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall notify the Director (the Ohio EPA, Northeast 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, Northeast District Office) within 45 days after the deviation occurs.

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#### V. Testing Requirements

1. Compliance with the emission limitations in Section A.I of these terms and conditions shall be determined in accordance with the following methods:
2. Emission Limitation:  
Visible particulate emissions shall not exceed 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).
3. Emission Limitation:  
Particulate emissions shall not exceed .020 pound per million Btu actual heat input.  
  
Applicable Compliance Method:  
When firing number two fuel oil, compliance shall be determined by multiplying an emission factor of 2.0 lbs of particulates/1000 gallons of oil fired by the emissions unit's maximum hourly fuel oil firing capacity (439.28 gallons/hr) and dividing by the emissions unit's rated heat input capacity (61.5 mmBtu/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.3, Table 1.3-1 (9/98).  
  
When firing only natural gas, compliance shall be determined by multiplying an emission factor of 1.9 lbs of particulates/mm standard cu. ft. by the emissions unit's maximum hourly natural gas firing capacity (.0615 mm standard cu. ft./hr) and dividing by the emissions unit's rated heat input capacity (61.5 mmBtu/hr). This emission factor is specified in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98).  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(9), while firing number two fuel oil.
4. Emission Limitation:  
Sulfur dioxide emissions shall not exceed 0.36 pound per million Btu actual heat input.  
  
Applicable Compliance Method:  
When firing fuel oil, except as provided below, compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.  
  
If the sulfur content of each shipment of oil received during a calendar month does not comply with the allowable emission limitation on an "as-received" basis, compliance with the allowable sulfur dioxide emission limitation shall be based upon a volume-weighted average of the calculated sulfur dioxide emission rates for all of the shipments of oil during the calendar month.  
  
When firing only natural gas, compliance with this limitation will be assumed due to the negligible percent sulfur, by weight, in the fuel.  
  
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6, while firing number two fuel oil.

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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>
Babcock and Wilcox natural gas and/or number two fuel oil-fired boiler, having a rated heat input capacity of 61.5 million Btu per hour.	none	none

**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