

Facility ID: 0322020005 Issuance type: Title V Proposed 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:

Kroma Paint Mixing, Ohio EPA emissions unit Z001  
Industrial Crayon Mixing, Ohio EPA emissions unit Z002  
Chalk Molding, Ohio EPA emissions unit Z003  
Coal Receiving, Ohio EPA emissions unit Z004  
Ash Disposal, Ohio EPA emissions unit Z005

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: 0322020005 Emissions Unit ID: B001 Issuance type: Title V Proposed 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>
15 mmBtu/hour spreader stoker coal-fired boiler, with multi-cyclone and baghouse in series	OAC rule 3745-17-07(A)  OAC rule 3745-17-10(C)(2) OAC rule 3745-18-28(G)	Visible particulate emissions (PE) shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule.  0.53 pound of PE/mmBtu of actual heat input 6.0 pounds of sulfur dioxide (SO <sub>2</sub> )/mmBtu of actual heat input

**2. Additional Terms and Conditions**

- a. The permittee shall employ a multi-cyclone and a baghouse to control the PE from this emissions unit.

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**II. Operational Restrictions**

1. The pressure drop across the multi-cyclone shall be maintained within the range of 2-4 inches of water while the emissions unit is in operation.
2. The pressure drop across the baghouse shall be maintained within the range of 1-8 inches of water while the emissions unit is in operation.
3. The daily average operating rates for this emissions unit shall not exceed the following: first quarter, 15 mmBtu/hour; second quarter, 15 mmBtu/hour; third quarter, 10 mmBtu/hour; and fourth quarter, 10 mmBtu/hour.
4. The quality of the coal burned in this emissions unit shall meet a sulfur content that is sufficient to comply with the allowable emission limitation specified in Section A.I of the terms and conditions of this permit.

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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 grab sample of each shipment of coal that is received for burning in this emissions unit. Each sample shall be collected from the feeder belt. 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 which were collected during that calendar month shall be combined into one composite sample.

Each monthly composite sample of coal shall be analyzed for sulfur content (percent) and heat content (Btu/pound of coal). The analytical methods for 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 Isoperibol Calorimeters, respectively. Alternative, equivalent methods may be used upon written approval by the Director (the appropriate Ohio EPA District Office or local air agency).

2. The permittee shall maintain records of the total quantity of coal received, the results of the analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu) for each calendar month.
3. The permittee shall maintain daily records of the average operating rate, in mmBtu/hour, for this emissions unit.
4. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the multi-cyclone while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the multi-cyclone on a weekly basis.
5. The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record the pressure drop across the baghouse on a weekly basis.

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#### IV. Reporting Requirements

1. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the multi-cyclone did not comply with the allowable range specified in section A.II.1 of the terms and conditions of this permit.
2. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any monthly record which shows a deviation of the allowable sulfur dioxide emission limitation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.
3. The permittee shall submit pressure drop deviation (excursion) reports that identify all periods of time during which the pressure drop across the baghouse did not comply with the allowable range specified in section B.II.1 of the terms and conditions of this permit.

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#### V. Testing Requirements

1. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. the emission testing shall be conducted within 6 months prior to the expiration of this permit and every 5 years thereafter;
  - b. the emission testing shall be conducted to demonstrate compliance with the allowable mass PE rate of 0.53 lb/mmBtu of actual heat input;
  - c. the following test method shall be employed to demonstrate compliance with the allowable mass emission rate: Method 5 of 40 CFR Part 60, Appendix A; and
  - d. 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 Director (the appropriate Ohio EPA District Office or local air agency).
2. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Director (the appropriate Ohio EPA District Office or local air agency). The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Director's refusal to accept the results of the emission test(s).

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

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 Director (the appropriate Ohio EPA District Office or local air agency) within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Director (the appropriate Ohio EPA District Office or local air agency).

3. Compliance with the emission limitation(s) in section A.I of the terms and conditions of this permit shall be determined in accordance with the following method(s):
  - a. Emission Limitation:  
Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule.

Applicable Compliance Method:  
OAC rule 3745-17-03(B)(1).

- b. Emission Limitation:  
0.53 lb PE/mmBtu of actual heat input

Applicable Compliance Method:  
The permittee shall demonstrate compliance with the PE limitation based upon the results of the emission testing required in sections A.V.1 and A.V.2 of the terms and conditions of this permit.

- c. Emission Limitation:  
6.0 pounds of SO2/mmBtu of actual heat input

Applicable Compliance Method:  
Compliance with the above emission limitation shall be demonstrated based upon the record keeping requirements in section A.III.3 and the method outlined in OAC rule OAC rule 3745-18-04(D)(3)(c).

If required, compliance with the allowable emission limitation of 6.0 lbs SO2/mmBtu of actual heat input shall be demonstrated in accordance with Method 6, which is located in 40 CFR Part 60, Appendix A.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0322020005 Emissions Unit ID: B001 Issuance type: Title V Proposed 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>
15 mmBtu/hour spreader stoker coal-fired boiler	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: 0322020005 Emissions Unit ID: B002 Issuance type: Title V Proposed 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>
16.7 mmBtu/hour natural gas-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule. 0.020 pound of PE/mmBtu of actual heat input
	OAC rule 3745-17-10(B)	

2. Additional Terms and Conditions

- a. Since natural gas is the only fuel fired in this emissions unit, OAC Chapter 3745-18 is not applicable. Hence, there is no SO2 emission limitation for this emissions unit.

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II. Operational Restrictions

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

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III. Monitoring and/or Record Keeping Requirements

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

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IV. Reporting Requirements

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

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V. **Testing Requirements**

1. Compliance Methods Requirements: Compliance with the emission limitation(s) in Section A.I of this permit shall be determined in accordance with the following methods:
  - a. Emission Limitation:  
Visible PE shall not exceed 20 percent opacity, as a six-minute average, except as otherwise provided by rule.  
  
Applicable Compliance Method:  
OAC rule 3745-17-03(B)(1)
  - b. Emission Limitation:  
0.020 pound of PE/mmBtu of actual heat input  
  
Applicable Compliance Method:  
The permittee shall demonstrate compliance with the above emission limitation by multiplying the maximum hourly gas burning capacity of the emissions unit (15,988 cu. ft./hr) by the appropriate emission factor from AP-42, Table 1.4-2 (revised 7/98) [1.9 lbs PE (filterable)/mmcu.ft.], and then dividing by the maximum hourly heat input capacity of the emissions unit (16.7 mmBtu/hr).  
  
If required, the permittee shall demonstrate compliance pursuant to OAC rule 3745-17-03(B)(9).

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0322020005 Emissions Unit ID: B002 Issuance type: Title V Proposed 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>
16.7 million Btu/hour natural gas-fired boiler	None	None
<b>2. Additional Terms and Conditions</b>		
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